



Klappläden aus Aluminium

Aluminium window shutters



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Impressum

Preisliste gültig ab 1.1.2016.

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Price list valid as of 1.1.2016.

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Montagehinweis

Bei der Bestellung ist darauf zu achten, dass das gewählte Befestigungszubehör für den vorgesehenen Montageuntergrund geeignet ist und die Verarbeitungsvorschriften des Befestigungsmittelherstellers eingehalten werden.

Sicherheitshinweise

Bei Sturm Fensterläden mit Innenöffner oder Elektroantrieb nicht betätigen. Beachten Sie daher die Anwendungstabelle für Innenöffner, Klobenfeststeller, Rasthalter und Ähnliches. Läden daher vor stürmischer Wetterlage schließen. Bei Feuchtigkeit und Kälte können die Bauteile durch Frost anfrieren. Bei Betätigung der elektrischen Klapp- und Schiebeläden bei Feuchtigkeit und Kälte oder Wind können sich die Laufwegeinstellungen verändern. Eine Nacheinstellung durch geschultes Fachpersonal kann erforderlich werden. Fensterläden sind ein Sonnenschutz. Zum ordnungsgemäßen Gebrauch müssen sie rechtzeitig vor dem Auftreten der folgenden Windbedingungen gesichert bzw. geschlossen sein: Bei Wind ab einem Beaufortgrad von 6 (siehe Tabelle). Dadurch werden bei ungünstiger Entwicklung der Wetterlage Deformationen des Beschlags und Folgeschäden verhindert.

Beaufort-Tabelle

Auszug aus der Beaufort-Tabelle, die die Auswirkungen des Windes beschreibt und die den Beaufortgraden zugeordneten Windgeschwindigkeiten enthält.

| Beaufortgrad / Beaufort number | Bezeichnung | Designation | Mittlere Windgeschwindigkeit Average wind speed | | Beispiele für die Auswirkungen des Windes im Binnenland | Examples of the effect of the wind on land |
|--------------------------------------|----------------|-----------------|--|---------|---|--|
| | | | [m/s] | [km/h] | | |
| 0 | Windstille | Calm | 0 – 0,2 | <1 | Rauch steigt senkrecht auf | Smoke rises vertically |
| 1 | leiser Zug | Light air | 0,3 – 1,4 | 1 – 5 | Windrichtung angezeigt durch den Zug des Rauches | Smoke drift indicates wind direction |
| 2 | leichte Brise | Light breeze | 1,5 – 3,4 | 6 – 12 | Wind im Gesicht spürbar | Wind felt on face |
| 3 | schwache Brise | Gentle breeze | 3,5 – 5,4 | 13 – 19 | Wind bewegt dünne Zweige | Small twigs move constantly |
| 4 | mäßige Brise | Moderate breeze | 5,5 – 7,4 | 20 – 27 | Wind bewegt Zweige und dünnere Äste, hebt Staub und loses Papier | Wind moves twigs and thin branches, raises dust and loose paper |
| 5 | frische Brise | Fresh breeze | 7,5 – 10,4 | 28 – 37 | kleine Laubbäume beginnen zu schwanken | Small trees in leaf begin to sway |
| 6 | starker Wind | Strong breeze | 10,5 – 13,4 | 38 – 48 | starke Äste schwanken | Large branches in motion |

Consulting note

Our consulting services, provided verbally and in writing, are intended to explain the best-possible use of our products and services. Our advice does not release you from the obligation to make a meticulous check of the suitability of our products and services for your intended purpose. This specifically includes a review of the general appearance and workmanship and especially the adequate bearing capacity of the mounting base and the forwarding of all related information to us together with the purchase order. If our product cannot be put to its contractual use due to the lack of information or incorrect information, we, or auxiliary persons assigned by us, shall only assume liability (contractual or non-contractual) in the event of wilful intent or gross negligence.

Installation note

When ordering, care must be taken that the selected mounting fittings are suitable for the intended mounting base and that the processing instructions of the fittings manufacturer are observed.

Safety note

Do not open shutters with an inside opener or electric drive in a storm. Please read the application table for inside openers, pulley locks, snap holders and similar equipment. Always close shutters before stormy weather. In the event of moisture and cold, components can freeze together due to frost. If electric folding shutters or sliding shutters are used when it is wet, cold or windy, this can affect the travel path settings. As a result, it might be necessary to have them re-adjusted by specialist personnel. Shutters are a protection against the sun. Proper use requires that they be secured or closed in due time before onset of the following wind conditions: in the event of Beaufort scale 6 wind force (see table). This prevents deformation of the fittings and consequential damage should the weather develop unfavourably.

Beaufort scale

Excerpt from the Beaufort scale, which describes the effects of the wind and indicates wind speeds categorised according to the Beaufort number scale.

Farben und Dekore Colours and decorative finishes



RAL C / VSR

RAL-Classic-Farben / aktuelle VSR-Farben mit Feinstruktur matt (FSM) Oberfläche.

RAL C / VSR

RAL Classic colours / current VSR colours with fine structure matt (FSM) surface.

RAL Design / NCS

RAL-Design und NCS-Farben gegen Aufpreis, siehe Seite 7.

RAL Design / NCS

RAL Design and NCS colours subject to surcharge, see page 7.

Hinweis

Einige Sonderfarben der RAL-, NCS- und VSR-Auswahl sind nicht in Fassadenqualität lieferbar.

Note

Some special colours in the RAL, NCS and VSR ranges are not available in façade quality.



Holzdekor

Holzdekor gemäß Übersicht mit HWF-Grundpulverbeschichtung.
3-D und Alterungseffekt ohne Aufpreis.

Wood finish

Wood finish as listed in the overview with HWF primer powder coating.
3-D and weathered effect at no extra charge.

Weitere Dekore

Stein-, Rost- und individuelle Dekore auf Anfrage.

Further decorative finishes

Stone, rust and custom finishes on request.

Zweifarbige Läden

Farbe 1 bezieht sich auf Rahmenteile und Lamellenträger.

Farbe 2 bezieht sich auf die Füllungen wie Lamellen, Platten, usw.

Standardfarben 4% Aufpreis

RAL/VSR-Farben 4% Aufpreis

NCS-Farben Aufpreis auf Anfrage

Two-colour shutters

Colour 1 is for frame parts and slat carriers.

Colour 2 is for centres such as slats, plates, etc.

Standard colours 4% surcharge

RAL/VSR colours 4% surcharge

NCS colours surcharge on request



Ocean Line plus schützt vor Filiformkorrosion

Filiformkorrosion ist eine unter Einwirkung bestimmter Umwelteinflüsse auf Aluminiumbauteile entstehende Korrosion unter der Pulverlackschicht. Dabei bildet sich trotz guter Haftung und Verarbeitung eine filigrane Korrosion ausgehend von den Schnittkanten, die auf Dauer zu Auflösungserscheinungen der Beschichtung führt. Herkömmliche Vorbehandlungen bieten unter diesen ungünstigen Bedingungen (Meeresnähe, Schwimmbad, Chemieindustrie) keinen ausreichenden Schutz, wie neutrale Untersuchungen zeigen.

Ocean Line plus protects against filiform corrosion

Filiform corrosion is a type of corrosion that occurs in aluminium parts underneath the powder coating as a result of certain environmental conditions. Despite good bonding and workmanship, corrosion occurs, starting in cut edges. Over the course of time it can destroy the coating. Conventional pre-treatments do not provide sufficient protection under such adverse conditions (proximity to the coast, swimming pool, chemical industry), as has been indicated by objective studies.



Beschichtungsaufpreis und -aufschlag

Neben den Standard- und RAL Farben sowie Holzdekoren bietet EHRET eine Vielzahl von weiteren Beschichtungsmöglichkeiten an. Diese werden mit einem Aufpreis (AP 1, AP 2 und AP3) gemäß nachfolgender Übersicht und Preistabelle verrechnet. Die Aufpreise gelten für fassadentaugliche Farben und Dekore.

Supplement to coating surcharges

In addition to standard colours, RAL colours and wood finishes, EHRET also has a wide range of additional coating options to offer. These are calculated according to a surcharge (AP 1, AP 2 and AP 3) as per the following overview and price table. The surcharges apply to paints and finishes for façades.

| Farben / Colours | FSM | Seidenglanz / Silk gloss | Matt / Matte |
|--|--|---|------------------------------|
| Favoriten Farben / Favourite colours | ohne Aufpreis / No surcharge | Preisliste RAL + 5 % / RAL price list + 5 % | AP 1 |
| RAL Classic | ohne Aufpreis / No surcharge | Preisliste RAL + 5 % / RAL price list + 5 % | AP 1 |
| RAL Design | AP 2 | AP 2 | AP 2 |
| VSR Farben / VSR colours | ohne Aufpreis / No surcharge | Preisliste RAL + 5 % / RAL price list + 5 % | AP 2 |
| NCS | AP 2 | AP 2 | AP 2 |
| Sikkens | AP 2 | AP 2 | AP 2 |
| Akzo | AP 1 | AP 1 | AP 1 |
| DB 701 | ohne Aufpreis / No surcharge | ohne Aufpreis / No surcharge | ohne Aufpreis / No surcharge |
| DB 702 | ohne Aufpreis / No surcharge | ohne Aufpreis / No surcharge | ohne Aufpreis / No surcharge |
| DB 703 | ohne Aufpreis / No surcharge | ohne Aufpreis / No surcharge | ohne Aufpreis / No surcharge |
| Übrige DB / Other DB | AP 2 | AP 2 | AP 2 |
| nach Farbvorlage / According to colour sample | AP 2 | AP 2 | AP 2 |
| Dekore (inkl. HWF) / Finishes (incl. HWF) | FSM | Seidenglanz / Silk gloss | Matt / Matt |
| Holzdekor / Wood finish | Preisliste Dekor / Price list for finishes | — | — |
| Rost-Beschichtung / Rust coating | Preisliste RAL + 5 % / RAL price list + 5 % | — | — |
| Rost-Dekor / Rust finish | Preisliste Dekor + 5 % / Price list for finishes + 5 % | — | — |
| Granit-Dekor / Granite finish | Preisliste Dekor + 5 % / Price list for finishes + 5 % | — | — |
| Patina-Dekor (Kupfer) / Patina finish (copper) | Preisliste Dekor + 5 % / Price list for finishes + 5 % | — | — |

OceanLine plus

| | |
|---|--|
| Läden und Beschläge / Shutters and hardware | Preisliste RAL + 20 % - Zzgl. Auftrags-Pauschale von 670 € brutto / RAL price list + 20 % plus order fee of € 670, gross |
| nur Beschläge / Only hardware | Preisliste RAL + 20 % / RAL price list + 20 % |

Eloxal (Beschläge nicht möglich / not for hardware)

| | |
|--|--------------------------|
| E6/EV1, E6 Titangrau / titanium grey | AP2 |
| E6/EV2 Hellgold / bright gold | AP2 |
| E6/EV3 Messing / brass | AP2 |
| E6 3115 Hellsilber / bright silver | AP2 |
| E6 3145 Neusilber / new silver | AP2 |
| E6/3165 Hellbronze / bright bronze | AP2 |
| E6/3175 Mittelbronze / medium bronze | AP2 |
| E6/3178 Dunkelbronze / dark bronze | AP2 |
| E6 3180 Schwarz / black | AP2 |
| Farbeloxal/Sondereloxal / Coloured anodised aluminium/special anodised aluminium | Auf Anfrage / On request |
| Eloxalpulver beschichtbar / Anodised aluminium powder, can be coated | AP 2 |

Vorbehandlung HWF / HWF pretreatment

| | |
|------------------------------------|--------------------------|
| Farben Standard / Standard colours | Auf Anfrage / On request |
| Farben Super / Super colours | Auf Anfrage / On request |

Aufträge mit Kundenpulver / Orders with customer powder

| | |
|---|--|
| Pulver vom Besteller / Powder from person placing order | Kein Auf- bzw. Minderpreis / No surcharge or price reduction |
|---|--|

Aufpreise (AP) Surcharges (AP)

pauschal pro Auftrag (brutto in €) Fee per order (gross price in €)

| Auftragsgröße / Order size | Aufpreis AP 1 / Surcharge AP 1 | Aufpreis AP 2 / Surcharge AP 2 | Aufpreis AP 3 / Surcharge AP 3 |
|----------------------------|--------------------------------|--------------------------------|--------------------------------|
| < 10 Flügel / sashes | 504 | 756 | 924 |
| 11 - 15 Flügel / sashes | 462 | 714 | 882 |
| 16 - 20 Flügel / sashes | 420 | 672 | 840 |
| 21 - 25 Flügel / sashes | 378 | 630 | 798 |
| 26 - 30 Flügel / sashes | 336 | 588 | 756 |
| 31 - 40 Flügel / sashes | 252 | 504 | 672 |
| 41 - 50 Flügel / sashes | 315 | 630 | 840 |
| 51 - 60 Flügel / sashes | 378 | 756 | 1008 |
| 61 - 70 Flügel / sashes | 441 | 882 | 1176 |
| 71 - 80 Flügel / sashes | 504 | 1008 | 1344 |
| 81 - 90 Flügel / sashes | 567 | 1134 | 1512 |
| 91 - 100 Flügel / sashes | 630 | 1260 | 1680 |
| 101 - 110 Flügel / sashes | 693 | 1386 | 1848 |
| > 120 Flügel / sashes | 756 | 1512 | 2016 |

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Anschlagschemen

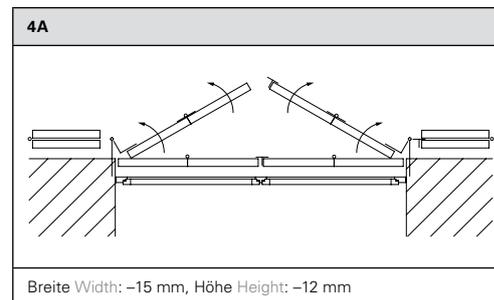
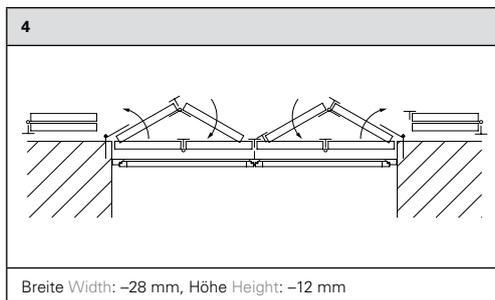
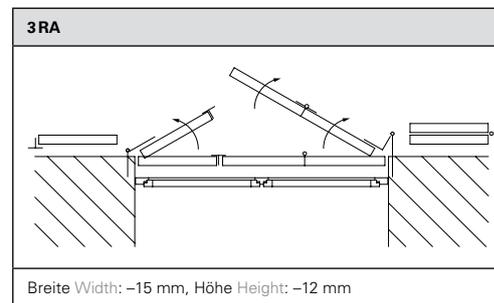
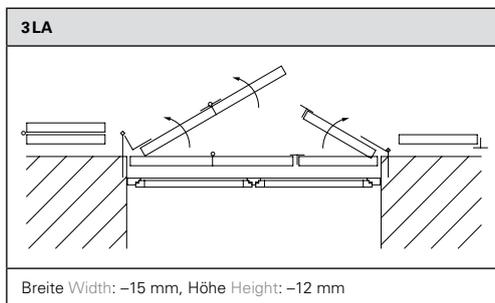
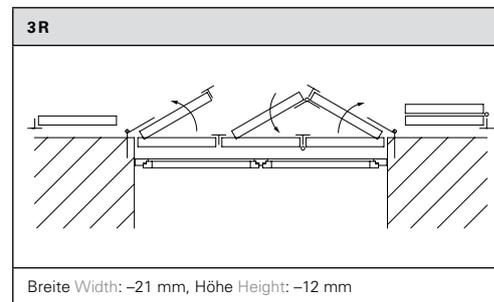
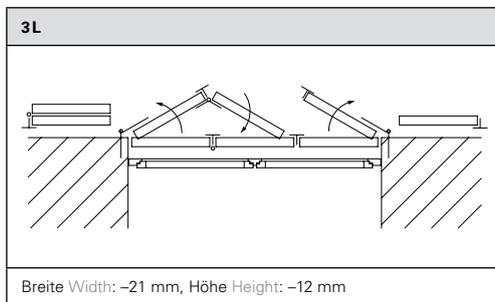
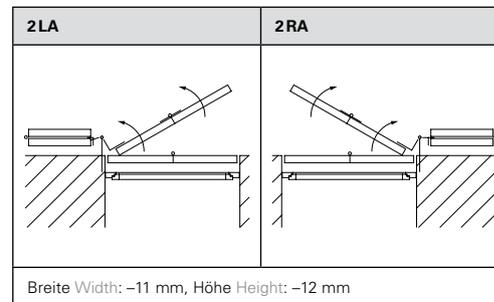
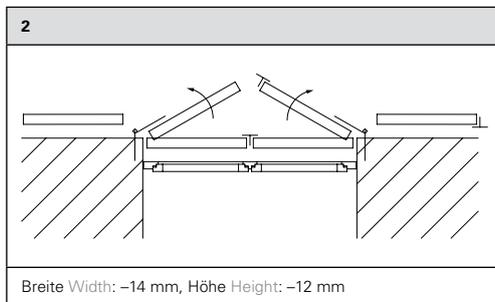
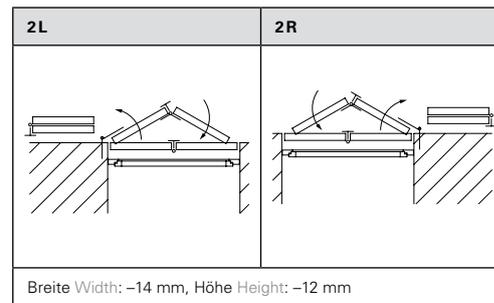
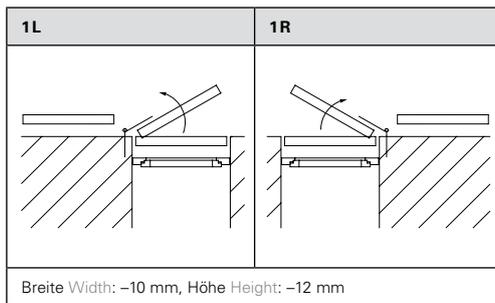
Stop diagrams

Die angegebenen Abzugsmaße werden bei Lichtmaßbestellungen von uns standardmäßig berücksichtigt. Bei Rund- und Spitzbögen beträgt das Abzugsmaß in der Höhe –15 mm.

Ansichten immer von innen!

The specified deduction clearances are taken into consideration with regard to clearance dimension orders as standard. In round and pointed arches, the deduction clearance in terms of height is –15 mm.

Views are always from the inside!



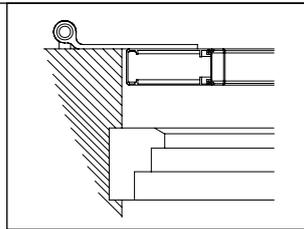
Maßanleitung

Measuring instructions

- Die Skizzen zeigen die gängigsten Anschlagarten und sind als Hilfe für die Maßaufnahme gedacht.
- Die Flügel werden nach den angegebenen Fertigungsmaßen hergestellt. Wir behalten uns eine Fertigungstoleranz von ± 2 mm vor.
- Im empfohlenen Abzug von 7 mm je Flügel (nicht Montageart 4+5) ist die Schlagleiste (T-Profil) bereits enthalten.
- Für eine schnelle und fehlerfreie Bearbeitung empfehlen wir, die EHRET Auftragsvordrucke zu verwenden.
- The sketches show the most popular types of stops and are designed to aid taking the measurements.
- The sashes are manufactured according to the specified production dimensions. We reserve the right to a production tolerance of ± 2 mm.
- The recommended deduction measurement of 7 mm per sash (excl. installation types 4+5) already includes the stop bead (T-profile).
- To ensure the work is carried out quickly and smoothly, we recommend using EHRET's pre-printed order form.

Montageart 1

Laden bündig in der Leibung. Maßaufnahme von Leibungskante zu Leibungskante (engste Stelle).

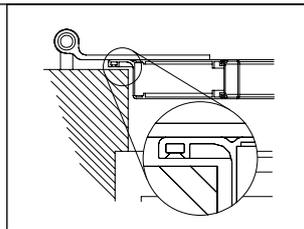


Installation type 1

Shutter is flush in the reveal. Measure from one edge of the reveal to the other (narrowest point).

Montageart 2 – mit Falzleiste

Die Flügel stehen ca. 10 mm über die Fassade. Maßaufnahme von Leibungskante zu Leibungskante (engste Stelle).

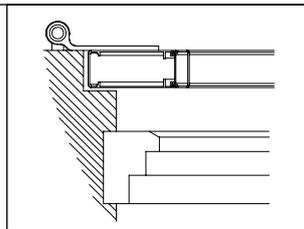


Installation type 2 – with rabbet bead

The sashes project about 10 mm over the façade. Measure from one edge of the reveal to the other (narrowest point).

Montageart 3

Laden im Stein- oder Holzfalz. Maßaufnahme im Falz (engste Stelle).

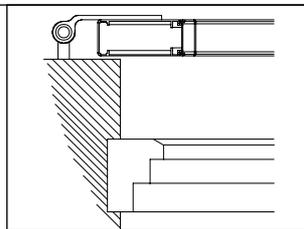


Installation type 3

Shutter in stone or wood rabbet. Measure inside the rabbet (narrowest point).

Montageart 4

Laden über der Leibung. Dem Maß von Leibungskante zu Leibungskante in der Breite auf jeder Seite 20 mm Auflage zugeben, in der Höhe ebenfalls 20 mm zugeben. Bei evtl. vorhandenen Kloben den erforderlichen Abstand beachten.

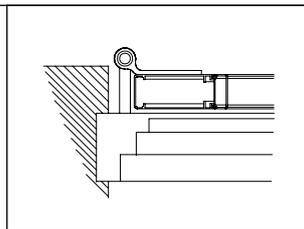


Installation type 4

Shutter is over the reveal. Taking the measurement of the width from one edge of the reveal to the other, add 20 mm overlap for each side and add 20 mm to the height. If there are any brackets, remember to observe the required clearance.

Montageart 5

Laden aufliegend auf dem Fensterstock. Der Ladenüberstand seitlich sowie oben und unten ist je nach Art und Ausführung des Fensterstocks und der baulichen Situation zu ermitteln. Anwendungsbeispiele für Maco-Beschläge erhalten sie nach Rücksprache.



Installation type 5

Shutter lying on the window frame. The overhang of the shutter at the side as well as at the top and bottom has to be measured, depending on the type and model of the window frame and the type of installation situation. Examples of how Maco fittings are used can be obtained on request.

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A

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M

Selbstkalkulation mit Beschlagpaketen

Self-calculation with hardware packages

Rechnen Sie Ihr Angebot mit den Beschlagpaketen schnell und einfach selbst:

1. Suchen Sie sich aus der Preisliste das gewünschte Klapplädenmodell aus.
2. Multiplizieren Sie den Flügelpreis mit der Anzahl der Flügel pro Fenster/Tür.
3. Rechnen Sie das gewünschte Beschlagpaket hinzu (ein Beschlagpaket pro Fenster/Tür).
4. Rechnen Sie nun Ihren Verkaufspreis mit den Montagekosten aus.

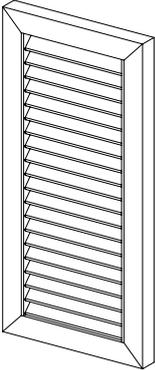
Die Paketpreise verstehen sich brutto zzgl. MwSt.

Using the hardware packages you can quickly and easily calculate your own estimate:

1. Look for your preferred window shutter model in our price list.
2. Multiply the sash price by the number of sashes per window/door.
3. Add the required hardware package (one hardware package per window/door).
4. Now calculate the sales price and installation costs.

The package prices are gross and do not include VAT.

BEISPIEL / EXAMPLE



1.
Modell: JS
Lichte Maße: Breite 1800 mm; Höhe 1200 mm. 3-teiliger Fensterladen, Schema 3L, 3 Flügel zu 600 mm x 1200 mm;
Flügelpreis: 169 €

→

Modell: JS
Clear dimensions: Width 1800 mm; Height 1200 mm. 3-part shutter, diagram 3L, 3 sashes at 600 mm x 1200 mm;
Sash price: € 169.00

| | 400 | 450 | 500 | 550 | 600 | 650 | 700 |
|-------------|-----|-----|-----|-----|-----|-----|-----|
| 800 | 110 | 114 | 119 | 123 | 128 | 132 | 138 |
| 900 | 117 | 123 | 128 | 133 | 139 | 143 | 148 |
| 1000 | 126 | 132 | 138 | 143 | 148 | 153 | 159 |
| 1100 | 134 | 140 | 146 | 152 | 158 | 164 | 171 |
| 1200 | 142 | 148 | 155 | 162 | 169 | 176 | 182 |
| 1300 | 148 | 155 | 162 | 170 | 177 | 184 | 192 |
| 1400 | 153 | 161 | 170 | 178 | 185 | 193 | 201 |
| 1500 | 160 | 169 | 177 | 185 | 194 | 202 | 211 |
| 1600 | 166 | 176 | 184 | 193 | 201 | 212 | 220 |

2.
Flügelanzahl: 3 Flügel
Sash quantity: 3 sashes

3.
Beschlagpaket „D“ (Fenster/Schema 3L/bestehende Kloben/neue Ladenhalter)
Hardware package "D" (window/diagram 3L/existing brackets/new shutter holders)

| Anschlag- schema Stop diagram | Bestehende Kloben / neue Ladenhalter Existing brackets / New shutter holders | | |
|---|---|------------------------|-----|
| | Basis/ Basis | Exklusiv/ Exclusive | |
| Fenster (2 Bänder) Window (2 hinges) | 1L / 1R | 59 | 71 |
| | 2 | 100 | 135 |
| | 2L / 2R | 108 | 121 |
| | 3L / 3R | 138 | 184 |
| 4 | 197 | 235 | |

4.
Modell: JS
3-teiliger Fensterladen (Schema 3L); Lichte Maße: Breite 180 cm, Höhe 120 cm; Montage mit Expressband auf bestehende Kloben, Ladenhalter neu
Model: JS
3-part shutter (diagram 3L); clear dimensions: Width: 180 cm, Height: 120 cm; Installation with express hinge on existing bracket, new shutter holders

| | |
|---|----------------|
| Flügelanzahl: 3 Flügel (60 cm x 120 cm) à 169,- € Sash quantity: 3 sashes (60 cm x 120 cm) à € 169.- | 507,- € |
| Beschlagpaket „D“ mit Expressbandvormontage (Fenster, Schema 3L, best. Kloben, LH neu) Hardware package "D" with express hinge pre-installation (window, diagram 3L, exist. brackets, new shutter holders) | 184,- € |
| Bruttopreis zzgl. Montage + MwSt. Gross price plus installation + VAT | 691,- € |

Beschlagpakete Hardware packages

Beschlagpaket D (Deutschland/Elsass) / Hardware package D (Germany/Alsace)

B

Lieferung: Deutsches Expressband, Reduktionshülsen, Mittelverschluss, Riegel, Riegelanschlag, Scharniere, Schraubkloben, Ladenhalter, Vorreiber mit Streichblech, T-Leisten vormontiert

Basis: Alle Mauerteile in Blank

Exklusiv: Alle Mauerteile beschichtet, inkl. Anschraubplatten für Frauenkopfladenhalter, Dübel

Delivery: German express hinge, reduction sleeves, middle closure, bolt, bolt stop, hinges, screw bracket, shutter holder, sash lock with scraper plate, T-beads preinstalled

Basis: All wall parts uncoated

Exclusive: All wall parts coated, incl. screw-on plates for lady head shutter holder, dowel

| | Anschlagschema Stop diagram | Bestehende Kloben, Ladenhalter neu Existing brackets, new shutter holders | | Neumontage New installation | |
|---|--------------------------------|--|----------------------|--------------------------------|----------------------|
| | | Basis / Basis | Exklusiv / Exclusive | Basis / Basis | Exklusiv / Exclusive |
| | | | | | |
| Fenster (2 Bänder) Window (2 hinges) | 1L / 1R | 59 | 71 | 69 | 90 |
| | 2 | 111 | 135 | 130 | 171 |
| | 2L / 2R | 108 | 121 | 117 | 140 |
| | 3L / 3R | 159 | 184 | 178 | 221 |
| | 4 | 208 | 235 | 227 | 272 |
| Tür (3 Bänder) Door (3 hinges) | 1L / 1R | 84 | 95 | 98 | 122 |
| | 2 | 156 | 178 | 185 | 233 |
| | 2L / 2R | 167 | 178 | 181 | 206 |
| | 3L / 3R | 229 | 261 | 268 | 316 |
| | 4 | 323 | 344 | 351 | 399 |

Beschlagpaket D (Deutschland/Elsass) Easyflex / Hardware package D (Germany/Alsace) Easyflex

Lieferung: Easyflex-Band D, Reduktionshülsen, Mittelverschluss, Riegel, Riegelanschlag, Scharniere, Schraubkloben, Ladenhalter, Vorreiber mit Streichblech, Ladenhalter Türe

Basis: Alle Mauerteile in Blank

Exklusiv: Alle Mauerteile beschichtet, inkl. Anschraubplatten für Ladenhalter

Delivery: Easyflex hinge D, reduction sleeves, middle closure, bolt, bolt stop, hinges, screw bracket, shutter holder, sash lock with scraper plate, shutter holder door

Basis: All wall parts uncoated

Exclusive: All wall parts coated, incl. screw-on plates for shutter holder

| | Anschlagschema Stop diagram | Bestehende Kloben, Ladenhalter neu Existing brackets, new shutter holders | | Neumontage New installation | |
|---|--------------------------------|--|----------------------|--------------------------------|----------------------|
| | | Basis / Basis | Exklusiv / Exclusive | Basis / Basis | Exklusiv / Exclusive |
| | | | | | |
| Fenster (2 Bänder) Window (2 hinges) | 1L / 1R | 77 | 88 | 86 | 107 |
| | 2 | 134 | 157 | 153 | 193 |
| | 2L / 2R | 147 | 160 | 157 | 178 |
| | 3L / 3R | 205 | 228 | 223 | 265 |
| | 4 | 275 | 299 | 294 | 336 |
| Tür (3 Bänder) Door (3 hinges) | 1L / 1R | 101 | 108 | 135 | 135 |
| | 2 | 182 | 196 | 250 | 251 |
| | 2L / 2R | 191 | 196 | 215 | 224 |
| | 3L / 3R | 272 | 279 | 330 | 333 |
| | 4 | 361 | 336 | 409 | 391 |

Beschlagpaket F (Frankreich)* / Hardware package F (France)*

Lieferung: Französisches Expressband, Reduktionshülsen, Drehstange Ambiente, Riegel, Riegelanschlag, Scharniere, Sicherheitskloben, Ladenhalter, Vorreiber mit Streichblech, Ladenhalter Türe

Basis: Alle Mauerteile in Blank

Exklusiv: Alle Mauerteile beschichtet, inkl. Anschraubplatten für Ladenhalter

* nicht gültig für Modelle DIJON & ISO

Delivery: French express hinge, reduction sleeves, espagnolette Ambiente, bolt, bolt stop, hinges, security catch, shutter holder, sash lock with scraper plate, shutter holder door

Basis: All wall parts uncoated

Exclusive: All wall parts coated, incl. screw-on plates for shutter holder

* not applicable to DIJON & ISO models

| | Anschlagschema Stop diagram | Bestehende Kloben, Ladenhalter neu Existing brackets, new shutter holders | | Neumontage New installation | |
|---|--------------------------------|--|----------------------|--------------------------------|----------------------|
| | | Basis / Basis | Exklusiv / Exclusive | Basis / Basis | Exklusiv / Exclusive |
| | | | | | |
| Fenster (2 Bänder) Window (2 hinges) | 1L / 1R | 105 | 116 | 130 | 141 |
| | 2 | 150 | 173 | 200 | 223 |
| | 2L / 2R | 154 | 167 | 179 | 192 |
| | 3L / 3R | 199 | 223 | 249 | 273 |
| | 4 | 248 | 274 | 298 | 324 |
| Tür (3 Bänder) Door (3 hinges) | 1L / 1R | 133 | 144 | 171 | 181 |
| | 2 | 200 | 221 | 275 | 296 |
| | 2L / 2R | 210 | 220 | 247 | 257 |
| | 3L / 3R | 285 | 306 | 360 | 381 |
| | 4 | 363 | 383 | 438 | 459 |

Beschlagpaket F (Frankreich) Easyflex* / Hardware package F (France) Easyflex*

Lieferung: Französisches Easyflex-Band, Reduktionshülsen, Drehstange MACO, Riegel, Riegelanschlag, Scharniere, Sicherheitskloben, Ladenhalter, Vorreiber mit Streichblech, Ladenhalter Türe

Basis: Alle Mauerteile in Blank

Exklusiv: Alle Mauerteile beschichtet, inkl. Anschraubplatten für Ladenhalter

* nicht gültig für Modelle DIJON & ISO

Delivery: French Easyflex hinge, reduction sleeves, espagnolette MACO, bolt, bolt stop, hinges, security catch, shutter holder, sash lock with scraper plate, shutter holder door

Basis: All wall parts uncoated

Exclusive: All wall parts coated, incl. screw-on plates for shutter holder

* not applicable to DIJON & ISO models

| | Anschlagschema Stop diagram | Bestehende Kloben, Ladenhalter neu Existing brackets, new shutter holders | | Neumontage New installation | |
|---|--------------------------------|--|----------------------|--------------------------------|----------------------|
| | | Basis / Basis | Exklusiv / Exclusive | Basis / Basis | Exklusiv / Exclusive |
| | | | | | |
| Fenster (2 Bänder) Window (2 hinges) | 1L / 1R | 99 | 111 | 124 | 136 |
| | 2 | 141 | 163 | 191 | 213 |
| | 2L / 2R | 166 | 178 | 191 | 203 |
| | 3L / 3R | 207 | 231 | 257 | 281 |
| | 4 | 274 | 298 | 324 | 348 |
| Tür (3 Bänder) Door (3 hinges) | 1L / 1R | 124 | 134 | 161 | 172 |
| | 2 | 189 | 210 | 264 | 285 |
| | 2L / 2R | 210 | 219 | 247 | 257 |
| | 3L / 3R | 275 | 295 | 350 | 370 |
| | 4 | 361 | 380 | 436 | 455 |

Beschlagpaket Frankreich ISO DIJON / Hardware package France ISO DIJON

Lieferung: ISO DIJON Expressband, Reduktionshülsen, Drehstange Ambiente, Riegel, Riegelanschlag, Scharniere, Sicherheitskloben, Ladenhalter, Vorreiber mit Streichblech, Ladenhalter Türe

Basis: Alle Mauerteile in Blank

Exklusiv: Alle Mauerteile beschichtet, inkl. Anschraubplatten für Ladenhalter

Delivery: ISO DIJON express hinge, reduction sleeves, espagnolette Ambiente, bolt, bolt stop, hinges, security catch, shutter holder, sash lock with scraper plate, shutter holder door

Basis: All wall parts uncoated

Exclusive: All wall parts coated, incl. screw-on plates for shutter holder

| | Anschlagschema Stop diagram | Bestehende Kloben, Ladenhalter neu Existing brackets, new shutter holders | | Neumontage New installation | |
|---|--------------------------------|--|----------------------|--------------------------------|----------------------|
| | | Basis / Basis | Exklusiv / Exclusive | Basis / Basis | Exklusiv / Exclusive |
| | | | | | |
| Fenster (2 Bänder) Window (2 hinges) | 1L / 1R | 128 | 139 | 153 | 164 |
| | 2 | 196 | 219 | 246 | 269 |
| | 2L / 2R | 202 | 215 | 227 | 240 |
| | 3L / 3R | 270 | 294 | 320 | 344 |
| | 4 | 344 | 370 | 394 | 420 |
| Tür (3 Bänder) Door (3 hinges) | 1L / 1R | 172 | 310 | 200 | 347 |
| | 2 | 277 | 425 | 352 | 500 |
| | 2L / 2R | 302 | 448 | 339 | 486 |
| | 3L / 3R | 416 | 564 | 491 | 639 |
| | 4 | 548 | 704 | 623 | 780 |

Beschlagpaket Frankreich ISO DIJON Easyflex / Hardware package France ISO DIJON Easyflex

Lieferung: ISO DIJON Easyflex-Band, Reduktionshülsen, Drehstange MACO, Riegel, Riegelanschlag, Scharniere, Sicherheitskloben, Ladenhalter, Vorreiber mit Streichblech, Ladenhalter Türe

Basis: Alle Mauerteile in Blank

Exklusiv: Alle Mauerteile beschichtet, inkl. Anschraubplatten für Ladenhalter

Delivery: ISO DIJON Easyflex hinge, reduction sleeves, espagnolette MACO, bolt, bolt stop, hinges, security catch, shutter holder, sash lock with scraper plate, shutter holder door

Basis: All wall parts uncoated

Exclusive: All wall parts coated, incl. screw-on plates for shutter holder

| | Anschlagschema Stop diagram | Bestehende Kloben, Ladenhalter neu Existing brackets, new shutter holders | | Neumontage New installation | |
|---|--------------------------------|--|----------------------|--------------------------------|----------------------|
| | | Basis / Basis | Exklusiv / Exclusive | Basis / Basis | Exklusiv / Exclusive |
| | | | | | |
| Fenster (2 Bänder) Window (2 hinges) | 1L / 1R | 121 | 129 | 143 | 154 |
| | 2 | 177 | 200 | 227 | 250 |
| | 2L / 2R | 205 | 218 | 230 | 243 |
| | 3L / 3R | 262 | 286 | 312 | 336 |
| | 4 | 317 | 342 | 396 | 422 |
| Tür (3 Bänder) Door (3 hinges) | 1L / 1R | 151 | 162 | 189 | 199 |
| | 2 | 244 | 265 | 319 | 340 |
| | 2L / 2R | 256 | 266 | 293 | 304 |
| | 3L / 3R | 349 | 369 | 424 | 444 |
| | 4 | 453 | 474 | 528 | 549 |

Beschlagpaket CH 1 / Hardware package CH 1

Lieferung: Deutsches Expressband, Reduktionshülsen, Schlenngen, Winkel- oder Gestellkloben, Riegelanschlag, Scharniere, Tubtara, Schraubkloben, Ladenhalter, Vorreiber mit Streichblech, Ladenhalter Türe

Basis: Alle Mauerteile und Fensterteile in Blank

Exklusiv: Alle Mauer- und Fensterteile beschichtet, inkl. Anschraubplatten für Ladenhalter

Delivery: German express hinge, reduction sleeves, hooks, angle/frame brackets, bolt stop, hinges, Tubtara, screw bracket, shutter holder, sash lock with scraper plate, shutter holder door

Basis: All wall parts and window parts uncoated

Exclusive: All wall parts and window parts coated, incl. screw-on plates for shutter holders

| | Anschlagschema Stop diagram | Bestehende Kloben, Ladenhalter neu Existing brackets, new shutter holders | | Neumontage New installation | |
|---|--------------------------------|--|----------------------|--------------------------------|----------------------|
| | | Basis / Basis | Exklusiv / Exclusive | Basis / Basis | Exklusiv / Exclusive |
| | | | | | |
| Fenster (2 Bänder) Window (2 hinges) | 1L / 1R | 60 | 73 | 70 | 91 |
| | 2 | 115 | 139 | 134 | 176 |
| | 2L / 2R | 110 | 125 | 119 | 143 |
| | 3L / 3R | 165 | 191 | 184 | 228 |
| | 4 | 215 | 243 | 234 | 280 |
| Tür (3 Bänder) Door (3 hinges) | 1L / 1R | 81 | 93 | 95 | 120 |
| | 2 | 156 | 179 | 185 | 234 |
| | 2L / 2R | 160 | 195 | 174 | 222 |
| | 3L / 3R | 235 | 281 | 264 | 336 |
| | 4 | 314 | 372 | 342 | 427 |

Beschlagpaket CH 1 Easyflex / Hardware package CH 1 Easyflex

Lieferung: Deutsches Easyflex-Band, Reduktionshülsen, Schlenngen, Winkel- oder Gestellkloben, Riegelanschlag, Scharniere, Tubtara, Schraubkloben, Ladenhalter, Vorreiber mit Streichblech, Ladenhalter Türe

Basis: Alle Mauerteile und Fensterteile in Blank

Exklusiv: Alle Mauer- und Fensterteile beschichtet, inkl. Anschraubplatten für Ladenhalter

Delivery: German Easyflex hinge, reduction sleeves, hooks, angle/frame bracket, bolt stop, hinges, Tubtara, screw brackets, shutter holder, sash lock with scraper plate, shutter holder door

Basis: All wall parts and window parts uncoated

Exclusive: All wall parts and window parts coated, incl. screw-on plates for shutter holders

| | Anschlagschema Stop diagram | Bestehende Kloben, Ladenhalter neu Existing brackets, new shutter holders | | Neumontage New installation | |
|---|--------------------------------|--|----------------------|--------------------------------|----------------------|
| | | Basis / Basis | Exklusiv / Exclusive | Basis / Basis | Exklusiv / Exclusive |
| | | | | | |
| Fenster (2 Bänder) Window (2 hinges) | 1L / 1R | 71 | 83 | 80 | 104 |
| | 2 | 134 | 157 | 153 | 197 |
| | 2L / 2R | 135 | 171 | 144 | 192 |
| | 3L / 3R | 198 | 246 | 217 | 285 |
| | 4 | 262 | 334 | 281 | 374 |
| Tür (3 Bänder) Door (3 hinges) | 1L / 1R | 95 | 106 | 109 | 133 |
| | 2 | 182 | 204 | 211 | 259 |
| | 2L / 2R | 178 | 189 | 192 | 216 |
| | 3L / 3R | 265 | 287 | 294 | 342 |
| | 4 | 348 | 369 | 377 | 424 |

Beschlagpaket CH 2 / Hardware package CH 2

Lieferung: Deutsches Expressband, Reduktionshülsen, Ladenrechen, Riegelanschlag, Scharniere, Schraubkloben, Ladenhalter, Vorreiber mit Streichblech, Ladenhalter Türe, Sperrstange

Basis: Alle Mauerteile in Blank

Exklusiv: Alle Mauerteile beschichtet, inkl. Anschraubplatten für Ladenhalter und Sperrstange

Delivery: German express hinge, reduction sleeves, shutter rods, bolt stop, hinges, screw brackets, shutter holder, sash lock with scraper plate, shutter holder door, lock bar

Basis: All wall parts uncoated

Exclusive: All wall parts coated, incl. screw-on plates for shutter holders and lock bar

| | Anschlagschema Stop diagram | Best. Kloben / Jalousiestange neu, Ladenhalter neu | | Neumontage New installation | |
|---|--------------------------------|--|----------------------|--------------------------------|----------------------|
| | | Exis. brackets / new blind rod, new shutter holders | | | |
| | | Basis / Basis | Exklusiv / Exclusive | Basis / Basis | Exklusiv / Exclusive |
| Fenster (2 Bänder) Window (2 hinges) | 1L / 1R | 61 | 73 | 70 | 92 |
| | 2 | 119 | 144 | 138 | 181 |
| | 2L / 2R | 109 | 170 | 118 | 188 |
| | 3L / 3R | 155 | 227 | 174 | 264 |
| | 4 | 215 | 302 | 234 | 339 |
| Tür (3 Bänder) Door (3 hinges) | 1L / 1R | 82 | 93 | 95 | 121 |
| | 2 | 161 | 184 | 189 | 239 |
| | 2L / 2R | 159 | 244 | 195 | 272 |
| | 3L / 3R | 226 | 322 | 277 | 377 |
| | 4 | 316 | 438 | 367 | 493 |

Beschlagpaket CH 2 Easyflex / Hardware package CH 2 Easyflex

Lieferung: Deutsches Easyflex-Band, Reduktionshülsen, Ladenrechen, Riegelanschlag, Scharniere, Schraubkloben, Ladenhalter, Vorreiber mit Streichblech, Ladenhalter Türe, Sperrstange

Basis: Alle Mauerteile in Blank

Exklusiv: Alle Mauerteile beschichtet, inkl. Anschraubplatten für Ladenhalter und Sperrstange

Delivery: German Easyflex hinge, reduction sleeves, shutter rods, bolt stop, hinges, screw bracket, shutter holder, sash lock with scraper plate, shutter holder door, lock bar

Basis: All wall parts uncoated

Exclusive: All wall parts coated, incl. screw-on plates for shutter holders and lock bar

| | Anschlagschema Stop diagram | Best. Kloben / Jalousiestange neu, Ladenhalter neu | | Neumontage New installation | |
|---|--------------------------------|--|----------------------|--------------------------------|----------------------|
| | | Exis. brackets / new blind rod, new shutter holders | | | |
| | | Basis / Basis | Exklusiv / Exclusive | Basis / Basis | Exklusiv / Exclusive |
| Fenster (2 Bänder) Window (2 hinges) | 1L / 1R | 64 | 77 | 74 | 95 |
| | 2 | 125 | 149 | 144 | 186 |
| | 2L / 2R | 120 | 134 | 130 | 152 |
| | 3L / 3R | 164 | 189 | 183 | 226 |
| | 4 | 228 | 255 | 247 | 292 |
| Tür (3 Bänder) Door (3 hinges) | 1L / 1R | 89 | 100 | 103 | 127 |
| | 2 | 173 | 196 | 202 | 251 |
| | 2L / 2R | 163 | 175 | 177 | 202 |
| | 3L / 3R | 231 | 253 | 259 | 308 |
| | 4 | 314 | 336 | 343 | 391 |

MACO-Beschlagpakete / MACO hardware packages

Anschlagarten 2LA/2RA, 3LA/3RA sowie 4A sind mit Innenöffner nicht möglich! Leibungstiefe 40-100 mm!
Stop types 2LA/2RA, 3LA/3RA and 4A cannot be combined with inside openers! Reveal depth 40-100 mm!

Fensterstockmontage

Alle Pakete bestehend aus: Verstellkloben (Größe 1), MACO-Kreuzband (Größe 1)*, Scharnier*, Verschluss, Frauenkopf Ladenhalter bzw. Türladenhalter mit Träger-schraube, Dübel, Schrauben, T-Leisten*.

Window frame installation

All packages include: Adjustable catch (size 1), MACO cross brace (size 1)*, hinge*, lock, lady head shutter holder or door shutter holder with carrier screw, dowel, screws, T-beads*.

| | Anschlagschema Stop diagram | Leibungstiefe bis 100 mm schwarz | Leibungstiefe bis 100 mm weiß | mit Innenöffner bis 100 mm schwarz | mit Innenöffner bis 100 mm weiß | *Vormon- tage |
|---|--|--|-------------------------------------|--|--|------------------------|
| | | Reveal depth up to 100 mm black | Reveal depth up to 100 mm white | With inside opener up to 100 mm black | With inside opener up to 100 mm white | *Pre-instal- lation |
| Fenster (2 Bänder) Window (2 hinges) | 1L / 1R | 60 | 66 | 116 | 133 | 22 |
| | 2 | 112 | 121 | 232 | 265 | 44 |
| | 2L / 2R | 102 | 114 | 195 | 222 | 40 |
| | 3L / 3R | 154 | 169 | 311 | 354 | 61 |
| | 4 | 196 | 217 | 390 | 443 | 79 |
| | Verstärkung pro Flügel / Reinforcement per sash | - | - | 34 | 34 | - |
| | Kurbel / Crank | - | - | 32 | 32 | - |
| Tür (3 Bänder) Door (3 hinges) | 1L / 1R | 77 | 88 | 134 | 152 | 26 |
| | 2 | 146 | 164 | 267 | 304 | 52 |
| | 2L / 2R | 132 | 151 | 225 | 254 | 45 |
| | 3L / 3R | 201 | 227 | 358 | 406 | 51 |
| | 4 | 257 | 290 | 449 | 508 | 90 |
| | Verstärkung pro Flügel / Reinforcement per sash | - | - | 34 | 34 | - |
| | Kurbel / Crank | - | - | 32 | 32 | - |

| | Anschlagschema Stop diagram | Leibungstiefe bis 210 mm schwarz | Leibungstiefe bis 210 mm weiß | mit Innenöffner bis 210 mm schwarz | mit Innenöffner bis 210 mm weiß | *Vormon- tage |
|---|--|--|-------------------------------------|--|--|------------------------|
| | | Reveal depth up to 210 mm black | Reveal depth up to 210 mm white | With inside opener up to 210 mm black | With inside opener up to 210 mm white | *Pre-instal- lation |
| Fenster (2 Bänder) Window (2 hinges) | 1L / 1R | 72 | 82 | 128 | 148 | 22 |
| | 2 | 135 | 152 | 255 | 296 | 44 |
| | 2L / 2R | 109 | 125 | 207 | 238 | 40 |
| | 3L / 3R | 172 | 195 | 334 | 385 | 61 |
| | 4 | 210 | 238 | 413 | 475 | 79 |
| | Verstärkung pro Flügel / Reinforcement per sash | - | - | 34 | 34 | - |
| | Kurbel / Crank | - | - | 32 | 32 | - |
| Tür (3 Bänder) Door (3 hinges) | 1L / 1R | 94 | 111 | 151 | 176 | 26 |
| | 2 | 180 | 211 | 302 | 351 | 52 |
| | 2L / 2R | 143 | 166 | 242 | 278 | 45 |
| | 3L / 3R | 229 | 266 | 393 | 453 | 51 |
| | 4 | 278 | 321 | 483 | 555 | 90 |
| | Verstärkung pro Flügel / Reinforcement per sash | - | - | 34 | 34 | - |
| | Kurbel / Crank | - | - | 32 | 32 | - |

| | | | | |
|------------|-----------------|----------------------------|------------------------------|-----|
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A

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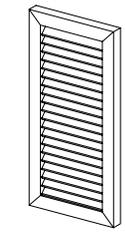
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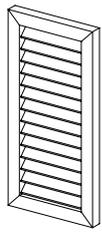
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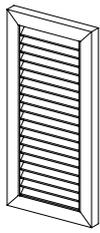
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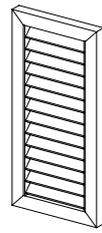
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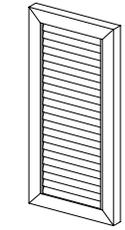
EMS 24



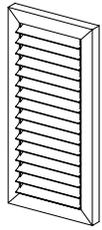
JS 25



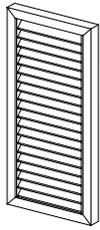
MS 25



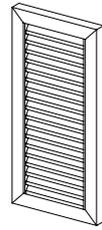
SUN-R75 26



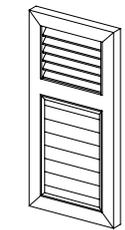
UL 27



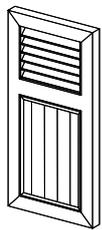
NICE 28



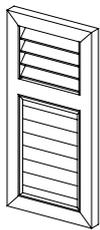
PARIS 29



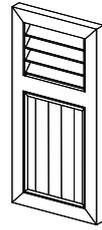
BASEL 30



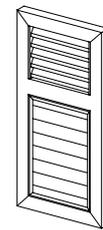
BASEL-SE 30



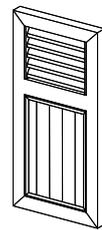
MS-BASEL 30



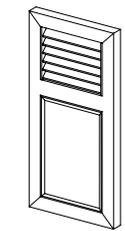
MS-BASEL-SE 30



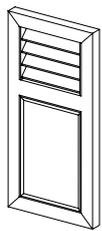
PARIS-GE 30



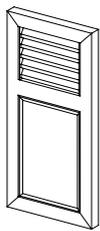
PARIS-GE-SE 30



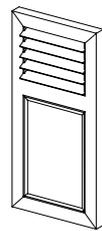
ROM 31



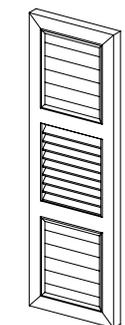
MS-ROM 31



PARIS-SR 32



WIEN 33



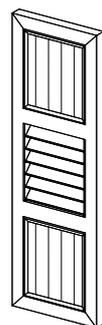
PRAG 34



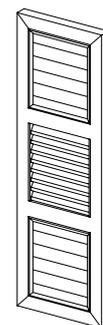
PRAG-SE 34



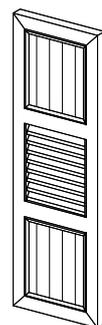
MS-PRAG 34



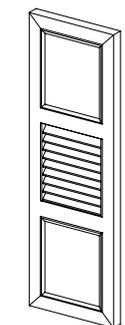
MS-PRAG-SE 34



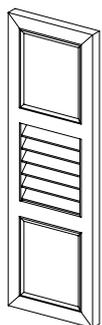
PARIS-PRAG 34



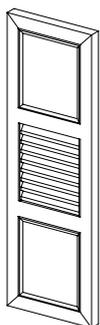
PARIS-PRAG-SE 34



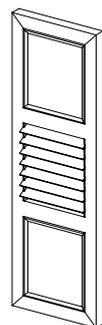
PISA 35



MS-PISA 35

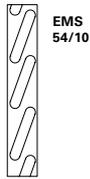
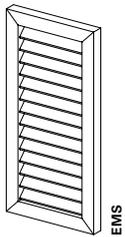
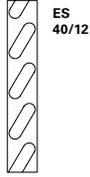
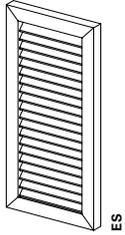


PARIS-PISA 35



LINZ 36

ES EMS

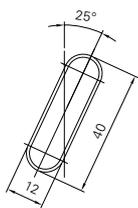


| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 105 | 109 | 113 | 118 | 121 | 127 | 131 | 135 | 138 |
| 900 | 112 | 117 | 121 | 127 | 131 | 135 | 141 | 145 | 149 |
| 1000 | 119 | 125 | 130 | 135 | 139 | 145 | 149 | 155 | 161 |
| 1100 | 127 | 132 | 137 | 143 | 148 | 154 | 160 | 166 | 171 |
| 1200 | 134 | 139 | 145 | 152 | 157 | 164 | 170 | 175 | 182 |
| 1300 | 138 | 145 | 152 | 158 | 166 | 171 | 177 | 184 | 191 |
| 1400 | 144 | 150 | 158 | 166 | 172 | 179 | 185 | 193 | 200 |
| 1500 | 149 | 157 | 164 | 172 | 179 | 186 | 194 | 201 | 209 |
| 1600 | 155 | 163 | 171 | 179 | 186 | 194 | 202 | 210 | 218 |
| 1700 | 162 | 171 | 179 | 186 | 195 | 203 | 212 | 220 | 229 |
| 1800 | 169 | 177 | 186 | 195 | 204 | 213 | 222 | 230 | 239 |
| 1900 | 176 | 185 | 194 | 204 | 213 | 222 | 231 | 241 | 250 |
| 2000 | 183 | 193 | 202 | 212 | 222 | 231 | 241 | 251 | 260 |
| 2100 | 188 | 199 | 209 | 219 | 229 | 239 | 249 | 259 | 269 |
| 2200 | 194 | 204 | 216 | 225 | 237 | 246 | 258 | 268 | 278 |
| 2300 | 234 | 245 | 256 | 267 | 278 | 290 | 301 | 312 | 322 |
| 2400 | 239 | 252 | 263 | 274 | 285 | 297 | 309 | 319 | 332 |
| 2500 | 245 | 257 | 268 | 280 | 293 | 305 | 316 | 329 | 341 |

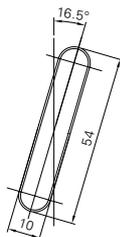
Flügelbreite in mm
Sash width in mm

Preis inkl.
Querriegel
Price incl.
horizontal
cross-panel

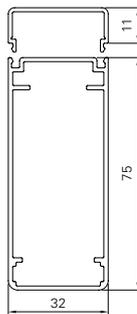
Flügelhöhe in mm
Sash height in mm



ES



EMS

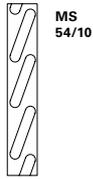
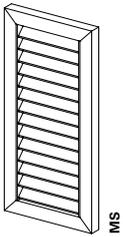
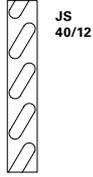
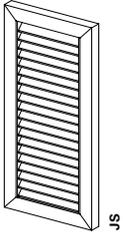


R75

Optionen wie Rundbogen und Stangenschloss nicht möglich.
Options like round arch and rod lock are not possible.

Querriegel 60 mm 1001 34,23 € Horizontal cross-panel

JS
MS



| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 110 | 114 | 119 | 123 | 128 | 132 | 138 | 142 | 146 |
| 900 | 117 | 123 | 128 | 133 | 139 | 143 | 148 | 153 | 158 |
| 1000 | 126 | 132 | 138 | 143 | 148 | 153 | 159 | 166 | 171 |
| 1100 | 134 | 140 | 146 | 152 | 158 | 164 | 171 | 177 | 183 |
| 1200 | 142 | 148 | 155 | 162 | 169 | 176 | 182 | 188 | 196 |
| 1300 | 148 | 155 | 162 | 170 | 177 | 184 | 192 | 199 | 205 |
| 1400 | 153 | 161 | 170 | 178 | 185 | 193 | 201 | 210 | 217 |
| 1500 | 160 | 169 | 177 | 185 | 194 | 202 | 211 | 219 | 228 |
| 1600 | 166 | 176 | 184 | 193 | 201 | 212 | 220 | 229 | 237 |
| 1700 | 175 | 184 | 193 | 202 | 213 | 222 | 231 | 240 | 251 |
| 1800 | 182 | 192 | 202 | 213 | 222 | 233 | 242 | 253 | 262 |
| 1900 | 189 | 200 | 212 | 222 | 233 | 242 | 254 | 265 | 275 |
| 2000 | 198 | 210 | 220 | 232 | 242 | 254 | 266 | 276 | 287 |
| 2100 | 203 | 216 | 228 | 239 | 252 | 262 | 274 | 286 | 298 |
| 2200 | 211 | 222 | 235 | 248 | 259 | 272 | 284 | 296 | 309 |
| 2300 | 252 | 264 | 276 | 290 | 303 | 315 | 329 | 342 | 354 |
| 2400 | 257 | 271 | 285 | 297 | 311 | 325 | 338 | 351 | 365 |
| 2500 | 264 | 277 | 292 | 305 | 319 | 333 | 347 | 361 | 376 |

Flügelbreite in mm
Sash width in mm

Preis inkl.
Querries
Price incl.
horizontal
cross-panel

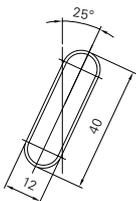
Flügelhöhe in mm
Sash height in mm

| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 144 | 151 | 158 | 166 | 174 | 181 | 188 | 196 | 203 |
| 900 | 156 | 163 | 172 | 181 | 189 | 197 | 205 | 215 | 223 |
| 1000 | 168 | 177 | 186 | 196 | 204 | 215 | 223 | 233 | 241 |
| 1100 | 180 | 189 | 200 | 211 | 221 | 231 | 240 | 252 | 261 |
| 1200 | 192 | 202 | 214 | 225 | 236 | 248 | 259 | 270 | 280 |
| 1300 | 201 | 214 | 225 | 237 | 251 | 262 | 274 | 286 | 298 |
| 1400 | 212 | 224 | 237 | 251 | 264 | 276 | 290 | 303 | 315 |
| 1500 | 222 | 235 | 250 | 264 | 277 | 292 | 306 | 319 | 333 |
| 1600 | 232 | 246 | 261 | 276 | 291 | 306 | 321 | 337 | 350 |
| 1700 | 243 | 259 | 275 | 291 | 307 | 322 | 339 | 355 | 369 |
| 1800 | 256 | 272 | 290 | 306 | 322 | 340 | 356 | 374 | 389 |
| 1900 | 268 | 285 | 303 | 321 | 339 | 356 | 374 | 392 | 409 |
| 2000 | 279 | 298 | 316 | 335 | 354 | 373 | 391 | 409 | 429 |
| 2100 | 290 | 309 | 328 | 348 | 367 | 387 | 406 | 427 | 446 |
| 2200 | 300 | 320 | 341 | 361 | 381 | 401 | 422 | 442 | 464 |
| 2300 | 345 | 366 | 387 | 409 | 430 | 452 | 472 | 494 | 516 |
| 2400 | 355 | 377 | 399 | 421 | 444 | 466 | 489 | 510 | 533 |
| 2500 | 365 | 387 | 412 | 434 | 457 | 481 | 504 | 526 | 550 |

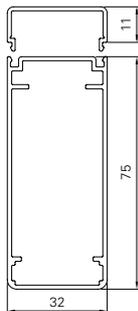
Flügelbreite in mm
Sash width in mm

Preis inkl.
Querries
Price incl.
horizontal
cross-panel

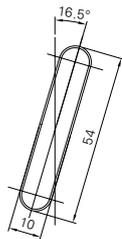
Flügelhöhe in mm
Sash height in mm



JS



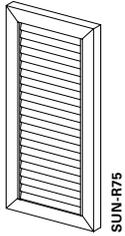
R75



MS

| | | | | |
|---------------------------------|-------|------|--------------|------------------------|
| Querries | 60 mm | 1001 | 34,23 € | Horizontal cross-panel |
| Längsries | 60 mm | 2001 | 65,28 € | Vertical cross-panel |
| Version Easyflex: ohne Aufpreis | | | No surcharge | |

SUN-R75



SUN-R75



SUN L54
54/18



| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 800 | 110 | 114 | 119 | 123 | 128 | 132 | 138 | 142 | 146 | Flügelbreite in mm Sash width in mm |
| 900 | 117 | 123 | 128 | 133 | 139 | 143 | 148 | 153 | 158 | |
| 1000 | 126 | 132 | 138 | 143 | 148 | 153 | 159 | 166 | 171 | |
| 1100 | 134 | 140 | 146 | 152 | 158 | 164 | 171 | 177 | 183 | |
| 1200 | 142 | 148 | 155 | 162 | 169 | 176 | 182 | 188 | 196 | |
| 1300 | 148 | 155 | 162 | 170 | 177 | 184 | 192 | 199 | 205 | |
| 1400 | 153 | 161 | 170 | 178 | 185 | 193 | 201 | 210 | 217 | |
| 1500 | 160 | 169 | 177 | 185 | 194 | 202 | 211 | 219 | 228 | |
| 1600 | 166 | 176 | 184 | 193 | 201 | 212 | 220 | 229 | 237 | |
| 1700 | 175 | 184 | 193 | 202 | 213 | 222 | 231 | 240 | 251 | |
| 1800 | 182 | 192 | 202 | 213 | 222 | 233 | 242 | 253 | 262 | |
| 1900 | 189 | 200 | 212 | 222 | 233 | 242 | 254 | 265 | 275 | |
| 2000 | 198 | 210 | 220 | 232 | 242 | 254 | 266 | 276 | 287 | |
| 2100 | 203 | 216 | 228 | 239 | 252 | 262 | 274 | 286 | 298 | |
| 2200 | 211 | 222 | 235 | 248 | 259 | 272 | 284 | 296 | 309 | |
| 2300 | 252 | 264 | 276 | 290 | 303 | 315 | 329 | 342 | 354 | |
| 2400 | 257 | 271 | 285 | 297 | 311 | 325 | 338 | 351 | 365 | |
| 2500 | 264 | 277 | 292 | 305 | 319 | 333 | 347 | 361 | 376 | |

└ Flügelhöhe in mm
Sash height in mm

└ Flügelbreite in mm
Sash width in mm

└ Preis inkl.
Querfries
Price incl.
horizontal
cross-panel

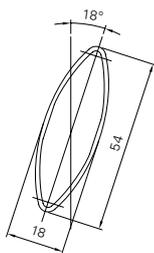


| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 800 | 144 | 151 | 158 | 166 | 174 | 181 | 188 | 196 | 203 | Flügelbreite in mm Sash width in mm |
| 900 | 156 | 163 | 172 | 181 | 189 | 197 | 205 | 215 | 223 | |
| 1000 | 168 | 177 | 186 | 196 | 204 | 215 | 223 | 233 | 241 | |
| 1100 | 180 | 189 | 200 | 211 | 221 | 231 | 240 | 252 | 261 | |
| 1200 | 192 | 202 | 214 | 225 | 236 | 248 | 259 | 270 | 280 | |
| 1300 | 201 | 214 | 225 | 237 | 251 | 262 | 274 | 286 | 298 | |
| 1400 | 212 | 224 | 237 | 251 | 264 | 276 | 290 | 303 | 315 | |
| 1500 | 222 | 235 | 250 | 264 | 277 | 292 | 306 | 319 | 333 | |
| 1600 | 232 | 246 | 261 | 276 | 291 | 306 | 321 | 337 | 350 | |
| 1700 | 243 | 259 | 275 | 291 | 307 | 322 | 339 | 355 | 369 | |
| 1800 | 256 | 272 | 290 | 306 | 322 | 340 | 356 | 374 | 389 | |
| 1900 | 268 | 285 | 303 | 321 | 339 | 356 | 374 | 392 | 409 | |
| 2000 | 279 | 298 | 316 | 335 | 354 | 373 | 391 | 409 | 429 | |
| 2100 | 290 | 309 | 328 | 348 | 367 | 387 | 406 | 427 | 446 | |
| 2200 | 300 | 320 | 341 | 361 | 381 | 401 | 422 | 442 | 464 | |
| 2300 | 345 | 366 | 387 | 409 | 430 | 452 | 472 | 494 | 516 | |
| 2400 | 355 | 377 | 399 | 421 | 444 | 466 | 489 | 510 | 533 | |
| 2500 | 365 | 387 | 412 | 434 | 457 | 481 | 504 | 526 | 550 | |

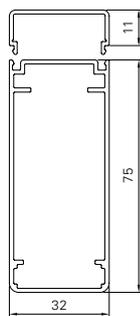
└ Flügelhöhe in mm
Sash height in mm

└ Flügelbreite in mm
Sash width in mm

└ Preis inkl.
Querfries
Price incl.
horizontal
cross-panel



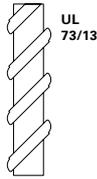
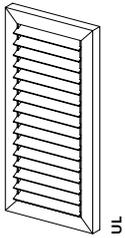
SUN 54



R75

| | | | | |
|---------------------------------|-------|------|--------------|------------------------|
| Querfries | 60 mm | 1001 | 34,23 € | Horizontal cross-panel |
| Längsfries | 60 mm | 2001 | 65,28 € | Vertical cross-panel |
| Version Easyflex: ohne Aufpreis | | | No surcharge | |

UL



| | 280 – 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 152 | 160 | 168 | 175 | 182 | 189 | 197 | 204 | 213 |
| 900 | 163 | 172 | 181 | 189 | 197 | 205 | 215 | 223 | 231 |
| 1000 | 176 | 184 | 194 | 203 | 213 | 222 | 232 | 240 | 251 |
| 1100 | 186 | 197 | 207 | 218 | 228 | 238 | 250 | 259 | 270 |
| 1200 | 198 | 210 | 221 | 232 | 242 | 255 | 266 | 277 | 289 |
| 1300 | 207 | 219 | 232 | 243 | 256 | 268 | 280 | 293 | 305 |
| 1400 | 216 | 229 | 241 | 256 | 269 | 282 | 295 | 308 | 321 |
| 1500 | 224 | 238 | 253 | 267 | 280 | 295 | 310 | 324 | 339 |
| 1600 | 233 | 249 | 264 | 278 | 294 | 309 | 324 | 340 | 355 |
| 1700 | 245 | 261 | 277 | 293 | 309 | 325 | 342 | 358 | 374 |
| 1800 | 256 | 273 | 291 | 307 | 324 | 342 | 359 | 376 | 393 |
| 1900 | 268 | 286 | 304 | 322 | 340 | 358 | 376 | 394 | 412 |
| 2000 | 278 | 298 | 316 | 337 | 355 | 375 | 393 | 413 | 431 |
| 2100 | 289 | 308 | 327 | 348 | 367 | 387 | 408 | 428 | 447 |
| 2200 | 297 | 318 | 339 | 359 | 381 | 401 | 422 | 442 | 464 |
| 2300 | 341 | 362 | 384 | 406 | 428 | 450 | 471 | 493 | 516 |
| 2400 | 349 | 373 | 395 | 418 | 440 | 464 | 486 | 509 | 532 |
| 2500 | 358 | 382 | 406 | 430 | 454 | 476 | 501 | 524 | 548 |

Flügelbreite in mm
Sash width in mm

Preis inkl. Querfries
Price incl. horizontal cross-panel

Flügelhöhe in mm
Sash height in mm

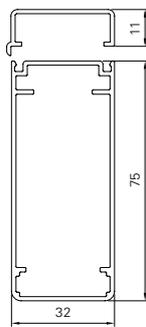
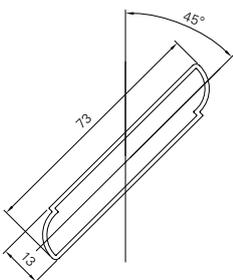


| | 280 – 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 184 | 196 | 207 | 218 | 229 | 240 | 252 | 262 | 273 |
| 900 | 200 | 214 | 225 | 238 | 251 | 264 | 275 | 289 | 301 |
| 1000 | 217 | 230 | 243 | 258 | 272 | 286 | 301 | 314 | 327 |
| 1100 | 232 | 248 | 262 | 278 | 294 | 309 | 324 | 340 | 355 |
| 1200 | 249 | 265 | 282 | 298 | 314 | 332 | 348 | 365 | 382 |
| 1300 | 261 | 279 | 297 | 315 | 334 | 352 | 369 | 388 | 406 |
| 1400 | 274 | 294 | 313 | 333 | 352 | 373 | 392 | 413 | 432 |
| 1500 | 287 | 309 | 330 | 350 | 373 | 393 | 415 | 435 | 456 |
| 1600 | 302 | 323 | 346 | 368 | 391 | 414 | 436 | 458 | 481 |
| 1700 | 316 | 341 | 364 | 388 | 413 | 436 | 460 | 484 | 508 |
| 1800 | 333 | 358 | 383 | 408 | 434 | 459 | 484 | 510 | 536 |
| 1900 | 348 | 376 | 401 | 429 | 455 | 482 | 509 | 536 | 562 |
| 2000 | 364 | 393 | 420 | 448 | 476 | 505 | 532 | 561 | 590 |
| 2100 | 378 | 406 | 436 | 466 | 496 | 525 | 555 | 584 | 613 |
| 2200 | 391 | 422 | 453 | 484 | 514 | 546 | 577 | 608 | 638 |
| 2300 | 438 | 471 | 504 | 537 | 568 | 600 | 633 | 666 | 699 |
| 2400 | 453 | 486 | 520 | 554 | 587 | 621 | 655 | 688 | 722 |
| 2500 | 466 | 501 | 537 | 572 | 606 | 641 | 676 | 712 | 747 |

Flügelbreite in mm
Sash width in mm

Preis inkl. Querfries
Price incl. horizontal cross-panel

Flügelhöhe in mm
Sash height in mm

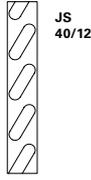
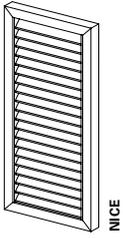


UL

R75

| Aufpreis | Surcharge | | |
|---|--------------|---------------------------------|--|
| Beschichtete UL-Seitenteile, pro Fl. 122415 | 43,41 € | Coated UL side pieces, per sash | |
| Querfries 60 mm | 1001 34,23 € | Horizontal cross-panel | |
| Längsfries 60 mm | 2001 65,28 € | Vertical cross-panel | |
| Version Easyflex: ohne Aufpreis | | No surcharge | |

NICE

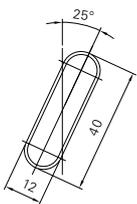


| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 800 | 110 | 114 | 119 | 123 | 128 | 132 | 138 | 142 | 146 | Flügelbreite in mm Sash width in mm |
| 900 | 117 | 123 | 128 | 133 | 139 | 143 | 148 | 153 | 158 | |
| 1000 | 126 | 132 | 138 | 143 | 148 | 153 | 159 | 166 | 171 | |
| 1100 | 134 | 140 | 146 | 152 | 158 | 164 | 171 | 177 | 183 | |
| 1200 | 142 | 148 | 155 | 162 | 169 | 176 | 182 | 188 | 196 | |
| 1300 | 148 | 155 | 162 | 170 | 177 | 184 | 192 | 199 | 205 | |
| 1400 | 153 | 161 | 170 | 178 | 185 | 193 | 201 | 210 | 217 | |
| 1500 | 160 | 169 | 177 | 185 | 194 | 202 | 211 | 219 | 228 | |
| 1600 | 166 | 176 | 184 | 193 | 201 | 212 | 220 | 229 | 237 | |
| 1700 | 175 | 184 | 193 | 202 | 213 | 222 | 231 | 240 | 251 | |
| 1800 | 182 | 192 | 202 | 213 | 222 | 233 | 242 | 253 | 262 | |
| 1900 | 189 | 200 | 212 | 222 | 233 | 242 | 254 | 265 | 275 | |
| 2000 | 233 | 245 | 255 | 267 | 277 | 289 | 301 | 311 | 322 | |
| 2100 | 238 | 251 | 263 | 274 | 287 | 297 | 309 | 321 | 333 | |
| 2200 | 246 | 257 | 270 | 283 | 294 | 307 | 319 | 331 | 344 | |
| 2300 | 252 | 264 | 276 | 290 | 303 | 315 | 329 | 342 | 354 | |
| 2400 | 257 | 271 | 285 | 297 | 311 | 325 | 338 | 351 | 365 | |
| 2500 | 264 | 277 | 292 | 305 | 319 | 333 | 347 | 361 | 376 | |

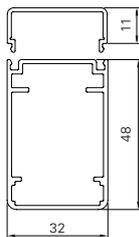
└ Flügelhöhe in mm
Sash height in mm

| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 800 | 144 | 151 | 158 | 166 | 174 | 181 | 188 | 196 | 203 | Flügelbreite in mm Sash width in mm |
| 900 | 156 | 163 | 172 | 181 | 189 | 197 | 205 | 215 | 223 | |
| 1000 | 168 | 177 | 186 | 196 | 204 | 215 | 223 | 233 | 241 | |
| 1100 | 180 | 189 | 200 | 211 | 221 | 231 | 240 | 252 | 261 | |
| 1200 | 192 | 202 | 214 | 225 | 236 | 248 | 259 | 270 | 280 | |
| 1300 | 201 | 214 | 225 | 237 | 251 | 262 | 274 | 286 | 298 | |
| 1400 | 212 | 224 | 237 | 251 | 264 | 276 | 290 | 303 | 315 | |
| 1500 | 222 | 235 | 250 | 264 | 277 | 292 | 306 | 319 | 333 | |
| 1600 | 232 | 246 | 261 | 276 | 291 | 306 | 321 | 337 | 350 | |
| 1700 | 243 | 259 | 275 | 291 | 307 | 322 | 339 | 355 | 369 | |
| 1800 | 256 | 272 | 290 | 306 | 322 | 340 | 356 | 374 | 389 | |
| 1900 | 268 | 285 | 303 | 321 | 339 | 356 | 374 | 392 | 409 | |
| 2000 | 314 | 333 | 351 | 370 | 389 | 408 | 426 | 444 | 464 | |
| 2100 | 325 | 344 | 363 | 383 | 402 | 422 | 441 | 462 | 481 | |
| 2200 | 335 | 355 | 376 | 396 | 416 | 436 | 457 | 477 | 499 | |
| 2300 | 345 | 366 | 387 | 409 | 430 | 452 | 472 | 494 | 516 | |
| 2400 | 355 | 377 | 399 | 421 | 444 | 466 | 489 | 510 | 533 | |
| 2500 | 365 | 387 | 412 | 434 | 457 | 481 | 504 | 526 | 550 | |

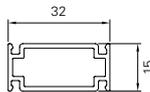
└ Flügelhöhe in mm
Sash height in mm



JS



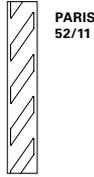
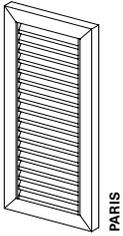
R48



L15

| | | | | |
|------------|-------|------|---------|------------------------|
| Querfries | 60 mm | 1001 | 34,23 € | Horizontal cross-panel |
| Längsfries | 60 mm | 2001 | 65,28 € | Vertical cross-panel |

PARIS



| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 126 | 131 | 137 | 142 | 147 | 152 | 158 | 163 | 169 |
| 900 | 134 | 141 | 147 | 152 | 159 | 164 | 171 | 177 | 183 |
| 1000 | 144 | 150 | 157 | 163 | 170 | 177 | 184 | 191 | 197 |
| 1100 | 152 | 160 | 168 | 175 | 182 | 189 | 196 | 203 | 212 |
| 1200 | 161 | 170 | 178 | 185 | 194 | 201 | 210 | 218 | 225 |
| 1300 | 169 | 178 | 185 | 194 | 202 | 212 | 220 | 229 | 237 |
| 1400 | 176 | 184 | 194 | 202 | 213 | 221 | 231 | 239 | 250 |
| 1500 | 182 | 192 | 201 | 212 | 222 | 232 | 241 | 252 | 261 |
| 1600 | 188 | 199 | 211 | 220 | 231 | 241 | 253 | 262 | 273 |
| 1700 | 198 | 210 | 220 | 232 | 242 | 254 | 265 | 276 | 287 |
| 1800 | 207 | 219 | 231 | 242 | 255 | 266 | 277 | 290 | 302 |
| 1900 | 216 | 229 | 240 | 254 | 266 | 278 | 291 | 304 | 315 |
| 2000 | 225 | 238 | 252 | 265 | 277 | 291 | 304 | 316 | 330 |
| 2100 | 232 | 245 | 259 | 273 | 287 | 301 | 314 | 328 | 342 |
| 2200 | 238 | 253 | 268 | 282 | 296 | 310 | 325 | 340 | 354 |
| 2300 | 280 | 295 | 310 | 326 | 341 | 356 | 370 | 385 | 400 |
| 2400 | 288 | 303 | 318 | 335 | 349 | 366 | 381 | 397 | 413 |
| 2500 | 294 | 310 | 327 | 343 | 359 | 376 | 392 | 409 | 424 |

└ Flügelhöhe in mm
Sash height in mm

└ Flügelbreite in mm
Sash width in mm

└ Preis inkl. Querries
Price incl. horizontal cross-panel

C

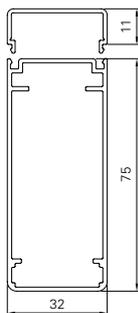
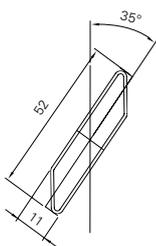


| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 159 | 168 | 177 | 184 | 193 | 201 | 211 | 219 | 228 |
| 900 | 172 | 182 | 192 | 200 | 211 | 220 | 229 | 238 | 249 |
| 1000 | 185 | 196 | 205 | 217 | 228 | 237 | 249 | 259 | 269 |
| 1100 | 198 | 211 | 221 | 233 | 243 | 256 | 267 | 278 | 290 |
| 1200 | 212 | 224 | 236 | 250 | 261 | 274 | 286 | 298 | 311 |
| 1300 | 222 | 236 | 250 | 262 | 276 | 290 | 303 | 316 | 330 |
| 1400 | 233 | 248 | 262 | 276 | 291 | 305 | 320 | 334 | 348 |
| 1500 | 243 | 259 | 274 | 291 | 306 | 321 | 337 | 351 | 366 |
| 1600 | 255 | 271 | 287 | 304 | 320 | 337 | 352 | 368 | 385 |
| 1700 | 268 | 285 | 303 | 320 | 338 | 355 | 373 | 389 | 406 |
| 1800 | 280 | 300 | 318 | 337 | 355 | 373 | 391 | 409 | 428 |
| 1900 | 294 | 313 | 333 | 352 | 371 | 391 | 410 | 430 | 448 |
| 2000 | 307 | 327 | 348 | 367 | 388 | 409 | 429 | 449 | 470 |
| 2100 | 318 | 340 | 360 | 382 | 403 | 424 | 446 | 467 | 488 |
| 2200 | 328 | 351 | 374 | 396 | 418 | 440 | 463 | 484 | 507 |
| 2300 | 375 | 398 | 421 | 444 | 468 | 491 | 513 | 538 | 560 |
| 2400 | 385 | 410 | 434 | 458 | 482 | 506 | 531 | 555 | 579 |
| 2500 | 396 | 421 | 447 | 472 | 498 | 522 | 547 | 573 | 597 |

└ Flügelhöhe in mm
Sash height in mm

└ Flügelbreite in mm
Sash width in mm

└ Preis inkl. Querries
Price incl. horizontal cross-panel

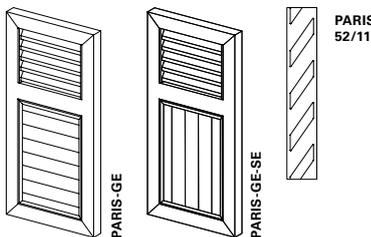
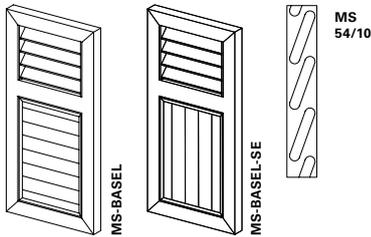
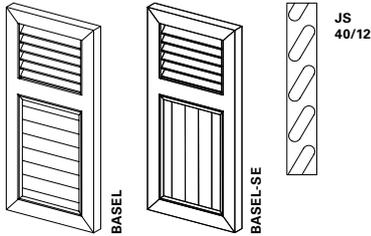


PARIS

R75

| | | | | |
|---------------------------------|-------|------|--------------|------------------------|
| Querries | 60 mm | 1001 | 34,23€ | Horizontal cross-panel |
| Längsries | 60 mm | 2001 | 65,28€ | Vertical cross-panel |
| Version Easyflex: ohne Aufpreis | | | No surcharge | |

BASEL(-SE) MS-BASEL(-SE) PARIS-GE(-SE)



| | 280 – 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 165 | 170 | 177 | 182 | 188 | 194 | 200 | 205 | 211 |
| 900 | 174 | 181 | 188 | 195 | 201 | 206 | 214 | 220 | 226 |
| 1000 | 185 | 192 | 199 | 205 | 214 | 220 | 227 | 234 | 242 |
| 1100 | 195 | 202 | 210 | 218 | 225 | 233 | 241 | 249 | 256 |
| 1200 | 204 | 214 | 221 | 229 | 239 | 246 | 255 | 263 | 272 |
| 1300 | 211 | 221 | 229 | 239 | 247 | 256 | 265 | 274 | 282 |
| 1400 | 219 | 227 | 238 | 247 | 256 | 266 | 276 | 284 | 295 |
| 1500 | 225 | 236 | 245 | 255 | 266 | 276 | 286 | 296 | 307 |
| 1600 | 232 | 242 | 253 | 264 | 275 | 286 | 297 | 307 | 318 |
| 1700 | 242 | 253 | 265 | 276 | 288 | 299 | 310 | 321 | 333 |
| 1800 | 252 | 264 | 276 | 289 | 300 | 312 | 324 | 335 | 348 |
| 1900 | 262 | 274 | 288 | 299 | 312 | 325 | 337 | 350 | 363 |
| 2000 | 272 | 284 | 298 | 311 | 325 | 337 | 351 | 366 | 379 |
| 2100 | 278 | 293 | 306 | 320 | 334 | 348 | 362 | 376 | 389 |
| 2200 | 284 | 299 | 315 | 329 | 344 | 357 | 372 | 387 | 402 |
| 2300 | 292 | 307 | 323 | 337 | 352 | 368 | 383 | 399 | 412 |
| 2400 | 298 | 315 | 330 | 346 | 362 | 378 | 393 | 409 | 425 |
| 2500 | 305 | 321 | 337 | 354 | 371 | 387 | 404 | 421 | 437 |

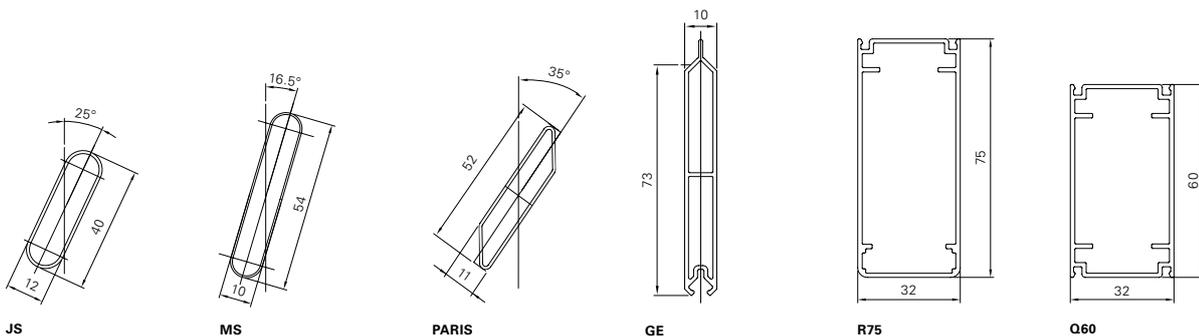
└ Flügelhöhe in mm
Sash height in mm

└ Flügelbreite in mm
Sash width in mm

| | 280 – 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 197 | 205 | 216 | 224 | 233 | 242 | 251 | 260 | 270 |
| 900 | 211 | 221 | 231 | 241 | 251 | 260 | 271 | 280 | 291 |
| 1000 | 224 | 236 | 246 | 257 | 269 | 279 | 291 | 301 | 312 |
| 1100 | 239 | 251 | 262 | 274 | 286 | 298 | 309 | 321 | 333 |
| 1200 | 252 | 265 | 278 | 291 | 304 | 316 | 329 | 343 | 354 |
| 1300 | 263 | 276 | 291 | 304 | 318 | 331 | 346 | 359 | 372 |
| 1400 | 273 | 289 | 302 | 317 | 332 | 347 | 361 | 375 | 390 |
| 1500 | 283 | 299 | 315 | 330 | 347 | 362 | 378 | 393 | 408 |
| 1600 | 295 | 311 | 327 | 344 | 360 | 376 | 393 | 409 | 426 |
| 1700 | 308 | 326 | 344 | 361 | 378 | 395 | 412 | 430 | 448 |
| 1800 | 323 | 340 | 359 | 378 | 395 | 414 | 433 | 450 | 470 |
| 1900 | 335 | 355 | 374 | 394 | 412 | 433 | 452 | 472 | 490 |
| 2000 | 350 | 370 | 389 | 410 | 430 | 452 | 472 | 491 | 512 |
| 2100 | 360 | 381 | 403 | 424 | 445 | 465 | 488 | 509 | 530 |
| 2200 | 371 | 393 | 415 | 437 | 459 | 481 | 503 | 526 | 548 |
| 2300 | 381 | 404 | 427 | 450 | 474 | 497 | 519 | 543 | 566 |
| 2400 | 392 | 416 | 439 | 463 | 488 | 512 | 535 | 559 | 584 |
| 2500 | 402 | 427 | 453 | 477 | 502 | 527 | 552 | 577 | 602 |

└ Flügelhöhe in mm
Sash height in mm

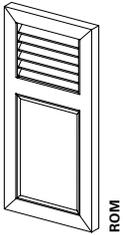
└ Flügelbreite in mm
Sash width in mm



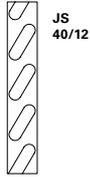
Version Easyflex: ohne Aufpreis

No surcharge

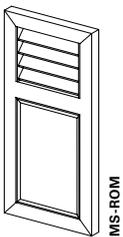
ROM MS-ROM



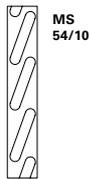
ROM



JS
40/12



MS-ROM



MS
54/10



| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 153 | 159 | 164 | 170 | 176 | 180 | 185 | 191 | 196 |
| 900 | 163 | 169 | 175 | 181 | 186 | 192 | 198 | 203 | 210 |
| 1000 | 172 | 179 | 185 | 192 | 197 | 203 | 211 | 217 | 222 |
| 1100 | 182 | 188 | 195 | 201 | 210 | 216 | 222 | 229 | 236 |
| 1200 | 191 | 198 | 205 | 213 | 220 | 228 | 234 | 241 | 250 |
| 1300 | 197 | 204 | 213 | 220 | 229 | 236 | 243 | 252 | 259 |
| 1400 | 203 | 212 | 220 | 229 | 236 | 245 | 253 | 261 | 270 |
| 1500 | 210 | 218 | 228 | 236 | 245 | 254 | 262 | 271 | 279 |
| 1600 | 216 | 225 | 234 | 243 | 253 | 262 | 271 | 280 | 290 |
| 1700 | 225 | 235 | 245 | 255 | 265 | 274 | 284 | 294 | 304 |
| 1800 | 234 | 245 | 255 | 265 | 275 | 285 | 296 | 306 | 316 |
| 1900 | 243 | 255 | 265 | 275 | 286 | 297 | 308 | 319 | 330 |
| 2000 | 253 | 265 | 275 | 286 | 298 | 309 | 320 | 332 | 343 |
| 2100 | 259 | 271 | 283 | 294 | 306 | 318 | 330 | 342 | 354 |
| 2200 | 265 | 277 | 290 | 302 | 314 | 326 | 339 | 351 | 363 |
| 2300 | 271 | 284 | 297 | 309 | 322 | 335 | 348 | 361 | 374 |
| 2400 | 277 | 291 | 304 | 318 | 331 | 344 | 357 | 371 | 384 |
| 2500 | 283 | 297 | 311 | 325 | 339 | 352 | 366 | 380 | 394 |

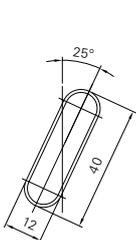
Flügelbreite in mm
Sash width in mm

Flügelhöhe in mm
Sash height in mm

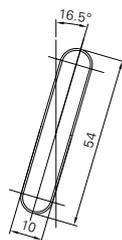
| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 184 | 193 | 200 | 210 | 217 | 225 | 234 | 241 | 251 |
| 900 | 197 | 205 | 215 | 224 | 233 | 241 | 252 | 260 | 269 |
| 1000 | 210 | 220 | 230 | 239 | 250 | 259 | 269 | 278 | 289 |
| 1100 | 222 | 233 | 243 | 255 | 265 | 275 | 286 | 297 | 307 |
| 1200 | 235 | 246 | 258 | 269 | 280 | 292 | 304 | 314 | 326 |
| 1300 | 245 | 257 | 269 | 282 | 294 | 306 | 318 | 330 | 343 |
| 1400 | 255 | 268 | 280 | 294 | 307 | 319 | 332 | 345 | 358 |
| 1500 | 265 | 277 | 292 | 306 | 319 | 333 | 347 | 360 | 375 |
| 1600 | 274 | 289 | 303 | 318 | 332 | 347 | 361 | 376 | 391 |
| 1700 | 286 | 303 | 318 | 333 | 348 | 363 | 379 | 394 | 409 |
| 1800 | 300 | 315 | 332 | 348 | 363 | 380 | 396 | 413 | 429 |
| 1900 | 312 | 328 | 346 | 363 | 380 | 397 | 414 | 431 | 447 |
| 2000 | 325 | 343 | 360 | 378 | 396 | 414 | 431 | 449 | 467 |
| 2100 | 335 | 354 | 373 | 391 | 409 | 428 | 446 | 464 | 482 |
| 2200 | 345 | 363 | 383 | 402 | 421 | 440 | 460 | 478 | 498 |
| 2300 | 354 | 375 | 394 | 415 | 434 | 455 | 474 | 494 | 514 |
| 2400 | 363 | 385 | 405 | 427 | 447 | 468 | 488 | 509 | 530 |
| 2500 | 374 | 395 | 417 | 438 | 460 | 482 | 503 | 524 | 546 |

Flügelbreite in mm
Sash width in mm

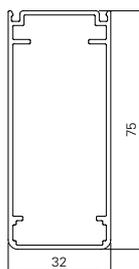
Flügelhöhe in mm
Sash height in mm



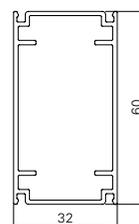
JS



MS



R75

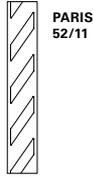
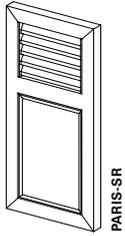


O60

Version Easyflex: ohne Aufpreis

No surcharge

PARIS-SR



| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 158 | 163 | 170 | 176 | 181 | 186 | 193 | 198 | 203 |
| 900 | 168 | 175 | 180 | 186 | 193 | 199 | 204 | 212 | 218 |
| 1000 | 178 | 184 | 191 | 198 | 204 | 212 | 218 | 224 | 232 |
| 1100 | 187 | 194 | 201 | 210 | 217 | 223 | 231 | 238 | 246 |
| 1200 | 197 | 204 | 213 | 220 | 228 | 236 | 243 | 252 | 259 |
| 1300 | 203 | 212 | 220 | 229 | 236 | 245 | 254 | 262 | 270 |
| 1400 | 210 | 219 | 228 | 236 | 245 | 255 | 264 | 272 | 280 |
| 1500 | 216 | 225 | 235 | 245 | 254 | 264 | 273 | 282 | 292 |
| 1600 | 222 | 233 | 242 | 253 | 262 | 272 | 283 | 293 | 303 |
| 1700 | 232 | 242 | 254 | 264 | 274 | 285 | 296 | 306 | 316 |
| 1800 | 241 | 253 | 265 | 275 | 286 | 297 | 308 | 320 | 331 |
| 1900 | 252 | 264 | 274 | 286 | 298 | 310 | 321 | 333 | 345 |
| 2000 | 261 | 273 | 285 | 297 | 310 | 322 | 334 | 346 | 358 |
| 2100 | 268 | 280 | 293 | 306 | 319 | 331 | 344 | 357 | 368 |
| 2200 | 274 | 287 | 301 | 313 | 327 | 341 | 354 | 366 | 380 |
| 2300 | 280 | 294 | 308 | 322 | 337 | 349 | 363 | 378 | 391 |
| 2400 | 287 | 302 | 315 | 330 | 344 | 359 | 374 | 387 | 401 |
| 2500 | 294 | 308 | 323 | 339 | 352 | 367 | 383 | 397 | 413 |

Flügelbreite in mm
Sash width in mm

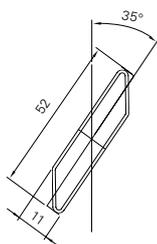
Flügelhöhe in mm
Sash height in mm



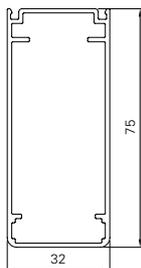
| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 186 | 195 | 203 | 213 | 221 | 230 | 238 | 248 | 256 |
| 900 | 199 | 210 | 219 | 229 | 237 | 248 | 257 | 267 | 276 |
| 1000 | 213 | 223 | 234 | 243 | 255 | 266 | 275 | 286 | 297 |
| 1100 | 225 | 237 | 249 | 260 | 271 | 283 | 295 | 306 | 318 |
| 1200 | 238 | 252 | 264 | 275 | 289 | 301 | 313 | 325 | 339 |
| 1300 | 249 | 262 | 275 | 289 | 302 | 315 | 328 | 342 | 356 |
| 1400 | 258 | 273 | 287 | 302 | 315 | 330 | 345 | 359 | 374 |
| 1500 | 268 | 284 | 300 | 314 | 330 | 345 | 360 | 376 | 391 |
| 1600 | 278 | 295 | 310 | 326 | 343 | 359 | 376 | 392 | 408 |
| 1700 | 292 | 308 | 325 | 343 | 360 | 378 | 395 | 412 | 429 |
| 1800 | 305 | 322 | 341 | 359 | 377 | 395 | 414 | 431 | 449 |
| 1900 | 318 | 337 | 356 | 375 | 394 | 413 | 432 | 451 | 470 |
| 2000 | 330 | 350 | 369 | 391 | 410 | 431 | 450 | 471 | 490 |
| 2100 | 341 | 361 | 382 | 403 | 424 | 445 | 467 | 487 | 508 |
| 2200 | 350 | 373 | 394 | 416 | 438 | 460 | 482 | 504 | 525 |
| 2300 | 360 | 383 | 405 | 429 | 451 | 474 | 497 | 520 | 544 |
| 2400 | 369 | 394 | 418 | 441 | 466 | 489 | 513 | 538 | 561 |
| 2500 | 380 | 404 | 430 | 455 | 478 | 504 | 528 | 554 | 579 |

Flügelbreite in mm
Sash width in mm

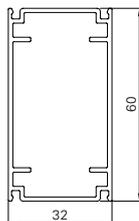
Flügelhöhe in mm
Sash height in mm



PARIS



R75

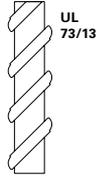
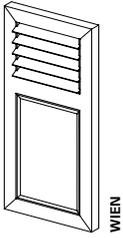


Q60

Version Easyflex: ohne Aufpreis

No surcharge

WIEN



| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 177 | 183 | 189 | 197 | 203 | 211 | 217 | 223 | 231 |
| 900 | 187 | 195 | 202 | 211 | 218 | 225 | 232 | 239 | 248 |
| 1000 | 199 | 207 | 216 | 223 | 232 | 239 | 249 | 256 | 265 |
| 1100 | 211 | 219 | 228 | 236 | 245 | 255 | 264 | 272 | 280 |
| 1200 | 221 | 231 | 240 | 250 | 259 | 269 | 278 | 289 | 297 |
| 1300 | 229 | 239 | 250 | 259 | 270 | 279 | 291 | 301 | 311 |
| 1400 | 236 | 248 | 258 | 269 | 280 | 292 | 303 | 313 | 324 |
| 1500 | 243 | 256 | 268 | 278 | 291 | 303 | 314 | 325 | 338 |
| 1600 | 252 | 265 | 276 | 289 | 302 | 313 | 326 | 339 | 350 |
| 1700 | 264 | 276 | 290 | 303 | 315 | 328 | 342 | 355 | 367 |
| 1800 | 274 | 287 | 302 | 315 | 330 | 343 | 357 | 371 | 384 |
| 1900 | 285 | 300 | 314 | 328 | 343 | 358 | 373 | 387 | 401 |
| 2000 | 296 | 311 | 326 | 342 | 357 | 373 | 387 | 402 | 418 |
| 2100 | 304 | 320 | 337 | 351 | 367 | 384 | 399 | 416 | 432 |
| 2200 | 311 | 328 | 345 | 361 | 379 | 395 | 412 | 429 | 445 |
| 2300 | 319 | 337 | 354 | 371 | 388 | 405 | 423 | 440 | 458 |
| 2400 | 326 | 345 | 363 | 381 | 399 | 418 | 435 | 454 | 471 |
| 2500 | 334 | 354 | 373 | 391 | 410 | 429 | 447 | 466 | 485 |

Flügelbreite in mm
Sash width in mm

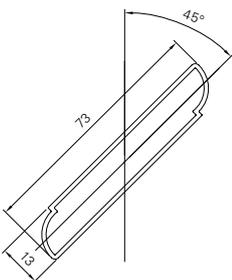
Flügelhöhe in mm
Sash height in mm



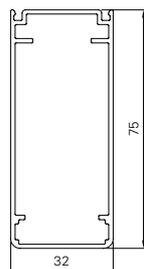
| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 207 | 217 | 228 | 237 | 248 | 258 | 268 | 277 | 289 |
| 900 | 222 | 233 | 243 | 256 | 267 | 277 | 290 | 301 | 312 |
| 1000 | 237 | 250 | 261 | 274 | 286 | 298 | 311 | 323 | 335 |
| 1100 | 252 | 266 | 278 | 292 | 306 | 319 | 333 | 346 | 359 |
| 1200 | 267 | 282 | 296 | 310 | 325 | 340 | 355 | 368 | 383 |
| 1300 | 278 | 294 | 310 | 325 | 341 | 357 | 373 | 388 | 403 |
| 1400 | 290 | 307 | 323 | 341 | 357 | 375 | 391 | 408 | 424 |
| 1500 | 302 | 319 | 338 | 355 | 374 | 391 | 409 | 427 | 445 |
| 1600 | 313 | 332 | 351 | 369 | 389 | 408 | 428 | 446 | 466 |
| 1700 | 327 | 348 | 367 | 388 | 409 | 429 | 449 | 469 | 489 |
| 1800 | 343 | 364 | 385 | 406 | 428 | 449 | 471 | 491 | 513 |
| 1900 | 358 | 380 | 402 | 425 | 447 | 470 | 491 | 514 | 538 |
| 2000 | 374 | 396 | 420 | 443 | 467 | 490 | 513 | 538 | 561 |
| 2100 | 384 | 409 | 434 | 458 | 483 | 507 | 531 | 557 | 581 |
| 2200 | 396 | 422 | 447 | 473 | 500 | 524 | 550 | 577 | 601 |
| 2300 | 406 | 434 | 461 | 488 | 514 | 542 | 568 | 595 | 622 |
| 2400 | 419 | 447 | 475 | 503 | 530 | 559 | 586 | 614 | 642 |
| 2500 | 431 | 459 | 488 | 518 | 547 | 576 | 604 | 634 | 664 |

Flügelbreite in mm
Sash width in mm

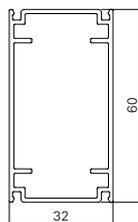
Flügelhöhe in mm
Sash height in mm



UL



R75

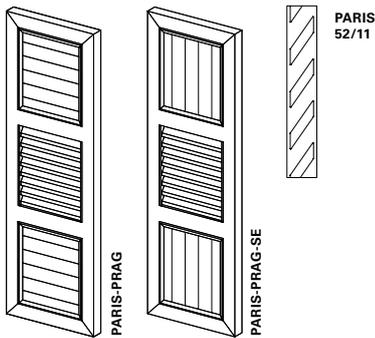
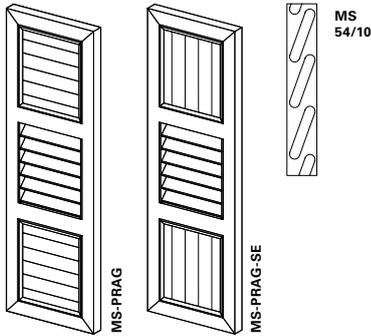
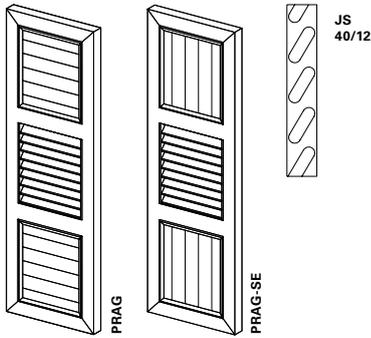


Q60

Version Easyflex: ohne Aufpreis

No surcharge

PRAG(-SE) MS-PRAG(-SE) PARIS-PRAG(-SE)



| | 280 – 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 208 | 216 | 223 | 229 | 237 | 244 | 251 | 258 | 264 |
| 900 | 220 | 227 | 236 | 243 | 251 | 258 | 265 | 273 | 281 |
| 1000 | 230 | 239 | 247 | 256 | 264 | 272 | 281 | 289 | 298 |
| 1100 | 242 | 251 | 260 | 268 | 278 | 286 | 297 | 305 | 314 |
| 1200 | 254 | 263 | 272 | 282 | 292 | 301 | 311 | 321 | 330 |
| 1300 | 260 | 270 | 280 | 291 | 301 | 311 | 322 | 332 | 342 |
| 1400 | 266 | 277 | 287 | 299 | 310 | 321 | 332 | 343 | 354 |
| 1500 | 272 | 284 | 296 | 308 | 319 | 331 | 342 | 354 | 366 |
| 1600 | 279 | 291 | 303 | 317 | 329 | 341 | 353 | 366 | 377 |
| 1700 | 290 | 303 | 317 | 329 | 342 | 355 | 368 | 382 | 394 |
| 1800 | 301 | 314 | 329 | 342 | 355 | 370 | 384 | 396 | 411 |
| 1900 | 312 | 327 | 341 | 355 | 370 | 385 | 398 | 413 | 427 |
| 2000 | 323 | 339 | 353 | 369 | 384 | 398 | 413 | 429 | 444 |
| 2100 | 330 | 346 | 361 | 376 | 392 | 409 | 425 | 440 | 456 |
| 2200 | 336 | 352 | 369 | 386 | 403 | 418 | 434 | 451 | 468 |
| 2300 | 343 | 360 | 376 | 394 | 411 | 428 | 446 | 462 | 479 |
| 2400 | 349 | 367 | 385 | 403 | 420 | 438 | 456 | 474 | 491 |
| 2500 | 355 | 374 | 392 | 411 | 429 | 448 | 466 | 485 | 503 |

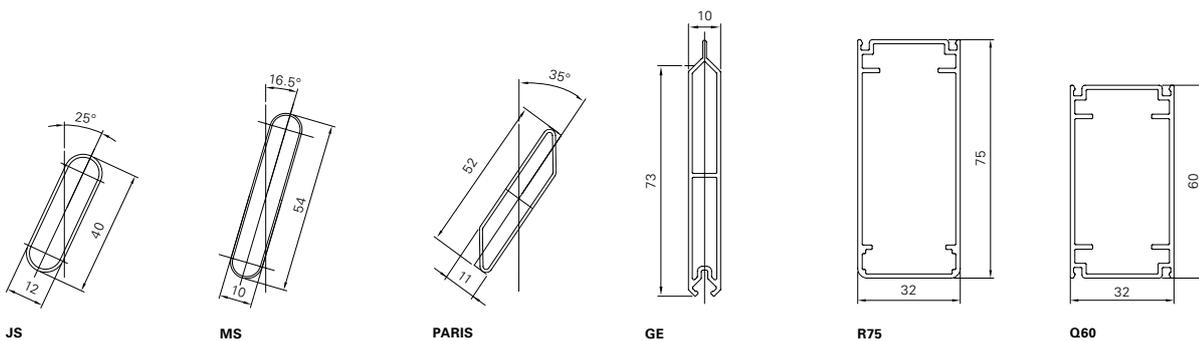
Flügelhöhe in mm
Sash height in mm

Flügelbreite in mm
Sash width in mm

| | 280 – 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 248 | 260 | 271 | 281 | 292 | 303 | 314 | 326 | 336 |
| 900 | 263 | 276 | 287 | 300 | 312 | 323 | 335 | 348 | 360 |
| 1000 | 279 | 291 | 304 | 318 | 331 | 345 | 356 | 370 | 384 |
| 1100 | 293 | 308 | 322 | 335 | 350 | 365 | 378 | 393 | 407 |
| 1200 | 308 | 323 | 339 | 354 | 370 | 385 | 401 | 415 | 431 |
| 1300 | 319 | 334 | 351 | 368 | 385 | 401 | 416 | 433 | 450 |
| 1400 | 329 | 347 | 364 | 382 | 398 | 415 | 433 | 451 | 469 |
| 1500 | 339 | 357 | 375 | 394 | 413 | 432 | 450 | 469 | 488 |
| 1600 | 349 | 369 | 389 | 408 | 428 | 448 | 467 | 487 | 507 |
| 1700 | 365 | 385 | 406 | 427 | 447 | 468 | 489 | 509 | 531 |
| 1800 | 378 | 402 | 423 | 445 | 467 | 488 | 510 | 533 | 554 |
| 1900 | 393 | 416 | 440 | 462 | 486 | 509 | 532 | 555 | 577 |
| 2000 | 409 | 432 | 457 | 481 | 504 | 530 | 553 | 577 | 601 |
| 2100 | 419 | 445 | 469 | 495 | 519 | 544 | 570 | 595 | 620 |
| 2200 | 429 | 456 | 481 | 508 | 534 | 560 | 587 | 613 | 639 |
| 2300 | 439 | 467 | 494 | 521 | 550 | 576 | 604 | 630 | 658 |
| 2400 | 450 | 478 | 507 | 535 | 563 | 592 | 620 | 648 | 677 |
| 2500 | 460 | 489 | 519 | 549 | 578 | 607 | 637 | 666 | 697 |

Flügelhöhe in mm
Sash height in mm

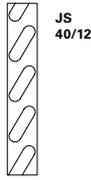
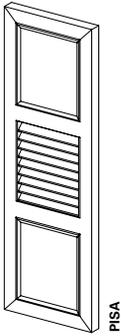
Flügelbreite in mm
Sash width in mm



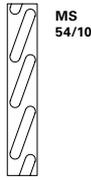
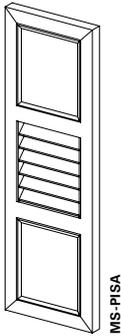
Version Easyflex: ohne Aufpreis

No surcharge

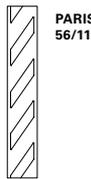
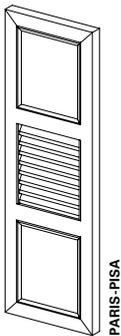
PISA MS-PISA PARIS-PISA



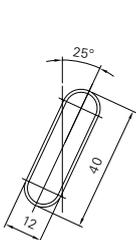
JS
40/12



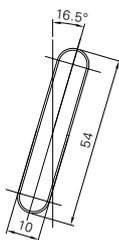
MS
54/10



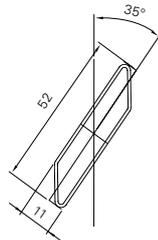
PARIS
56/11



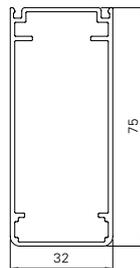
JS



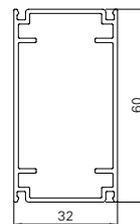
MS



PARIS



R75



Q60

| | 280–400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 195 | 201 | 207 | 213 | 218 | 223 | 230 | 235 | 240 |
| 900 | 205 | 213 | 219 | 224 | 231 | 237 | 243 | 251 | 257 |
| 1000 | 216 | 223 | 230 | 237 | 243 | 252 | 259 | 266 | 273 |
| 1100 | 226 | 234 | 241 | 250 | 258 | 266 | 273 | 280 | 289 |
| 1200 | 236 | 245 | 254 | 262 | 271 | 279 | 289 | 296 | 305 |
| 1300 | 242 | 252 | 261 | 270 | 279 | 289 | 298 | 307 | 316 |
| 1400 | 249 | 258 | 268 | 278 | 289 | 298 | 308 | 319 | 328 |
| 1500 | 254 | 265 | 275 | 286 | 297 | 308 | 319 | 330 | 341 |
| 1600 | 260 | 271 | 283 | 294 | 306 | 318 | 328 | 341 | 351 |
| 1700 | 270 | 282 | 295 | 307 | 319 | 331 | 344 | 356 | 367 |
| 1800 | 280 | 294 | 306 | 319 | 332 | 345 | 358 | 371 | 384 |
| 1900 | 291 | 305 | 318 | 332 | 345 | 359 | 374 | 386 | 400 |
| 2000 | 302 | 315 | 330 | 344 | 359 | 374 | 387 | 401 | 417 |
| 2100 | 307 | 322 | 338 | 352 | 367 | 383 | 397 | 413 | 428 |
| 2200 | 312 | 328 | 344 | 360 | 377 | 392 | 408 | 423 | 439 |
| 2300 | 319 | 335 | 351 | 367 | 385 | 401 | 418 | 435 | 451 |
| 2400 | 324 | 342 | 359 | 377 | 394 | 412 | 429 | 446 | 464 |
| 2500 | 330 | 348 | 366 | 384 | 402 | 420 | 438 | 457 | 474 |

Flügelhöhe in mm
Sash height in mm

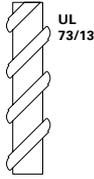
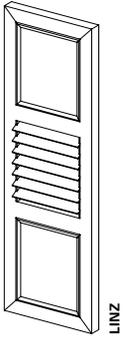
Flügelbreite in mm
Sash width in mm

| | 280–400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 233 | 242 | 252 | 261 | 270 | 279 | 289 | 297 | 307 |
| 900 | 248 | 258 | 268 | 278 | 290 | 300 | 310 | 320 | 331 |
| 1000 | 261 | 273 | 285 | 296 | 308 | 320 | 331 | 343 | 354 |
| 1100 | 275 | 289 | 302 | 313 | 326 | 340 | 352 | 365 | 378 |
| 1200 | 290 | 304 | 318 | 332 | 346 | 359 | 374 | 387 | 401 |
| 1300 | 300 | 314 | 330 | 345 | 360 | 376 | 391 | 405 | 421 |
| 1400 | 309 | 325 | 342 | 358 | 375 | 391 | 406 | 423 | 439 |
| 1500 | 318 | 335 | 354 | 371 | 388 | 405 | 423 | 441 | 459 |
| 1600 | 327 | 346 | 364 | 384 | 402 | 421 | 440 | 459 | 477 |
| 1700 | 342 | 361 | 382 | 401 | 421 | 441 | 461 | 482 | 502 |
| 1800 | 356 | 377 | 398 | 419 | 440 | 461 | 483 | 504 | 525 |
| 1900 | 369 | 392 | 415 | 437 | 459 | 482 | 504 | 526 | 549 |
| 2000 | 384 | 406 | 431 | 455 | 478 | 502 | 525 | 549 | 572 |
| 2100 | 393 | 418 | 442 | 468 | 492 | 517 | 542 | 566 | 592 |
| 2200 | 402 | 429 | 455 | 481 | 507 | 532 | 559 | 585 | 611 |
| 2300 | 413 | 439 | 467 | 494 | 521 | 548 | 576 | 602 | 630 |
| 2400 | 421 | 449 | 478 | 507 | 536 | 563 | 592 | 621 | 649 |
| 2500 | 431 | 460 | 490 | 520 | 549 | 579 | 609 | 638 | 668 |

Flügelhöhe in mm
Sash height in mm

Flügelbreite in mm
Sash width in mm

LINZ



| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 217 | 223 | 229 | 238 | 244 | 251 | 258 | 264 | 272 |
| 900 | 228 | 237 | 244 | 252 | 260 | 267 | 276 | 283 | 291 |
| 1000 | 241 | 249 | 259 | 267 | 276 | 284 | 293 | 301 | 310 |
| 1100 | 255 | 263 | 273 | 282 | 292 | 301 | 311 | 320 | 330 |
| 1200 | 266 | 277 | 286 | 298 | 308 | 318 | 328 | 339 | 349 |
| 1300 | 275 | 285 | 297 | 308 | 319 | 330 | 341 | 352 | 364 |
| 1400 | 282 | 293 | 305 | 318 | 330 | 341 | 353 | 366 | 377 |
| 1500 | 289 | 302 | 314 | 328 | 341 | 353 | 367 | 378 | 392 |
| 1600 | 297 | 311 | 324 | 338 | 351 | 366 | 378 | 392 | 407 |
| 1700 | 309 | 323 | 339 | 353 | 368 | 383 | 396 | 411 | 426 |
| 1800 | 322 | 336 | 352 | 368 | 384 | 398 | 414 | 430 | 445 |
| 1900 | 334 | 350 | 367 | 384 | 398 | 415 | 431 | 448 | 465 |
| 2000 | 347 | 364 | 382 | 397 | 414 | 432 | 449 | 467 | 483 |
| 2100 | 354 | 372 | 390 | 408 | 426 | 445 | 462 | 480 | 498 |
| 2200 | 363 | 382 | 398 | 418 | 437 | 456 | 475 | 494 | 513 |
| 2300 | 369 | 389 | 409 | 429 | 448 | 468 | 488 | 507 | 527 |
| 2400 | 376 | 397 | 418 | 439 | 459 | 480 | 500 | 520 | 541 |
| 2500 | 385 | 406 | 428 | 449 | 470 | 491 | 513 | 535 | 556 |

Flügelbreite in mm
Sash width in mm

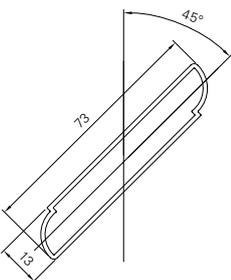
Flügelhöhe in mm
Sash height in mm



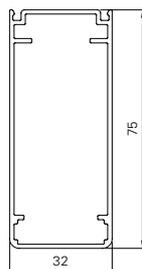
| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 247 | 258 | 268 | 280 | 290 | 301 | 312 | 323 | 333 |
| 900 | 264 | 277 | 289 | 301 | 313 | 324 | 336 | 349 | 361 |
| 1000 | 281 | 294 | 308 | 321 | 335 | 349 | 363 | 375 | 390 |
| 1100 | 297 | 312 | 328 | 342 | 357 | 372 | 388 | 403 | 418 |
| 1200 | 313 | 330 | 347 | 364 | 380 | 396 | 412 | 429 | 446 |
| 1300 | 326 | 343 | 361 | 378 | 397 | 415 | 433 | 451 | 469 |
| 1400 | 338 | 356 | 376 | 395 | 414 | 434 | 453 | 474 | 493 |
| 1500 | 349 | 370 | 391 | 411 | 432 | 453 | 475 | 495 | 516 |
| 1600 | 361 | 384 | 406 | 428 | 450 | 472 | 495 | 517 | 539 |
| 1700 | 377 | 402 | 426 | 449 | 472 | 496 | 520 | 543 | 567 |
| 1800 | 394 | 419 | 445 | 470 | 495 | 520 | 544 | 571 | 595 |
| 1900 | 411 | 438 | 464 | 490 | 517 | 543 | 571 | 597 | 624 |
| 2000 | 428 | 456 | 483 | 512 | 539 | 567 | 596 | 624 | 651 |
| 2100 | 439 | 469 | 498 | 528 | 557 | 587 | 616 | 645 | 675 |
| 2200 | 451 | 482 | 513 | 543 | 575 | 606 | 636 | 667 | 699 |
| 2300 | 464 | 496 | 528 | 560 | 593 | 625 | 657 | 689 | 722 |
| 2400 | 475 | 509 | 542 | 576 | 611 | 644 | 677 | 711 | 745 |
| 2500 | 487 | 522 | 557 | 593 | 627 | 663 | 699 | 732 | 768 |

Flügelbreite in mm
Sash width in mm

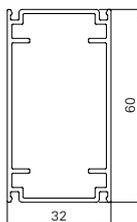
Flügelhöhe in mm
Sash height in mm



UL



R75



Q60

Version Easyflex: ohne Aufpreis

No surcharge

| | | | | |
|------------|-----------------|----------------------------|------------------------------|-----|
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A

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C

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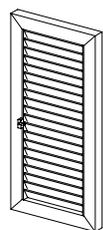
K

L

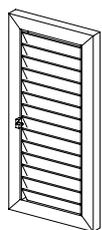
M

INFO

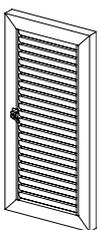
Technische Details siehe
www.ehret.com/produkte
Technical details, see
www.ehret.com/en/products



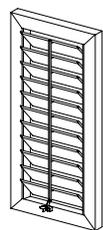
JSV 40



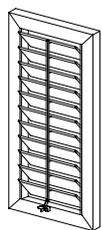
MSV 40



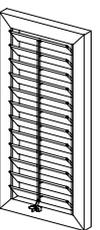
SUN-R75V 40



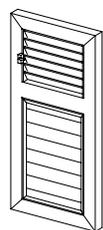
JVH 41



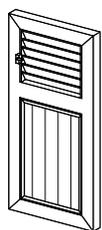
JVH-A 42



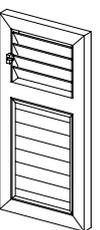
JVH-73-A 42



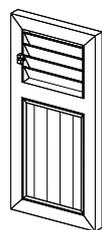
BRIG 43



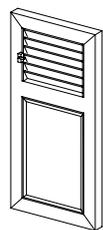
BRIG-SE 43



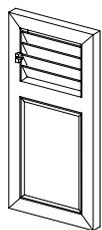
MSV-BRIG 43



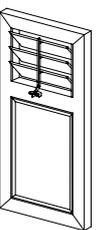
MSV-BRIG-SE 43



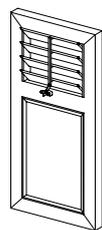
ZUG 44



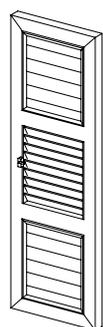
MSV-ZUG 44



BERN 45



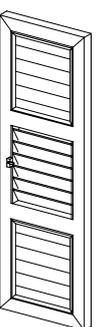
BERN-73 46



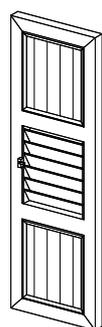
VISP 47



VISP-SE 47



MSV-VISP 47



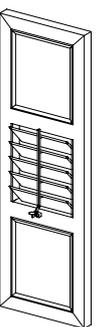
MSV-VISP-SE 47



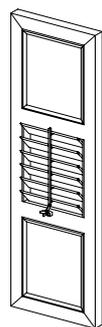
SION 48



MSV-SION 48



CHUR 49

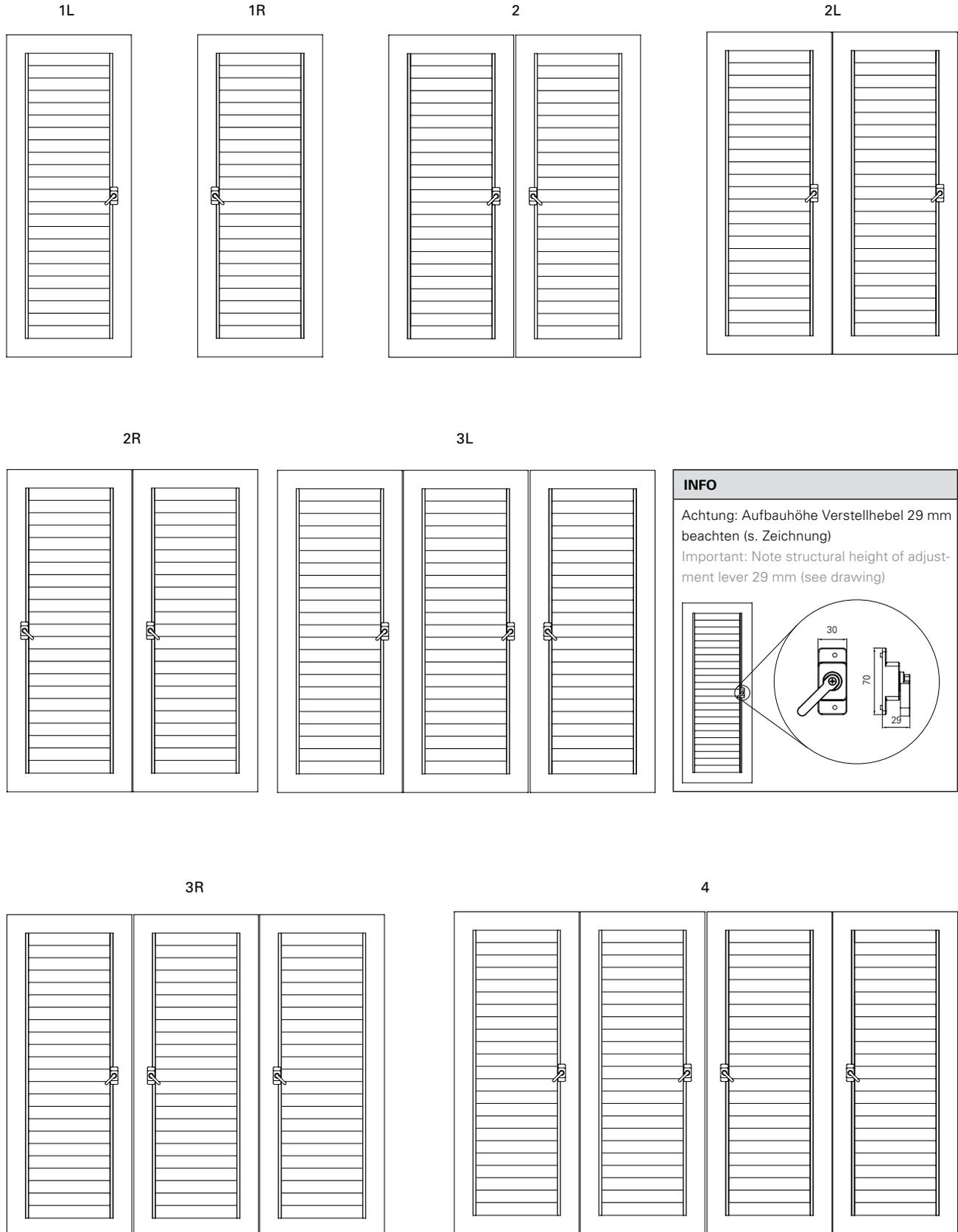


CHUR-73 50

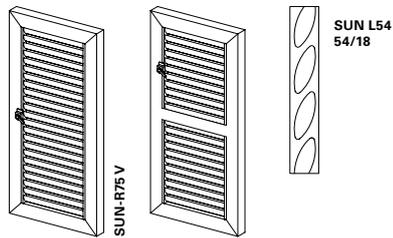
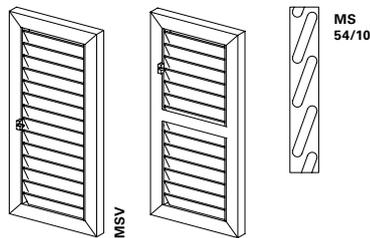
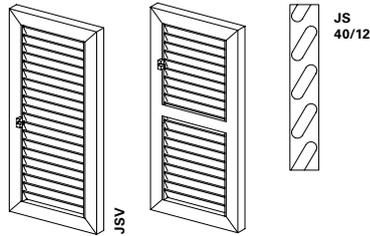
Verstellhebelposition nach Anschlagschema Position of adjustment lever as in stop diagram

Hinweise
Notes

Ansicht von innen. Verstellhebelposition mittig im Lamellenfeld (kann abhängig von der Lamellenanzahl maximal 54 mm abweichen)
View from inside. The position of the adjustment lever is in the centre of the slat panel (can deviate by a maximum of 54 mm depending on the number of slats)



JSV MSV SUN-R75V



| | 280–400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 161 | 166 | 171 | 176 | 181 | 185 | 191 | 196 | 200 |
| 900 | 171 | 177 | 182 | 187 | 193 | 199 | 204 | 211 | 216 |
| 1000 | 181 | 187 | 194 | 199 | 205 | 213 | 218 | 224 | 230 |
| 1100 | 192 | 198 | 204 | 212 | 218 | 225 | 232 | 238 | 245 |
| 1200 | 201 | 210 | 217 | 223 | 231 | 238 | 245 | 253 | 260 |
| 1300 | 210 | 217 | 224 | 232 | 240 | 249 | 256 | 264 | 272 |
| 1400 | 216 | 224 | 233 | 241 | 250 | 258 | 267 | 275 | 284 |
| 1500 | 223 | 232 | 241 | 251 | 259 | 269 | 277 | 286 | 295 |
| 1600 | 231 | 239 | 250 | 259 | 269 | 278 | 289 | 298 | 307 |
| 1700 | 240 | 251 | 261 | 271 | 282 | 292 | 302 | 312 | 322 |
| 1800 | 251 | 261 | 272 | 283 | 294 | 305 | 315 | 326 | 338 |
| 1900 | 261 | 272 | 284 | 295 | 307 | 318 | 328 | 341 | 351 |
| 2000 | 306 | 318 | 330 | 342 | 354 | 366 | 378 | 390 | 401 |
| 2100 | 313 | 326 | 339 | 350 | 363 | 376 | 389 | 400 | 414 |
| 2200 | 320 | 333 | 346 | 359 | 374 | 386 | 399 | 413 | 426 |
| 2300 | 328 | 341 | 355 | 369 | 382 | 396 | 411 | 423 | 437 |
| 2400 | 335 | 349 | 363 | 378 | 392 | 406 | 420 | 434 | 450 |
| 2500 | 342 | 357 | 372 | 386 | 401 | 416 | 431 | 447 | 460 |

└ Flügelhöhe in mm
Sash height in mm

└ Flügelbreite in mm
Sash width in mm

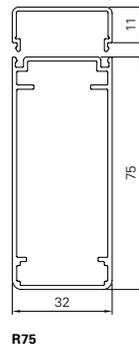
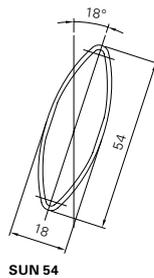
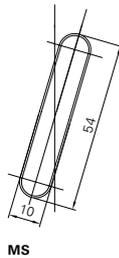
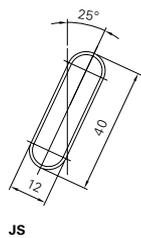
└ Preis inkl. Querfries
Price incl. horizontal
cross-panel

| | 280–400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 187 | 195 | 202 | 211 | 218 | 225 | 233 | 240 | 249 |
| 900 | 200 | 210 | 218 | 226 | 235 | 243 | 253 | 261 | 270 |
| 1000 | 215 | 223 | 233 | 242 | 253 | 262 | 272 | 282 | 292 |
| 1100 | 228 | 238 | 250 | 259 | 270 | 280 | 292 | 303 | 312 |
| 1200 | 241 | 253 | 265 | 276 | 287 | 300 | 311 | 323 | 334 |
| 1300 | 252 | 265 | 277 | 290 | 303 | 314 | 327 | 341 | 352 |
| 1400 | 262 | 276 | 290 | 304 | 316 | 331 | 344 | 358 | 371 |
| 1500 | 273 | 287 | 303 | 316 | 332 | 346 | 360 | 376 | 389 |
| 1600 | 284 | 300 | 314 | 331 | 346 | 361 | 378 | 393 | 408 |
| 1700 | 297 | 313 | 331 | 347 | 363 | 380 | 397 | 414 | 430 |
| 1800 | 311 | 328 | 346 | 363 | 381 | 398 | 416 | 434 | 451 |
| 1900 | 324 | 343 | 361 | 380 | 398 | 417 | 435 | 454 | 472 |
| 2000 | 374 | 393 | 413 | 432 | 452 | 470 | 490 | 509 | 529 |
| 2100 | 384 | 403 | 424 | 445 | 466 | 486 | 507 | 526 | 547 |
| 2200 | 394 | 416 | 437 | 459 | 480 | 502 | 523 | 545 | 565 |
| 2300 | 404 | 428 | 450 | 472 | 495 | 517 | 540 | 562 | 584 |
| 2400 | 416 | 438 | 463 | 486 | 509 | 533 | 556 | 580 | 602 |
| 2500 | 427 | 451 | 475 | 500 | 523 | 548 | 573 | 597 | 621 |

└ Flügelhöhe in mm
Sash height in mm

└ Flügelbreite in mm
Sash width in mm

└ Preis inkl. Querfries
Price incl. horizontal
cross-panel

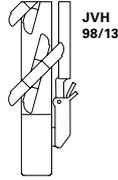
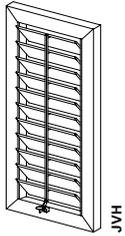


SUN 54

R75

| | | |
|--|--------------|----------------------------------|
| Zusätzlich verstellbares Lamellenfeld 122403 | 25,94 € | Additional adjustable slat panel |
| Querfries 60 mm | 1001 34,23 € | Horizontal cross-panel |
| Längsfries 60 mm | 2001 65,28 € | Vertical cross-panel |
| Version Easyflex: ohne Aufpreis | | No surcharge |

JVH



| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 185 | 191 | 196 | 200 | 205 | 212 | 217 | 221 | 226 |
| 900 | 197 | 202 | 208 | 215 | 220 | 225 | 232 | 237 | 242 |
| 1000 | 208 | 215 | 221 | 228 | 234 | 240 | 248 | 254 | 259 |
| 1100 | 220 | 226 | 234 | 240 | 249 | 255 | 262 | 269 | 276 |
| 1200 | 231 | 238 | 248 | 255 | 262 | 270 | 277 | 285 | 293 |
| 1300 | 239 | 248 | 256 | 265 | 272 | 280 | 290 | 297 | 306 |
| 1400 | 248 | 256 | 265 | 274 | 283 | 292 | 301 | 310 | 319 |
| 1500 | 255 | 265 | 274 | 284 | 293 | 303 | 312 | 322 | 332 |
| 1600 | 262 | 273 | 283 | 294 | 304 | 313 | 324 | 334 | 345 |
| 1700 | 274 | 285 | 296 | 307 | 318 | 328 | 340 | 350 | 361 |
| 1800 | 285 | 297 | 309 | 320 | 332 | 343 | 355 | 366 | 378 |
| 1900 | 297 | 309 | 321 | 334 | 346 | 358 | 369 | 382 | 394 |
| 2000 | 309 | 321 | 334 | 347 | 360 | 373 | 385 | 398 | 412 |
| 2100 | 316 | 330 | 343 | 357 | 369 | 384 | 397 | 410 | 424 |
| 2200 | 324 | 339 | 352 | 366 | 381 | 395 | 409 | 423 | 437 |
| 2300 | 332 | 347 | 361 | 377 | 391 | 405 | 420 | 435 | 449 |
| 2400 | 341 | 356 | 371 | 386 | 401 | 417 | 432 | 447 | 463 |
| 2500 | 348 | 363 | 380 | 396 | 413 | 428 | 443 | 460 | 475 |

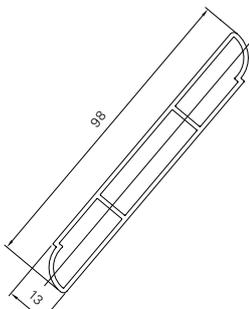
Flügelbreite in mm
Sash width in mm



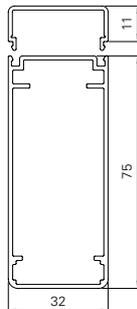
Flügelhöhe in mm
Sash height in mm

| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 216 | 224 | 232 | 240 | 249 | 257 | 265 | 273 | 281 |
| 900 | 230 | 239 | 249 | 258 | 266 | 275 | 284 | 294 | 303 |
| 1000 | 244 | 254 | 264 | 274 | 283 | 294 | 304 | 313 | 323 |
| 1100 | 259 | 269 | 279 | 291 | 301 | 312 | 322 | 334 | 344 |
| 1200 | 272 | 284 | 296 | 307 | 318 | 330 | 342 | 353 | 364 |
| 1300 | 283 | 296 | 308 | 320 | 333 | 345 | 357 | 371 | 383 |
| 1400 | 294 | 307 | 320 | 333 | 346 | 359 | 374 | 387 | 400 |
| 1500 | 304 | 318 | 333 | 346 | 360 | 375 | 389 | 403 | 417 |
| 1600 | 315 | 330 | 344 | 359 | 375 | 390 | 404 | 420 | 434 |
| 1700 | 328 | 345 | 360 | 377 | 392 | 407 | 424 | 439 | 455 |
| 1800 | 343 | 359 | 377 | 393 | 409 | 426 | 442 | 459 | 475 |
| 1900 | 357 | 376 | 393 | 409 | 427 | 444 | 462 | 479 | 496 |
| 2000 | 373 | 390 | 408 | 427 | 444 | 463 | 480 | 499 | 518 |
| 2100 | 383 | 401 | 421 | 439 | 459 | 477 | 496 | 515 | 535 |
| 2200 | 393 | 414 | 433 | 453 | 472 | 491 | 512 | 532 | 552 |
| 2300 | 404 | 425 | 445 | 466 | 486 | 507 | 528 | 549 | 569 |
| 2400 | 415 | 436 | 458 | 478 | 500 | 522 | 544 | 565 | 586 |
| 2500 | 425 | 447 | 469 | 491 | 514 | 537 | 559 | 582 | 603 |

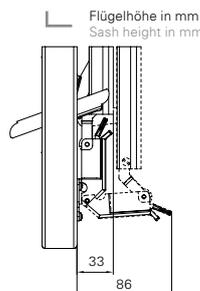
Flügelbreite in mm
Sash width in mm



JVH



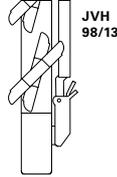
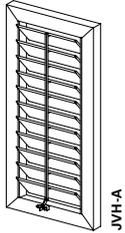
R75



Verstellhebel Adjustment lever

| | | | |
|----------------------------------|--------|--------------|---------------------------|
| Versetzen der Schubstange | 10021 | 16,46€ | Push rod adjustment |
| Querfries 60 mm | 1001 | 34,23€ | Horizontal cross-panel |
| Längsfries 60 mm | 2001 | 65,28€ | Vertical cross-panel |
| Lamellenkappen, Metall, lackiert | 122402 | 31,82€ | Slat caps, metal, painted |
| Version Easyflex: ohne Aufpreis | | No surcharge | |

JVH-A

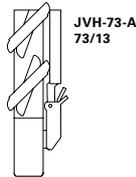
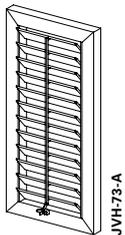


| | 280–400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 178 | 182 | 187 | 192 | 197 | 202 | 207 | 213 | 217 |
| 900 | 188 | 194 | 199 | 204 | 211 | 216 | 221 | 226 | 233 |
| 1000 | 198 | 204 | 212 | 217 | 223 | 230 | 235 | 241 | 249 |
| 1100 | 210 | 217 | 223 | 230 | 236 | 242 | 251 | 257 | 264 |
| 1200 | 220 | 228 | 235 | 241 | 250 | 257 | 265 | 272 | 278 |
| 1300 | 228 | 235 | 242 | 252 | 259 | 267 | 275 | 283 | 291 |
| 1400 | 235 | 242 | 252 | 260 | 269 | 277 | 286 | 295 | 303 |
| 1500 | 241 | 252 | 260 | 269 | 278 | 287 | 297 | 306 | 315 |
| 1600 | 250 | 259 | 269 | 278 | 289 | 298 | 308 | 318 | 327 |
| 1700 | 260 | 270 | 280 | 291 | 302 | 311 | 322 | 332 | 343 |
| 1800 | 271 | 282 | 293 | 304 | 314 | 325 | 337 | 347 | 358 |
| 1900 | 280 | 293 | 305 | 315 | 327 | 340 | 350 | 362 | 374 |
| 2000 | 292 | 305 | 316 | 328 | 341 | 352 | 364 | 377 | 389 |
| 2100 | 300 | 312 | 324 | 338 | 350 | 363 | 376 | 388 | 401 |
| 2200 | 307 | 320 | 333 | 346 | 360 | 374 | 386 | 400 | 414 |
| 2300 | 313 | 327 | 342 | 356 | 369 | 383 | 397 | 412 | 425 |
| 2400 | 321 | 335 | 350 | 364 | 379 | 394 | 408 | 423 | 437 |
| 2500 | 328 | 344 | 359 | 374 | 388 | 403 | 419 | 434 | 449 |

Flügelbreite in mm
Sash width in mm

Flügelhöhe in mm
Sash height in mm

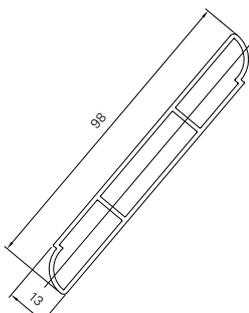
JVH-73-A



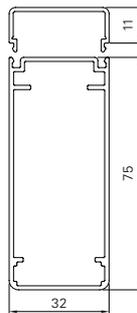
| | 280–400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 186 | 191 | 196 | 201 | 207 | 213 | 217 | 223 | 227 |
| 900 | 198 | 203 | 210 | 215 | 221 | 226 | 232 | 238 | 244 |
| 1000 | 209 | 215 | 222 | 227 | 234 | 241 | 246 | 254 | 261 |
| 1100 | 220 | 227 | 234 | 241 | 249 | 255 | 263 | 270 | 276 |
| 1200 | 231 | 239 | 246 | 254 | 262 | 270 | 277 | 285 | 293 |
| 1300 | 239 | 246 | 255 | 264 | 272 | 280 | 290 | 297 | 305 |
| 1400 | 246 | 255 | 264 | 273 | 282 | 292 | 301 | 310 | 317 |
| 1500 | 254 | 264 | 273 | 282 | 293 | 302 | 312 | 321 | 332 |
| 1600 | 262 | 272 | 282 | 293 | 303 | 313 | 323 | 334 | 344 |
| 1700 | 273 | 283 | 295 | 305 | 316 | 326 | 338 | 348 | 360 |
| 1800 | 284 | 296 | 307 | 319 | 331 | 342 | 353 | 364 | 376 |
| 1900 | 295 | 307 | 320 | 332 | 344 | 356 | 367 | 381 | 392 |
| 2000 | 306 | 320 | 333 | 345 | 357 | 371 | 383 | 395 | 408 |
| 2100 | 314 | 327 | 341 | 354 | 367 | 382 | 394 | 407 | 422 |
| 2200 | 322 | 336 | 350 | 363 | 378 | 392 | 405 | 421 | 434 |
| 2300 | 330 | 344 | 358 | 374 | 388 | 402 | 417 | 432 | 446 |
| 2400 | 337 | 352 | 367 | 383 | 397 | 414 | 428 | 444 | 459 |
| 2500 | 345 | 361 | 377 | 392 | 407 | 424 | 440 | 456 | 472 |

Flügelbreite in mm
Sash width in mm

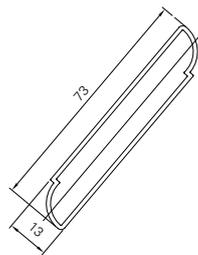
Flügelhöhe in mm
Sash height in mm



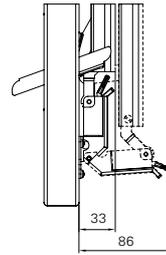
JVH



R75



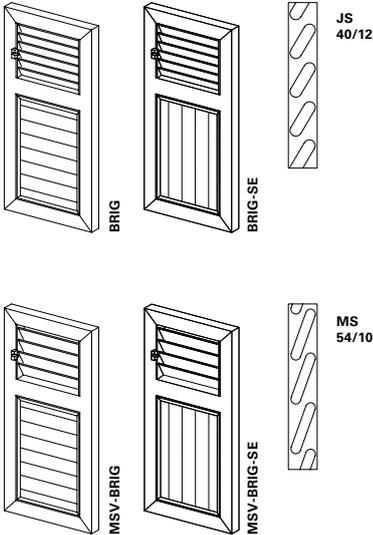
JVH-L73-A



Verstellhebel Adjustment lever

| | | | |
|---------------------------------|-------|--------------|------------------------|
| Versetzen der Schubstange | 10021 | 16,46€ | Push rod adjustment |
| Querfries 60 mm | 1001 | 34,23€ | Horizontal cross-panel |
| Längsfries 60 mm | 2001 | 65,28€ | Vertical cross-panel |
| Version Easyflex: ohne Aufpreis | | No surcharge | |

BRIG(-SE) MSV-BRIG(-SE)



| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 189 | 195 | 201 | 206 | 214 | 220 | 225 | 232 | 237 |
| 900 | 200 | 206 | 214 | 220 | 226 | 234 | 240 | 248 | 254 |
| 1000 | 212 | 219 | 226 | 233 | 240 | 248 | 255 | 262 | 269 |
| 1100 | 223 | 231 | 238 | 247 | 254 | 261 | 270 | 278 | 286 |
| 1200 | 234 | 243 | 251 | 259 | 268 | 276 | 285 | 293 | 302 |
| 1300 | 242 | 251 | 259 | 268 | 278 | 287 | 295 | 304 | 314 |
| 1400 | 250 | 258 | 268 | 278 | 288 | 297 | 306 | 316 | 326 |
| 1500 | 256 | 267 | 277 | 287 | 297 | 307 | 317 | 328 | 338 |
| 1600 | 263 | 274 | 286 | 296 | 307 | 318 | 328 | 339 | 350 |
| 1700 | 274 | 287 | 297 | 309 | 321 | 332 | 343 | 354 | 366 |
| 1800 | 287 | 298 | 311 | 323 | 334 | 346 | 358 | 369 | 382 |
| 1900 | 297 | 309 | 323 | 334 | 348 | 360 | 372 | 385 | 398 |
| 2000 | 308 | 322 | 334 | 348 | 361 | 374 | 387 | 401 | 415 |
| 2100 | 316 | 330 | 343 | 358 | 370 | 385 | 399 | 412 | 426 |
| 2200 | 324 | 338 | 352 | 366 | 381 | 396 | 410 | 424 | 438 |
| 2300 | 331 | 346 | 361 | 376 | 390 | 405 | 421 | 435 | 451 |
| 2400 | 339 | 354 | 369 | 385 | 400 | 417 | 432 | 448 | 462 |
| 2500 | 346 | 362 | 379 | 395 | 410 | 426 | 442 | 459 | 474 |

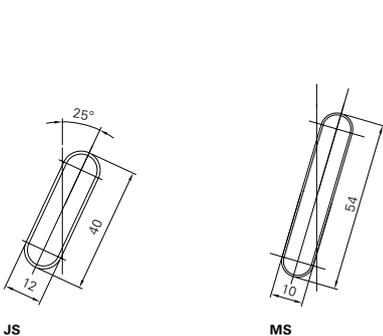
Flügelbreite in mm
Sash width in mm

Flügelhöhe in mm
Sash height in mm

| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 219 | 229 | 237 | 248 | 256 | 266 | 274 | 284 | 293 |
| 900 | 234 | 244 | 254 | 265 | 274 | 285 | 295 | 305 | 315 |
| 1000 | 249 | 260 | 271 | 282 | 293 | 304 | 315 | 326 | 336 |
| 1100 | 263 | 276 | 288 | 299 | 312 | 324 | 335 | 348 | 360 |
| 1200 | 279 | 291 | 304 | 317 | 330 | 343 | 356 | 368 | 382 |
| 1300 | 290 | 303 | 317 | 331 | 345 | 359 | 372 | 386 | 400 |
| 1400 | 301 | 315 | 330 | 345 | 360 | 374 | 389 | 403 | 419 |
| 1500 | 312 | 327 | 343 | 359 | 374 | 390 | 405 | 421 | 437 |
| 1600 | 323 | 339 | 356 | 372 | 389 | 405 | 422 | 438 | 455 |
| 1700 | 338 | 356 | 372 | 390 | 407 | 425 | 442 | 460 | 477 |
| 1800 | 352 | 370 | 389 | 407 | 426 | 443 | 462 | 480 | 499 |
| 1900 | 367 | 387 | 405 | 425 | 444 | 463 | 484 | 503 | 522 |
| 2000 | 382 | 402 | 422 | 442 | 462 | 484 | 504 | 524 | 544 |
| 2100 | 394 | 415 | 435 | 457 | 477 | 498 | 521 | 541 | 562 |
| 2200 | 404 | 426 | 449 | 470 | 492 | 514 | 536 | 559 | 580 |
| 2300 | 416 | 438 | 461 | 485 | 507 | 530 | 553 | 576 | 599 |
| 2400 | 426 | 451 | 474 | 498 | 522 | 545 | 569 | 594 | 617 |
| 2500 | 437 | 462 | 487 | 511 | 536 | 562 | 586 | 611 | 636 |

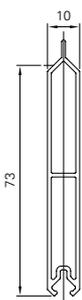
Flügelbreite in mm
Sash width in mm

Flügelhöhe in mm
Sash height in mm

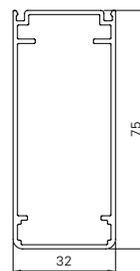


JS

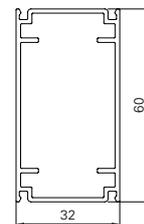
MS



GE



R75



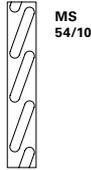
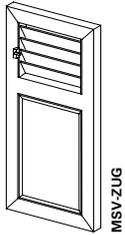
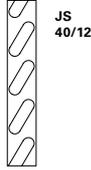
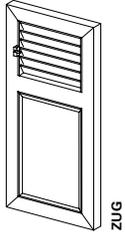
Q60

Version Easyflex: ohne Aufpreis

No surcharge



ZUG MSV-ZUG



| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 182 | 187 | 193 | 198 | 203 | 210 | 215 | 220 | 225 |
| 900 | 193 | 198 | 204 | 211 | 217 | 222 | 229 | 234 | 240 |
| 1000 | 202 | 210 | 216 | 222 | 229 | 235 | 241 | 249 | 255 |
| 1100 | 214 | 221 | 228 | 235 | 241 | 250 | 256 | 262 | 270 |
| 1200 | 224 | 232 | 239 | 248 | 255 | 262 | 270 | 277 | 284 |
| 1300 | 231 | 239 | 248 | 256 | 264 | 271 | 279 | 287 | 296 |
| 1400 | 238 | 248 | 255 | 264 | 272 | 280 | 290 | 298 | 307 |
| 1500 | 245 | 254 | 264 | 272 | 282 | 291 | 300 | 309 | 318 |
| 1600 | 252 | 261 | 271 | 280 | 291 | 301 | 309 | 319 | 328 |
| 1700 | 262 | 272 | 283 | 293 | 303 | 313 | 323 | 333 | 344 |
| 1800 | 273 | 284 | 294 | 305 | 315 | 326 | 338 | 347 | 358 |
| 1900 | 284 | 295 | 306 | 316 | 328 | 340 | 350 | 362 | 374 |
| 2000 | 294 | 306 | 318 | 330 | 341 | 352 | 364 | 377 | 387 |
| 2100 | 302 | 313 | 325 | 338 | 350 | 362 | 375 | 386 | 399 |
| 2200 | 308 | 321 | 333 | 346 | 359 | 373 | 384 | 397 | 410 |
| 2300 | 314 | 328 | 342 | 355 | 367 | 381 | 394 | 408 | 421 |
| 2400 | 322 | 335 | 349 | 363 | 377 | 391 | 404 | 418 | 432 |
| 2500 | 328 | 343 | 357 | 373 | 386 | 400 | 415 | 429 | 442 |

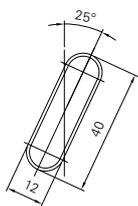
Flügelbreite in mm
Sash width in mm

Flügelhöhe in mm
Sash height in mm

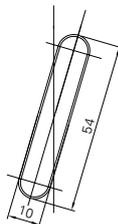
| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 212 | 220 | 229 | 237 | 246 | 254 | 262 | 271 | 279 |
| 900 | 225 | 234 | 243 | 254 | 262 | 272 | 282 | 291 | 301 |
| 1000 | 239 | 250 | 260 | 270 | 279 | 291 | 301 | 311 | 321 |
| 1100 | 254 | 265 | 275 | 286 | 297 | 308 | 320 | 331 | 342 |
| 1200 | 268 | 278 | 291 | 303 | 314 | 326 | 339 | 350 | 362 |
| 1300 | 277 | 291 | 303 | 315 | 328 | 341 | 354 | 366 | 379 |
| 1400 | 289 | 302 | 314 | 328 | 342 | 356 | 368 | 382 | 396 |
| 1500 | 298 | 312 | 327 | 342 | 356 | 369 | 384 | 398 | 413 |
| 1600 | 309 | 324 | 340 | 354 | 368 | 384 | 399 | 415 | 430 |
| 1700 | 323 | 339 | 355 | 371 | 386 | 402 | 418 | 434 | 449 |
| 1800 | 338 | 354 | 369 | 387 | 403 | 420 | 437 | 454 | 470 |
| 1900 | 351 | 368 | 386 | 403 | 421 | 438 | 456 | 473 | 490 |
| 2000 | 365 | 383 | 401 | 420 | 438 | 457 | 474 | 492 | 511 |
| 2100 | 376 | 395 | 414 | 433 | 451 | 471 | 489 | 509 | 528 |
| 2200 | 386 | 405 | 425 | 446 | 466 | 485 | 505 | 525 | 545 |
| 2300 | 396 | 417 | 437 | 458 | 478 | 500 | 520 | 541 | 561 |
| 2400 | 406 | 429 | 449 | 471 | 492 | 514 | 536 | 557 | 579 |
| 2500 | 417 | 439 | 461 | 484 | 506 | 528 | 550 | 573 | 595 |

Flügelbreite in mm
Sash width in mm

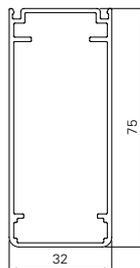
Flügelhöhe in mm
Sash height in mm



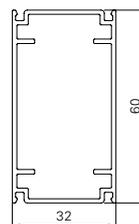
JS



MS



R75

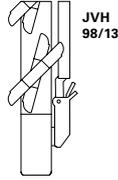
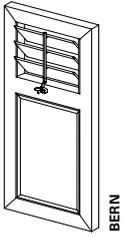


Q60

Version Easyflex: ohne Aufpreis

No surcharge

BERN



| | 280–400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 195 | 200 | 205 | 211 | 217 | 222 | 227 | 233 | 239 |
| 900 | 205 | 211 | 218 | 223 | 229 | 236 | 242 | 247 | 254 |
| 1000 | 217 | 223 | 229 | 237 | 243 | 250 | 256 | 263 | 270 |
| 1100 | 226 | 234 | 242 | 249 | 256 | 263 | 271 | 278 | 284 |
| 1200 | 238 | 245 | 253 | 262 | 270 | 277 | 284 | 293 | 300 |
| 1300 | 245 | 253 | 262 | 271 | 278 | 288 | 296 | 304 | 312 |
| 1400 | 252 | 260 | 270 | 279 | 289 | 297 | 306 | 315 | 325 |
| 1500 | 258 | 269 | 278 | 289 | 297 | 307 | 317 | 327 | 335 |
| 1600 | 266 | 276 | 286 | 297 | 307 | 317 | 327 | 337 | 348 |
| 1700 | 276 | 288 | 298 | 309 | 320 | 331 | 343 | 352 | 363 |
| 1800 | 288 | 299 | 310 | 321 | 333 | 345 | 356 | 368 | 379 |
| 1900 | 298 | 310 | 323 | 334 | 347 | 359 | 371 | 383 | 395 |
| 2000 | 309 | 321 | 334 | 347 | 360 | 372 | 385 | 398 | 410 |
| 2100 | 316 | 329 | 343 | 355 | 369 | 382 | 395 | 408 | 422 |
| 2200 | 324 | 336 | 351 | 364 | 379 | 392 | 406 | 421 | 434 |
| 2300 | 330 | 345 | 359 | 373 | 387 | 402 | 418 | 431 | 446 |
| 2400 | 336 | 352 | 368 | 382 | 398 | 412 | 427 | 442 | 457 |
| 2500 | 345 | 360 | 375 | 390 | 406 | 423 | 438 | 454 | 470 |

Flügelbreite in mm
Sash width in mm

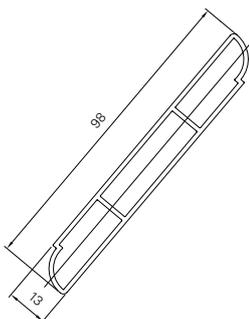
Flügelhöhe in mm
Sash height in mm



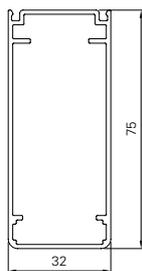
| | 280–400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 225 | 234 | 243 | 251 | 259 | 269 | 277 | 284 | 294 |
| 900 | 240 | 250 | 259 | 269 | 278 | 288 | 297 | 306 | 316 |
| 1000 | 255 | 265 | 275 | 286 | 296 | 307 | 317 | 327 | 337 |
| 1100 | 270 | 280 | 292 | 302 | 315 | 326 | 336 | 348 | 359 |
| 1200 | 283 | 296 | 308 | 320 | 332 | 345 | 356 | 369 | 381 |
| 1300 | 295 | 308 | 320 | 333 | 347 | 360 | 373 | 386 | 400 |
| 1400 | 306 | 319 | 333 | 348 | 361 | 375 | 389 | 403 | 418 |
| 1500 | 316 | 331 | 346 | 361 | 375 | 390 | 405 | 421 | 435 |
| 1600 | 327 | 343 | 359 | 374 | 389 | 406 | 422 | 437 | 454 |
| 1700 | 342 | 357 | 375 | 392 | 408 | 425 | 441 | 458 | 475 |
| 1800 | 355 | 373 | 390 | 408 | 426 | 444 | 461 | 479 | 497 |
| 1900 | 371 | 388 | 407 | 426 | 445 | 463 | 481 | 500 | 518 |
| 2000 | 385 | 404 | 424 | 444 | 462 | 482 | 502 | 520 | 540 |
| 2100 | 397 | 416 | 436 | 457 | 477 | 498 | 517 | 538 | 558 |
| 2200 | 406 | 428 | 449 | 471 | 491 | 513 | 534 | 555 | 577 |
| 2300 | 418 | 439 | 461 | 483 | 505 | 529 | 551 | 572 | 594 |
| 2400 | 428 | 452 | 475 | 498 | 520 | 543 | 566 | 589 | 612 |
| 2500 | 439 | 462 | 486 | 511 | 535 | 558 | 583 | 607 | 631 |

Flügelbreite in mm
Sash width in mm

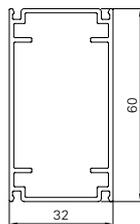
Flügelhöhe in mm
Sash height in mm



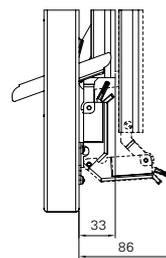
J VH



R75



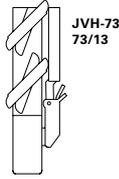
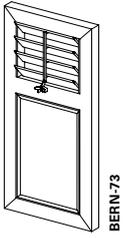
Q60



Verstellhebel Adjustment lever

| | | | |
|---------------------------------|-------|---------|---------------------|
| Versetzen der Schubstange | 10021 | 16,46 € | Push rod adjustment |
| Version Easyflex: ohne Aufpreis | | | No surcharge |

BERN-73



| | 280-400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 198 | 203 | 208 | 215 | 220 | 225 | 231 | 237 | 242 |
| 900 | 208 | 215 | 221 | 226 | 233 | 239 | 246 | 251 | 257 |
| 1000 | 220 | 226 | 233 | 240 | 247 | 253 | 260 | 267 | 274 |
| 1100 | 230 | 238 | 246 | 252 | 260 | 267 | 275 | 282 | 290 |
| 1200 | 241 | 249 | 256 | 266 | 274 | 281 | 290 | 297 | 305 |
| 1300 | 249 | 256 | 266 | 275 | 282 | 292 | 300 | 308 | 317 |
| 1400 | 255 | 265 | 274 | 283 | 293 | 301 | 310 | 320 | 329 |
| 1500 | 263 | 272 | 282 | 293 | 301 | 311 | 322 | 331 | 341 |
| 1600 | 270 | 280 | 291 | 301 | 311 | 322 | 331 | 343 | 353 |
| 1700 | 280 | 292 | 302 | 314 | 325 | 336 | 348 | 357 | 369 |
| 1800 | 292 | 304 | 315 | 326 | 338 | 350 | 362 | 373 | 384 |
| 1900 | 302 | 315 | 327 | 340 | 352 | 364 | 377 | 388 | 401 |
| 2000 | 314 | 326 | 340 | 352 | 366 | 378 | 390 | 403 | 416 |
| 2100 | 321 | 334 | 348 | 360 | 374 | 387 | 401 | 414 | 428 |
| 2200 | 328 | 342 | 356 | 370 | 384 | 398 | 412 | 427 | 440 |
| 2300 | 335 | 350 | 364 | 379 | 394 | 408 | 424 | 438 | 453 |
| 2400 | 342 | 357 | 373 | 387 | 403 | 419 | 433 | 449 | 463 |
| 2500 | 350 | 366 | 381 | 397 | 412 | 429 | 445 | 460 | 476 |

Flügelbreite in mm
Sash width in mm

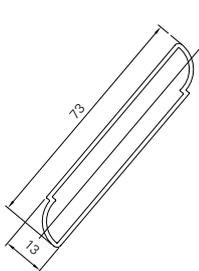
Flügelhöhe in mm
Sash height in mm



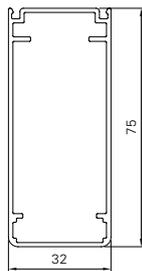
| | 280-400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 228 | 238 | 247 | 254 | 264 | 272 | 281 | 290 | 298 |
| 900 | 243 | 253 | 264 | 272 | 282 | 292 | 301 | 310 | 321 |
| 1000 | 259 | 269 | 279 | 291 | 300 | 311 | 322 | 331 | 343 |
| 1100 | 274 | 284 | 296 | 307 | 320 | 330 | 342 | 353 | 364 |
| 1200 | 289 | 300 | 312 | 325 | 337 | 350 | 362 | 374 | 386 |
| 1300 | 299 | 312 | 325 | 338 | 352 | 366 | 379 | 393 | 405 |
| 1400 | 310 | 324 | 338 | 353 | 367 | 381 | 396 | 409 | 424 |
| 1500 | 321 | 336 | 351 | 367 | 381 | 397 | 411 | 427 | 441 |
| 1600 | 331 | 348 | 364 | 380 | 396 | 412 | 428 | 444 | 460 |
| 1700 | 346 | 363 | 381 | 398 | 414 | 431 | 448 | 465 | 482 |
| 1800 | 360 | 379 | 397 | 414 | 432 | 451 | 468 | 486 | 504 |
| 1900 | 377 | 395 | 413 | 432 | 452 | 471 | 488 | 507 | 527 |
| 2000 | 390 | 410 | 430 | 451 | 470 | 489 | 510 | 529 | 549 |
| 2100 | 402 | 423 | 442 | 463 | 484 | 505 | 526 | 546 | 566 |
| 2200 | 412 | 434 | 456 | 477 | 499 | 520 | 542 | 563 | 586 |
| 2300 | 424 | 446 | 468 | 490 | 513 | 536 | 559 | 581 | 604 |
| 2400 | 434 | 458 | 482 | 505 | 529 | 551 | 575 | 598 | 621 |
| 2500 | 446 | 470 | 493 | 518 | 543 | 566 | 591 | 616 | 640 |

Flügelbreite in mm
Sash width in mm

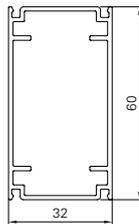
Flügelhöhe in mm
Sash height in mm



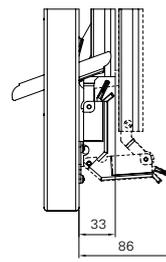
JVH-L73-A



R75



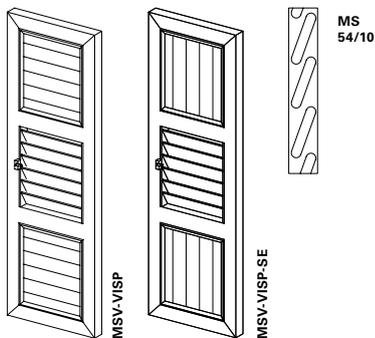
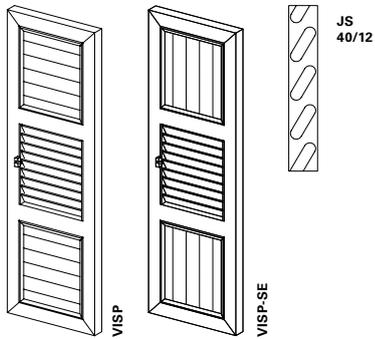
Q60



Verstellhebel Adjustment lever

| | | | |
|---------------------------------|-------|---------|---------------------|
| Versetzen der Schubstange | 10021 | 16,46 € | Push rod adjustment |
| Version Easyflex: ohne Aufpreis | | | No surcharge |

VISP(-SE) MSV-VISP(-SE)



| | 280-400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 229 | 238 | 244 | 252 | 259 | 265 | 273 | 280 | 287 |
| 900 | 242 | 249 | 258 | 265 | 273 | 281 | 289 | 298 | 305 |
| 1000 | 255 | 263 | 271 | 280 | 289 | 297 | 305 | 314 | 322 |
| 1100 | 266 | 276 | 284 | 294 | 303 | 312 | 322 | 331 | 340 |
| 1200 | 279 | 289 | 298 | 308 | 318 | 328 | 338 | 348 | 357 |
| 1300 | 285 | 297 | 307 | 318 | 328 | 339 | 349 | 360 | 370 |
| 1400 | 292 | 304 | 315 | 327 | 338 | 349 | 360 | 371 | 384 |
| 1500 | 300 | 312 | 323 | 335 | 348 | 360 | 371 | 384 | 395 |
| 1600 | 307 | 319 | 332 | 345 | 357 | 370 | 383 | 395 | 408 |
| 1700 | 319 | 332 | 346 | 359 | 372 | 386 | 398 | 412 | 426 |
| 1800 | 331 | 345 | 359 | 373 | 387 | 402 | 415 | 429 | 444 |
| 1900 | 343 | 357 | 372 | 387 | 403 | 416 | 431 | 446 | 461 |
| 2000 | 355 | 370 | 386 | 402 | 416 | 432 | 448 | 464 | 478 |
| 2100 | 363 | 377 | 394 | 410 | 427 | 443 | 459 | 475 | 491 |
| 2200 | 369 | 386 | 403 | 420 | 437 | 453 | 470 | 487 | 503 |
| 2300 | 376 | 393 | 411 | 429 | 447 | 464 | 481 | 499 | 516 |
| 2400 | 384 | 402 | 420 | 438 | 456 | 475 | 493 | 510 | 530 |
| 2500 | 390 | 409 | 428 | 447 | 466 | 485 | 503 | 522 | 541 |

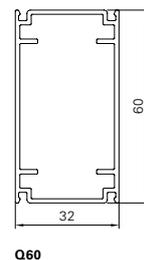
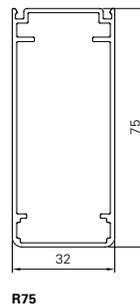
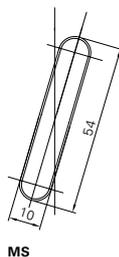
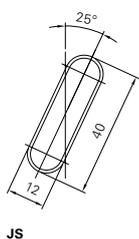
└ Flügelhöhe in mm
Sash height in mm

└ Flügelbreite in mm
Sash width in mm

| | 280-400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 263 | 275 | 285 | 297 | 308 | 318 | 329 | 340 | 351 |
| 900 | 279 | 291 | 303 | 315 | 327 | 339 | 351 | 364 | 375 |
| 1000 | 294 | 308 | 321 | 333 | 347 | 360 | 373 | 387 | 401 |
| 1100 | 310 | 324 | 338 | 352 | 367 | 382 | 395 | 410 | 424 |
| 1200 | 326 | 341 | 355 | 371 | 387 | 403 | 418 | 432 | 448 |
| 1300 | 335 | 352 | 369 | 386 | 402 | 418 | 434 | 451 | 467 |
| 1400 | 347 | 364 | 382 | 398 | 416 | 433 | 451 | 469 | 487 |
| 1500 | 356 | 375 | 394 | 412 | 431 | 450 | 468 | 487 | 506 |
| 1600 | 368 | 387 | 407 | 427 | 446 | 466 | 486 | 506 | 524 |
| 1700 | 383 | 404 | 425 | 446 | 466 | 487 | 508 | 528 | 550 |
| 1800 | 397 | 420 | 443 | 464 | 486 | 508 | 530 | 552 | 574 |
| 1900 | 413 | 437 | 460 | 482 | 506 | 530 | 552 | 575 | 598 |
| 2000 | 429 | 453 | 477 | 501 | 525 | 550 | 574 | 598 | 621 |
| 2100 | 440 | 465 | 490 | 515 | 540 | 565 | 591 | 616 | 642 |
| 2200 | 450 | 477 | 502 | 530 | 555 | 581 | 608 | 634 | 661 |
| 2300 | 461 | 488 | 516 | 542 | 571 | 597 | 625 | 653 | 680 |
| 2400 | 471 | 500 | 528 | 557 | 585 | 614 | 642 | 670 | 699 |
| 2500 | 481 | 512 | 540 | 571 | 600 | 629 | 660 | 688 | 719 |

└ Flügelhöhe in mm
Sash height in mm

└ Flügelbreite in mm
Sash width in mm

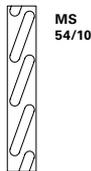
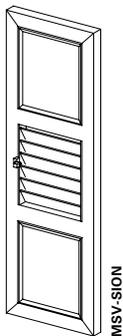
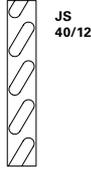
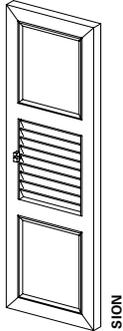


Version Easyflex: ohne Aufpreis

No surcharge



SION MSV-SION



| | 280–400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 219 | 224 | 230 | 237 | 242 | 248 | 255 | 260 | 265 |
| 900 | 229 | 237 | 243 | 249 | 257 | 263 | 270 | 277 | 283 |
| 1000 | 242 | 248 | 257 | 264 | 271 | 279 | 285 | 293 | 301 |
| 1100 | 254 | 261 | 268 | 278 | 285 | 293 | 302 | 310 | 318 |
| 1200 | 264 | 273 | 282 | 291 | 300 | 309 | 318 | 327 | 335 |
| 1300 | 271 | 281 | 290 | 300 | 310 | 319 | 329 | 339 | 348 |
| 1400 | 278 | 287 | 298 | 309 | 319 | 330 | 340 | 350 | 361 |
| 1500 | 283 | 296 | 307 | 318 | 329 | 340 | 351 | 363 | 373 |
| 1600 | 290 | 302 | 314 | 326 | 338 | 350 | 363 | 373 | 386 |
| 1700 | 301 | 314 | 327 | 340 | 352 | 366 | 377 | 390 | 404 |
| 1800 | 313 | 327 | 340 | 353 | 367 | 380 | 393 | 407 | 422 |
| 1900 | 324 | 339 | 352 | 367 | 382 | 395 | 410 | 424 | 438 |
| 2000 | 335 | 351 | 366 | 382 | 395 | 410 | 426 | 440 | 456 |
| 2100 | 342 | 357 | 373 | 389 | 406 | 422 | 437 | 452 | 468 |
| 2200 | 349 | 366 | 382 | 397 | 414 | 431 | 448 | 465 | 480 |
| 2300 | 355 | 372 | 390 | 407 | 425 | 441 | 459 | 476 | 494 |
| 2400 | 361 | 380 | 397 | 415 | 433 | 451 | 470 | 488 | 506 |
| 2500 | 368 | 387 | 406 | 425 | 444 | 462 | 480 | 499 | 518 |

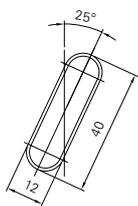
Flügelbreite in mm
Sash width in mm

Flügelhöhe in mm
Sash height in mm

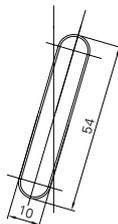
| | 280–400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 248 | 258 | 266 | 276 | 285 | 294 | 303 | 312 | 321 |
| 900 | 263 | 273 | 283 | 294 | 304 | 314 | 324 | 334 | 346 |
| 1000 | 278 | 289 | 301 | 312 | 323 | 334 | 347 | 357 | 369 |
| 1100 | 292 | 304 | 318 | 330 | 342 | 355 | 368 | 380 | 392 |
| 1200 | 307 | 321 | 334 | 348 | 363 | 375 | 389 | 404 | 416 |
| 1300 | 317 | 331 | 347 | 361 | 375 | 391 | 406 | 422 | 435 |
| 1400 | 327 | 342 | 357 | 374 | 390 | 407 | 423 | 439 | 454 |
| 1500 | 335 | 353 | 370 | 388 | 405 | 423 | 439 | 456 | 474 |
| 1600 | 346 | 365 | 383 | 402 | 419 | 437 | 456 | 474 | 493 |
| 1700 | 360 | 380 | 398 | 419 | 438 | 458 | 477 | 497 | 516 |
| 1800 | 374 | 395 | 415 | 437 | 458 | 478 | 499 | 519 | 540 |
| 1900 | 389 | 411 | 433 | 454 | 477 | 498 | 520 | 542 | 563 |
| 2000 | 405 | 427 | 450 | 472 | 496 | 519 | 541 | 564 | 588 |
| 2100 | 413 | 438 | 462 | 486 | 510 | 535 | 558 | 582 | 607 |
| 2200 | 424 | 449 | 474 | 499 | 524 | 550 | 575 | 600 | 626 |
| 2300 | 433 | 459 | 486 | 513 | 539 | 564 | 592 | 618 | 645 |
| 2400 | 443 | 470 | 498 | 525 | 554 | 580 | 608 | 636 | 664 |
| 2500 | 452 | 481 | 510 | 539 | 567 | 596 | 625 | 654 | 683 |

Flügelbreite in mm
Sash width in mm

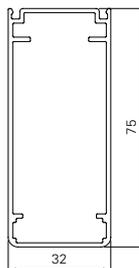
Flügelhöhe in mm
Sash height in mm



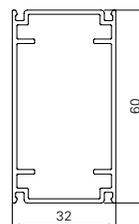
JS



MS



R75

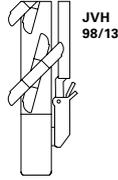
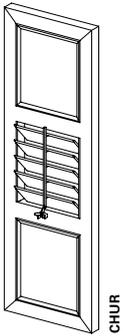


Q60

Version Easyflex: ohne Aufpreis

No surcharge

CHUR



| | 280 – 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 234 | 239 | 245 | 251 | 258 | 263 | 270 | 276 | 281 |
| 900 | 245 | 252 | 259 | 265 | 272 | 279 | 285 | 292 | 298 |
| 1000 | 258 | 265 | 272 | 279 | 286 | 293 | 301 | 308 | 315 |
| 1100 | 270 | 278 | 285 | 293 | 301 | 309 | 317 | 324 | 332 |
| 1200 | 282 | 291 | 299 | 308 | 315 | 323 | 332 | 340 | 349 |
| 1300 | 290 | 299 | 308 | 317 | 324 | 333 | 342 | 351 | 360 |
| 1400 | 297 | 307 | 315 | 324 | 334 | 343 | 353 | 363 | 371 |
| 1500 | 304 | 314 | 323 | 333 | 343 | 353 | 364 | 373 | 384 |
| 1600 | 311 | 321 | 332 | 342 | 353 | 364 | 373 | 385 | 394 |
| 1700 | 323 | 334 | 346 | 356 | 368 | 378 | 390 | 401 | 411 |
| 1800 | 335 | 348 | 359 | 370 | 383 | 393 | 406 | 416 | 428 |
| 1900 | 348 | 360 | 372 | 385 | 396 | 409 | 422 | 433 | 445 |
| 2000 | 360 | 373 | 386 | 398 | 411 | 424 | 437 | 449 | 462 |
| 2100 | 368 | 382 | 394 | 407 | 420 | 433 | 447 | 460 | 474 |
| 2200 | 374 | 388 | 403 | 415 | 430 | 444 | 458 | 471 | 485 |
| 2300 | 382 | 395 | 410 | 425 | 439 | 453 | 468 | 482 | 497 |
| 2400 | 389 | 404 | 419 | 433 | 448 | 464 | 478 | 494 | 508 |
| 2500 | 395 | 411 | 427 | 443 | 458 | 474 | 489 | 504 | 519 |

Flügelbreite in mm
Sash width in mm

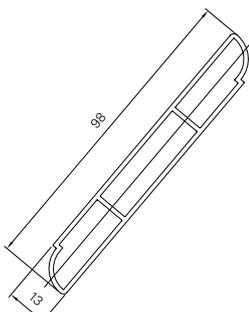
Flügelhöhe in mm
Sash height in mm



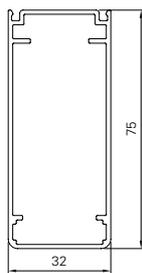
| | 280 – 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 268 | 278 | 287 | 297 | 307 | 315 | 326 | 334 | 345 |
| 900 | 284 | 294 | 305 | 315 | 326 | 336 | 347 | 356 | 368 |
| 1000 | 301 | 312 | 323 | 334 | 346 | 356 | 368 | 378 | 391 |
| 1100 | 317 | 329 | 341 | 353 | 366 | 377 | 389 | 402 | 413 |
| 1200 | 332 | 346 | 359 | 372 | 385 | 397 | 411 | 424 | 437 |
| 1300 | 343 | 357 | 371 | 386 | 398 | 413 | 427 | 441 | 454 |
| 1400 | 354 | 369 | 384 | 398 | 413 | 428 | 444 | 458 | 472 |
| 1500 | 365 | 380 | 396 | 412 | 428 | 444 | 459 | 475 | 490 |
| 1600 | 375 | 392 | 409 | 426 | 443 | 458 | 475 | 491 | 508 |
| 1700 | 391 | 409 | 427 | 444 | 461 | 479 | 497 | 514 | 532 |
| 1800 | 408 | 426 | 445 | 462 | 481 | 499 | 518 | 536 | 555 |
| 1900 | 424 | 443 | 462 | 481 | 500 | 520 | 539 | 558 | 578 |
| 2000 | 440 | 460 | 480 | 500 | 520 | 540 | 560 | 580 | 600 |
| 2100 | 450 | 471 | 493 | 514 | 535 | 556 | 577 | 597 | 618 |
| 2200 | 461 | 483 | 504 | 527 | 550 | 571 | 593 | 615 | 636 |
| 2300 | 471 | 495 | 517 | 540 | 562 | 586 | 608 | 632 | 654 |
| 2400 | 482 | 506 | 531 | 554 | 577 | 601 | 625 | 648 | 671 |
| 2500 | 494 | 518 | 542 | 567 | 592 | 616 | 641 | 665 | 689 |

Flügelbreite in mm
Sash width in mm

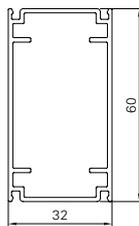
Flügelhöhe in mm
Sash height in mm



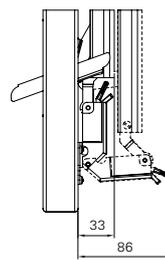
JVH



R75



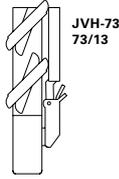
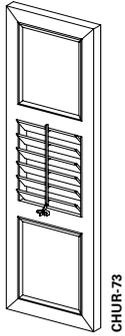
Q60



Verstellhebel Adjustment lever

| | | | |
|---------------------------------|-------|---------|---------------------|
| Versetzen der Schubstange | 10021 | 16,46 € | Push rod adjustment |
| Version Easyflex: ohne Aufpreis | | | No surcharge |

CHUR-73



| | 280-400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 237 | 242 | 249 | 255 | 262 | 267 | 273 | 280 | 285 |
| 900 | 249 | 256 | 263 | 269 | 277 | 283 | 289 | 297 | 302 |
| 1000 | 262 | 269 | 277 | 283 | 291 | 298 | 305 | 312 | 320 |
| 1100 | 273 | 282 | 289 | 298 | 305 | 313 | 322 | 329 | 338 |
| 1200 | 286 | 296 | 303 | 312 | 320 | 328 | 338 | 345 | 354 |
| 1300 | 294 | 303 | 312 | 322 | 329 | 339 | 347 | 356 | 366 |
| 1400 | 301 | 311 | 320 | 329 | 340 | 348 | 359 | 368 | 376 |
| 1500 | 309 | 319 | 328 | 339 | 348 | 359 | 369 | 378 | 389 |
| 1600 | 315 | 326 | 338 | 347 | 359 | 369 | 378 | 390 | 401 |
| 1700 | 328 | 340 | 351 | 362 | 373 | 385 | 396 | 406 | 417 |
| 1800 | 341 | 353 | 364 | 375 | 388 | 399 | 412 | 423 | 434 |
| 1900 | 353 | 366 | 377 | 390 | 403 | 415 | 428 | 440 | 451 |
| 2000 | 366 | 378 | 391 | 405 | 417 | 430 | 444 | 456 | 470 |
| 2100 | 373 | 387 | 401 | 413 | 427 | 440 | 453 | 467 | 480 |
| 2200 | 381 | 393 | 408 | 422 | 436 | 450 | 465 | 478 | 492 |
| 2300 | 387 | 402 | 416 | 431 | 446 | 460 | 475 | 490 | 504 |
| 2400 | 394 | 409 | 426 | 440 | 455 | 471 | 486 | 501 | 516 |
| 2500 | 402 | 417 | 433 | 449 | 465 | 480 | 496 | 512 | 527 |

Flügelbreite in mm
Sash width in mm

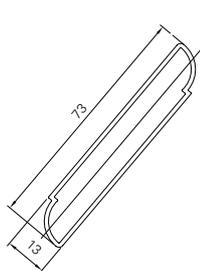
Flügelhöhe in mm
Sash height in mm



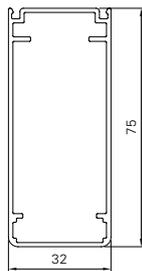
| | 280-400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 273 | 282 | 292 | 301 | 311 | 320 | 330 | 340 | 349 |
| 900 | 288 | 299 | 310 | 320 | 330 | 342 | 352 | 362 | 373 |
| 1000 | 305 | 317 | 328 | 340 | 351 | 362 | 373 | 385 | 397 |
| 1100 | 322 | 333 | 346 | 359 | 371 | 384 | 394 | 407 | 419 |
| 1200 | 338 | 351 | 364 | 377 | 390 | 404 | 417 | 430 | 444 |
| 1300 | 348 | 363 | 376 | 391 | 405 | 419 | 433 | 448 | 461 |
| 1400 | 360 | 374 | 389 | 405 | 419 | 434 | 450 | 465 | 479 |
| 1500 | 370 | 386 | 403 | 418 | 434 | 450 | 466 | 481 | 497 |
| 1600 | 382 | 398 | 415 | 432 | 449 | 465 | 481 | 498 | 516 |
| 1700 | 397 | 415 | 433 | 450 | 468 | 487 | 504 | 521 | 539 |
| 1800 | 414 | 432 | 451 | 470 | 489 | 507 | 525 | 544 | 563 |
| 1900 | 430 | 449 | 470 | 489 | 508 | 528 | 548 | 566 | 586 |
| 2000 | 447 | 467 | 488 | 508 | 528 | 549 | 569 | 590 | 609 |
| 2100 | 457 | 478 | 500 | 521 | 542 | 564 | 585 | 606 | 627 |
| 2200 | 468 | 491 | 512 | 535 | 557 | 579 | 601 | 624 | 645 |
| 2300 | 478 | 502 | 524 | 549 | 571 | 595 | 617 | 641 | 664 |
| 2400 | 490 | 513 | 538 | 562 | 585 | 611 | 635 | 658 | 682 |
| 2500 | 501 | 525 | 551 | 576 | 600 | 625 | 650 | 675 | 700 |

Flügelbreite in mm
Sash width in mm

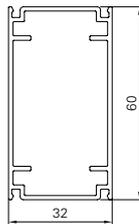
Flügelhöhe in mm
Sash height in mm



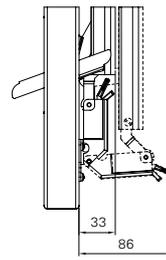
JVH-L73-A



R75



Q60



Verstellhebel Adjustment lever

| | | | |
|---------------------------------|-------|---------|---------------------|
| Versetzen der Schubstange | 10021 | 16,46 € | Push rod adjustment |
| Version Easyflex: ohne Aufpreis | | | No surcharge |

| | | | | |
|------------|-----------------|----------------------------|------------------------------|-----|
| Klappläden | Window shutters | Anschlagschemen | Stop schemes | 9 |
| | | Beschlagpakete | Hardware packages | 13 |
| | | Feststehende Lamellen | Fixed slats | 21 |
| | | Bewegliche Lamellen | Moving slats | 37 |
| | | Geschlossene Modelle | Closed models | 51 |
| | | Isolierende Modelle | Insulating models | 73 |
| | | Sonderformen und Optionen | Special shapes and options | 85 |
| | | Vormontage | Pre-installation | 99 |
| | | Beschläge | Fittings | 109 |
| | | Zubehör | Accessories | 119 |
| | | Montagerahmen / Zargen | Installation frames / frames | 139 |
| | | Motorisierung und Antriebe | Motorisation and drives | 165 |
| | | Diverses | Miscellaneous | 171 |

A

B

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J

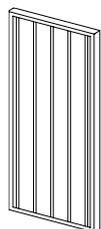
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L

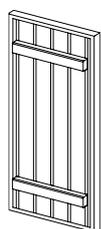
M

INFO
Technische Details siehe www.ehret.com/produkte
Technical details, see www.ehret.com/en/products

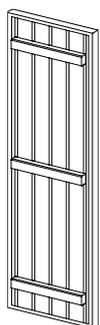
E



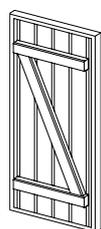
DIJON 54



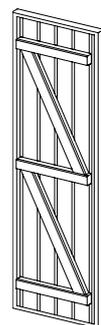
DIJON-B 55



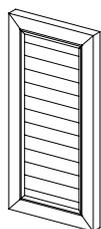
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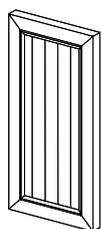
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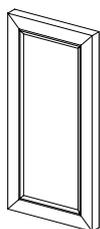
DIJON-ZZ 56



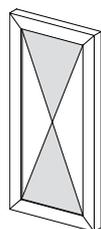
GE 57



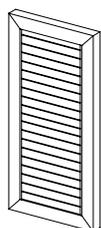
GE-SE 57



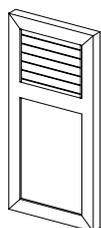
SR 58



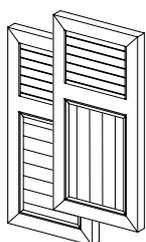
AMSTERDAM 59



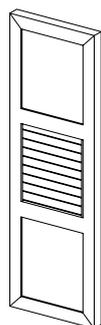
TZ 60



TZ-ROM 62



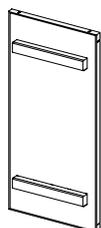
TZ-GE(-SE) 63



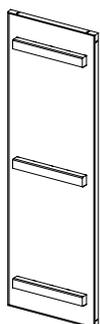
TZ-PISA 64



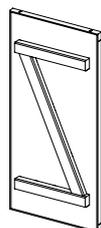
ACO 65



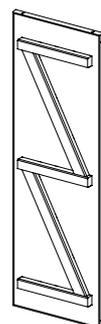
ACO-B 66



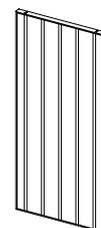
ACO-BB 66



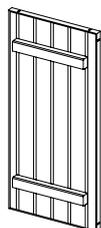
ACO-Z 67



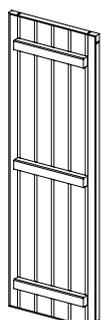
ACO-ZZ 67



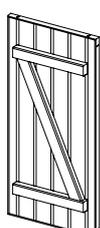
ACO-RS 68



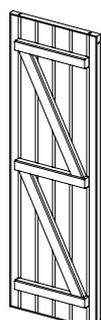
ACO-RS-B 69



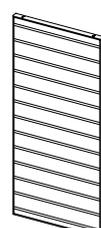
ACO-RS-BB 69



ACO-RS-Z 70

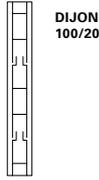
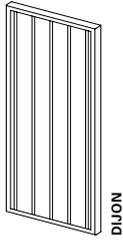


ACO-RS-ZZ 70



ACO-RW 71

DIJON



| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 105 | 111 | 117 | 122 | 129 | 135 | 141 | 147 | 152 |
| 900 | 113 | 119 | 127 | 133 | 140 | 147 | 154 | 160 | 166 |
| 1000 | 121 | 129 | 136 | 144 | 151 | 158 | 166 | 173 | 181 |
| 1100 | 130 | 137 | 146 | 154 | 162 | 170 | 177 | 187 | 194 |
| 1200 | 137 | 147 | 155 | 164 | 173 | 182 | 190 | 200 | 208 |
| 1300 | 145 | 154 | 163 | 173 | 182 | 191 | 202 | 210 | 220 |
| 1400 | 151 | 162 | 172 | 181 | 191 | 202 | 211 | 222 | 232 |
| 1500 | 158 | 168 | 179 | 190 | 202 | 211 | 223 | 233 | 244 |
| 1600 | 164 | 176 | 188 | 200 | 210 | 222 | 233 | 244 | 256 |
| 1700 | 173 | 185 | 196 | 209 | 222 | 233 | 246 | 258 | 270 |
| 1800 | 181 | 193 | 207 | 220 | 232 | 246 | 258 | 270 | 284 |
| 1900 | 189 | 203 | 216 | 229 | 243 | 257 | 270 | 284 | 298 |
| 2000 | 196 | 211 | 225 | 240 | 254 | 268 | 283 | 297 | 311 |
| 2100 | 204 | 219 | 233 | 249 | 264 | 279 | 293 | 308 | 324 |
| 2200 | 210 | 226 | 241 | 257 | 272 | 288 | 304 | 319 | 335 |
| 2300 | 217 | 233 | 250 | 266 | 282 | 299 | 315 | 332 | 347 |
| 2400 | 224 | 241 | 258 | 275 | 292 | 309 | 326 | 343 | 360 |
| 2500 | 229 | 248 | 266 | 283 | 301 | 318 | 336 | 355 | 372 |

Flügelbreite in mm
Sash width in mm

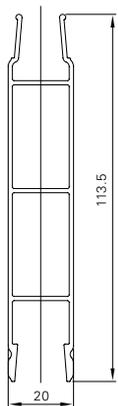
Flügelhöhe in mm
Sash height in mm



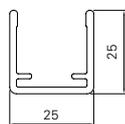
| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 145 | 154 | 163 | 172 | 181 | 190 | 200 | 208 | 216 |
| 900 | 157 | 166 | 175 | 185 | 193 | 203 | 211 | 221 | 229 |
| 1000 | 168 | 177 | 188 | 196 | 206 | 214 | 224 | 233 | 242 |
| 1100 | 181 | 190 | 200 | 208 | 217 | 227 | 236 | 246 | 254 |
| 1200 | 192 | 203 | 211 | 221 | 229 | 239 | 249 | 258 | 267 |
| 1300 | 203 | 212 | 222 | 231 | 240 | 250 | 259 | 268 | 279 |
| 1400 | 212 | 223 | 232 | 241 | 251 | 261 | 269 | 280 | 288 |
| 1500 | 223 | 233 | 242 | 251 | 262 | 270 | 281 | 289 | 300 |
| 1600 | 233 | 243 | 252 | 263 | 271 | 282 | 290 | 301 | 310 |
| 1700 | 244 | 254 | 265 | 273 | 284 | 295 | 303 | 314 | 323 |
| 1800 | 257 | 267 | 277 | 286 | 297 | 305 | 316 | 326 | 336 |
| 1900 | 269 | 279 | 288 | 299 | 309 | 318 | 328 | 339 | 348 |
| 2000 | 281 | 290 | 301 | 311 | 320 | 330 | 341 | 351 | 361 |
| 2100 | 290 | 301 | 311 | 321 | 332 | 342 | 353 | 361 | 372 |
| 2200 | 301 | 311 | 321 | 332 | 342 | 353 | 362 | 373 | 382 |
| 2300 | 311 | 321 | 332 | 342 | 353 | 362 | 373 | 382 | 393 |
| 2400 | 321 | 332 | 342 | 353 | 362 | 373 | 384 | 394 | 404 |
| 2500 | 330 | 342 | 353 | 362 | 373 | 384 | 394 | 404 | 415 |

Flügelbreite in mm
Sash width in mm

Flügelhöhe in mm
Sash height in mm

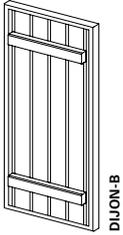


DL

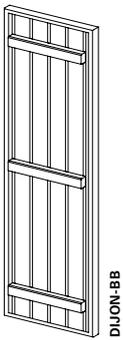


R25

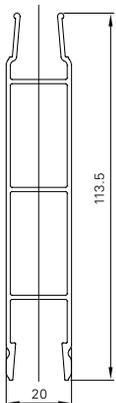
DIJON-B DIJON-BB



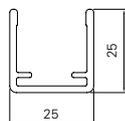
DIJON
100/20



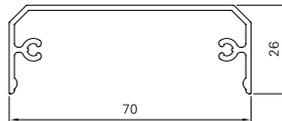
DIJON
100/20



DL



R25



LQ

| | 280- 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 140 | 147 | 155 | 162 | 170 | 176 | 185 | 191 | 200 |
| 900 | 148 | 156 | 165 | 173 | 181 | 189 | 196 | 205 | 212 |
| 1000 | 157 | 166 | 175 | 183 | 192 | 202 | 209 | 219 | 227 |
| 1100 | 166 | 175 | 185 | 194 | 204 | 212 | 223 | 232 | 241 |
| 1200 | 175 | 186 | 194 | 205 | 214 | 225 | 235 | 246 | 256 |
| 1300 | 182 | 192 | 203 | 213 | 224 | 235 | 246 | 257 | 267 |
| 1400 | 188 | 200 | 210 | 222 | 233 | 244 | 256 | 267 | 279 |
| 1500 | 194 | 207 | 219 | 231 | 243 | 254 | 267 | 279 | 290 |
| 1600 | 202 | 213 | 226 | 240 | 252 | 265 | 278 | 289 | 302 |
| 1700 | 210 | 224 | 236 | 250 | 264 | 278 | 289 | 303 | 317 |
| 1800 | 220 | 233 | 247 | 262 | 275 | 288 | 303 | 317 | 330 |
| 1900 | 227 | 242 | 257 | 271 | 286 | 301 | 316 | 330 | 345 |
| 2000 | 236 | 252 | 267 | 283 | 298 | 314 | 328 | 344 | 359 |
| 2100 | 243 | 259 | 275 | 290 | 307 | 323 | 340 | 356 | 372 |
| 2200 | 250 | 267 | 283 | 300 | 317 | 333 | 349 | 366 | 382 |
| 2300 | 257 | 273 | 290 | 308 | 326 | 343 | 360 | 378 | 395 |
| 2400 | 264 | 281 | 299 | 317 | 335 | 354 | 372 | 389 | 406 |
| 2500 | 269 | 288 | 307 | 326 | 344 | 362 | 381 | 400 | 419 |

└ Flügelhöhe in mm
Sash height in mm

└ Flügelbreite in mm
Sash width in mm



| | 280- 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 183 | 193 | 204 | 213 | 224 | 234 | 244 | 254 | 265 |
| 900 | 194 | 206 | 217 | 228 | 240 | 250 | 262 | 272 | 284 |
| 1000 | 207 | 220 | 231 | 243 | 254 | 267 | 280 | 290 | 303 |
| 1100 | 220 | 232 | 246 | 258 | 270 | 284 | 297 | 310 | 323 |
| 1200 | 231 | 246 | 259 | 272 | 286 | 300 | 315 | 328 | 342 |
| 1300 | 241 | 256 | 270 | 285 | 300 | 315 | 329 | 344 | 359 |
| 1400 | 250 | 266 | 282 | 298 | 314 | 328 | 344 | 360 | 376 |
| 1500 | 261 | 277 | 293 | 310 | 326 | 343 | 359 | 376 | 393 |
| 1600 | 269 | 287 | 304 | 321 | 340 | 357 | 375 | 392 | 409 |
| 1700 | 282 | 300 | 318 | 338 | 356 | 374 | 392 | 410 | 428 |
| 1800 | 295 | 314 | 333 | 353 | 372 | 391 | 410 | 430 | 449 |
| 1900 | 305 | 326 | 346 | 366 | 386 | 406 | 427 | 448 | 468 |
| 2000 | 318 | 339 | 360 | 381 | 402 | 423 | 443 | 466 | 487 |
| 2100 | 327 | 349 | 372 | 394 | 416 | 437 | 460 | 481 | 503 |
| 2200 | 338 | 360 | 382 | 405 | 430 | 452 | 475 | 497 | 519 |
| 2300 | 346 | 371 | 394 | 418 | 441 | 466 | 489 | 513 | 537 |
| 2400 | 357 | 381 | 405 | 431 | 455 | 480 | 506 | 529 | 554 |
| 2500 | 365 | 392 | 417 | 442 | 469 | 494 | 519 | 545 | 571 |

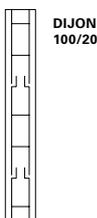
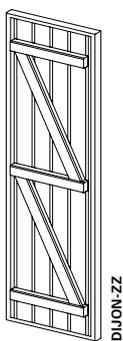
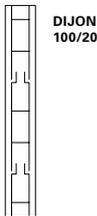
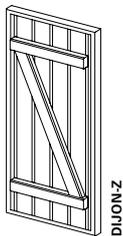
└ Flügelhöhe in mm
Sash height in mm

└ Flügelbreite in mm
Sash width in mm

| | | | | |
|-----------------|----------------------------------|------|--------|---------------------------------|
| DIJON-BB | € + : Zusätzlicher Balkenaufsatz | 1005 | 34,45€ | € + : Additional bar attachment |
|-----------------|----------------------------------|------|--------|---------------------------------|

DIJON-Z

DIJON-ZZ



| | 280-400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 149 | 157 | 165 | 173 | 181 | 189 | 196 | 205 | 212 |
| 900 | 159 | 168 | 176 | 186 | 194 | 203 | 211 | 220 | 228 |
| 1000 | 170 | 179 | 189 | 197 | 207 | 216 | 225 | 235 | 244 |
| 1100 | 179 | 190 | 201 | 210 | 221 | 229 | 240 | 250 | 261 |
| 1200 | 191 | 202 | 211 | 223 | 233 | 243 | 254 | 265 | 275 |
| 1300 | 200 | 210 | 222 | 232 | 243 | 254 | 266 | 278 | 288 |
| 1400 | 207 | 219 | 231 | 242 | 254 | 266 | 279 | 289 | 302 |
| 1500 | 214 | 227 | 240 | 252 | 265 | 278 | 289 | 303 | 316 |
| 1600 | 223 | 236 | 249 | 263 | 277 | 288 | 302 | 316 | 328 |
| 1700 | 233 | 247 | 262 | 275 | 288 | 302 | 317 | 330 | 344 |
| 1800 | 243 | 258 | 272 | 287 | 301 | 316 | 330 | 345 | 360 |
| 1900 | 253 | 269 | 284 | 299 | 315 | 329 | 345 | 360 | 376 |
| 2000 | 264 | 280 | 296 | 311 | 327 | 343 | 359 | 375 | 391 |
| 2100 | 271 | 288 | 305 | 321 | 339 | 355 | 372 | 389 | 404 |
| 2200 | 280 | 298 | 315 | 332 | 348 | 365 | 384 | 401 | 418 |
| 2300 | 288 | 305 | 324 | 342 | 360 | 377 | 395 | 414 | 432 |
| 2400 | 297 | 315 | 333 | 353 | 371 | 389 | 408 | 426 | 443 |
| 2500 | 304 | 324 | 343 | 361 | 380 | 400 | 419 | 438 | 457 |

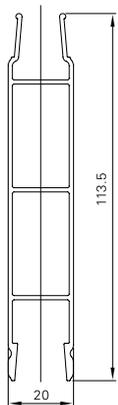
Flügelbreite in mm
Sash width in mm

Flügelhöhe in mm
Sash height in mm

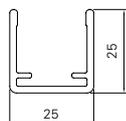
| | 280-400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 203 | 213 | 224 | 235 | 247 | 258 | 269 | 280 | 290 |
| 900 | 217 | 228 | 241 | 252 | 265 | 278 | 288 | 301 | 313 |
| 1000 | 231 | 244 | 257 | 270 | 283 | 297 | 309 | 321 | 335 |
| 1100 | 246 | 261 | 273 | 287 | 301 | 316 | 329 | 343 | 357 |
| 1200 | 261 | 275 | 289 | 304 | 319 | 334 | 348 | 364 | 379 |
| 1300 | 271 | 287 | 303 | 319 | 335 | 351 | 366 | 382 | 399 |
| 1400 | 284 | 300 | 317 | 334 | 351 | 366 | 384 | 401 | 418 |
| 1500 | 296 | 314 | 330 | 348 | 365 | 384 | 401 | 419 | 437 |
| 1600 | 307 | 326 | 344 | 363 | 381 | 400 | 419 | 437 | 455 |
| 1700 | 321 | 341 | 361 | 380 | 400 | 419 | 438 | 458 | 478 |
| 1800 | 336 | 357 | 377 | 397 | 418 | 438 | 458 | 479 | 499 |
| 1900 | 351 | 373 | 394 | 415 | 436 | 457 | 479 | 500 | 523 |
| 2000 | 365 | 387 | 410 | 433 | 454 | 477 | 499 | 522 | 544 |
| 2100 | 377 | 401 | 423 | 448 | 470 | 493 | 516 | 540 | 563 |
| 2200 | 389 | 414 | 437 | 461 | 486 | 510 | 533 | 559 | 583 |
| 2300 | 401 | 426 | 451 | 476 | 500 | 526 | 552 | 576 | 602 |
| 2400 | 412 | 438 | 465 | 491 | 516 | 543 | 569 | 594 | 621 |
| 2500 | 423 | 451 | 478 | 506 | 532 | 559 | 586 | 613 | 640 |

Flügelbreite in mm
Sash width in mm

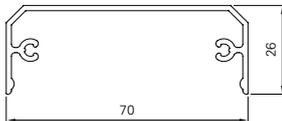
Flügelhöhe in mm
Sash height in mm



DL



R25



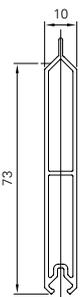
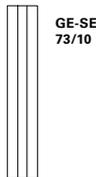
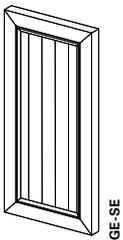
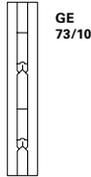
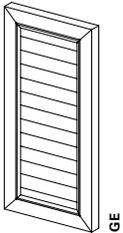
LQ



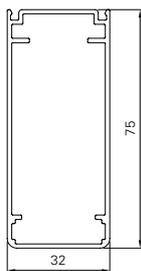
LZ

| | | | |
|----------------------------------|------|---------|---------------------------------|
| DIJON-ZZ | | | |
| € + : Zusätzlicher Balkenaufsatz | 1005 | 34,45 € | € + : Additional bar attachment |

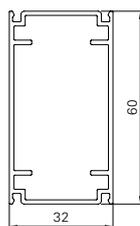
GE GE-SE



GE



R75



Q60

| | 280–400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 149 | 155 | 161 | 167 | 174 | 180 | 185 | 192 | 197 |
| 900 | 159 | 166 | 172 | 179 | 186 | 193 | 199 | 205 | 213 |
| 1000 | 169 | 177 | 184 | 191 | 198 | 205 | 214 | 220 | 228 |
| 1100 | 179 | 187 | 195 | 202 | 212 | 219 | 226 | 235 | 242 |
| 1200 | 188 | 197 | 205 | 215 | 223 | 232 | 240 | 250 | 258 |
| 1300 | 196 | 205 | 215 | 224 | 233 | 242 | 252 | 261 | 270 |
| 1400 | 203 | 214 | 223 | 233 | 242 | 253 | 262 | 273 | 283 |
| 1500 | 212 | 221 | 232 | 242 | 253 | 264 | 274 | 284 | 295 |
| 1600 | 218 | 230 | 240 | 252 | 262 | 274 | 285 | 296 | 307 |
| 1700 | 228 | 239 | 252 | 264 | 275 | 287 | 300 | 310 | 322 |
| 1800 | 238 | 251 | 264 | 275 | 287 | 301 | 312 | 325 | 338 |
| 1900 | 249 | 261 | 274 | 287 | 301 | 313 | 326 | 340 | 352 |
| 2000 | 258 | 272 | 285 | 300 | 312 | 326 | 341 | 354 | 367 |
| 2100 | 266 | 279 | 294 | 308 | 323 | 338 | 351 | 365 | 380 |
| 2200 | 273 | 287 | 303 | 318 | 333 | 347 | 362 | 378 | 393 |
| 2300 | 323 | 340 | 355 | 370 | 387 | 402 | 418 | 433 | 448 |
| 2400 | 331 | 348 | 364 | 381 | 396 | 412 | 428 | 444 | 461 |
| 2500 | 339 | 355 | 372 | 389 | 406 | 423 | 440 | 457 | 474 |

Flügelhöhe in mm
Sash height in mm

Flügelbreite in mm
Sash width in mm

Preis inkl. Querfriess
Price incl. horizontal cross-panel

| | 280–400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 182 | 191 | 199 | 210 | 218 | 228 | 236 | 245 | 255 |
| 900 | 195 | 205 | 216 | 225 | 236 | 246 | 256 | 266 | 276 |
| 1000 | 210 | 220 | 231 | 242 | 254 | 265 | 275 | 286 | 297 |
| 1100 | 223 | 235 | 248 | 259 | 271 | 283 | 295 | 307 | 319 |
| 1200 | 236 | 250 | 262 | 275 | 289 | 302 | 314 | 327 | 341 |
| 1300 | 249 | 262 | 275 | 290 | 304 | 318 | 332 | 346 | 359 |
| 1400 | 259 | 274 | 289 | 304 | 319 | 333 | 348 | 363 | 379 |
| 1500 | 270 | 286 | 302 | 318 | 334 | 349 | 365 | 381 | 397 |
| 1600 | 280 | 298 | 314 | 332 | 348 | 365 | 382 | 399 | 416 |
| 1700 | 295 | 312 | 331 | 348 | 366 | 384 | 401 | 420 | 437 |
| 1800 | 309 | 327 | 346 | 365 | 384 | 402 | 421 | 440 | 459 |
| 1900 | 322 | 343 | 362 | 382 | 401 | 421 | 440 | 460 | 481 |
| 2000 | 337 | 357 | 378 | 398 | 419 | 439 | 460 | 481 | 502 |
| 2100 | 347 | 368 | 391 | 413 | 434 | 456 | 477 | 500 | 521 |
| 2200 | 359 | 381 | 403 | 427 | 449 | 472 | 494 | 517 | 540 |
| 2300 | 413 | 437 | 461 | 484 | 509 | 531 | 555 | 580 | 602 |
| 2400 | 425 | 449 | 474 | 499 | 522 | 548 | 571 | 596 | 622 |
| 2500 | 436 | 462 | 486 | 513 | 538 | 563 | 589 | 613 | 640 |

Flügelhöhe in mm
Sash height in mm

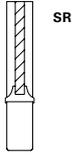
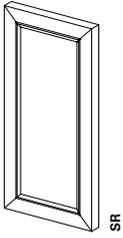
Flügelbreite in mm
Sash width in mm

Preis inkl. Querfriess
Price incl. horizontal cross-panel

| | | | | |
|---------------------------------|-------|--------------|---------|------------------------|
| Querfriess | 60 mm | 1002 | 43,45 € | Horizontal cross-panel |
| Längsfriess | 60 mm | 2002 | 79,54 € | Vertical cross-panel |
| Version Easyflex: ohne Aufpreis | | No surcharge | | |



SR



| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 132 | 138 | 143 | 148 | 152 | 158 | 163 | 169 | 175 |
| 900 | 141 | 147 | 152 | 158 | 164 | 170 | 176 | 182 | 187 |
| 1000 | 149 | 156 | 162 | 169 | 176 | 182 | 188 | 195 | 200 |
| 1100 | 159 | 166 | 172 | 180 | 186 | 194 | 200 | 207 | 215 |
| 1200 | 168 | 176 | 183 | 191 | 197 | 204 | 213 | 220 | 228 |
| 1300 | 175 | 183 | 191 | 198 | 207 | 215 | 222 | 230 | 238 |
| 1400 | 181 | 189 | 198 | 207 | 216 | 223 | 232 | 240 | 250 |
| 1500 | 188 | 197 | 205 | 216 | 224 | 233 | 241 | 252 | 260 |
| 1600 | 195 | 204 | 214 | 223 | 233 | 242 | 252 | 261 | 271 |
| 1700 | 203 | 214 | 224 | 234 | 243 | 254 | 265 | 274 | 284 |
| 1800 | 214 | 223 | 234 | 245 | 255 | 266 | 276 | 287 | 297 |
| 1900 | 222 | 233 | 243 | 255 | 267 | 277 | 289 | 300 | 310 |
| 2000 | 231 | 242 | 254 | 266 | 277 | 290 | 301 | 312 | 324 |
| 2100 | 237 | 250 | 262 | 274 | 286 | 298 | 310 | 323 | 335 |
| 2200 | 245 | 257 | 270 | 282 | 295 | 308 | 320 | 333 | 346 |
| 2300 | 296 | 309 | 321 | 335 | 348 | 360 | 375 | 388 | 401 |
| 2400 | 302 | 316 | 329 | 344 | 356 | 370 | 385 | 398 | 411 |
| 2500 | 309 | 322 | 337 | 351 | 366 | 381 | 394 | 408 | 423 |

Flügelbreite in mm
Sash width in mm

Preis inkl. Querfries
Price incl. horizontal cross-panel

Flügelhöhe in mm
Sash height in mm

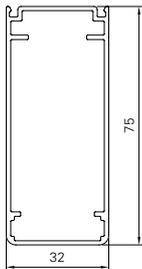


| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 162 | 171 | 180 | 187 | 196 | 204 | 214 | 222 | 231 |
| 900 | 175 | 184 | 194 | 202 | 213 | 222 | 231 | 240 | 251 |
| 1000 | 187 | 198 | 208 | 218 | 229 | 238 | 250 | 259 | 270 |
| 1100 | 200 | 212 | 222 | 234 | 245 | 256 | 267 | 277 | 290 |
| 1200 | 213 | 225 | 237 | 250 | 261 | 273 | 285 | 297 | 309 |
| 1300 | 223 | 236 | 250 | 262 | 274 | 287 | 301 | 313 | 326 |
| 1400 | 234 | 248 | 261 | 275 | 289 | 303 | 315 | 330 | 344 |
| 1500 | 243 | 259 | 273 | 287 | 303 | 316 | 332 | 346 | 361 |
| 1600 | 255 | 270 | 285 | 301 | 316 | 332 | 347 | 362 | 379 |
| 1700 | 268 | 284 | 301 | 316 | 333 | 349 | 365 | 382 | 398 |
| 1800 | 279 | 297 | 314 | 332 | 348 | 365 | 383 | 400 | 418 |
| 1900 | 293 | 310 | 328 | 347 | 364 | 383 | 400 | 419 | 437 |
| 2000 | 306 | 324 | 343 | 362 | 381 | 399 | 419 | 437 | 457 |
| 2100 | 315 | 335 | 355 | 376 | 395 | 415 | 434 | 454 | 474 |
| 2200 | 326 | 347 | 367 | 388 | 409 | 430 | 450 | 471 | 490 |
| 2300 | 381 | 402 | 424 | 445 | 466 | 487 | 510 | 531 | 552 |
| 2400 | 391 | 412 | 436 | 459 | 480 | 503 | 525 | 548 | 569 |
| 2500 | 401 | 425 | 447 | 472 | 494 | 517 | 541 | 564 | 587 |

Flügelbreite in mm
Sash width in mm

Preis inkl. Querfries
Price incl. horizontal cross-panel

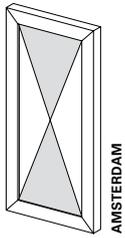
Flügelhöhe in mm
Sash height in mm



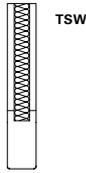
R75

| | | | | |
|---------------------------------|-------|------|--------------|------------------------|
| SR | | | | |
| Querfries | 60 mm | 1002 | 43,45 € | Horizontal cross-panel |
| Längsfries | 60 mm | 2002 | 79,54 € | Vertical cross-panel |
| Version Easyflex: ohne Aufpreis | | | No surcharge | |

AMSTERDAM



AMSTERDAM



TSW

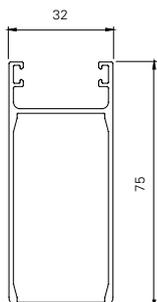


| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 237 | 245 | 251 | 258 | 264 | 270 | 278 | 284 | 291 |
| 900 | 250 | 258 | 265 | 272 | 280 | 288 | 294 | 301 | 309 |
| 1000 | 263 | 270 | 279 | 288 | 296 | 304 | 311 | 320 | 327 |
| 1100 | 275 | 284 | 293 | 301 | 310 | 320 | 328 | 338 | 347 |
| 1200 | 288 | 297 | 307 | 317 | 326 | 336 | 346 | 355 | 365 |
| 1300 | 294 | 305 | 317 | 326 | 337 | 347 | 357 | 367 | 379 |
| 1400 | 301 | 312 | 324 | 336 | 347 | 358 | 369 | 380 | 392 |
| 1500 | 309 | 321 | 334 | 344 | 357 | 368 | 381 | 393 | 405 |
| 1600 | 317 | 328 | 341 | 355 | 367 | 380 | 393 | 405 | 419 |
| 1700 | 328 | 342 | 356 | 369 | 382 | 396 | 410 | 423 | 437 |
| 1800 | 341 | 355 | 369 | 383 | 398 | 413 | 426 | 441 | 455 |
| 1900 | 354 | 368 | 383 | 398 | 414 | 429 | 443 | 458 | 475 |
| 2000 | 365 | 381 | 397 | 413 | 429 | 444 | 461 | 477 | 493 |
| 2100 | 374 | 389 | 406 | 423 | 439 | 456 | 473 | 490 | 507 |
| 2200 | 380 | 397 | 415 | 433 | 450 | 468 | 485 | 501 | 519 |
| 2300 | 386 | 405 | 423 | 441 | 460 | 478 | 496 | 514 | 533 |
| 2400 | 395 | 413 | 433 | 452 | 470 | 490 | 509 | 527 | 547 |
| 2500 | 401 | 421 | 440 | 461 | 480 | 500 | 520 | 539 | 559 |

Flügelbreite in mm
Sash width in mm

Flügelhöhe in mm
Sash height in mm

E

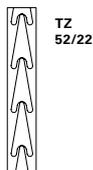
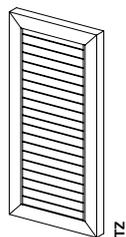


TZR75

Wichtiger Hinweis
Preis für beidseitige Beschichtung

Important note
Price for double-sided coating

TZ

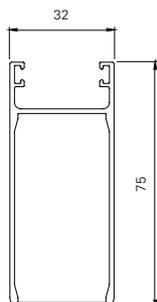
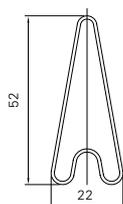


| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 800 | 147 | 152 | 159 | 164 | 170 | 177 | 182 | 187 | 193 | Flügelbreite in mm Sash width in mm |
| 900 | 157 | 163 | 170 | 177 | 183 | 189 | 196 | 202 | 210 | |
| 1000 | 166 | 174 | 181 | 187 | 195 | 202 | 210 | 217 | 224 | |
| 1100 | 176 | 183 | 192 | 199 | 207 | 216 | 223 | 231 | 239 | |
| 1200 | 185 | 194 | 202 | 212 | 220 | 229 | 237 | 246 | 255 | |
| 1300 | 191 | 200 | 211 | 220 | 229 | 238 | 249 | 258 | 267 | |
| 1400 | 197 | 208 | 218 | 228 | 238 | 249 | 259 | 269 | 279 | |
| 1500 | 203 | 215 | 225 | 236 | 249 | 259 | 270 | 280 | 292 | |
| 1600 | 211 | 222 | 234 | 245 | 257 | 269 | 280 | 293 | 304 | |
| 1700 | 219 | 232 | 243 | 257 | 269 | 282 | 295 | 307 | 320 | |
| 1800 | 229 | 241 | 255 | 269 | 282 | 295 | 308 | 321 | 335 | |
| 1900 | 238 | 253 | 266 | 279 | 294 | 308 | 322 | 337 | 350 | |
| 2000 | 283 | 297 | 311 | 327 | 342 | 356 | 372 | 385 | 400 | |
| 2100 | 289 | 304 | 320 | 336 | 350 | 366 | 382 | 397 | 413 | |
| 2200 | 295 | 311 | 328 | 344 | 360 | 377 | 393 | 410 | 426 | |
| 2300 | 302 | 318 | 336 | 353 | 369 | 386 | 403 | 420 | 437 | |
| 2400 | 308 | 326 | 343 | 361 | 379 | 396 | 415 | 432 | 450 | |
| 2500 | 313 | 332 | 350 | 370 | 389 | 408 | 426 | 444 | 463 | |

Flügelhöhe in mm
Sash height in mm

| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 800 | 176 | 184 | 193 | 202 | 212 | 220 | 229 | 237 | 246 | Flügelbreite in mm Sash width in mm |
| 900 | 188 | 198 | 208 | 219 | 229 | 238 | 249 | 259 | 269 | |
| 1000 | 200 | 213 | 223 | 234 | 246 | 257 | 269 | 279 | 291 | |
| 1100 | 214 | 225 | 238 | 251 | 264 | 275 | 289 | 301 | 313 | |
| 1200 | 226 | 239 | 254 | 267 | 280 | 295 | 308 | 322 | 335 | |
| 1300 | 235 | 251 | 266 | 279 | 295 | 310 | 325 | 340 | 355 | |
| 1400 | 245 | 261 | 277 | 294 | 309 | 325 | 342 | 358 | 375 | |
| 1500 | 255 | 272 | 290 | 307 | 324 | 342 | 358 | 376 | 393 | |
| 1600 | 265 | 283 | 302 | 320 | 339 | 357 | 376 | 394 | 413 | |
| 1700 | 276 | 297 | 316 | 337 | 356 | 376 | 395 | 415 | 434 | |
| 1800 | 290 | 310 | 331 | 352 | 374 | 394 | 415 | 436 | 457 | |
| 1900 | 303 | 324 | 346 | 368 | 391 | 413 | 435 | 457 | 478 | |
| 2000 | 349 | 374 | 396 | 420 | 443 | 466 | 490 | 512 | 537 | |
| 2100 | 359 | 384 | 409 | 433 | 457 | 482 | 506 | 531 | 555 | |
| 2200 | 369 | 395 | 420 | 447 | 471 | 498 | 523 | 548 | 575 | |
| 2300 | 379 | 404 | 432 | 459 | 486 | 513 | 540 | 566 | 594 | |
| 2400 | 389 | 416 | 444 | 472 | 501 | 529 | 557 | 585 | 613 | |
| 2500 | 397 | 427 | 456 | 485 | 514 | 544 | 574 | 602 | 632 | |

Flügelhöhe in mm
Sash height in mm



TZ

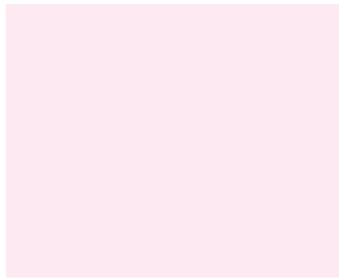
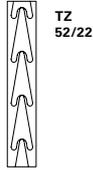
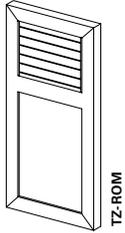
TZR75

| | | | | |
|------------|-------|------|---------|------------------------|
| Querfries | 60 mm | 1001 | 34,23 € | Horizontal cross-panel |
| Längsfries | 60 mm | 2001 | 65,28 € | Vertical cross-panel |



E

TZ-ROM



| | 280-400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 153 | 159 | 164 | 170 | 176 | 180 | 185 | 191 | 196 |
| 900 | 163 | 169 | 175 | 181 | 186 | 192 | 198 | 203 | 210 |
| 1000 | 172 | 179 | 185 | 192 | 197 | 203 | 211 | 217 | 222 |
| 1100 | 182 | 188 | 195 | 201 | 210 | 216 | 222 | 229 | 236 |
| 1200 | 191 | 198 | 205 | 213 | 220 | 228 | 234 | 241 | 250 |
| 1300 | 197 | 204 | 213 | 220 | 229 | 236 | 243 | 252 | 259 |
| 1400 | 203 | 212 | 220 | 229 | 236 | 245 | 253 | 261 | 270 |
| 1500 | 210 | 218 | 228 | 236 | 245 | 254 | 262 | 271 | 279 |
| 1600 | 216 | 225 | 234 | 243 | 253 | 262 | 271 | 280 | 290 |
| 1700 | 225 | 235 | 245 | 255 | 265 | 274 | 284 | 294 | 304 |
| 1800 | 234 | 245 | 255 | 265 | 275 | 285 | 296 | 306 | 316 |
| 1900 | 243 | 255 | 265 | 275 | 286 | 297 | 308 | 319 | 330 |
| 2000 | 253 | 265 | 275 | 286 | 298 | 309 | 320 | 332 | 343 |
| 2100 | 259 | 271 | 283 | 294 | 306 | 318 | 330 | 342 | 354 |
| 2200 | 265 | 277 | 290 | 302 | 314 | 326 | 339 | 351 | 363 |
| 2300 | 271 | 284 | 297 | 309 | 322 | 335 | 348 | 361 | 374 |
| 2400 | 277 | 291 | 304 | 318 | 331 | 344 | 357 | 371 | 384 |
| 2500 | 283 | 297 | 311 | 325 | 339 | 352 | 366 | 380 | 394 |

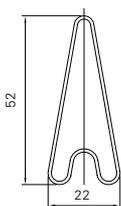
Flügelbreite in mm
Sash width in mm

Flügelhöhe in mm
Sash height in mm

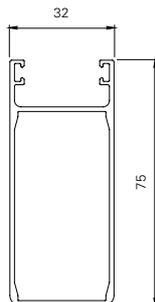
| | 280-400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 184 | 193 | 200 | 210 | 217 | 225 | 234 | 241 | 251 |
| 900 | 197 | 205 | 215 | 224 | 233 | 241 | 252 | 260 | 269 |
| 1000 | 210 | 220 | 230 | 239 | 250 | 259 | 269 | 278 | 289 |
| 1100 | 222 | 233 | 243 | 255 | 265 | 275 | 286 | 297 | 307 |
| 1200 | 235 | 246 | 258 | 269 | 280 | 292 | 304 | 314 | 326 |
| 1300 | 245 | 257 | 269 | 282 | 294 | 306 | 318 | 330 | 343 |
| 1400 | 255 | 268 | 280 | 294 | 307 | 319 | 332 | 345 | 358 |
| 1500 | 265 | 277 | 292 | 306 | 319 | 333 | 347 | 360 | 375 |
| 1600 | 274 | 289 | 303 | 318 | 332 | 347 | 361 | 376 | 391 |
| 1700 | 286 | 303 | 318 | 333 | 348 | 363 | 379 | 394 | 409 |
| 1800 | 300 | 315 | 332 | 348 | 363 | 380 | 396 | 413 | 429 |
| 1900 | 312 | 328 | 346 | 363 | 380 | 397 | 414 | 431 | 447 |
| 2000 | 325 | 343 | 360 | 378 | 396 | 414 | 431 | 449 | 467 |
| 2100 | 335 | 354 | 373 | 391 | 409 | 428 | 446 | 464 | 482 |
| 2200 | 345 | 363 | 383 | 402 | 421 | 440 | 460 | 478 | 498 |
| 2300 | 354 | 375 | 394 | 415 | 434 | 455 | 474 | 494 | 514 |
| 2400 | 363 | 385 | 405 | 427 | 447 | 468 | 488 | 509 | 530 |
| 2500 | 374 | 395 | 417 | 438 | 460 | 482 | 503 | 524 | 546 |

Flügelbreite in mm
Sash width in mm

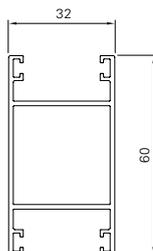
Flügelhöhe in mm
Sash height in mm



TZ



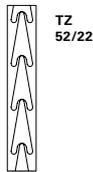
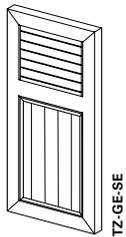
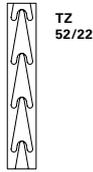
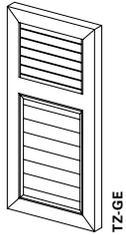
TZR75



TZQ60

| | | | | |
|------------|-------|------|---------|------------------------|
| Querfries | 60 mm | 1001 | 34,23 € | Horizontal cross-panel |
| Längsfries | 60 mm | 2001 | 65,28 € | Vertical cross-panel |

TZ-GE TZ-GE-SE



| | 280-400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 166 | 172 | 179 | 184 | 189 | 196 | 202 | 207 | 213 |
| 900 | 176 | 183 | 189 | 197 | 203 | 208 | 216 | 222 | 228 |
| 1000 | 186 | 194 | 201 | 207 | 216 | 222 | 229 | 237 | 244 |
| 1100 | 197 | 204 | 212 | 220 | 227 | 236 | 243 | 251 | 259 |
| 1200 | 206 | 216 | 223 | 231 | 241 | 248 | 258 | 265 | 275 |
| 1300 | 213 | 223 | 231 | 241 | 249 | 259 | 267 | 277 | 285 |
| 1400 | 221 | 229 | 240 | 249 | 259 | 268 | 279 | 287 | 298 |
| 1500 | 227 | 238 | 247 | 258 | 268 | 279 | 289 | 299 | 310 |
| 1600 | 235 | 244 | 256 | 266 | 278 | 289 | 300 | 310 | 321 |
| 1700 | 244 | 256 | 267 | 279 | 290 | 302 | 313 | 324 | 336 |
| 1800 | 255 | 266 | 279 | 291 | 303 | 315 | 327 | 339 | 351 |
| 1900 | 264 | 277 | 290 | 302 | 315 | 328 | 341 | 353 | 367 |
| 2000 | 275 | 287 | 301 | 314 | 328 | 341 | 354 | 369 | 383 |
| 2100 | 281 | 296 | 309 | 323 | 338 | 351 | 366 | 380 | 393 |
| 2200 | 287 | 302 | 318 | 332 | 347 | 361 | 375 | 391 | 406 |
| 2300 | 294 | 310 | 326 | 341 | 355 | 371 | 387 | 403 | 416 |
| 2400 | 301 | 318 | 333 | 349 | 366 | 382 | 396 | 413 | 429 |
| 2500 | 308 | 324 | 341 | 357 | 374 | 391 | 408 | 425 | 441 |

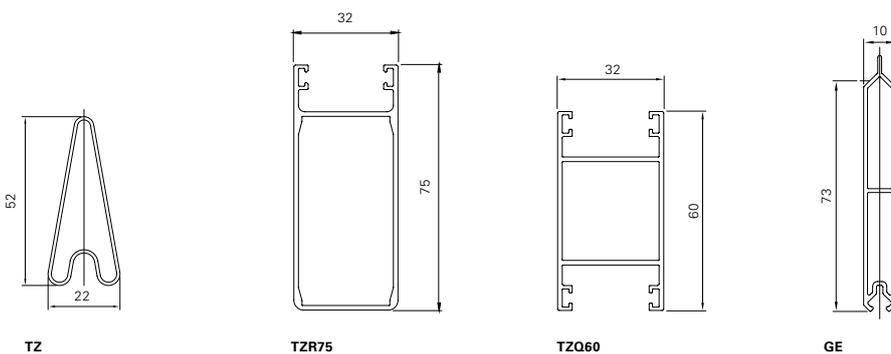
Flügelbreite in mm
Sash width in mm

Flügelhöhe in mm
Sash height in mm

| | 280-400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 199 | 207 | 218 | 226 | 236 | 244 | 254 | 263 | 272 |
| 900 | 213 | 223 | 234 | 243 | 254 | 263 | 273 | 283 | 293 |
| 1000 | 226 | 238 | 248 | 260 | 271 | 282 | 293 | 304 | 315 |
| 1100 | 241 | 254 | 264 | 277 | 289 | 301 | 312 | 324 | 336 |
| 1200 | 255 | 267 | 281 | 293 | 307 | 319 | 332 | 346 | 357 |
| 1300 | 265 | 279 | 293 | 307 | 321 | 334 | 349 | 363 | 375 |
| 1400 | 276 | 291 | 305 | 320 | 335 | 350 | 365 | 378 | 394 |
| 1500 | 286 | 302 | 318 | 333 | 350 | 366 | 382 | 396 | 412 |
| 1600 | 298 | 314 | 330 | 347 | 364 | 380 | 396 | 413 | 430 |
| 1700 | 311 | 329 | 347 | 365 | 382 | 398 | 416 | 434 | 452 |
| 1800 | 326 | 343 | 363 | 382 | 398 | 418 | 437 | 454 | 474 |
| 1900 | 339 | 359 | 377 | 397 | 416 | 437 | 456 | 476 | 495 |
| 2000 | 353 | 373 | 393 | 414 | 434 | 456 | 476 | 496 | 517 |
| 2100 | 364 | 385 | 407 | 428 | 449 | 470 | 493 | 514 | 535 |
| 2200 | 374 | 396 | 419 | 441 | 464 | 486 | 508 | 531 | 553 |
| 2300 | 385 | 408 | 431 | 454 | 478 | 501 | 524 | 549 | 572 |
| 2400 | 395 | 420 | 444 | 468 | 493 | 517 | 540 | 564 | 590 |
| 2500 | 406 | 431 | 457 | 481 | 507 | 532 | 557 | 582 | 607 |

Flügelbreite in mm
Sash width in mm

Flügelhöhe in mm
Sash height in mm



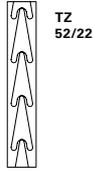
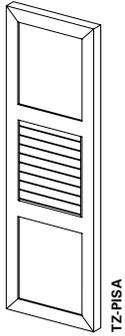
TZ

TZR75

TZQ60

GE

TZ-PISA



| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 200 | 206 | 212 | 218 | 223 | 228 | 236 | 241 | 246 |
| 900 | 210 | 218 | 224 | 229 | 237 | 243 | 249 | 257 | 263 |
| 1000 | 221 | 228 | 236 | 243 | 249 | 258 | 265 | 272 | 280 |
| 1100 | 231 | 240 | 247 | 256 | 264 | 272 | 280 | 287 | 296 |
| 1200 | 242 | 251 | 260 | 268 | 278 | 286 | 296 | 303 | 312 |
| 1300 | 248 | 258 | 267 | 277 | 286 | 296 | 305 | 314 | 324 |
| 1400 | 255 | 264 | 275 | 285 | 296 | 305 | 315 | 327 | 336 |
| 1500 | 260 | 271 | 282 | 293 | 304 | 315 | 327 | 338 | 349 |
| 1600 | 266 | 278 | 290 | 301 | 313 | 326 | 336 | 349 | 360 |
| 1700 | 277 | 289 | 302 | 314 | 327 | 339 | 352 | 365 | 376 |
| 1800 | 287 | 301 | 313 | 327 | 340 | 353 | 367 | 380 | 393 |
| 1900 | 298 | 312 | 326 | 340 | 353 | 368 | 383 | 395 | 410 |
| 2000 | 309 | 323 | 338 | 352 | 368 | 383 | 396 | 411 | 427 |
| 2100 | 314 | 330 | 346 | 361 | 376 | 392 | 407 | 423 | 438 |
| 2200 | 320 | 336 | 352 | 369 | 386 | 402 | 418 | 433 | 450 |
| 2300 | 327 | 343 | 360 | 376 | 394 | 411 | 428 | 446 | 462 |
| 2400 | 332 | 350 | 368 | 386 | 404 | 422 | 439 | 457 | 475 |
| 2500 | 338 | 356 | 375 | 393 | 412 | 430 | 449 | 468 | 486 |

Flügelbreite in mm
Sash width in mm

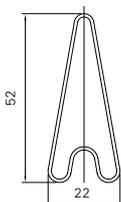
Flügelhöhe in mm
Sash height in mm



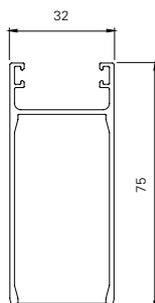
| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 239 | 248 | 258 | 267 | 277 | 286 | 296 | 304 | 314 |
| 900 | 254 | 264 | 275 | 285 | 297 | 307 | 318 | 328 | 339 |
| 1000 | 267 | 280 | 292 | 303 | 315 | 328 | 339 | 351 | 363 |
| 1100 | 282 | 296 | 309 | 321 | 334 | 348 | 361 | 374 | 387 |
| 1200 | 297 | 311 | 326 | 340 | 354 | 368 | 383 | 396 | 411 |
| 1300 | 307 | 322 | 338 | 353 | 369 | 385 | 401 | 415 | 431 |
| 1400 | 317 | 333 | 350 | 367 | 384 | 401 | 416 | 433 | 450 |
| 1500 | 326 | 343 | 363 | 380 | 397 | 415 | 433 | 452 | 470 |
| 1600 | 335 | 354 | 373 | 393 | 412 | 431 | 451 | 470 | 489 |
| 1700 | 350 | 370 | 391 | 411 | 431 | 452 | 472 | 494 | 514 |
| 1800 | 365 | 386 | 408 | 429 | 451 | 472 | 495 | 516 | 538 |
| 1900 | 378 | 402 | 425 | 448 | 470 | 494 | 516 | 539 | 562 |
| 2000 | 393 | 416 | 441 | 466 | 490 | 514 | 538 | 562 | 586 |
| 2100 | 403 | 428 | 453 | 479 | 504 | 530 | 555 | 580 | 606 |
| 2200 | 412 | 439 | 466 | 493 | 519 | 545 | 573 | 599 | 626 |
| 2300 | 423 | 450 | 478 | 506 | 534 | 561 | 590 | 617 | 645 |
| 2400 | 431 | 460 | 490 | 519 | 549 | 577 | 606 | 636 | 665 |
| 2500 | 441 | 471 | 502 | 533 | 562 | 593 | 624 | 654 | 684 |

Flügelbreite in mm
Sash width in mm

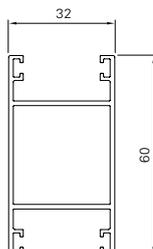
Flügelhöhe in mm
Sash height in mm



TZ

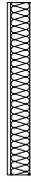
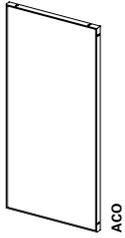


TZR75



TZQ60

ACO



ACO
100/27



| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 161 | 166 | 170 | 174 | 178 | 183 | 187 | 191 | 196 |
| 900 | 167 | 171 | 176 | 181 | 186 | 190 | 195 | 200 | 204 |
| 1000 | 172 | 177 | 182 | 187 | 193 | 198 | 203 | 208 | 213 |
| 1100 | 177 | 183 | 188 | 194 | 200 | 205 | 211 | 216 | 222 |
| 1200 | 183 | 189 | 195 | 201 | 207 | 213 | 219 | 225 | 231 |
| 1300 | 188 | 194 | 201 | 207 | 214 | 220 | 226 | 233 | 239 |
| 1400 | 193 | 200 | 207 | 214 | 221 | 227 | 234 | 241 | 248 |
| 1500 | 198 | 206 | 213 | 220 | 228 | 235 | 242 | 250 | 257 |
| 1600 | 204 | 211 | 219 | 227 | 235 | 242 | 250 | 258 | 266 |
| 1700 | 209 | 217 | 225 | 233 | 242 | 250 | 258 | 266 | 274 |
| 1800 | 214 | 223 | 231 | 240 | 249 | 257 | 266 | 275 | 283 |
| 1900 | 220 | 229 | 238 | 247 | 256 | 265 | 274 | 283 | 292 |
| 2000 | 225 | 234 | 244 | 253 | 263 | 272 | 282 | 291 | 301 |
| 2100 | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 | 309 |
| 2200 | 235 | 246 | 256 | 266 | 277 | 287 | 297 | 308 | 318 |
| 2300 | 241 | 251 | 262 | 273 | 284 | 295 | 305 | 316 | 327 |
| 2400 | 246 | 257 | 268 | 280 | 291 | 302 | 313 | 324 | 336 |
| 2500 | 251 | 263 | 275 | 286 | 298 | 309 | 321 | 333 | 344 |

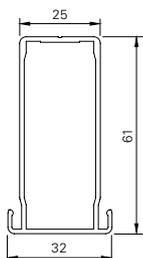
Flügelbreite in mm
Sash width in mm

Flügelhöhe in mm
Sash height in mm

| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 182 | 186 | 191 | 195 | 200 | 204 | 208 | 213 | 217 |
| 900 | 188 | 193 | 197 | 202 | 207 | 212 | 216 | 221 | 226 |
| 1000 | 194 | 199 | 204 | 209 | 214 | 219 | 225 | 230 | 235 |
| 1100 | 199 | 205 | 210 | 216 | 222 | 227 | 233 | 238 | 244 |
| 1200 | 205 | 211 | 217 | 223 | 229 | 235 | 241 | 247 | 253 |
| 1300 | 211 | 217 | 224 | 230 | 236 | 243 | 249 | 256 | 262 |
| 1400 | 217 | 223 | 230 | 237 | 244 | 251 | 257 | 264 | 271 |
| 1500 | 222 | 230 | 237 | 244 | 251 | 258 | 266 | 273 | 280 |
| 1600 | 228 | 236 | 243 | 251 | 259 | 266 | 274 | 281 | 289 |
| 1700 | 234 | 242 | 250 | 258 | 266 | 274 | 282 | 290 | 298 |
| 1800 | 240 | 248 | 256 | 265 | 273 | 282 | 290 | 299 | 307 |
| 1900 | 245 | 254 | 263 | 272 | 281 | 290 | 298 | 307 | 316 |
| 2000 | 251 | 260 | 270 | 279 | 288 | 297 | 307 | 316 | 325 |
| 2100 | 257 | 266 | 276 | 286 | 295 | 305 | 315 | 324 | 334 |
| 2200 | 262 | 273 | 283 | 293 | 303 | 313 | 323 | 333 | 343 |
| 2300 | 268 | 279 | 289 | 300 | 310 | 321 | 331 | 342 | 352 |
| 2400 | 274 | 285 | 296 | 307 | 318 | 329 | 339 | 350 | 361 |
| 2500 | 280 | 291 | 302 | 314 | 325 | 336 | 348 | 359 | 370 |

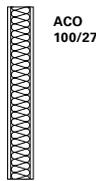
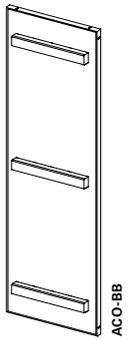
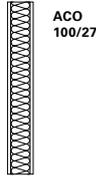
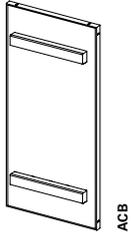
Flügelbreite in mm
Sash width in mm

Flügelhöhe in mm
Sash height in mm



AR61-SE

ACO-B ACO-BB



| | 280-400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 180 | 186 | 191 | 196 | 201 | 206 | 211 | 216 | 221 |
| 900 | 186 | 191 | 197 | 202 | 208 | 213 | 219 | 224 | 230 |
| 1000 | 192 | 198 | 204 | 210 | 216 | 222 | 228 | 233 | 239 |
| 1100 | 197 | 203 | 210 | 216 | 223 | 229 | 235 | 242 | 248 |
| 1200 | 202 | 209 | 216 | 223 | 230 | 236 | 243 | 250 | 257 |
| 1300 | 208 | 215 | 222 | 229 | 237 | 244 | 251 | 258 | 266 |
| 1400 | 213 | 221 | 228 | 236 | 244 | 251 | 259 | 267 | 274 |
| 1500 | 218 | 226 | 234 | 243 | 251 | 259 | 267 | 275 | 283 |
| 1600 | 223 | 232 | 241 | 249 | 258 | 266 | 275 | 283 | 292 |
| 1700 | 229 | 238 | 247 | 256 | 265 | 274 | 283 | 292 | 301 |
| 1800 | 234 | 243 | 253 | 262 | 272 | 281 | 291 | 300 | 310 |
| 1900 | 239 | 249 | 259 | 269 | 279 | 289 | 299 | 308 | 318 |
| 2000 | 245 | 255 | 265 | 275 | 286 | 296 | 306 | 317 | 327 |
| 2100 | 250 | 261 | 271 | 282 | 293 | 304 | 314 | 325 | 336 |
| 2200 | 255 | 266 | 277 | 289 | 300 | 311 | 322 | 333 | 345 |
| 2300 | 260 | 272 | 284 | 295 | 307 | 318 | 330 | 342 | 353 |
| 2400 | 266 | 278 | 290 | 302 | 314 | 326 | 338 | 350 | 362 |
| 2500 | 271 | 283 | 296 | 308 | 321 | 333 | 346 | 358 | 371 |

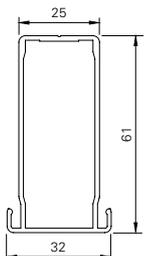
└ Flügelhöhe in mm
Sash height in mm

└ Flügelbreite in mm
Sash width in mm

| | 280-400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 203 | 209 | 214 | 220 | 225 | 231 | 236 | 242 | 247 |
| 900 | 209 | 215 | 221 | 227 | 233 | 238 | 244 | 250 | 256 |
| 1000 | 215 | 222 | 228 | 234 | 241 | 247 | 253 | 260 | 266 |
| 1100 | 221 | 228 | 235 | 241 | 248 | 255 | 261 | 268 | 275 |
| 1200 | 227 | 234 | 241 | 248 | 255 | 263 | 270 | 277 | 284 |
| 1300 | 233 | 240 | 248 | 255 | 263 | 270 | 278 | 285 | 293 |
| 1400 | 238 | 246 | 254 | 262 | 270 | 278 | 286 | 294 | 302 |
| 1500 | 244 | 252 | 261 | 269 | 278 | 286 | 294 | 303 | 311 |
| 1600 | 250 | 259 | 267 | 276 | 285 | 294 | 302 | 311 | 320 |
| 1700 | 255 | 265 | 274 | 283 | 292 | 301 | 311 | 320 | 329 |
| 1800 | 261 | 271 | 280 | 290 | 300 | 309 | 319 | 328 | 338 |
| 1900 | 267 | 277 | 287 | 297 | 307 | 317 | 327 | 337 | 347 |
| 2000 | 273 | 283 | 294 | 304 | 314 | 325 | 335 | 346 | 356 |
| 2100 | 278 | 289 | 300 | 311 | 322 | 333 | 343 | 354 | 365 |
| 2200 | 284 | 295 | 307 | 318 | 329 | 340 | 352 | 363 | 374 |
| 2300 | 290 | 302 | 313 | 325 | 337 | 348 | 360 | 372 | 383 |
| 2400 | 296 | 308 | 320 | 332 | 344 | 356 | 368 | 380 | 392 |
| 2500 | 301 | 314 | 326 | 339 | 351 | 364 | 376 | 389 | 401 |

└ Flügelhöhe in mm
Sash height in mm

└ Flügelbreite in mm
Sash width in mm



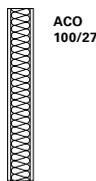
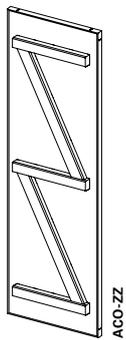
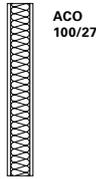
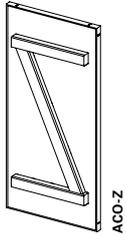
AR61-SE



LQ

| | | | | |
|---------------|----------------------------------|------|---------|-----------------------------------|
| ACO-BB | € + : Zusätzlicher Balkenaufsatz | 1005 | 34,45 € | * € + : Additional bar attachment |
|---------------|----------------------------------|------|---------|-----------------------------------|

ACO-Z ACO-ZZ



| | 280 – 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 190 | 195 | 201 | 206 | 212 | 217 | 222 | 228 | 234 |
| 900 | 196 | 202 | 207 | 213 | 219 | 225 | 231 | 237 | 243 |
| 1000 | 203 | 209 | 215 | 221 | 228 | 234 | 240 | 246 | 253 |
| 1100 | 209 | 215 | 222 | 229 | 235 | 242 | 249 | 255 | 262 |
| 1200 | 215 | 222 | 229 | 236 | 243 | 250 | 257 | 264 | 272 |
| 1300 | 221 | 229 | 236 | 243 | 251 | 258 | 266 | 274 | 281 |
| 1400 | 227 | 235 | 243 | 251 | 259 | 267 | 275 | 283 | 291 |
| 1500 | 233 | 242 | 250 | 258 | 267 | 275 | 283 | 292 | 300 |
| 1600 | 240 | 248 | 257 | 266 | 275 | 283 | 292 | 301 | 310 |
| 1700 | 246 | 255 | 264 | 273 | 282 | 292 | 301 | 310 | 319 |
| 1800 | 252 | 262 | 271 | 281 | 290 | 300 | 310 | 319 | 329 |
| 1900 | 258 | 268 | 278 | 288 | 298 | 308 | 318 | 328 | 338 |
| 2000 | 264 | 275 | 285 | 296 | 306 | 317 | 327 | 338 | 348 |
| 2100 | 271 | 281 | 292 | 303 | 314 | 325 | 336 | 347 | 358 |
| 2200 | 277 | 288 | 299 | 311 | 322 | 333 | 345 | 356 | 367 |
| 2300 | 283 | 295 | 306 | 318 | 330 | 342 | 353 | 365 | 377 |
| 2400 | 289 | 301 | 314 | 326 | 338 | 350 | 362 | 374 | 387 |
| 2500 | 296 | 308 | 321 | 333 | 346 | 358 | 371 | 384 | 396 |

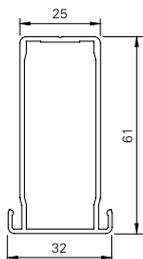
└ Flügelhöhe in mm
Sash height in mm

└ Flügelbreite in mm
Sash width in mm

| | 280 – 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 214 | 220 | 225 | 231 | 237 | 243 | 249 | 255 | 261 |
| 900 | 220 | 227 | 233 | 239 | 246 | 252 | 258 | 265 | 271 |
| 1000 | 228 | 234 | 241 | 248 | 254 | 261 | 268 | 275 | 282 |
| 1100 | 235 | 242 | 249 | 256 | 263 | 270 | 277 | 284 | 291 |
| 1200 | 241 | 249 | 256 | 264 | 271 | 279 | 286 | 294 | 301 |
| 1300 | 248 | 256 | 264 | 272 | 280 | 287 | 295 | 303 | 311 |
| 1400 | 255 | 263 | 272 | 280 | 288 | 296 | 305 | 313 | 321 |
| 1500 | 262 | 271 | 279 | 288 | 296 | 305 | 314 | 322 | 331 |
| 1600 | 269 | 278 | 287 | 296 | 305 | 314 | 323 | 332 | 341 |
| 1700 | 276 | 285 | 295 | 304 | 313 | 323 | 332 | 342 | 351 |
| 1800 | 283 | 293 | 302 | 312 | 322 | 332 | 342 | 351 | 361 |
| 1900 | 290 | 300 | 310 | 320 | 330 | 341 | 351 | 361 | 371 |
| 2000 | 297 | 307 | 318 | 328 | 339 | 349 | 360 | 371 | 381 |
| 2100 | 303 | 314 | 325 | 336 | 347 | 358 | 369 | 380 | 392 |
| 2200 | 310 | 322 | 333 | 344 | 356 | 367 | 379 | 390 | 402 |
| 2300 | 317 | 329 | 341 | 353 | 364 | 376 | 388 | 400 | 412 |
| 2400 | 324 | 336 | 349 | 361 | 373 | 385 | 397 | 410 | 422 |
| 2500 | 331 | 344 | 356 | 369 | 381 | 394 | 407 | 419 | 432 |

└ Flügelhöhe in mm
Sash height in mm

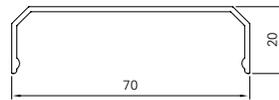
└ Flügelbreite in mm
Sash width in mm



AR61-SE



LQ

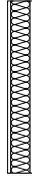
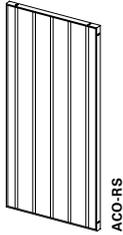


LZ

ACO-ZZ

€ + : Aufsatz Doppel-Z ab 180 mm Höhe 1006 61,66€ € + : Add-on double-Z from 180 mm height

ACO-RS



ACO-RS
100/27



| | 280 – 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 165 | 169 | 174 | 178 | 183 | 187 | 192 | 196 | 201 |
| 900 | 170 | 175 | 180 | 185 | 190 | 195 | 200 | 204 | 210 |
| 1000 | 176 | 181 | 186 | 191 | 197 | 202 | 207 | 213 | 219 |
| 1100 | 181 | 187 | 192 | 198 | 204 | 210 | 215 | 221 | 227 |
| 1200 | 186 | 192 | 198 | 204 | 211 | 217 | 223 | 229 | 236 |
| 1300 | 192 | 198 | 204 | 211 | 218 | 225 | 231 | 238 | 245 |
| 1400 | 197 | 204 | 211 | 218 | 225 | 232 | 239 | 246 | 254 |
| 1500 | 202 | 209 | 217 | 224 | 232 | 240 | 247 | 254 | 262 |
| 1600 | 207 | 215 | 223 | 231 | 239 | 247 | 255 | 263 | 271 |
| 1700 | 213 | 221 | 229 | 237 | 246 | 254 | 263 | 271 | 280 |
| 1800 | 218 | 227 | 235 | 244 | 253 | 262 | 271 | 279 | 289 |
| 1900 | 223 | 232 | 241 | 250 | 260 | 269 | 278 | 287 | 297 |
| 2000 | 229 | 238 | 248 | 257 | 267 | 277 | 286 | 296 | 306 |
| 2100 | 234 | 244 | 254 | 264 | 274 | 284 | 294 | 304 | 315 |
| 2200 | 239 | 250 | 260 | 270 | 281 | 292 | 302 | 312 | 324 |
| 2300 | 244 | 255 | 266 | 277 | 288 | 299 | 310 | 321 | 332 |
| 2400 | 250 | 261 | 272 | 283 | 295 | 307 | 318 | 329 | 341 |
| 2500 | 255 | 267 | 278 | 290 | 302 | 314 | 326 | 337 | 350 |

Flügelbreite in mm
Sash width in mm

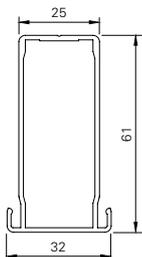
Flügelhöhe in mm
Sash height in mm



| | 280 – 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 186 | 190 | 195 | 199 | 204 | 209 | 213 | 217 | 222 |
| 900 | 192 | 196 | 201 | 206 | 212 | 216 | 221 | 226 | 231 |
| 1000 | 197 | 203 | 208 | 213 | 219 | 224 | 229 | 234 | 240 |
| 1100 | 203 | 209 | 214 | 220 | 226 | 232 | 237 | 243 | 249 |
| 1200 | 209 | 215 | 221 | 227 | 234 | 240 | 246 | 252 | 259 |
| 1300 | 215 | 221 | 227 | 234 | 241 | 247 | 254 | 260 | 268 |
| 1400 | 220 | 227 | 234 | 241 | 248 | 255 | 262 | 269 | 277 |
| 1500 | 226 | 233 | 240 | 248 | 256 | 263 | 270 | 277 | 286 |
| 1600 | 232 | 239 | 247 | 255 | 263 | 271 | 278 | 286 | 295 |
| 1700 | 238 | 246 | 254 | 262 | 271 | 279 | 287 | 295 | 304 |
| 1800 | 243 | 252 | 260 | 269 | 278 | 286 | 295 | 303 | 313 |
| 1900 | 249 | 258 | 267 | 276 | 285 | 294 | 303 | 312 | 322 |
| 2000 | 255 | 264 | 273 | 283 | 293 | 302 | 311 | 321 | 331 |
| 2100 | 261 | 270 | 280 | 290 | 300 | 310 | 319 | 329 | 340 |
| 2200 | 266 | 276 | 286 | 297 | 307 | 318 | 328 | 338 | 349 |
| 2300 | 272 | 282 | 293 | 303 | 315 | 325 | 336 | 346 | 358 |
| 2400 | 278 | 289 | 300 | 310 | 322 | 333 | 344 | 355 | 367 |
| 2500 | 283 | 295 | 306 | 317 | 330 | 341 | 352 | 364 | 376 |

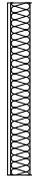
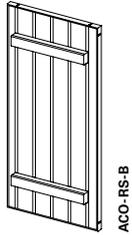
Flügelbreite in mm
Sash width in mm

Flügelhöhe in mm
Sash height in mm

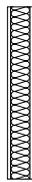
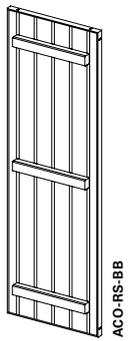


AR61-SE

ACO-RS-B ACO-RS-BB



ACO-RS
100/27



ACO-RS
100/27



| | 280 – 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 184 | 189 | 194 | 200 | 205 | 211 | 216 | 221 | 227 |
| 900 | 189 | 195 | 201 | 206 | 212 | 218 | 224 | 229 | 236 |
| 1000 | 195 | 201 | 207 | 213 | 220 | 226 | 232 | 238 | 245 |
| 1100 | 201 | 207 | 214 | 220 | 227 | 234 | 240 | 246 | 254 |
| 1200 | 206 | 213 | 220 | 227 | 234 | 241 | 248 | 255 | 262 |
| 1300 | 211 | 219 | 226 | 233 | 241 | 249 | 256 | 263 | 271 |
| 1400 | 217 | 224 | 232 | 240 | 248 | 256 | 264 | 271 | 280 |
| 1500 | 222 | 230 | 238 | 246 | 255 | 263 | 272 | 280 | 289 |
| 1600 | 227 | 236 | 244 | 253 | 262 | 271 | 279 | 288 | 297 |
| 1700 | 232 | 241 | 250 | 259 | 269 | 278 | 287 | 296 | 306 |
| 1800 | 238 | 247 | 257 | 266 | 276 | 286 | 295 | 305 | 315 |
| 1900 | 243 | 253 | 263 | 273 | 283 | 293 | 303 | 313 | 324 |
| 2000 | 248 | 259 | 269 | 279 | 290 | 301 | 311 | 321 | 333 |
| 2100 | 254 | 264 | 275 | 286 | 297 | 308 | 319 | 330 | 341 |
| 2200 | 259 | 270 | 281 | 292 | 304 | 316 | 327 | 338 | 350 |
| 2300 | 264 | 276 | 287 | 299 | 311 | 323 | 335 | 346 | 359 |
| 2400 | 269 | 281 | 294 | 306 | 318 | 331 | 343 | 355 | 368 |
| 2500 | 275 | 287 | 300 | 312 | 325 | 338 | 350 | 363 | 376 |

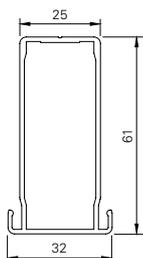
Flügelbreite in mm
Sash width in mm

Flügelhöhe in mm
Sash height in mm

| | 280 – 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 207 | 212 | 218 | 223 | 230 | 235 | 241 | 246 | 253 |
| 900 | 213 | 219 | 224 | 230 | 237 | 243 | 249 | 255 | 262 |
| 1000 | 219 | 225 | 232 | 238 | 245 | 252 | 258 | 264 | 271 |
| 1100 | 225 | 232 | 238 | 245 | 253 | 259 | 266 | 273 | 280 |
| 1200 | 231 | 238 | 245 | 252 | 260 | 267 | 274 | 281 | 289 |
| 1300 | 236 | 244 | 251 | 259 | 267 | 275 | 283 | 290 | 298 |
| 1400 | 242 | 250 | 258 | 266 | 275 | 283 | 291 | 299 | 308 |
| 1500 | 248 | 256 | 265 | 273 | 282 | 291 | 299 | 307 | 317 |
| 1600 | 253 | 262 | 271 | 280 | 290 | 298 | 307 | 316 | 326 |
| 1700 | 259 | 268 | 278 | 287 | 297 | 306 | 315 | 325 | 335 |
| 1800 | 265 | 275 | 284 | 294 | 304 | 314 | 324 | 333 | 344 |
| 1900 | 271 | 281 | 291 | 301 | 312 | 322 | 332 | 342 | 353 |
| 2000 | 276 | 287 | 297 | 308 | 319 | 329 | 340 | 350 | 362 |
| 2100 | 282 | 293 | 304 | 315 | 326 | 337 | 348 | 359 | 371 |
| 2200 | 288 | 299 | 310 | 322 | 334 | 345 | 356 | 368 | 380 |
| 2300 | 294 | 305 | 317 | 329 | 341 | 353 | 364 | 376 | 389 |
| 2400 | 299 | 312 | 324 | 336 | 349 | 361 | 373 | 385 | 398 |
| 2500 | 305 | 318 | 330 | 343 | 356 | 368 | 381 | 393 | 407 |

Flügelbreite in mm
Sash width in mm

Flügelhöhe in mm
Sash height in mm



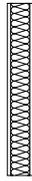
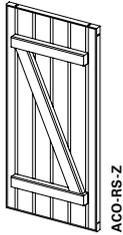
AR61-SE



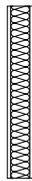
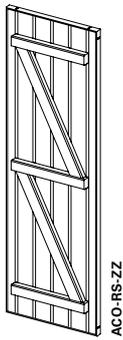
LQ

| | | | | |
|------------------|----------------------------------|------|--------|-----------------------------------|
| ACO-RS-BB | € + : Zusätzlicher Balkenaufsatz | 1005 | 34,45€ | * € + : Additional bar attachment |
|------------------|----------------------------------|------|--------|-----------------------------------|

ACO-RS-Z ACO-RS-ZZ



ACO-RS
100/27



ACO-RS
100/27



| | 280 – 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 194 | 199 | 204 | 210 | 216 | 222 | 227 | 233 | 239 |
| 900 | 200 | 205 | 211 | 217 | 224 | 230 | 236 | 241 | 248 |
| 1000 | 206 | 213 | 219 | 225 | 232 | 238 | 245 | 251 | 258 |
| 1100 | 213 | 219 | 226 | 232 | 240 | 247 | 253 | 260 | 268 |
| 1200 | 219 | 226 | 233 | 240 | 248 | 255 | 262 | 269 | 277 |
| 1300 | 225 | 232 | 240 | 247 | 256 | 263 | 271 | 278 | 287 |
| 1400 | 231 | 239 | 247 | 255 | 263 | 271 | 279 | 287 | 296 |
| 1500 | 237 | 245 | 254 | 262 | 271 | 280 | 288 | 296 | 306 |
| 1600 | 243 | 252 | 261 | 270 | 279 | 288 | 297 | 306 | 315 |
| 1700 | 250 | 259 | 268 | 277 | 287 | 296 | 305 | 315 | 325 |
| 1800 | 256 | 265 | 275 | 285 | 295 | 305 | 314 | 324 | 334 |
| 1900 | 262 | 272 | 282 | 292 | 303 | 313 | 323 | 333 | 344 |
| 2000 | 268 | 279 | 289 | 299 | 311 | 321 | 332 | 342 | 354 |
| 2100 | 274 | 285 | 296 | 307 | 319 | 330 | 340 | 351 | 363 |
| 2200 | 281 | 292 | 303 | 314 | 327 | 338 | 349 | 361 | 373 |
| 2300 | 287 | 299 | 310 | 322 | 335 | 346 | 358 | 370 | 382 |
| 2400 | 293 | 305 | 317 | 329 | 342 | 355 | 367 | 379 | 392 |
| 2500 | 299 | 312 | 324 | 337 | 350 | 363 | 376 | 388 | 402 |

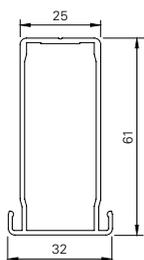
Flügelbreite in mm
Sash width in mm

Flügelhöhe in mm
Sash height in mm

| | 280 – 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 217 | 223 | 229 | 235 | 242 | 248 | 254 | 260 | 267 |
| 900 | 224 | 230 | 237 | 243 | 250 | 257 | 263 | 269 | 277 |
| 1000 | 232 | 238 | 245 | 252 | 259 | 266 | 273 | 279 | 287 |
| 1100 | 238 | 245 | 252 | 259 | 267 | 275 | 282 | 289 | 297 |
| 1200 | 245 | 253 | 260 | 267 | 276 | 283 | 291 | 298 | 307 |
| 1300 | 252 | 260 | 268 | 275 | 284 | 292 | 300 | 308 | 317 |
| 1400 | 259 | 267 | 275 | 284 | 293 | 301 | 309 | 317 | 327 |
| 1500 | 266 | 274 | 283 | 292 | 301 | 310 | 318 | 327 | 337 |
| 1600 | 273 | 282 | 291 | 300 | 310 | 319 | 328 | 337 | 347 |
| 1700 | 280 | 289 | 298 | 308 | 318 | 327 | 337 | 346 | 357 |
| 1800 | 287 | 296 | 306 | 316 | 326 | 336 | 346 | 356 | 367 |
| 1900 | 293 | 304 | 314 | 324 | 335 | 345 | 355 | 366 | 377 |
| 2000 | 300 | 311 | 321 | 332 | 343 | 354 | 365 | 375 | 387 |
| 2100 | 307 | 318 | 329 | 340 | 352 | 363 | 374 | 385 | 397 |
| 2200 | 314 | 325 | 337 | 348 | 360 | 372 | 383 | 395 | 407 |
| 2300 | 321 | 333 | 345 | 356 | 369 | 381 | 393 | 404 | 417 |
| 2400 | 328 | 340 | 352 | 364 | 378 | 390 | 402 | 414 | 427 |
| 2500 | 335 | 347 | 360 | 373 | 386 | 399 | 411 | 424 | 437 |

Flügelbreite in mm
Sash width in mm

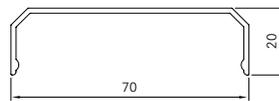
Flügelhöhe in mm
Sash height in mm



AR61-SE



LQ

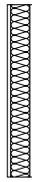
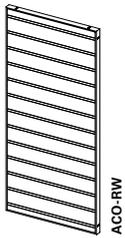


LZ

ACO-RS-ZZ

€ + : Aufsatz Doppel-Z ab 180 mm Höhe 1006 61,66€ € + : Add-on double-Z from 180 mm height

ACO-RW



ACO-RW
100/27



| | 280- 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 167 | 171 | 175 | 180 | 184 | 188 | 193 | 197 | 201 |
| 900 | 172 | 177 | 182 | 186 | 191 | 196 | 200 | 205 | 210 |
| 1000 | 178 | 183 | 189 | 194 | 199 | 204 | 209 | 214 | 219 |
| 1100 | 184 | 189 | 195 | 200 | 206 | 211 | 217 | 223 | 228 |
| 1200 | 190 | 196 | 202 | 208 | 214 | 220 | 226 | 232 | 238 |
| 1300 | 195 | 201 | 208 | 214 | 221 | 227 | 234 | 240 | 247 |
| 1400 | 201 | 208 | 215 | 222 | 229 | 236 | 242 | 249 | 256 |
| 1500 | 206 | 214 | 221 | 228 | 236 | 243 | 250 | 258 | 265 |
| 1600 | 213 | 220 | 228 | 236 | 244 | 251 | 259 | 267 | 275 |
| 1700 | 218 | 226 | 234 | 242 | 251 | 259 | 267 | 275 | 283 |
| 1800 | 224 | 233 | 241 | 250 | 258 | 267 | 276 | 284 | 293 |
| 1900 | 229 | 238 | 247 | 256 | 265 | 275 | 284 | 293 | 302 |
| 2000 | 235 | 245 | 254 | 264 | 273 | 283 | 292 | 302 | 311 |
| 2100 | 241 | 251 | 261 | 270 | 280 | 290 | 300 | 310 | 320 |
| 2200 | 247 | 257 | 268 | 278 | 288 | 299 | 309 | 319 | 330 |
| 2300 | 252 | 263 | 274 | 284 | 295 | 306 | 317 | 328 | 338 |
| 2400 | 258 | 269 | 281 | 292 | 303 | 314 | 326 | 337 | 348 |
| 2500 | 264 | 275 | 287 | 299 | 310 | 322 | 333 | 345 | 357 |

Flügelbreite in mm
Sash width in mm

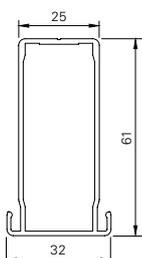
Flügelhöhe in mm
Sash height in mm



| | 280- 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 188 | 192 | 196 | 201 | 205 | 209 | 214 | 218 | 222 |
| 900 | 193 | 198 | 203 | 208 | 212 | 217 | 222 | 227 | 231 |
| 1000 | 200 | 205 | 210 | 215 | 221 | 226 | 231 | 236 | 241 |
| 1100 | 206 | 211 | 217 | 222 | 228 | 234 | 239 | 245 | 250 |
| 1200 | 212 | 218 | 224 | 230 | 236 | 242 | 248 | 254 | 260 |
| 1300 | 218 | 224 | 231 | 237 | 244 | 250 | 256 | 263 | 269 |
| 1400 | 225 | 231 | 238 | 245 | 252 | 259 | 265 | 272 | 279 |
| 1500 | 230 | 238 | 245 | 252 | 259 | 266 | 274 | 281 | 288 |
| 1600 | 237 | 245 | 252 | 260 | 267 | 275 | 283 | 290 | 298 |
| 1700 | 243 | 251 | 259 | 267 | 275 | 283 | 291 | 299 | 307 |
| 1800 | 249 | 258 | 266 | 275 | 283 | 292 | 300 | 308 | 317 |
| 1900 | 255 | 264 | 273 | 282 | 290 | 299 | 308 | 317 | 326 |
| 2000 | 262 | 271 | 280 | 289 | 299 | 308 | 317 | 326 | 336 |
| 2100 | 267 | 277 | 287 | 296 | 306 | 316 | 325 | 335 | 345 |
| 2200 | 274 | 284 | 294 | 304 | 314 | 324 | 334 | 345 | 355 |
| 2300 | 280 | 290 | 301 | 311 | 322 | 332 | 343 | 353 | 364 |
| 2400 | 286 | 297 | 308 | 319 | 330 | 341 | 352 | 363 | 374 |
| 2500 | 292 | 303 | 315 | 326 | 337 | 349 | 360 | 371 | 383 |

Flügelbreite in mm
Sash width in mm

Flügelhöhe in mm
Sash height in mm



AR61-SE

| | | | | |
|------------|-----------------|----------------------------|------------------------------|-----|
| Klappläden | Window shutters | Anschlagschemen | Stop schemes | 9 |
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| | | Montagerahmen / Zargen | Installation frames / frames | 139 |
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A

B

C

D

E

F

G

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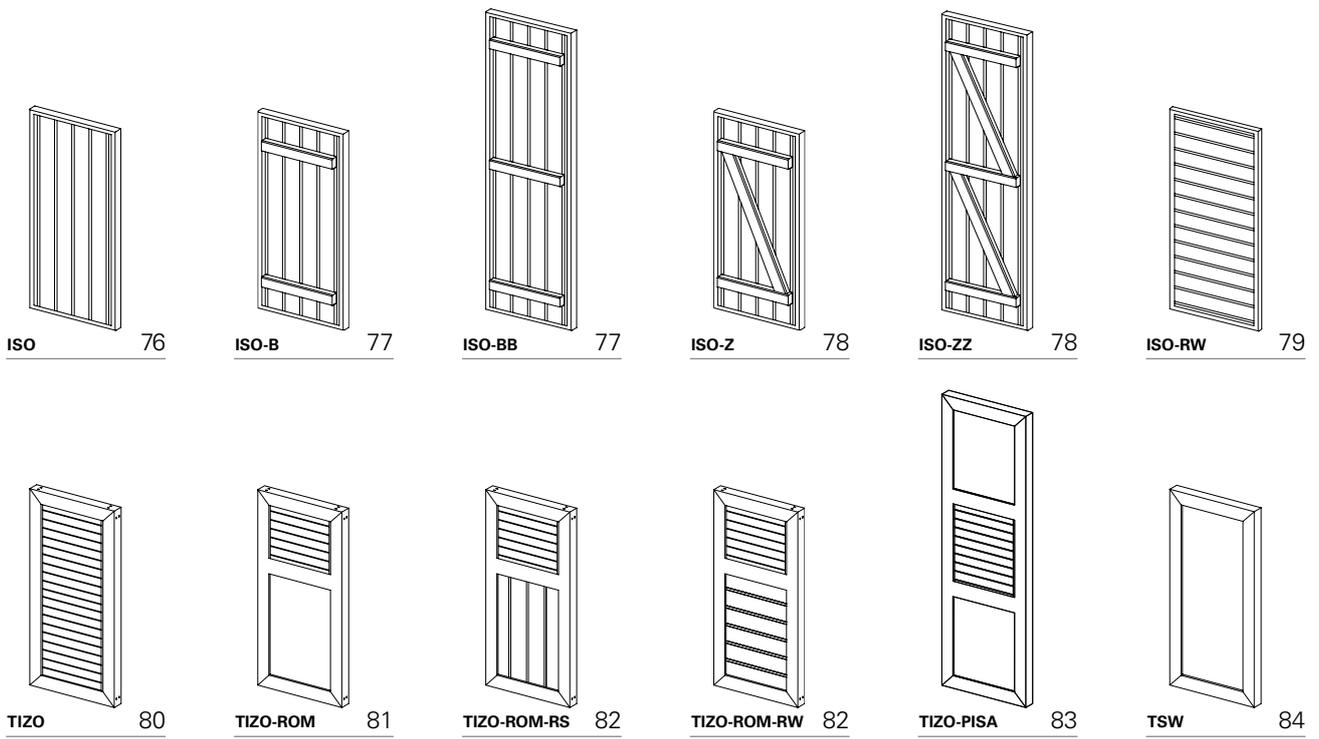
I

J

K

L

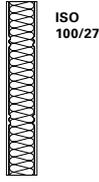
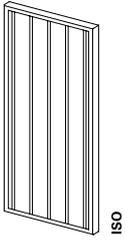
M



INFO

Technische Details siehe
www.ehret.com/produkte
Technical details, see
www.ehret.com/en/products

ISO



| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 86 | 91 | 96 | 100 | 105 | 111 | 115 | 120 | 125 |
| 900 | 93 | 98 | 103 | 110 | 115 | 120 | 125 | 131 | 137 |
| 1000 | 99 | 105 | 111 | 118 | 124 | 130 | 136 | 141 | 147 |
| 1100 | 107 | 113 | 119 | 125 | 133 | 140 | 145 | 153 | 159 |
| 1200 | 113 | 120 | 126 | 135 | 141 | 149 | 156 | 163 | 170 |
| 1300 | 118 | 125 | 134 | 141 | 150 | 157 | 165 | 173 | 180 |
| 1400 | 124 | 132 | 140 | 149 | 157 | 165 | 174 | 182 | 191 |
| 1500 | 129 | 138 | 146 | 156 | 165 | 174 | 183 | 192 | 200 |
| 1600 | 135 | 144 | 154 | 163 | 172 | 182 | 192 | 200 | 210 |
| 1700 | 141 | 152 | 161 | 171 | 182 | 192 | 201 | 212 | 221 |
| 1800 | 149 | 158 | 170 | 180 | 191 | 200 | 212 | 222 | 233 |
| 1900 | 155 | 166 | 177 | 187 | 199 | 210 | 222 | 233 | 243 |
| 2000 | 161 | 173 | 184 | 197 | 208 | 220 | 231 | 243 | 256 |
| 2100 | 167 | 179 | 192 | 203 | 216 | 228 | 241 | 252 | 265 |
| 2200 | 172 | 184 | 199 | 212 | 224 | 237 | 249 | 262 | 275 |
| 2300 | 178 | 192 | 204 | 218 | 231 | 244 | 258 | 271 | 285 |
| 2400 | 183 | 198 | 212 | 225 | 239 | 254 | 267 | 281 | 294 |
| 2500 | 188 | 203 | 218 | 231 | 246 | 261 | 276 | 290 | 304 |

└ Flügelhöhe in mm
Sash height in mm

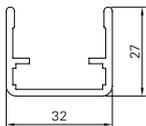
└ Flügelbreite in mm
Sash width in mm



| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 108 | 115 | 122 | 130 | 137 | 143 | 151 | 157 | 164 |
| 900 | 118 | 125 | 133 | 140 | 149 | 156 | 164 | 171 | 179 |
| 1000 | 126 | 135 | 143 | 153 | 160 | 170 | 177 | 185 | 195 |
| 1100 | 136 | 145 | 155 | 163 | 173 | 182 | 191 | 200 | 209 |
| 1200 | 144 | 155 | 165 | 175 | 184 | 195 | 204 | 214 | 225 |
| 1300 | 153 | 163 | 174 | 184 | 196 | 206 | 217 | 228 | 239 |
| 1400 | 160 | 172 | 184 | 195 | 206 | 218 | 228 | 241 | 252 |
| 1500 | 168 | 181 | 193 | 205 | 217 | 229 | 242 | 254 | 266 |
| 1600 | 176 | 188 | 202 | 215 | 228 | 241 | 255 | 267 | 280 |
| 1700 | 184 | 199 | 213 | 226 | 240 | 254 | 267 | 281 | 294 |
| 1800 | 195 | 208 | 223 | 238 | 252 | 267 | 281 | 296 | 310 |
| 1900 | 203 | 218 | 234 | 249 | 264 | 280 | 294 | 310 | 325 |
| 2000 | 213 | 228 | 244 | 260 | 276 | 292 | 308 | 325 | 341 |
| 2100 | 220 | 237 | 254 | 270 | 287 | 304 | 321 | 338 | 354 |
| 2200 | 228 | 245 | 263 | 281 | 298 | 315 | 332 | 350 | 368 |
| 2300 | 236 | 254 | 272 | 290 | 308 | 327 | 346 | 364 | 382 |
| 2400 | 243 | 262 | 282 | 301 | 319 | 339 | 357 | 376 | 395 |
| 2500 | 251 | 271 | 290 | 310 | 330 | 350 | 370 | 390 | 409 |

└ Flügelhöhe in mm
Sash height in mm

└ Flügelbreite in mm
Sash width in mm

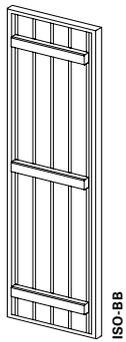
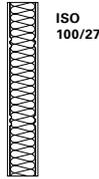
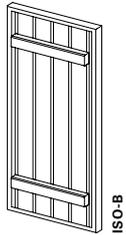


R27

Version Easyflex: ohne Aufpreis

No surcharge

ISO-B ISO-BB



| | 280 – 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 114 | 120 | 126 | 133 | 139 | 144 | 151 | 157 | 163 |
| 900 | 122 | 128 | 135 | 141 | 149 | 155 | 161 | 168 | 175 |
| 1000 | 129 | 136 | 143 | 151 | 157 | 164 | 172 | 179 | 185 |
| 1100 | 136 | 143 | 152 | 159 | 167 | 175 | 182 | 189 | 198 |
| 1200 | 143 | 152 | 160 | 168 | 176 | 184 | 193 | 201 | 209 |
| 1300 | 149 | 157 | 166 | 175 | 184 | 193 | 201 | 210 | 219 |
| 1400 | 155 | 163 | 173 | 182 | 192 | 200 | 210 | 219 | 228 |
| 1500 | 159 | 170 | 179 | 189 | 199 | 209 | 219 | 228 | 239 |
| 1600 | 165 | 176 | 185 | 197 | 206 | 217 | 228 | 238 | 248 |
| 1700 | 172 | 183 | 195 | 205 | 216 | 227 | 238 | 248 | 260 |
| 1800 | 180 | 191 | 202 | 214 | 226 | 237 | 248 | 260 | 271 |
| 1900 | 186 | 199 | 212 | 223 | 235 | 246 | 259 | 271 | 283 |
| 2000 | 194 | 206 | 219 | 231 | 244 | 258 | 269 | 282 | 294 |
| 2100 | 199 | 213 | 226 | 239 | 251 | 265 | 278 | 291 | 304 |
| 2200 | 205 | 218 | 231 | 245 | 259 | 272 | 287 | 301 | 314 |
| 2300 | 210 | 225 | 239 | 252 | 267 | 281 | 296 | 309 | 324 |
| 2400 | 216 | 230 | 245 | 260 | 275 | 289 | 304 | 319 | 333 |
| 2500 | 221 | 237 | 251 | 267 | 282 | 298 | 313 | 328 | 344 |

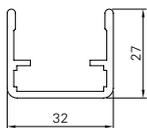
└ Flügelhöhe in mm
Sash height in mm

└ Flügelbreite in mm
Sash width in mm

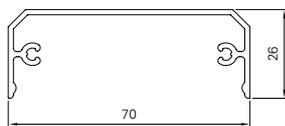
| | 280 – 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 141 | 150 | 158 | 167 | 175 | 184 | 193 | 201 | 209 |
| 900 | 151 | 160 | 170 | 179 | 187 | 198 | 206 | 216 | 225 |
| 1000 | 160 | 170 | 181 | 191 | 200 | 212 | 221 | 230 | 241 |
| 1100 | 170 | 181 | 192 | 202 | 214 | 224 | 235 | 245 | 257 |
| 1200 | 180 | 192 | 202 | 214 | 226 | 238 | 249 | 261 | 272 |
| 1300 | 187 | 199 | 213 | 225 | 237 | 249 | 261 | 273 | 287 |
| 1400 | 196 | 208 | 221 | 235 | 247 | 261 | 273 | 287 | 301 |
| 1500 | 202 | 217 | 230 | 244 | 258 | 272 | 286 | 301 | 314 |
| 1600 | 210 | 225 | 240 | 255 | 269 | 284 | 299 | 313 | 328 |
| 1700 | 220 | 236 | 251 | 266 | 282 | 298 | 313 | 328 | 344 |
| 1800 | 229 | 245 | 262 | 278 | 294 | 310 | 327 | 343 | 360 |
| 1900 | 240 | 257 | 272 | 290 | 307 | 324 | 341 | 359 | 375 |
| 2000 | 249 | 267 | 285 | 302 | 320 | 338 | 355 | 373 | 390 |
| 2100 | 258 | 275 | 293 | 312 | 331 | 349 | 367 | 386 | 405 |
| 2200 | 264 | 284 | 303 | 322 | 342 | 361 | 380 | 399 | 418 |
| 2300 | 272 | 292 | 312 | 331 | 352 | 372 | 392 | 412 | 432 |
| 2400 | 280 | 301 | 322 | 343 | 363 | 384 | 405 | 425 | 446 |
| 2500 | 287 | 309 | 331 | 352 | 374 | 395 | 417 | 438 | 460 |

└ Flügelhöhe in mm
Sash height in mm

└ Flügelbreite in mm
Sash width in mm



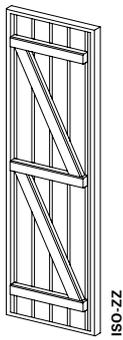
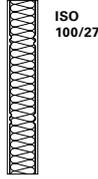
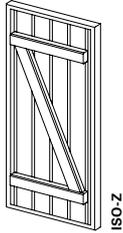
R27



LQ

| | | | |
|----------------------------------|------|---------|-----------------------------------|
| ISO-BB | | | |
| € + : Zusätzlicher Balkenaufsatz | 1005 | 34,45 € | * € + : Additional bar attachment |
| Version Easyflex: ohne Aufpreis | | | No surcharge |

ISO-Z ISO-ZZ



| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 122 | 129 | 136 | 141 | 149 | 155 | 161 | 168 | 175 |
| 900 | 131 | 138 | 144 | 153 | 159 | 166 | 173 | 181 | 187 |
| 1000 | 140 | 146 | 155 | 162 | 170 | 177 | 184 | 193 | 200 |
| 1100 | 147 | 156 | 164 | 172 | 181 | 188 | 197 | 205 | 214 |
| 1200 | 156 | 165 | 174 | 183 | 191 | 199 | 208 | 217 | 226 |
| 1300 | 163 | 172 | 181 | 191 | 199 | 209 | 218 | 228 | 237 |
| 1400 | 170 | 179 | 188 | 199 | 208 | 218 | 228 | 238 | 247 |
| 1500 | 176 | 186 | 197 | 207 | 217 | 228 | 238 | 248 | 258 |
| 1600 | 183 | 194 | 204 | 215 | 226 | 237 | 247 | 258 | 269 |
| 1700 | 191 | 202 | 214 | 225 | 237 | 248 | 259 | 271 | 282 |
| 1800 | 199 | 212 | 223 | 236 | 247 | 259 | 271 | 283 | 296 |
| 1900 | 208 | 220 | 233 | 245 | 258 | 270 | 283 | 296 | 308 |
| 2000 | 216 | 229 | 243 | 256 | 269 | 282 | 294 | 307 | 321 |
| 2100 | 223 | 237 | 250 | 264 | 277 | 290 | 304 | 318 | 331 |
| 2200 | 229 | 243 | 258 | 272 | 286 | 301 | 314 | 329 | 343 |
| 2300 | 236 | 250 | 265 | 280 | 294 | 309 | 324 | 339 | 353 |
| 2400 | 243 | 258 | 272 | 288 | 303 | 319 | 333 | 349 | 364 |
| 2500 | 249 | 265 | 281 | 297 | 312 | 328 | 344 | 360 | 375 |

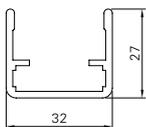
└ Flügelhöhe in mm
Sash height in mm

└ Flügelbreite in mm
Sash width in mm

| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 151 | 161 | 170 | 180 | 188 | 199 | 207 | 217 | 226 |
| 900 | 163 | 173 | 183 | 194 | 203 | 214 | 223 | 233 | 243 |
| 1000 | 175 | 185 | 197 | 207 | 218 | 228 | 239 | 249 | 260 |
| 1100 | 185 | 198 | 209 | 220 | 231 | 243 | 256 | 266 | 278 |
| 1200 | 198 | 210 | 222 | 234 | 246 | 258 | 271 | 283 | 296 |
| 1300 | 207 | 220 | 233 | 245 | 259 | 272 | 285 | 298 | 310 |
| 1400 | 216 | 229 | 243 | 258 | 271 | 285 | 299 | 312 | 326 |
| 1500 | 226 | 241 | 255 | 269 | 284 | 299 | 312 | 327 | 342 |
| 1600 | 236 | 250 | 266 | 281 | 296 | 311 | 326 | 342 | 356 |
| 1700 | 246 | 263 | 279 | 294 | 310 | 326 | 343 | 359 | 374 |
| 1800 | 258 | 275 | 291 | 308 | 325 | 342 | 359 | 375 | 391 |
| 1900 | 270 | 287 | 304 | 322 | 339 | 356 | 374 | 391 | 408 |
| 2000 | 281 | 300 | 317 | 335 | 353 | 372 | 390 | 407 | 426 |
| 2100 | 290 | 309 | 328 | 347 | 366 | 385 | 404 | 422 | 441 |
| 2200 | 301 | 320 | 339 | 359 | 377 | 397 | 417 | 436 | 456 |
| 2300 | 309 | 330 | 350 | 370 | 390 | 411 | 431 | 451 | 472 |
| 2400 | 319 | 340 | 361 | 382 | 404 | 424 | 446 | 466 | 487 |
| 2500 | 329 | 350 | 372 | 393 | 415 | 437 | 459 | 480 | 502 |

└ Flügelhöhe in mm
Sash height in mm

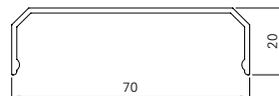
└ Flügelbreite in mm
Sash width in mm



R27



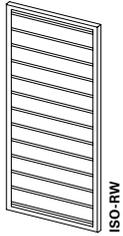
LQ



LZ

| | | | |
|---------------------------------------|------|--------|--|
| ISO-ZZ | | | |
| € + : Aufsatz Doppel-Z ab 180 mm Höhe | 1006 | 61,66€ | € + : Add-on double-Z from 180 mm height |
| Version Easyflex: ohne Aufpreis | | | No surcharge |

ISO-RW



ISO-RW
100/27



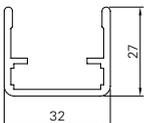
| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 800 | 89 | 93 | 98 | 103 | 109 | 114 | 118 | 123 | 129 | Flügelbreite in mm Sash width in mm |
| 900 | 95 | 101 | 107 | 113 | 118 | 123 | 130 | 135 | 141 | |
| 1000 | 102 | 109 | 115 | 121 | 128 | 134 | 140 | 145 | 152 | |
| 1100 | 110 | 117 | 122 | 130 | 137 | 144 | 150 | 157 | 164 | |
| 1200 | 117 | 123 | 131 | 139 | 145 | 153 | 161 | 168 | 175 | |
| 1300 | 121 | 130 | 138 | 145 | 154 | 162 | 171 | 178 | 185 | |
| 1400 | 128 | 136 | 144 | 153 | 162 | 171 | 179 | 187 | 197 | |
| 1500 | 133 | 142 | 151 | 161 | 171 | 179 | 188 | 197 | 206 | |
| 1600 | 139 | 149 | 158 | 168 | 177 | 187 | 197 | 206 | 217 | |
| 1700 | 145 | 156 | 166 | 176 | 187 | 197 | 207 | 218 | 227 | |
| 1800 | 153 | 163 | 174 | 185 | 197 | 206 | 218 | 228 | 240 | |
| 1900 | 159 | 171 | 182 | 194 | 205 | 217 | 228 | 240 | 250 | |
| 2000 | 166 | 178 | 191 | 202 | 215 | 226 | 239 | 250 | 263 | |
| 2100 | 172 | 184 | 197 | 209 | 222 | 235 | 248 | 260 | 273 | |
| 2200 | 177 | 191 | 204 | 218 | 230 | 244 | 257 | 270 | 283 | |
| 2300 | 183 | 197 | 210 | 224 | 239 | 251 | 266 | 279 | 293 | |
| 2400 | 188 | 203 | 218 | 231 | 246 | 261 | 275 | 289 | 303 | |
| 2500 | 195 | 209 | 224 | 239 | 254 | 269 | 284 | 300 | 313 | |

Flügelhöhe in mm
Sash height in mm



| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 800 | 111 | 118 | 125 | 134 | 141 | 147 | 155 | 162 | 170 | Flügelbreite in mm Sash width in mm |
| 900 | 121 | 129 | 137 | 144 | 153 | 161 | 170 | 176 | 184 | |
| 1000 | 131 | 139 | 147 | 157 | 165 | 174 | 182 | 192 | 200 | |
| 1100 | 140 | 150 | 159 | 168 | 178 | 187 | 197 | 206 | 216 | |
| 1200 | 149 | 160 | 171 | 180 | 191 | 200 | 210 | 221 | 231 | |
| 1300 | 157 | 168 | 179 | 191 | 201 | 213 | 223 | 235 | 246 | |
| 1400 | 165 | 177 | 189 | 200 | 213 | 224 | 236 | 248 | 260 | |
| 1500 | 173 | 186 | 198 | 212 | 223 | 237 | 248 | 261 | 275 | |
| 1600 | 181 | 195 | 208 | 222 | 235 | 248 | 262 | 275 | 288 | |
| 1700 | 191 | 204 | 219 | 233 | 247 | 261 | 275 | 289 | 303 | |
| 1800 | 200 | 215 | 229 | 245 | 260 | 275 | 289 | 304 | 320 | |
| 1900 | 209 | 224 | 241 | 257 | 272 | 288 | 303 | 320 | 334 | |
| 2000 | 219 | 235 | 251 | 268 | 284 | 301 | 318 | 334 | 351 | |
| 2100 | 226 | 244 | 261 | 278 | 296 | 313 | 330 | 348 | 365 | |
| 2200 | 235 | 252 | 271 | 289 | 306 | 325 | 343 | 361 | 380 | |
| 2300 | 243 | 261 | 280 | 300 | 318 | 336 | 355 | 375 | 393 | |
| 2400 | 250 | 270 | 290 | 309 | 328 | 349 | 368 | 388 | 407 | |
| 2500 | 259 | 279 | 300 | 320 | 340 | 361 | 381 | 402 | 422 | |

Flügelhöhe in mm
Sash height in mm

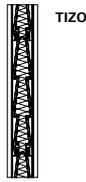
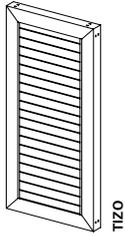


R27

Version Easyflex: ohne Aufpreis

No surcharge

TIZO



| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 800 | 163 | 171 | 179 | 186 | 193 | 200 | 208 | 216 | 223 | Flügelbreite in mm Sash width in mm |
| 900 | 175 | 182 | 189 | 197 | 204 | 213 | 220 | 228 | 235 | |
| 1000 | 186 | 194 | 201 | 210 | 217 | 224 | 232 | 239 | 249 | |
| 1100 | 197 | 204 | 213 | 221 | 229 | 236 | 243 | 253 | 260 | |
| 1200 | 208 | 216 | 224 | 232 | 240 | 249 | 256 | 265 | 272 | |
| 1300 | 217 | 224 | 233 | 240 | 250 | 257 | 266 | 273 | 282 | |
| 1400 | 224 | 233 | 240 | 250 | 257 | 266 | 274 | 282 | 291 | |
| 1500 | 232 | 240 | 250 | 258 | 266 | 274 | 283 | 292 | 300 | |
| 1600 | 240 | 250 | 258 | 266 | 274 | 283 | 292 | 301 | 309 | |
| 1700 | 252 | 260 | 269 | 277 | 286 | 295 | 304 | 312 | 321 | |
| 1800 | 262 | 272 | 280 | 290 | 298 | 307 | 315 | 324 | 334 | |
| 1900 | 274 | 283 | 292 | 301 | 310 | 319 | 327 | 338 | 346 | |
| 2000 | 320 | 329 | 339 | 347 | 357 | 366 | 375 | 384 | 393 | |
| 2100 | 328 | 338 | 346 | 356 | 365 | 375 | 384 | 393 | 402 | |
| 2200 | 337 | 345 | 355 | 365 | 374 | 383 | 393 | 401 | 412 | |
| 2300 | 344 | 354 | 363 | 374 | 382 | 392 | 401 | 412 | 421 | |
| 2400 | 353 | 362 | 372 | 381 | 391 | 400 | 411 | 420 | 430 | |
| 2500 | 360 | 370 | 380 | 390 | 399 | 410 | 419 | 429 | 438 | |

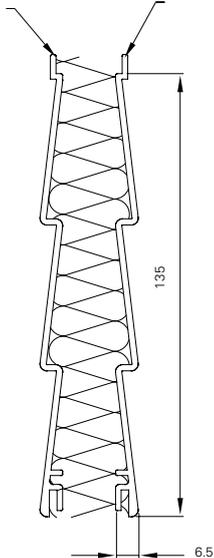
└ Flügelhöhe in mm
Sash height in mm

| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 800 | 191 | 201 | 212 | 221 | 232 | 241 | 253 | 262 | 273 | Flügelbreite in mm Sash width in mm |
| 900 | 204 | 217 | 228 | 239 | 252 | 262 | 274 | 285 | 297 | |
| 1000 | 219 | 232 | 245 | 258 | 271 | 283 | 296 | 309 | 322 | |
| 1100 | 234 | 249 | 262 | 275 | 290 | 304 | 318 | 332 | 346 | |
| 1200 | 249 | 264 | 278 | 294 | 309 | 324 | 340 | 355 | 369 | |
| 1300 | 259 | 275 | 293 | 309 | 325 | 342 | 359 | 376 | 392 | |
| 1400 | 271 | 289 | 306 | 324 | 342 | 360 | 378 | 395 | 414 | |
| 1500 | 282 | 301 | 320 | 340 | 358 | 378 | 396 | 416 | 434 | |
| 1600 | 293 | 313 | 334 | 354 | 375 | 395 | 416 | 435 | 456 | |
| 1700 | 307 | 328 | 350 | 373 | 394 | 416 | 437 | 459 | 479 | |
| 1800 | 322 | 345 | 367 | 391 | 414 | 436 | 459 | 482 | 505 | |
| 1900 | 337 | 360 | 384 | 408 | 433 | 457 | 481 | 505 | 528 | |
| 2000 | 385 | 411 | 436 | 462 | 486 | 512 | 538 | 562 | 589 | |
| 2100 | 396 | 423 | 450 | 476 | 503 | 530 | 556 | 583 | 609 | |
| 2200 | 409 | 435 | 464 | 492 | 519 | 547 | 576 | 602 | 631 | |
| 2300 | 419 | 449 | 477 | 506 | 536 | 564 | 594 | 623 | 653 | |
| 2400 | 430 | 460 | 491 | 521 | 552 | 582 | 613 | 643 | 673 | |
| 2500 | 441 | 473 | 505 | 537 | 567 | 599 | 632 | 664 | 695 | |

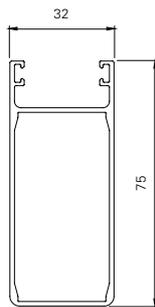
└ Flügelhöhe in mm
Sash height in mm

Lamelle innen
Inside slat

Lamelle außen
Outside slat



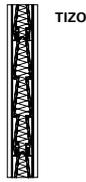
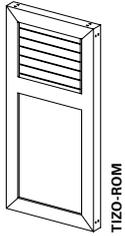
TIZO



TZR75

| | | | | |
|------------|-------|------|--------|------------------------|
| Querfries | 60 mm | 1001 | 34,23€ | Horizontal cross-panel |
| Längsfries | 60 mm | 2001 | 65,28€ | Vertical cross-panel |

TIZO-ROM



| | 280-400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 191 | 197 | 203 | 209 | 215 | 221 | 226 | 234 | 240 |
| 900 | 202 | 209 | 218 | 225 | 235 | 242 | 248 | 258 | 265 |
| 1000 | 212 | 222 | 231 | 242 | 252 | 262 | 272 | 282 | 292 |
| 1100 | 223 | 236 | 246 | 259 | 271 | 282 | 294 | 305 | 318 |
| 1200 | 235 | 247 | 262 | 276 | 289 | 302 | 317 | 331 | 345 |
| 1300 | 241 | 257 | 272 | 287 | 303 | 320 | 334 | 351 | 366 |
| 1400 | 247 | 265 | 282 | 301 | 318 | 335 | 353 | 371 | 389 |
| 1500 | 257 | 277 | 297 | 315 | 334 | 355 | 374 | 393 | 413 |
| 1600 | 266 | 287 | 309 | 331 | 352 | 373 | 395 | 418 | 439 |
| 1700 | 276 | 300 | 323 | 347 | 369 | 392 | 416 | 440 | 464 |
| 1800 | 285 | 310 | 335 | 363 | 387 | 412 | 438 | 462 | 488 |
| 1900 | 296 | 322 | 350 | 376 | 404 | 431 | 458 | 486 | 513 |
| 2000 | 303 | 333 | 363 | 392 | 422 | 451 | 480 | 509 | 539 |
| 2100 | 313 | 345 | 375 | 407 | 439 | 470 | 501 | 533 | 563 |
| 2200 | 323 | 356 | 390 | 423 | 456 | 488 | 521 | 555 | 588 |
| 2300 | 332 | 367 | 403 | 438 | 474 | 508 | 542 | 578 | 613 |
| 2400 | 342 | 378 | 416 | 452 | 490 | 527 | 564 | 601 | 638 |
| 2500 | 351 | 391 | 429 | 468 | 508 | 545 | 585 | 625 | 663 |

Flügelbreite in mm
Sash width in mm

Flügelhöhe in mm
Sash height in mm



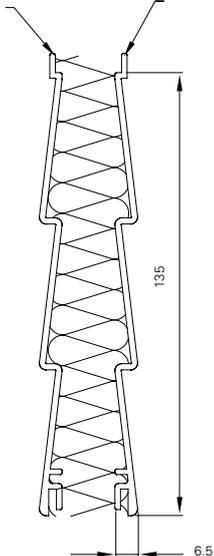
| | 280-400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 220 | 228 | 239 | 246 | 256 | 265 | 273 | 282 | 292 |
| 900 | 235 | 244 | 257 | 267 | 279 | 290 | 302 | 312 | 324 |
| 1000 | 247 | 262 | 275 | 289 | 302 | 315 | 329 | 342 | 356 |
| 1100 | 262 | 278 | 294 | 309 | 326 | 340 | 356 | 372 | 388 |
| 1200 | 276 | 294 | 312 | 331 | 348 | 366 | 385 | 403 | 420 |
| 1300 | 286 | 307 | 327 | 347 | 367 | 388 | 408 | 427 | 448 |
| 1400 | 297 | 319 | 341 | 364 | 387 | 409 | 430 | 452 | 476 |
| 1500 | 309 | 333 | 359 | 384 | 408 | 432 | 457 | 482 | 507 |
| 1600 | 322 | 349 | 375 | 403 | 429 | 456 | 482 | 510 | 537 |
| 1700 | 334 | 364 | 392 | 423 | 451 | 480 | 510 | 539 | 569 |
| 1800 | 347 | 378 | 410 | 441 | 474 | 504 | 536 | 567 | 599 |
| 1900 | 360 | 393 | 427 | 460 | 495 | 528 | 561 | 596 | 629 |
| 2000 | 372 | 409 | 445 | 481 | 516 | 552 | 588 | 624 | 661 |
| 2100 | 386 | 424 | 461 | 500 | 538 | 576 | 614 | 653 | 690 |
| 2200 | 397 | 439 | 479 | 519 | 559 | 600 | 641 | 681 | 722 |
| 2300 | 411 | 453 | 496 | 539 | 581 | 624 | 666 | 709 | 752 |
| 2400 | 424 | 469 | 513 | 558 | 602 | 648 | 692 | 738 | 783 |
| 2500 | 437 | 482 | 531 | 577 | 625 | 671 | 720 | 766 | 813 |

Flügelbreite in mm
Sash width in mm

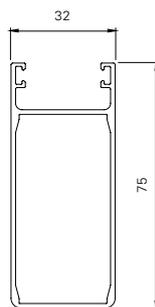
Flügelhöhe in mm
Sash height in mm

Lamelle innen
Inside slat

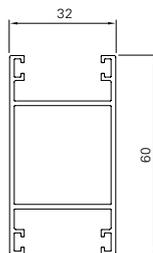
Lamelle außen
Outside slat



TIZO

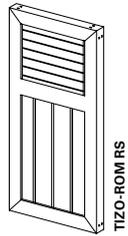


TZR75



TZQ60

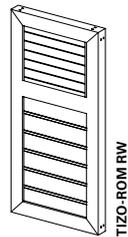
TIZO-ROM-RS TIZO-ROM-RW



TIZO-ROM-RS



TIZO

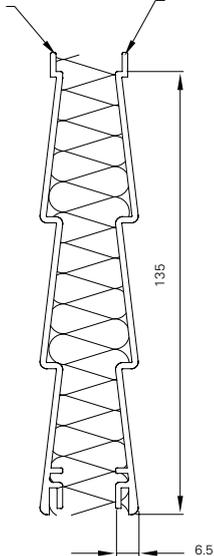


TIZO-ROM-RW

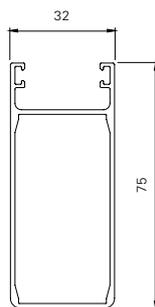


Lamelle innen
Inside slat

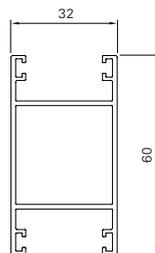
Lamelle außen
Outside slat



TIZO



TZR75



TZQ60

| | 280-400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 209 | 217 | 223 | 230 | 236 | 243 | 249 | 257 | 264 |
| 900 | 222 | 230 | 240 | 247 | 258 | 266 | 273 | 284 | 291 |
| 1000 | 233 | 244 | 255 | 266 | 278 | 288 | 300 | 310 | 322 |
| 1100 | 245 | 259 | 270 | 285 | 299 | 310 | 324 | 335 | 349 |
| 1200 | 258 | 272 | 288 | 303 | 319 | 332 | 348 | 365 | 380 |
| 1300 | 265 | 282 | 300 | 315 | 333 | 351 | 368 | 386 | 403 |
| 1400 | 272 | 291 | 310 | 331 | 349 | 369 | 389 | 408 | 428 |
| 1500 | 282 | 304 | 326 | 347 | 368 | 391 | 412 | 432 | 454 |
| 1600 | 292 | 315 | 340 | 365 | 388 | 411 | 435 | 460 | 483 |
| 1700 | 303 | 330 | 355 | 382 | 406 | 431 | 458 | 485 | 510 |
| 1800 | 313 | 342 | 369 | 399 | 426 | 453 | 482 | 509 | 536 |
| 1900 | 325 | 354 | 385 | 414 | 444 | 474 | 504 | 534 | 564 |
| 2000 | 333 | 367 | 399 | 431 | 464 | 496 | 529 | 559 | 593 |
| 2100 | 345 | 380 | 413 | 448 | 483 | 517 | 552 | 586 | 620 |
| 2200 | 355 | 392 | 429 | 465 | 501 | 536 | 574 | 611 | 647 |
| 2300 | 366 | 404 | 443 | 482 | 521 | 558 | 597 | 636 | 674 |
| 2400 | 376 | 416 | 458 | 497 | 539 | 579 | 621 | 661 | 702 |
| 2500 | 386 | 430 | 472 | 515 | 558 | 600 | 644 | 688 | 729 |

Flügelhöhe in mm
Sash height in mm

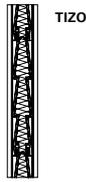
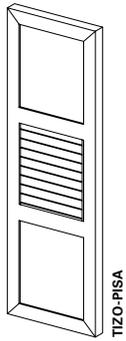
Flügelbreite in mm
Sash width in mm

| | 280-400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 242 | 251 | 263 | 270 | 281 | 291 | 301 | 310 | 322 |
| 900 | 258 | 268 | 282 | 293 | 307 | 320 | 332 | 344 | 356 |
| 1000 | 272 | 288 | 302 | 319 | 332 | 347 | 362 | 376 | 392 |
| 1100 | 288 | 305 | 324 | 340 | 359 | 373 | 392 | 409 | 427 |
| 1200 | 303 | 324 | 344 | 365 | 383 | 403 | 424 | 443 | 462 |
| 1300 | 314 | 338 | 360 | 382 | 404 | 427 | 449 | 470 | 493 |
| 1400 | 326 | 350 | 374 | 401 | 426 | 450 | 473 | 497 | 523 |
| 1500 | 340 | 367 | 394 | 423 | 449 | 475 | 503 | 531 | 557 |
| 1600 | 354 | 384 | 413 | 443 | 472 | 501 | 531 | 561 | 591 |
| 1700 | 368 | 401 | 431 | 465 | 496 | 529 | 561 | 593 | 625 |
| 1800 | 382 | 416 | 451 | 486 | 521 | 555 | 590 | 624 | 659 |
| 1900 | 395 | 432 | 470 | 507 | 544 | 580 | 617 | 656 | 692 |
| 2000 | 409 | 450 | 489 | 530 | 567 | 607 | 647 | 686 | 727 |
| 2100 | 425 | 466 | 508 | 551 | 592 | 634 | 675 | 718 | 760 |
| 2200 | 437 | 483 | 528 | 571 | 615 | 660 | 705 | 749 | 794 |
| 2300 | 452 | 498 | 545 | 593 | 639 | 686 | 732 | 781 | 828 |
| 2400 | 466 | 516 | 564 | 614 | 662 | 713 | 762 | 811 | 861 |
| 2500 | 481 | 531 | 584 | 635 | 688 | 739 | 792 | 843 | 894 |

Flügelhöhe in mm
Sash height in mm

Flügelbreite in mm
Sash width in mm

TIZO-PISA



| | 280-400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 229 | 237 | 243 | 249 | 258 | 264 | 272 | 278 | 284 |
| 900 | 242 | 249 | 258 | 265 | 273 | 281 | 289 | 298 | 304 |
| 1000 | 254 | 263 | 272 | 280 | 290 | 299 | 307 | 317 | 326 |
| 1100 | 266 | 276 | 285 | 296 | 305 | 315 | 326 | 334 | 346 |
| 1200 | 278 | 289 | 300 | 311 | 322 | 332 | 343 | 354 | 365 |
| 1300 | 284 | 298 | 309 | 321 | 332 | 345 | 356 | 368 | 380 |
| 1400 | 292 | 304 | 318 | 331 | 343 | 356 | 369 | 383 | 394 |
| 1500 | 302 | 315 | 330 | 343 | 357 | 371 | 386 | 398 | 413 |
| 1600 | 312 | 328 | 342 | 357 | 372 | 387 | 402 | 416 | 431 |
| 1700 | 323 | 339 | 354 | 370 | 387 | 403 | 419 | 433 | 450 |
| 1800 | 332 | 350 | 367 | 385 | 401 | 418 | 434 | 451 | 468 |
| 1900 | 343 | 363 | 378 | 396 | 415 | 432 | 451 | 469 | 486 |
| 2000 | 354 | 372 | 392 | 410 | 429 | 449 | 467 | 486 | 504 |
| 2100 | 364 | 385 | 404 | 424 | 444 | 464 | 482 | 503 | 522 |
| 2200 | 374 | 394 | 416 | 437 | 458 | 479 | 500 | 520 | 541 |
| 2300 | 386 | 407 | 428 | 451 | 472 | 494 | 516 | 538 | 560 |
| 2400 | 394 | 419 | 441 | 464 | 486 | 510 | 533 | 555 | 578 |
| 2500 | 406 | 429 | 452 | 478 | 501 | 524 | 549 | 573 | 597 |

Flügelbreite in mm
Sash width in mm

Flügelhöhe in mm
Sash height in mm

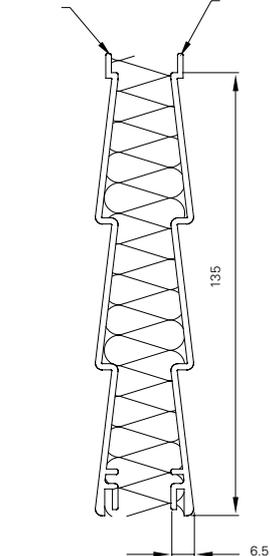
| | 280-400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| 800 | 260 | 270 | 280 | 290 | 301 | 310 | 321 | 331 | 341 |
| 900 | 275 | 286 | 299 | 309 | 321 | 332 | 345 | 356 | 368 |
| 1000 | 290 | 302 | 317 | 330 | 342 | 355 | 368 | 382 | 393 |
| 1100 | 305 | 320 | 333 | 349 | 363 | 377 | 392 | 407 | 422 |
| 1200 | 321 | 336 | 352 | 368 | 385 | 401 | 415 | 431 | 448 |
| 1300 | 331 | 348 | 365 | 383 | 398 | 416 | 434 | 452 | 469 |
| 1400 | 341 | 360 | 377 | 396 | 415 | 433 | 452 | 471 | 490 |
| 1500 | 354 | 374 | 394 | 414 | 434 | 454 | 475 | 495 | 515 |
| 1600 | 368 | 390 | 411 | 432 | 453 | 476 | 497 | 518 | 540 |
| 1700 | 382 | 405 | 427 | 450 | 474 | 496 | 518 | 542 | 564 |
| 1800 | 394 | 420 | 444 | 468 | 493 | 516 | 541 | 564 | 590 |
| 1900 | 409 | 434 | 459 | 485 | 512 | 537 | 562 | 588 | 614 |
| 2000 | 423 | 449 | 477 | 503 | 531 | 558 | 585 | 612 | 638 |
| 2100 | 435 | 464 | 493 | 521 | 550 | 578 | 606 | 635 | 663 |
| 2200 | 449 | 479 | 509 | 539 | 570 | 599 | 629 | 660 | 689 |
| 2300 | 462 | 494 | 524 | 557 | 588 | 619 | 650 | 683 | 713 |
| 2400 | 477 | 509 | 542 | 574 | 607 | 639 | 672 | 705 | 739 |
| 2500 | 489 | 523 | 558 | 593 | 627 | 661 | 693 | 728 | 763 |

Flügelbreite in mm
Sash width in mm

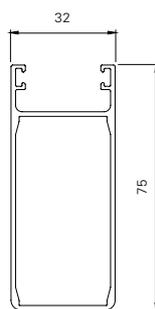
Flügelhöhe in mm
Sash height in mm

Lamelle innen
Inside slat

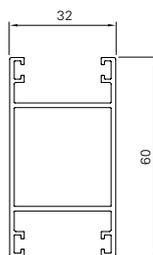
Lamelle außen
Outside slat



TIZO

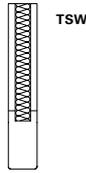
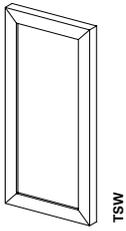


TZR75



TZQ60

TSW



| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 800 | 132 | 138 | 143 | 148 | 152 | 158 | 163 | 169 | 175 | Flügelbreite in mm Sash width in mm |
| 900 | 141 | 147 | 152 | 158 | 164 | 170 | 176 | 182 | 187 | |
| 1000 | 149 | 156 | 162 | 169 | 176 | 182 | 188 | 195 | 200 | |
| 1100 | 159 | 166 | 172 | 180 | 186 | 194 | 200 | 207 | 215 | |
| 1200 | 168 | 176 | 183 | 191 | 197 | 204 | 213 | 220 | 228 | |
| 1300 | 175 | 183 | 191 | 198 | 207 | 215 | 222 | 230 | 238 | |
| 1400 | 181 | 189 | 198 | 207 | 216 | 223 | 232 | 240 | 250 | |
| 1500 | 188 | 197 | 205 | 216 | 224 | 233 | 241 | 252 | 260 | |
| 1600 | 195 | 204 | 214 | 223 | 233 | 242 | 252 | 261 | 271 | |
| 1700 | 203 | 214 | 224 | 234 | 243 | 254 | 265 | 274 | 284 | |
| 1800 | 214 | 223 | 234 | 245 | 255 | 266 | 276 | 287 | 297 | |
| 1900 | 222 | 233 | 243 | 255 | 267 | 277 | 289 | 300 | 310 | |
| 2000 | 231 | 242 | 254 | 266 | 277 | 290 | 301 | 312 | 324 | |
| 2100 | 237 | 250 | 262 | 274 | 286 | 298 | 310 | 323 | 335 | |
| 2200 | 245 | 257 | 270 | 282 | 295 | 308 | 320 | 333 | 346 | |
| 2300 | 287 | 300 | 312 | 326 | 339 | 351 | 366 | 379 | 392 | |
| 2400 | 293 | 307 | 320 | 335 | 347 | 361 | 376 | 389 | 402 | |
| 2500 | 300 | 313 | 328 | 342 | 357 | 372 | 385 | 399 | 414 | |

Flügelhöhe in mm
Sash height in mm

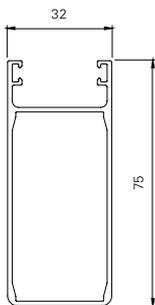
Preis
inkl.
Querfries
Price incl.
horizontal
cross-panel



| | 280– 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 800 | 162 | 171 | 180 | 187 | 196 | 204 | 214 | 222 | 231 | Flügelbreite in mm Sash width in mm |
| 900 | 175 | 184 | 194 | 202 | 213 | 222 | 231 | 240 | 251 | |
| 1000 | 187 | 198 | 208 | 218 | 229 | 238 | 250 | 259 | 270 | |
| 1100 | 200 | 212 | 222 | 234 | 245 | 256 | 267 | 277 | 290 | |
| 1200 | 213 | 225 | 237 | 250 | 261 | 273 | 285 | 297 | 309 | |
| 1300 | 223 | 236 | 250 | 262 | 274 | 287 | 301 | 313 | 326 | |
| 1400 | 234 | 248 | 261 | 275 | 289 | 303 | 315 | 330 | 344 | |
| 1500 | 243 | 259 | 273 | 287 | 303 | 316 | 332 | 346 | 361 | |
| 1600 | 255 | 270 | 285 | 301 | 316 | 332 | 347 | 362 | 379 | |
| 1700 | 268 | 284 | 301 | 316 | 333 | 349 | 365 | 382 | 398 | |
| 1800 | 279 | 297 | 314 | 332 | 348 | 365 | 383 | 400 | 418 | |
| 1900 | 293 | 310 | 328 | 347 | 364 | 383 | 400 | 419 | 437 | |
| 2000 | 306 | 324 | 343 | 362 | 381 | 399 | 419 | 437 | 457 | |
| 2100 | 315 | 335 | 355 | 376 | 395 | 415 | 434 | 454 | 474 | |
| 2200 | 326 | 347 | 367 | 388 | 409 | 430 | 450 | 471 | 490 | |
| 2300 | 372 | 393 | 415 | 436 | 457 | 478 | 501 | 522 | 543 | |
| 2400 | 382 | 403 | 427 | 450 | 471 | 494 | 516 | 539 | 560 | |
| 2500 | 392 | 416 | 438 | 463 | 485 | 508 | 532 | 555 | 578 | |

Flügelhöhe in mm
Sash height in mm

Preis
inkl.
Querfries
Price incl.
horizontal
cross-panel



TZR75

| TSW | | | | |
|---------------------------------|-------|------|--------------|------------------------|
| Querfries | 60 mm | 1001 | 34,23 € | Horizontal cross-panel |
| Längsfries | 60 mm | 2001 | 65,28 € | Vertical cross-panel |
| Version Easyflex: ohne Aufpreis | | | No surcharge | |

| | | | | |
|------------|-----------------|----------------------------|------------------------------|-----|
| Klappläden | Window shutters | Anschlagschemen | Stop schemes | 9 |
| | | Beschlagpakete | Hardware packages | 13 |
| | | Feststehende Lamellen | Fixed slats | 21 |
| | | Bewegliche Lamellen | Moving slats | 37 |
| | | Geschlossene Modelle | Closed models | 51 |
| | | Isolierende Modelle | Insulating models | 73 |
| | | Sonderformen und Optionen | Special shapes and options | 85 |
| | | Vormontage | Pre-installation | 99 |
| | | Beschläge | Fittings | 109 |
| | | Zubehör | Accessories | 119 |
| | | Montagerahmen / Zargen | Installation frames / frames | 139 |
| | | Motorisierung und Antriebe | Motorisation and drives | 165 |
| | | Diverses | Miscellaneous | 171 |

A

B

C

D

E

F

G

H

I

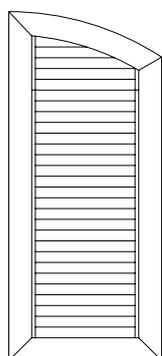
J

K

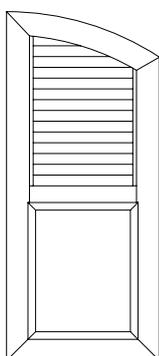
L

M

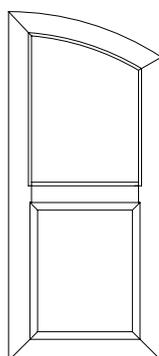
Sonderformen Special shapes



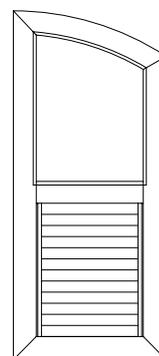
A



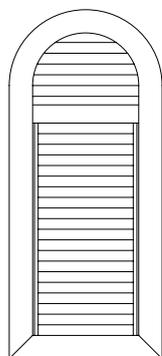
B



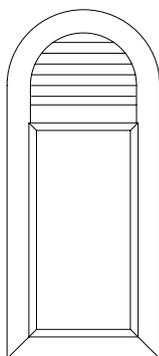
C



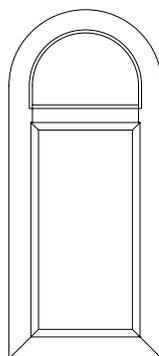
D



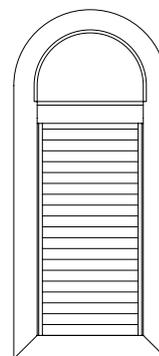
E



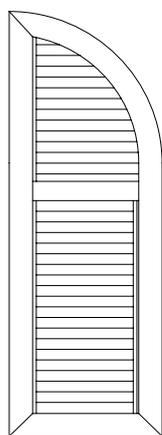
F



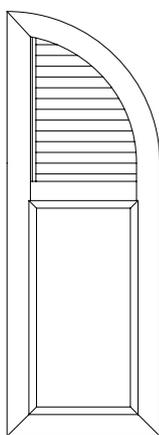
G



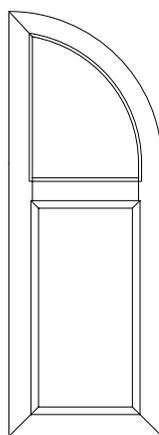
H



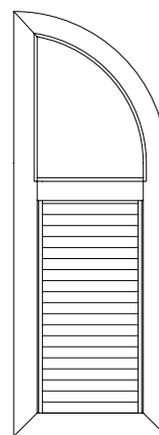
I



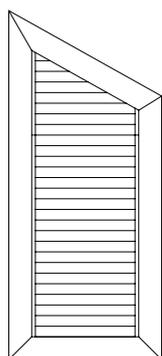
J



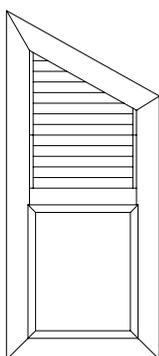
K



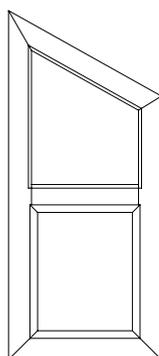
L



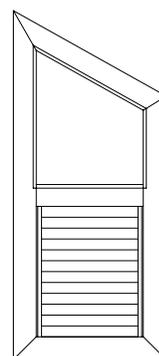
M



N

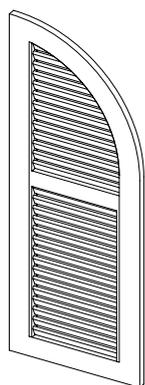


O



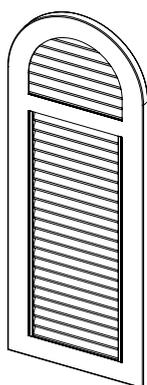
P

Rundbogenformen mit gebogenem Rahmenprofil / Round arch shapes with arched frame profile



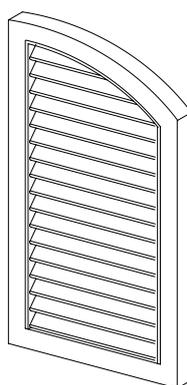
Viertelbogen mit Querfries, Radius min. 300 mm
Quarter arch with horizontal cross-panel, radius min. 300 mm

5981 434.70 €



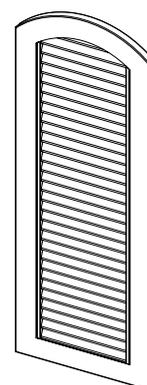
Halbrundbogen mit Querfries, ausgearbeitet
Worked half round arch with horizontal cross-panel

5989 486.45 €



Stichbogen ausgearbeitet
Worked segmental arch

5982 253.58 €

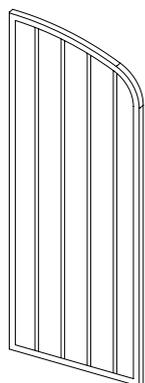


Halbstichbogen ausgearbeitet
Worked half segmental arch

5985 298.08 €

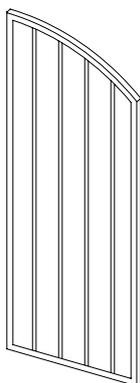
G

Rundbogenformen für Modell DIJON / ISO / Round arch shapes for model DIJON / ISO



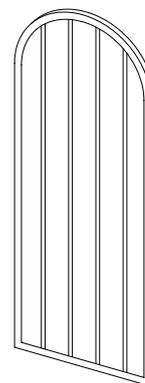
Korbbogen DIJON/ISO
Three-centred arch DIJON/ISO

2925 443.59 €



Stichbogen DIJON/ISO ausgearbeitet
Worked segmental arch DIJON/ISO

2926 170.60 €



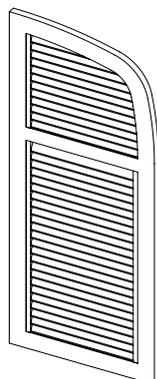
Halbrundbogen DIJON/ISO ausgearbeitet
Worked half round arch DIJON/ISO

2928 266.60 €

INFO

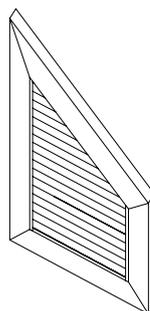
- Bewegliche und überstehende Lamellen im Bogen nicht möglich
- Querfries unterhalb des Bogenendes positioniert
- Nicht für Modelle ES, EMS und Modellreihe ACO erhältlich
- Aufpreis für Stichbogen ausgearbeitet bei Ausführung ohne Querfries und mit beweglichen Lamellen
- Dekor nicht möglich bei Art.-Nr. 5981, 5982, 5985, 5989
- Nicht für Modelle Easyflex möglich
- Movable and overlapping slats are not possible in an arch
- Horizontal cross-panel is positioned beneath the end of the arch
- Not available for ES, EMS and the ACO model series
- Surcharge for "Worked segmental arch" in the version without cross-panel and with moving slats
- Finishes not possible on art. nos. 5981, 5982, 5985, 5989
- Not possible for the Easyflex models

Aufpreis für ausgearbeitete Schräge / Korbbogen / Surcharge for worked angle / three-centred arch



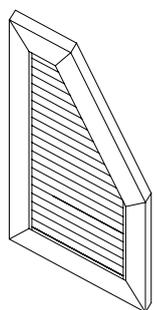
Korbbogen mit Querfries
Three-centred arch with horizontal cross-panel

| | |
|------|----------|
| 5983 | 538.20 € |
|------|----------|



Schräge ausgearbeitet Typ 1
Worked angle Type 1

| | |
|------|----------|
| 5931 | 291.83 € |
|------|----------|

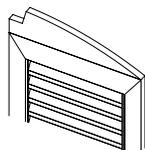


Schräge ausgearbeitet Typ 2
Worked angle Type 2

| | |
|------|----------|
| 5932 | 334.62 € |
|------|----------|

| INFO |
|---|
| <ul style="list-style-type: none"> • bewegliche und überstehende Lamellen im Bogen nicht möglich • Querfries unterhalb des Bogenendes positioniert • Nicht für Modelle ES, EMS und Modellreihe ACO erhältlich • kein Dekor möglich • nicht für Modelle Easyflex möglich • Movable and overlapping slats are not possible in an arch • Horizontal cross-panel is positioned beneath the end of the arch • Not available for ES, EMS and the ACO model series • Finishing not possible • Not possible for the Easyflex models |

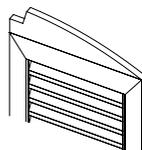
Ausklinkungen bei Aufsätzen / Notchings in add-ons



Ausklinkung bei Massiv-Aluminium aus Massiv-Aluminium bis 100 mm
Notching on solid aluminium made of solid aluminium up to 100 mm

| | |
|-------|---------|
| 15920 | 40.05 € |
|-------|---------|

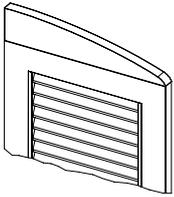
| INFO |
|--|
| <ul style="list-style-type: none"> • kein Dekor möglich • Finishing not possible |



Ausklinkung bei Hohlkonstruktion bis 200 mm
Notching on hollow construction up to 200 mm

| | | |
|----------------------------------|-------|---------|
| RAL-Farben RAL colours | 15922 | 55.41 € |
| Holzdekor Wood finish | 15926 | 68.57 € |

Stichbogen aufgesetzt / Mounted segmental arch



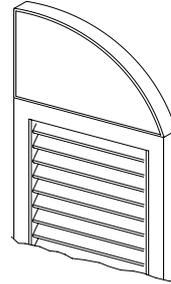
Stichbogen aus Massiv-
Aluminium, bis 100 mm Höhe, je
Flügel

Segmental arch from solid
aluminium, up to 100 mm height,
per sash

5920 201.83 €

INFO

- nicht in Dekor lieferbar
- Not available with finish

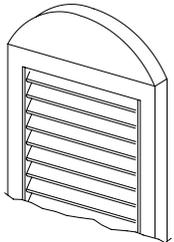


Stichbogen als Hohlkonstruktion,
min. 50 mm bis max. 200 mm
Höhe, je Flügel

Segmental arch as hollow
construction, min. 50 mm to
max. 200 mm height, per sash

RAL / VSR / NCS 5922 186.30 €

Dekore / Finishes 5926 212.18 €



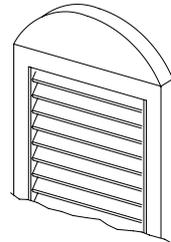
Halbstichbogen aus Massiv-
Aluminium, bis 100 mm Höhe,
je Flügel

Half segmental arch from solid
aluminium, up to 100 mm height,
per sash

5924 238.05 €

INFO

- auch als Hohlkonstruktion bis 200 mm
lieferbar (Art.-Nr. 5925)
- nicht in Dekor lieferbar
- Also available as a hollow construction
up to 200 mm (art. no. 5925)
- Not available with finish



Halbstichbogen als Hohl-
konstruktion, min. 50 mm bis
max. 200 mm Höhe, je Flügel

Half segmental arch as hollow
construction, min. 50 mm to
max. 200 mm height, per sash

RAL / VSR / NCS 5925 222.53 €

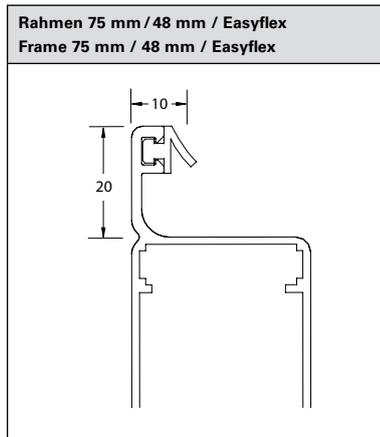
Dekore / Finishes 5928 248.40 €

INFO

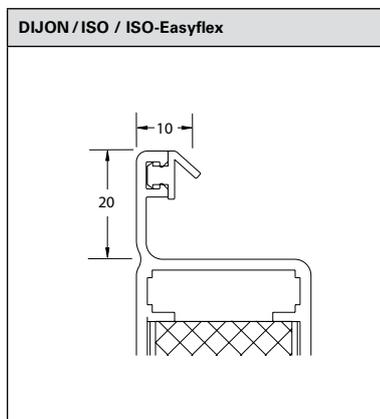
- Bewegliche und überstehende Lamellen im Bogen nicht möglich
- Movable and overlapping slats are not possible in an arch



Falzeisen / Rabbet beads



| Falzeisentyp Rabbet bead type | Beschreibung Description | | |
|-------------------------------------|---|------|---------|
| 1 | links, rechts, oben / Left, right, top | 6950 | 15.45 € |
| 2 | links, rechts, oben, unten / Left, right, top, bottom | 6951 | 15.45 € |
| 3 | links / Left | 6952 | 15.45 € |
| 4 | rechts / Right | 6953 | 15.45 € |
| 5 | oben / Top | 6954 | 15.45 € |
| 6 | unten / Bottom | 6955 | 15.45 € |
| 7 | links und rechts / Left and right | 6956 | 15.45 € |
| 8 | oben und unten / Top and bottom | 6957 | 15.45 € |
| 9 | links und oben / Left and top | 6958 | 15.45 € |
| 10 | rechts und oben / Right and top | 6959 | 15.45 € |



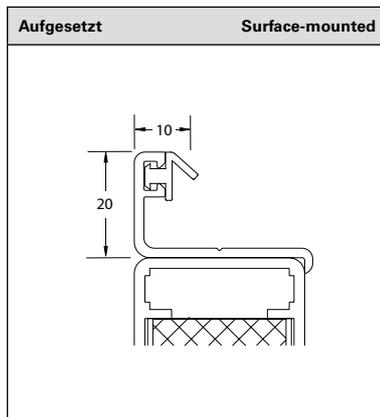
Falzeiste aufgesetzt für Stich-/Rundbogen,
Platzbedarf 3 mm, pro Flügel inkl. Bogen

Rabbet bead surface-mounted for segmental/round arch,
3 mm space required, per sash incl. arch

| | | |
|-------------------|------|---------|
| RAL / VSR / NCS | 6960 | 48.39 € |
| Dekore / Finishes | 6961 | 60.89 € |

INFO

- Bei der Kombination „Rundbogen und Falzeisen“ wird die Falzeiste als separates Profil montiert. Der Platzbedarf hierfür muss vom Besteller nicht abgezogen werden.
- Aufbau inkl. Gummidichtung = 10 mm
- Gummidichtung in weiß / schwarz, abhängig von Flügelfarbe
- Maß C vom Kloben muss mindestens 20 mm betragen
- In a combination of “round arch and rabbet beads”, the rabbet bead is mounted as a separate profile. The respective space required does not need to be deducted by the purchaser.
- Structure incl. rubber seal = 10 mm
- Rubber seal in white / black, depending on sash colour
- Dimension C of bracket must be at least 20 mm



Schlagleiste / Stop bead

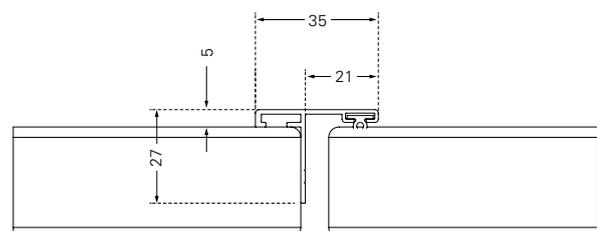


Schlagleiste zusätzlich
Stop bead (additional)

| | | |
|-----------------|--------|---------|
| blank bright | 120211 | 4.35 € |
| RAL/VSR/NCS | 120212 | 8.80 € |
| Dekore Finishes | 120213 | 11.39 € |

INFO

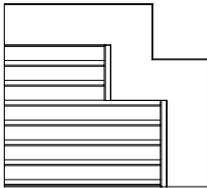
- Ausklinkung oben/unten nach Maßangabe
- Notching at top/bottom according to dimension specifications



Modellvarianten & Zubehör Model options & accessories

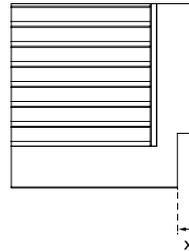
Ausklinkungen / Notchings

| INFO |
|---|
| <ul style="list-style-type: none"> • nicht für Modelle ES und EMS erhältlich • kein Dekor • kein Easyflex <ul style="list-style-type: none"> • Not available for models ES and EMS • No finishing • No Easyflex |



Rechteckige Ausklinkung,
(Schweißkonstruktion nach Skizze)
Square notching,
(welded construction per drawing)

15100 262.21 €

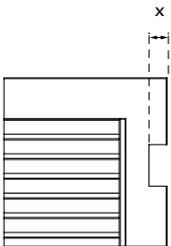


Rechteckige Ausklinkung an der
Ecke, max. 60 mm
Square notching on the corner,
max. 60 mm

X = max. 60 mm; min. 12 mm (R75)
X = max. 33 mm; min. 12 mm (R48)

15110 97.43 €

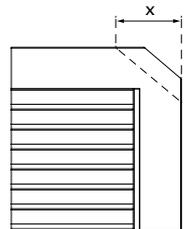
| INFO |
|---|
| <ul style="list-style-type: none"> • nicht möglich bei Modellen mit verstellbaren Lamellen <ul style="list-style-type: none"> • Not possible in combination with models with adjustable slats |



Rechteckige Ausklinkung in der Mitte
Square notching in centre

X = max. 60 mm; min. 12 mm (R75)
X = max. 33 mm; min. 12 mm (R48)

15111 130.56 €



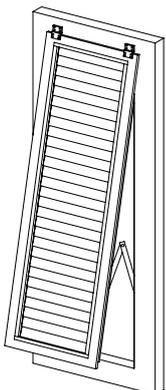
Schräge Ausklinkung an der Ecke
Angle notching on the corner

X = max. 90 mm (R75 bei 45°)
X = max. 40 mm (R48 bei 45°)

15112 81.19 €

| INFO |
|--|
| <ul style="list-style-type: none"> • Überschreitet die Ausklinkung eine Höhe von 200 mm, wird sie als Schweißkonstruktion, unterhalb von 200 mm als Abdeckung konstruiert. • Die Distanz der Ausklinkung zur Ober- bzw. Unterkante des Flügels darf max. 100 mm betragen. • Die Ausklinkungsbreite „X“ beträgt min. 12 mm und max. 60 mm bei Rahmen R75 bzw. max. 33 mm bei Rahmen R48. <ul style="list-style-type: none"> • If notching exceeds a height of 200 mm, it will be constructed as a welded construction, below 200 mm as a cover. • The distance of the notching to the upper or lower edge of the sash should be max. 100 mm. • The notching width “X” is min. 12 mm and max. 60 mm for frame R75 or max. 33 mm for frame R48. |

Aussteller / Opener

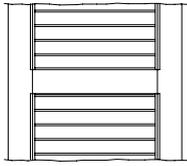


Aussteller
Opener

| | | |
|-------------------|------|---------|
| RAL / VSR / NCS | 5911 | 92.11 € |
| Dekore / Finishes | 5919 | 95.67 € |

| INFO |
|--|
| <ul style="list-style-type: none"> • nicht möglich bei Modellen mit verstellbaren Lamellen • minimale Flügelbreite 320 mm • minimale/maximale Ausstellerfeldhöhe 310/1700 mm • Ausladung des Ausstellers 380 mm • Unterkante Flügel bis Ausstellerhebel in Stellung nach unten 35 mm • Aufbau des Hebels 22 mm <ul style="list-style-type: none"> • Not possible in combination with models with adjustable slats • Minimum sash width 320 mm • Minimum/maximum opener panel height 310/1700 mm • Projection of opener 380 mm • Lower edge of sash to opener lever in downward position 35 mm • Structure of lever 22 mm |

Quer- und Längsfries / Horizontal and vertical cross-panels

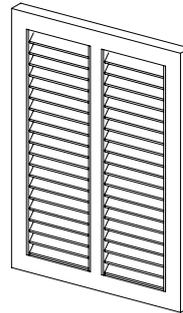


Querfries 60 mm
Horizontal cross-panel 60 mm

1002 43.45 €

INFO

- Kreuzförmige Konstruktion auf Anfrage!
- Cross-shaped construction on request!



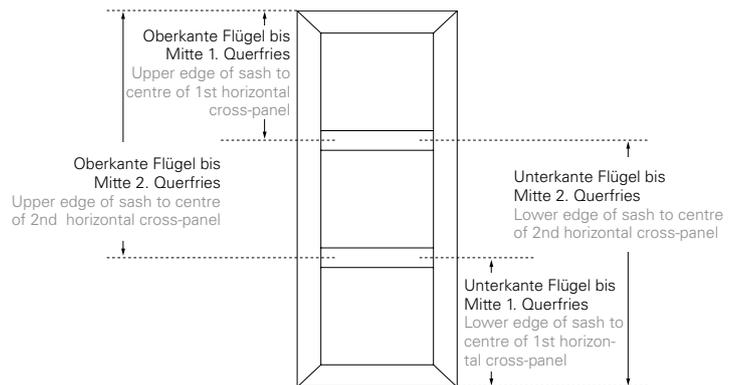
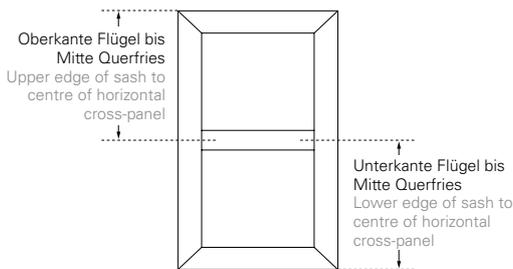
Längsfries 60 mm
Vertical cross-panel 60 mm

2002 79.54 €

Längsfries NICE 15 mm
Vertical cross-panel NICE 15 mm

2003 65.28 €

Maßanleitung Querfries / Measuring instructions for horizontal cross-panel

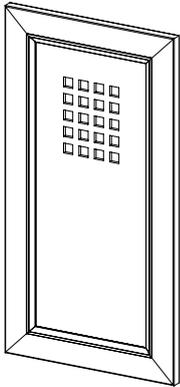


INFO

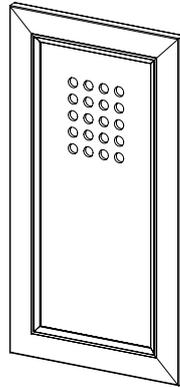
- Bei Anordnung der Querfries nach Maß, bitte die Maße von Oberkante Flügel bzw. Unterkante Flügel zur Mitte Querfries angeben.
- When aligning the horizontal cross-panels according to measurement, please specify the dimensions from the upper or lower edge of the sash to the centre of the horizontal cross-panel.

Designvarianten / Design options

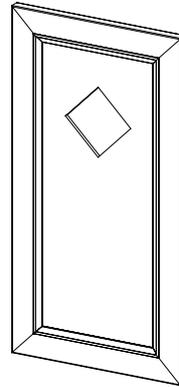
Den Preis für weitere Motive „Designausschnitt“ erhalten Sie auf Anfrage.
The price for other “design section” motifs is available on request.



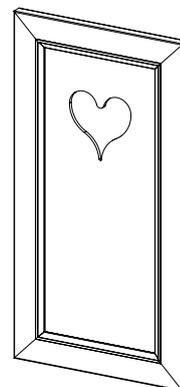
Motiv Lochblech 1
Perforated motif 1



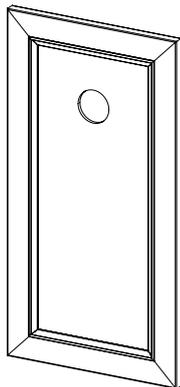
Motiv Lochblech 2
Perforated motif 2



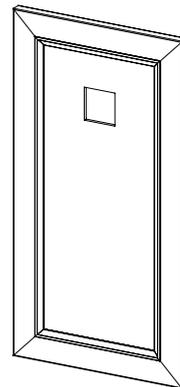
Motiv Raute
Diamond motif



Motiv Herz
Heart motif



Motiv Kreis
Circle motif



Motiv Rechteck
Square motif

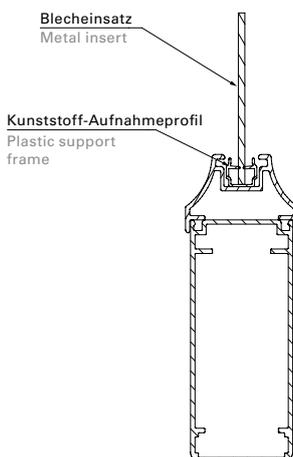
Designausschnitt
Preis basiert auf Lieferung
einer druckfertigen Datei
(.dwg oder .dxf Datei)

Design cutout
Price is based on supply of
a printable file (.dwg or .dxf file)

| | |
|---|---------|
| Mehrpriis pro Flügel Additional price per sash | 90.00 € |
|---|---------|

Pauschale für Datenaufbereitung 220.00 €
(Die Pauschale entfällt bei Lieferung einer
druckfertigen Datei.)

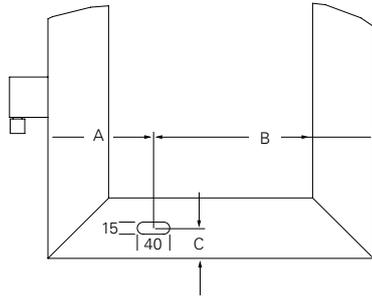
Fixed sum for preparation of data 220.00 €
(The fixed sum is not charged if a print-
ready file is supplied.)



INFO

- einfache Füllung
- mit Kunststoffaufnahmeprofil
- Formvorlage muss in Dateiformat
.dwg oder .dxf gestellt werden
- Nur für SR Modell einmalig
- Unterkante Flügel bis Ausstellerhebel
in Stellung nach unten 35 mm
Aufbau des Hebels 22 mm
- Simple centre
- With plastic support frame
- Shape template must be in either .dwg
or .dxf file format
- One-off for SR model only
- Lower edge of sash to opener lever in
downward position 35 mm
Structure of lever 22 mm

Windfallenaussparungen / Catch recesses

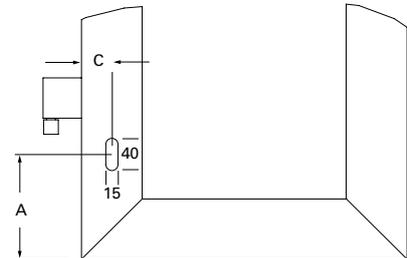


Schlitzfräsung für Windfalle oder
 Zugwindfalle

Slot cutting for catch or pull catch

| | | |
|----------|-----|---------|
| | 993 | 25.67 € |
| Easyflex | 993 | 31.40 € |

| INFO |
|--|
| <ul style="list-style-type: none"> • Doppelte Windfallen nicht für Anschlagsschema 2L, 2R, 3L, 3R, 4 • A = min. 125 mm • C = min. 27 mm; • bei Easyflex: C = 37,5 mm • Double catches not for stop diagrams 2L, 2R, 3L, 3R, 4 • A = min. 125 mm • C = min. 27 mm • for Easyflex: C = 37.5 mm |

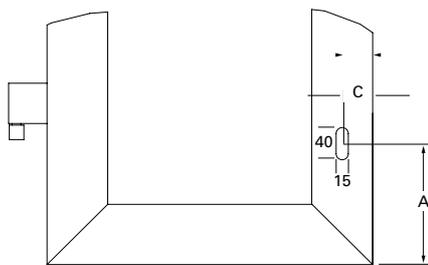


Schlitzfräsung für Windfalle

Slot cutting for catch

| | | |
|--|-----|---------|
| | 994 | 25.67 € |
|--|-----|---------|

| INFO |
|---|
| <ul style="list-style-type: none"> • keine Zugwindfalle möglich! • A = min. 125 mm • C = min. 27 mm • kein Easyflex möglich • Pull catch not possible! • A = min. 125 mm • C = min. 27 mm • Easyflex not possible |

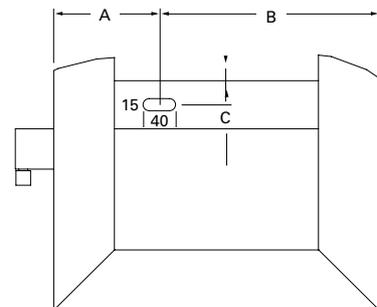


Schlitzfräsung für Windfalle

Slot cutting for catch

| | | |
|--|-----|---------|
| | 995 | 25.67 € |
|--|-----|---------|

| INFO |
|---|
| <ul style="list-style-type: none"> • keine Zugwindfalle möglich! • A = min. 125 mm • C = min. 27 mm • kein Easyflex möglich • Pull catch not possible! • A = min. 125 mm • C = min. 27 mm • Easyflex not possible |



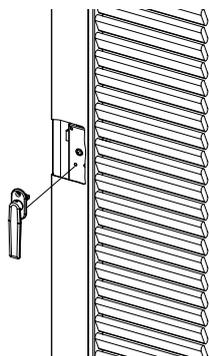
Schlitzfräsung für Windfalle oder
 Zugwindfalle

Slot cutting for catch or pull
 catch

| | | |
|--|-----|---------|
| | 996 | 25.67 € |
|--|-----|---------|

| INFO |
|---|
| <ul style="list-style-type: none"> • Anschlagsschema 2L, 2R, 3L, 3R, 4 bei Zugwindfalle nicht möglich! • A = min. 125 mm • C = 30 mm (mittig) • Stop diagrams 2L, 2R, 3L, 3R, 4 not possible in combination with pull catch! • A = min. 125 mm • C = 30 mm (centre) |

Stangenschloss eingebaut / Rod lock installed



Stangenschloss Edelstahl verdeckt eingebaut, mit Griff, einseitig bedienbar

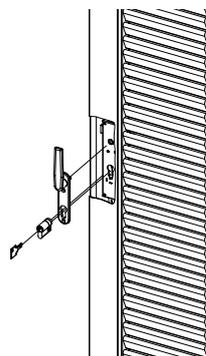
Stainless steel rod lock concealed installation, with handle, one-sided operable

5412 164.57 €

Stangenschloss Edelstahl verdeckt eingebaut, mit Griff, beidseitig bedienbar

Stainless steel rod lock concealed installation, with handle, two-sided operable

5417 195.62 €



Stangenschloss Edelstahl verdeckt eingebaut, mit Euro-Profilzylinder und Griff, einseitig bedienbar

Stainless steel rod lock concealed installation, with Euro profile cylinder and handle, one-sided operable

5413 204.93 €

Stangenschloss Edelstahl verdeckt eingebaut, mit Euro-Profilzylinder und Griff, beidseitig bedienbar

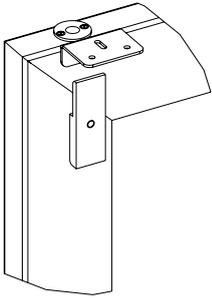
Stainless steel rod lock concealed installation, with Euro profile cylinder and handle, two-sided operable

5414 243.23 €

INFO

- Griffhöhe Tür: 1050 mm; Griffhöhe Fenster: 500 mm
- Griff muss unterhalb oder oberhalb des Querfrieses platziert werden, Griff oder Querfries muss eventuell verschoben werden
- bei Stangenschloss Art.-Nr. 5417, 5414 (beidseitig) und außenscharnierten Doppelflügel gekröpfte Scharniere verwenden
- Stangenschloss nicht austauschbar bei Modellen GE, GE-SE, GENT, SR, AMSTERDAM, TZ, TZ-ROM, TZ-PISA, TZ-GE, TZ-GE-SE, TIZO, TIZO-ROM, TZ-ROM-RS, TIZO-ROM-RW, TIZO-PISA, TSW
- Handle height, door: 1050 mm; handle height, window: 500 mm
- Handle must be positioned beneath or above the horizontal cross-panel, handle or horizontal cross-panel may need to be moved
- In combination with rod lock art. no. 5417, 5414 (double-sided) and double sashes, hinged on the outside, use offset hinges
- Rod lock cannot be exchanged in the GE, GE-SE, GENT, SR, AMSTERDAM, TZ, TZ-ROM, TZ-PISA, TZ-GE, TZ-GE-SE, TIZO, TIZO-ROM, TZ-ROM-RS, TIZO-ROM-RW, TIZO-PISA, TSW models





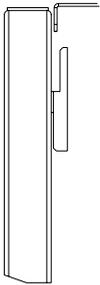
**Etagenverriegelung für
 Stangenschloss, nur oben**
 Floor locking for rod lock, top only

5900 30.54 €

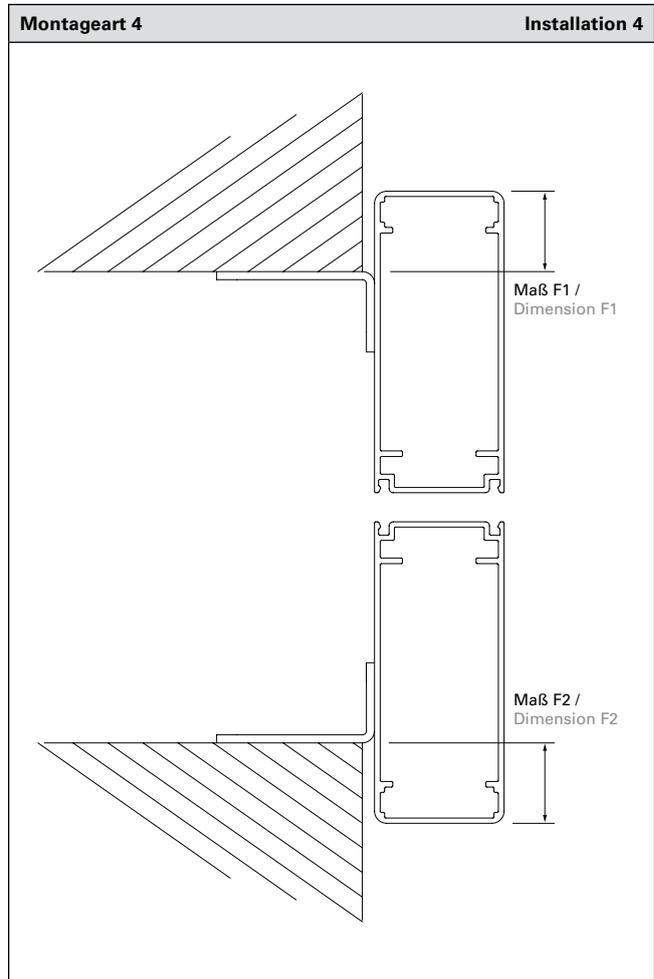
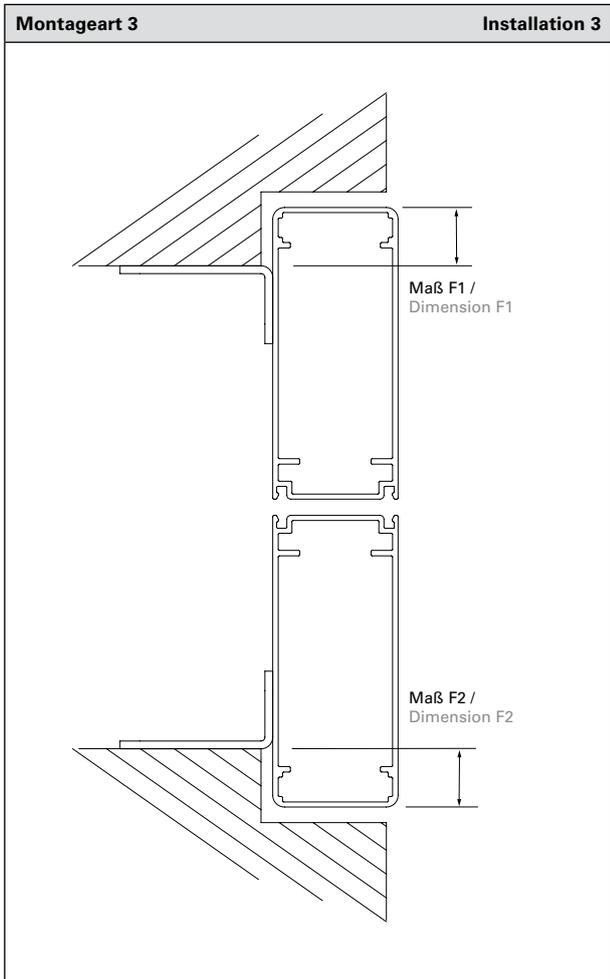
**Etagenverriegelung für
 Stangenschloss, oben u. unten**

Floor locking for rod lock, top
 and bottom

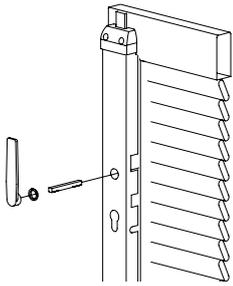
5901 60.48 €



| INFO |
|---|
| <ul style="list-style-type: none"> • Riegelanschlag (Art.-Nr. 5303, 5304) muss extra bestellt werden • Bolt stop (art. no. 5303, 5304) must be ordered separately |



Aufbauschloss R75 Rahmen / Add-on lock R75 frame



**Aufbauschloss R75 Rahmen,
einseitig bedienbar**
Add-on lock R75 frame, one-sided
operable

| | | |
|---------|------|----------|
| 1600 mm | 6800 | 143.46 € |
| 2500 mm | 6802 | 176.06 € |

**Aufbauschloss R75 Rahmen,
einseitig bedienbar, Profilzylinder
gelocht**

Add-on lock R75 frame, one-
sided operable, profile cylinder
perforated

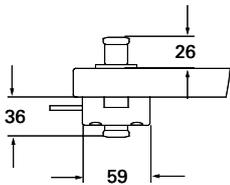
| | | |
|---------|------|----------|
| 2500 mm | 6804 | 195.00 € |
|---------|------|----------|

**Aufbauschloss R75 Rahmen,
beidseitig bedienbar, Profilzylinder
gelocht**

Add-on lock R75 frame, two-sided
operable, profile cylinder perforated

| | | |
|---------|------|----------|
| 2500 mm | 6805 | 228.91 € |
|---------|------|----------|

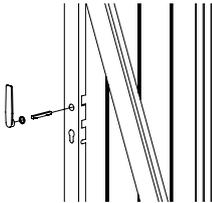
Ansicht von oben
View from top



INFO

- nicht möglich bei den Modellen JSV, MSV und NICE
- Not possible with the JSV, MSV and NICE models

Aufbauschloss DIJON, ISO / Add-on lock DIJON, ISO



**ISO-Aufbauschloss, flach, einseitig
bedienbar**
ISO add-on lock, flat, one-sided oper-
able

| | | |
|---------|------|----------|
| 1600 mm | 6712 | 161.46 € |
| 2500 mm | 6716 | 186.30 € |
| 3000 mm | 6740 | 195.62 € |

mit Profilzylinder
with profile cylinder

| | | |
|---------|------|----------|
| 2500 mm | 6704 | 191.48 € |
| 3000 mm | 6731 | 202.86 € |

**ISO-Aufbauschloss, flach,
beidseitig bedienbar**

ISO add-on lock, flat, two-sided
operable

mit Profilzylinder
with profile cylinder

| | | |
|------------------|------|----------|
| 2500 mm | 6717 | 242.19 € |
| 2500 mm Easyflex | 6717 | 242.19 € |
| 3000 mm | 6745 | 247.37 € |
| 3000 mm Easyflex | 6745 | 247.37 € |

**DIJON-Aufbauschloss, flach,
einseitig bedienbar**

DIJON add-on lock, flat, one-sided
operable

| | | |
|---------|------|----------|
| 1600 mm | 6812 | 161.46 € |
| 2500 mm | 6816 | 186.30 € |
| 3000 mm | 6840 | 195.62 € |

mit Profilzylinder
with profile cylinder

| | | |
|---------|------|----------|
| 2500 mm | 6824 | 202.97 € |
| 3000 mm | 6825 | 215.04 € |

**DIJON-Aufbauschloss, flach,
beidseitig bedienbar**

DIJON add-on lock, flat, two-sided
operable

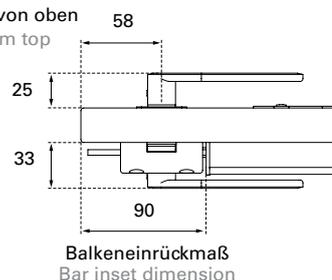
mit Profilzylinder
with profile cylinder

| | | |
|------------------|------|----------|
| 2500 mm | 6817 | 242.19 € |
| 2500 mm Easyflex | 6817 | 242.19 € |
| 3000 mm | 6845 | 247.37 € |
| 3000 mm Easyflex | 6845 | 247.37 € |

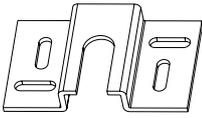
INFO

- Balkeneinrückmaß 90 mm
- Bar inset dimension 90 mm

Ansicht von oben
View from top



Blindmontage / Blind installation



**Blindmontage, 3 Teile,
 beschichtet RAL 9006 ohne
 Vormontage, inkl. Blindnieten**

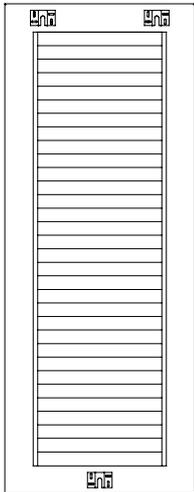
Blind installation, 3 parts,
 coated RAL 9006 without pre-
 installation, incl. blind rivets

| | | |
|---|------|---------|
| P | 2009 | 20.39 € |
|---|------|---------|

**Anschaubset für Blindmontage
 (Mauermontage), je 3 Stk.
 Schrauben M 10/80 mm,
 Sperrzahnmutter M 10,
 Nypondübel M 10**

Screw-on set for blind
 installation (wall installation),
 3 screws each M 10/80 mm,
 self-locking nut M 10, nylon
 dowel M 10

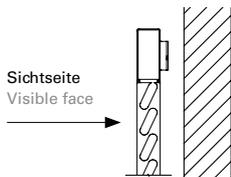
| | |
|-------|---------|
| 99003 | 10.86 € |
|-------|---------|



**ISO-Anschraubset für Blind-
 montage (Montage auf Be-
 schlägeträger M 10), je 3 Stk.
 Schrauben M 10/60 mm, Sperr-
 zahnmutter M 10, Mutter M 10**

ISO screw-on set for blind
 installation (installation on
 hardware carrier M 10), 3 screws
 each M 10/60 mm, self-locking
 nut M 10, nut M 10

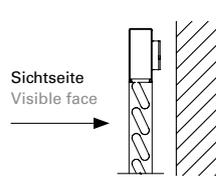
| | |
|-------|--------|
| 99004 | 5.54 € |
|-------|--------|



**Vormontage Blindmontage
 Montage-Typ 1,
 Sichtseite = Außenseite Flügel**

Pre-installation blind installation
 Installation type 1,
 Visible face = outer side of sash

| | |
|-------|---------|
| 99005 | 32.81 € |
|-------|---------|



**Vormontage Blindmontage
 Montage-Typ 2,
 Sichtseite = Innenseite Flügel**

Pre-installation blind installation
 Installation type 2,
 Visible face = inner side of sash

| | |
|-------|---------|
| 99006 | 32.81 € |
|-------|---------|

| | | | | |
|------------|-----------------|----------------------------|------------------------------|-----|
| Klappläden | Window shutters | Anschlagschemen | Stop schemes | 9 |
| | | Beschlagpakete | Hardware packages | 13 |
| | | Feststehende Lamellen | Fixed slats | 21 |
| | | Bewegliche Lamellen | Moving slats | 37 |
| | | Geschlossene Modelle | Closed models | 51 |
| | | Isolierende Modelle | Insulating models | 73 |
| | | Sonderformen und Optionen | Special shapes and options | 85 |
| | | Vormontage | Pre-installation | 99 |
| | | Beschläge | Fittings | 109 |
| | | Zubehör | Accessories | 119 |
| | | Montagerahmen / Zargen | Installation frames / frames | 139 |
| | | Motorisierung und Antriebe | Motorisation and drives | 165 |
| | | Diverses | Miscellaneous | 171 |

A

B

C

D

E

F

G

H

I

J

K

L

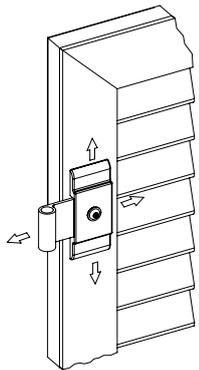
M

Vormontage Pre-installation

Vormontage mit deutschem Expressband / Pre-installation with German express hinge

Vormontage mit deutschem Expressband (int. Pat.), bei Doppelläden inkl. montierter Scharniere, T-Leiste.

Pre-installation with German express hinge (int. pat.) for double shutters incl. installed hinges, T-bead.



Fenster (2 Bänder/2 Scharniere)

Windows (2 straps/2 hinges)

je Flügel
per sash

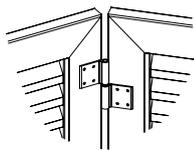
5100 33.58 €

Türen (3 Bänder/2 Scharniere)

Doors (3 straps/2 hinges)

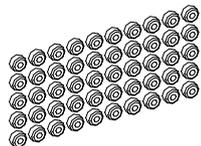
je Flügel
per sash

5101 47.61 €



INFO

- **Vormontage Expressband bestehend aus:**
 1. Vormontierter Grundplatte (Band, Bandhalter u. Fixierschraube lose beigelegt);
 2. Band u. Bandhalter, beschichtet; 3. Grundplatte und Fixierschraube, schwarz oder weiß.
- Scharniere vormontiert in Ladenfarbe, beschichtet; T-Leiste beschichtet.
- Verstellbereich: oben/unten je 15 mm, rechts/links je 8 mm
- **Pre-installation of express hinge involves:**
 1. Preinstalled baseplate (hinge, hinge holder and fastening screw supplied loose);
 2. Hinge and hinge holder, coated; 3. Baseplate and fastening screw, black or white.
- Hinges preinstalled in colour of shutter, coated; T-bead, coated.
- Adjustment range: 15 mm at top/bottom, 8 mm to right/left

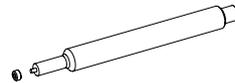


Sicherungsbolzen zum Sichern der Fixierschraube, einbruchhemmend

Locking pin to secure fastening screw, hindering forced entry

50 Stk. / 50 pcs. **S** **5107 2.01 €**

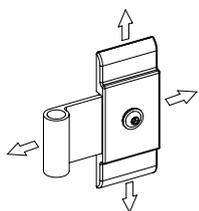
50 Stk. / 50 pcs. **W** **5108 2.01 €**



Werkzeug zum Einschlagen von Sicherungsbolzen

Tool to hammer in locking pins

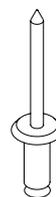
5109 10.26 €



Expressband, Ø 14 mm, zur Selbstmontage

Express hinge, Ø 14 mm, for self-installation

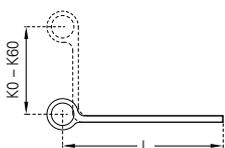
P 5110 10.83 €



Blindnieten-Set für Expressband-Montage, 4x10 mm

Blind rivet set for express hinge installation, 4x10 mm

50 Stk. / 50 pcs. **B** **5112 5.09 €**



INFO

- Kröpfung (K0 – K60) und Bandlänge (L) nach Maßangabe
- Cranking (K0 – K60) and hinge length (L) according to specifications

I Verzinkte Teile sind rost-geschützt, nicht rostfrei, und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

MATERIAL WERKSTOFF MATERIAL

A Aluminium Aluminium **C** Aluminiumdruckguss Aluminium die casting
Z Zinkdruckguss Zinc die casting **E** Edelstahl Stainless steel **K** Kunststoff Plastic

M Messing Brass

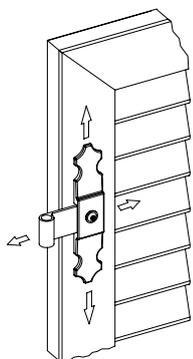
OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH **V** Verzinkt Galvanised

B Blank Bright **P** Pulverbeschichtet Powder-coated **S** Schwarz Black **W** Weiß White
T Transparent beschichtet Transparent coating **X** Eloxiert Anodised

Vormontage mit französischem Expressband/ Pre-installation with French express hinge

Vormontage mit französischem Expressband (int. Pat.) bei Doppelläden inkl. montierter Scharniere, T-Leiste.

Pre-installation with French express hinge (int. pat.) for double shutters incl. installed hinges, T-bead.



Fenster (2 Bänder / 2 Scharniere)

Windows (2 straps/2 hinges)

je Flügel
per sash

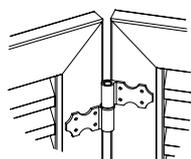
7100 34.52 €

Türen (3 Bänder / 2 Scharniere)

Doors (3 straps/2 hinges)

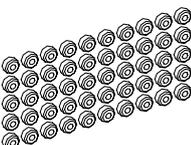
je Flügel
per sash

7101 49.18 €



INFO

- Vormontage französisches Expressband bestehend aus:
 1. Vormontierter Grundplatte (Band, Bandhalter u. Fixierschraube lose beigelegt);
 2. Band u. Bandhalter, beschichtet; 3. Grundplatte und Fixierschraube, schwarz oder weiß.
- Französische Scharniere vormontiert; T-Leiste beschichtet.
- Pre-installation of French express hinge involves:
 1. Preinstalled baseplate (hinge, hinge holder and fastening screw supplied loose);
 2. Hinge and hinge holder, coated; 3. Baseplate and fastening screw, black or white.
- French hinges preinstalled; T-bead, coated.

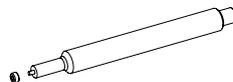


Sicherungsbolzen zum Sichern der Fixierschraube, einbruchhemmend

Locking pin to secure fastening screw, hindering forced entry

50 Stk. / 50 pcs. **S** 5107 2.01 €

50 Stk. / 50 pcs. **W** 5108 2.01 €



Werkzeug zum Einschlagen von Sicherungsbolzen

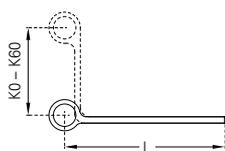
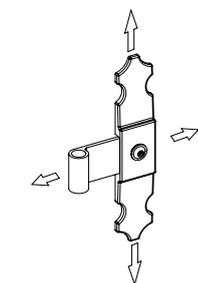
Tool to hammer in locking pins

5109 10.26 €

Französisches Expressband,
Ø 14 mm, zur Selbstmontage

French express hinge,
Ø 14 mm, for self-installation

P 7110 11.39 €



INFO

- Kröpfung (K0 – K60) und Bandlänge (L) nach Maßangabe
- Cranking (K0 – K60) and hinge length (L) according to specifications

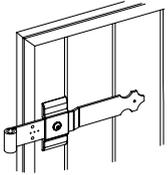
I Verzinkte Teile sind rost-geschützt, nicht rostfrei, und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

MATERIAL WERKSTOFF MATERIAL **M** Messing Brass OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH **V** Verzinkt Galvanised
A Aluminium Aluminium **C** Aluminiumdruckguss Aluminium die casting **B** Blank Bright **P** Pulverbeschichtet Powder-coated **S** Schwarz Black **W** Weiß White
Z Zinkdruckguss Zinc die casting **E** Edelstahl Stainless steel **K** Kunststoff Plastic **T** Transparent beschichtet Transparent coating **X** Eloxiert Anodised

Vormontage mit DIJON/ISO Expressband / Pre-installation with DIJON/ISO express hinge

Vormontage mit DIJON/ISO Expressband (int. Pat.), bei Doppelläden inkl. vormontierter Scharniere, T-Leiste.

Pre-installation with DIJON/ISO express hinge (int. pat.) for double shutters incl. preinstalled hinges, T-bead.



Fenster (2 Bänder / 2 Scharniere)
Windows (2 straps/2 hinges)

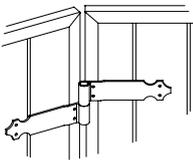
je Flügel
per sash

9100 57.63 €

Türen (3 Bänder / 2 Scharniere)
Doors (3 straps/2 hinges)

je Flügel
per sash

9101 87.64 €



INFO

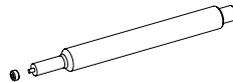
- **Vormontage DIJON/ISO Expressband bestehend aus:**
 1. Vormontierter Grundplatte (Band, Bandhalter u. Fixierschraube lose beigelegt);
 2. Band u. Bandhalter, beschichtet; 3. Grundplatte und Fixierschraube, schwarz oder weiß.
- **DIJON/ISO Scharniere und T-Leiste vormontiert und beschichtet.**
- **Pre-installation of DIJON/ISO express hinge involves:**
 1. Preinstalled baseplate (hinge, hinge holder and fastening screw supplied loose);
 2. Hinge and hinge holder, coated; 3. Baseplate and fastening screw, black or white.
- **DIJON/ISO hinges and T-bead preinstalled and coated.**



Sicherungsbolzen zum Sichern der Fixierschraube, einbruchhemmend

Locking pin to secure fastening screw, hindering forced entry

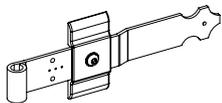
50 Stk. / 50 pcs. **S** 5107 2.01 €
50 Stk. / 50 pcs. **W** 5108 2.01 €



Werkzeug zum Einschlagen von Sicherungsbolzen

Tool to hammer in locking pins

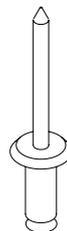
5109 10.26 €



DIJON/ISO Expressband Ø 14 mm, zur Selbstmontage

DIJON/ISO express hinge Ø 14 mm, for self-installation

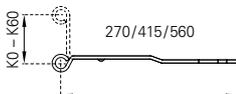
P 9111 24.09 €



Blindnieten-Set für Expressband-Montage, 4 x 10 mm, Beutel

Blind rivet set for express hinge installation, 4 x 10 mm, bag

50 Stk. / 50 pcs. **B** 5112 5.09 €

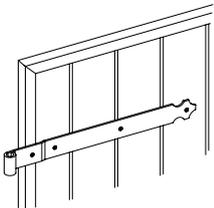


INFO

- **Kröpfung (K0 – K60) und Bandlänge (L = 270/415/560 mm) nach Maßangabe**
- **Cranking (K0 – K60) and hinge length (L = 270/415/560 mm) according to specifications**

Vormontage mit DIJON/ISO Langband / Pre-installation with DIJON/ISO long hinge

Vormontage mit DIJON/ISO Langband bei Doppelläden inkl. montierter Scharniere, T-Leiste.
Pre-installation with DIJON/ISO long hinge for double shutters incl. installed hinges, T-bead.



Fenster (2 Bänder / 2 Scharniere)
Windows (2 straps/2 hinges)

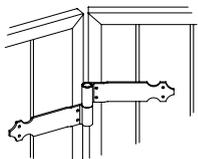
je Flügel
per sash

| | |
|------|---------|
| 9200 | 50.20 € |
|------|---------|

Türen (3 Bänder / 2 Scharniere)
Doors (3 straps/2 hinges)

je Flügel
per sash

| | |
|------|---------|
| 9201 | 65.78 € |
|------|---------|



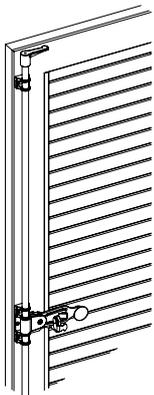
INFO

- **Vormontage mit DIJON/ISO Langband bestehend aus:**
1. Vormontierten ISO Langbändern, beschichtet; 2. Bei Doppelläden inkl. vormontierter Scharniere; 3. T-Leiste.
- DIJON/ISO Scharniere und T-Leiste, vormontiert in Ladenfarbe, beschichtet.
- nur möglich bei Neumontage
- **Pre-installation with DIJON/ISO long hinge involves:**
1. Preinstalled ISO long hinges, coated; 2. Double shutters incl. preinstalled hinges; 3. T-bead.
- DIJON/ISO hinges and T-bead, preinstalled in colour of shutter, coated.
- Only possible with new installation



Vormontage Drehstangenverschluss „Ambiente“ / Pre-installation rotating rod closure “Ambiente”

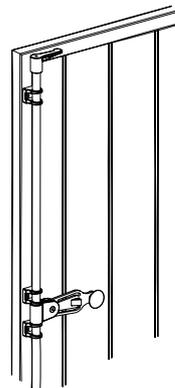
Vormontage Drehstangenverschluss „Ambiente“
Pre-installation rotating rod closure “Ambiente”



je Flügel
per sash

| | | |
|----------------|------|---------|
| Rahmen 48/75 | 9305 | 59.00 € |
| Frame 48/75 | | |
| Rahmen 48/75 * | 9306 | 68.23 € |
| Frame 48/75 | | |

* mit Konushülse für Ladenvorreiber
with cone sleeve for sash lock



je Flügel
per sash

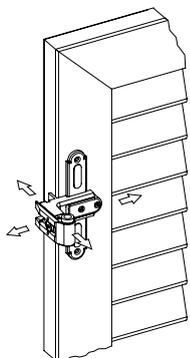
| | | |
|-------------|------|---------|
| DIJON/ISO | 9310 | 59.00 € |
| DIJON/ISO * | 9311 | 68.23 € |

INFO

- **Vormontage Drehstangenverschluss „Ambiente“ bestehend aus:**
Drehstangenverschluss „Ambiente“, in Ladenfarbe beschichtet oder FSM schwarz. Stange mit Lagerteilen oben und unten montiert. Griffteile auf Stange gelagert, jedoch nicht fixiert zur bauseitigen Bestimmung der Griffhöhe.
- **Hinweis:** Vormontage nicht möglich bei Montageart 3, 4 und 5 mit Anschlagschema 1R, 1L, 2R, 2L, 2RA und 2LA!
- Bei Türen Drehstangenverschluss „Ambiente“ mit Konushülse (Art.-Nr. 9306) verwenden!
- **Pre-installation of “Ambiente” rotating rod closure involves:**
“Ambiente” rotating rod closure in colour of shutter, coated or in FSM, black. Rod is mounted at top and bottom with bearing parts. Handle parts mounted on rod, but not fastened so as to determine the handle height on site.
- **Note:** Pre-installation is not possible with installation types 3, 4 and 5 in combination with stop diagrams 1R, 1L, 2R, 2L, 2RA and 2LA!
- With doors, use the “Ambiente” rotating rod closure with cone sleeve (art. no. 9306)!

Vormontage mit MACO-Kreuzband / Pre-installation with MACO cross hinge

Vormontage MACO-Kreuzband, T-Leiste vormontiert, bei Doppelläden inkl. montierter Scharniere
Pre-installation MACO cross hinge, T-bead preinstalled, for double shutters, incl. installed hinges



Fenster (2 Bänder/2 Scharniere)
Windows (2 straps/2 hinges)

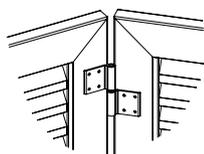
je Flügel
per sash

| | |
|------|---------|
| 9600 | 42.79 € |
|------|---------|

Türen (3 Bänder/2 Scharniere)
Doors (3 straps/2 hinges)

je Flügel
per sash

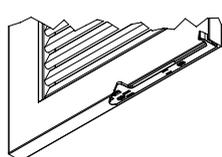
| | |
|------|---------|
| 9601 | 57.05 € |
|------|---------|



INFO

- MACO-Kreuzband in schwarz oder weiß;
- Scharniere vormontiert in schwarz oder weiß; T-Leiste in Ladenfarbe beschichtet.
- MACO cross hinge in black or white;
- Hinges preinstalled in black or white; T-bead coated in colour of shutter.

Vormontage mit Komfort-Ladenhalter MACO / Pre-installation with comfort shutter holder MACO

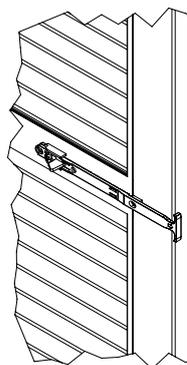


Vormontage Komfort-Ladenhalter MACO, mit Rückhalter

Pre-installation Comfort shutter holder MACO, with shutter catch

Fenster (ohne Querfries)
Windows (without horizontal cross-panel)

| | | | |
|----------------|--------------------------|------|---------|
| links / left | <input type="checkbox"/> | 9602 | 22.76 € |
| rechts / right | <input type="checkbox"/> | 9603 | 22.76 € |
| links / left | <input type="checkbox"/> | 9605 | 22.76 € |
| rechts / right | <input type="checkbox"/> | 9606 | 22.76 € |



Vormontage Komfort-Ladenhalter MACO, mit Rückhalter, links u. rechts verwendbar

Pre-installation Comfort shutter holder MACO, with shutter catch, usable left and right

Türen (mit Querfries)
Doors (with horizontal cross-panel)

links/rechts
left/right

| | | |
|--------------------------|------|---------|
| <input type="checkbox"/> | 9604 | 23.79 € |
| <input type="checkbox"/> | 9607 | 22.76 € |

INFO

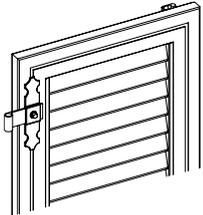
- Aufbau des Komfort-Ladenhalters unten am Flügel 8 mm. Bitte Luftabzug berücksichtigen!
- Vormontage bei Schema 2LA/2RA, 3LA/3RA, 4A nicht möglich
- Structure of comfort shutter holder at bottom of sash 8 mm. Please take air escape into account!
- Pre-installation with diagrams 2LA/2RA, 3LA/3RA, 4A is not possible

INFO

- Vormontage bei Schema 2LA/2RA, 3LA/3RA, 4A nicht möglich
- Pre-installation with diagrams 2LA/2RA, 3LA/3RA, 4A is not possible

Vormontage Easyflex® / Pre-installation Easyflex®

Vormontage der Easyflex-Beschläge
Pre-installation of Easyflex fittings



Fenster (2 Bänder / 2 Scharniere)
Windows (2 straps/2 hinges)

je Flügel
per sash

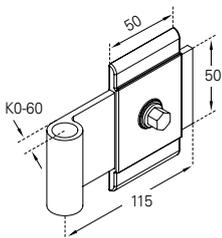
771220 20.70 €

Türen (3 Bänder / 2 Scharniere)
Doors (3 straps/2 hinges)

je Flügel
per sash

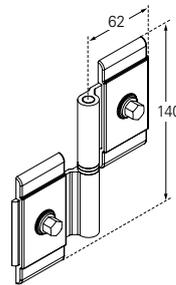
771221 22.77 €

Easyflex®-Beschläge / Easyflex® fittings



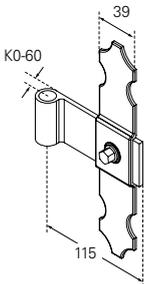
Easyflex-Band
Easyflex hinge

P 771101 13.94 €



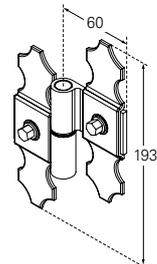
Easyflex-Scharnier komplett
Easyflex hinge complete

P 771106 15.15 €



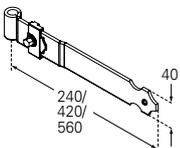
Easyflex-Band französisch
komplett
Easyflex hinge, French complete

P 771102 13.83 €



Easyflex-Scharnier französisch
komplett
Easyflex hinge, French complete

P 771107 14.93 €

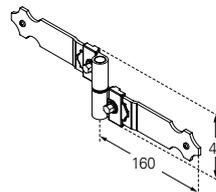


Easyflex-ISO-Langband komplett
Easyflex ISO long hinge complete

L= 270 mm P 771103 L270 23.04 €

L= 415 mm P 771103 L415 23.04 €

L= 560 mm P 771103 L560 23.04 €



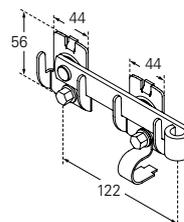
Easyflex-ISO-Scharnier komplett
Easyflex ISO hinge complete

P 771108 24.80 €



Easyflex-Zuziehgriff
Easyflex closing handle

P 771117 4.46 €



Easyflex-Ladenverschluss
komplett
Easyflex shutter closure complete

P 771113 20.30 €

! Verzinkte Teile sind rost-geschützt, nicht rostfrei, und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

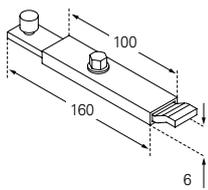
MATERIAL WERKSTOFF MATERIAL

A Aluminium Aluminium C Aluminiumdruckguss Aluminium die casting
Z Zinkdruckguss Zinc die casting E Edelstahl Stainless steel K Kunststoff Plastic

M Messing Brass

OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH V Verzinkt Galvanised

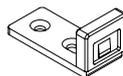
B Blank Bright P Pulverbeschichtet Powder-coated S Schwarz Black W Weiß White
T Transparent beschichtet Transparent coating X Eloxiert Anodised



Easyflex-Ladenriegel komplett,
L = 160/220/420 mm

Easyflex shutter lock complete,
L = 160/220/420 mm

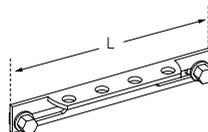
| | | | |
|--------------------|---|--------|---------|
| gerade / straight | P | 771116 | 26.35 € |
| gekröpft / cranked | P | 771121 | 27.32 € |



Easyflex-Verriegelungswinkel
inkl. Schutzkappe schwarz / weiß

Easyflex locking bracket
incl. protective cap, black/white

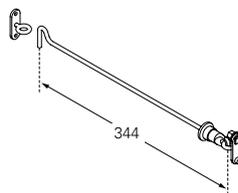
| | | |
|---|--------|--------|
| P | 771135 | 5.80 € |
|---|--------|--------|



Easyflex-Ladenrechen komplett
Easyflex shutter rods complete

Länge
Length

| | | | |
|--------|---|-------------|---------|
| 150 mm | P | 771115 L150 | 11.52 € |
| 200 mm | P | 771115 L200 | 11.73 € |
| 250 mm | P | 771115 L250 | 11.94 € |
| 300 mm | P | 771115 L300 | 12.14 € |
| 350 mm | P | 771115 L350 | 12.68 € |
| 400 mm | P | 771115 L400 | 13.45 € |
| 450 mm | P | 771115 L450 | 14.41 € |
| 500 mm | P | 771115 L500 | 15.51 € |
| 550 mm | P | 771115 L550 | 16.80 € |
| 600 mm | P | 771115 L600 | 17.35 € |
| 650 mm | P | 771115 L650 | 20.51 € |
| 700 mm | P | 771115 L700 | 21.26 € |
| 750 mm | P | 771115 L750 | 23.11 € |
| 800 mm | P | 771115 L800 | 24.69 € |

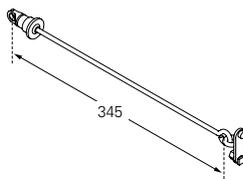


Easyflex-Sturmhaken komplett
Easyflex storm hooks complete

| | | |
|---|--------|---------|
| P | 771111 | 23.04 € |
|---|--------|---------|

INFO

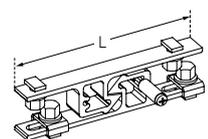
- Beschichtung in Fensterfarbe, da standardmäßig am Fensterstock montiert
- Coating in colour of window, as mounted to window frame by standard



Easyflex-Schlenggen-Kupplung
komplett

Easyflex hook coupling complete

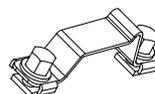
| | | |
|---|--------|---------|
| P | 771112 | 21.83 € |
|---|--------|---------|



Easyflex-Ladenhalter für Türen
komplett, zum Zusammenhalten
von Doppelflügeln, pulverbeschichtet

Easyflex shutter support for
doors complete, to hold together
double sashes, powder-coated

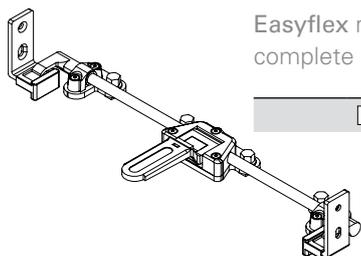
| | | | |
|-------|---|------------|---------|
| 17 mm | P | 771123 H17 | 15.03 € |
| 30 mm | P | 771123 H30 | 15.34 € |
| 40 mm | P | 771123 H40 | 15.66 € |



Easyflex-Streichblech komplett,
Edelstahl

Easyflex scraper plate complete,
stainless steel

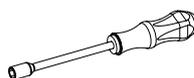
| | | |
|---|--------|--------|
| P | 771122 | 5.52 € |
|---|--------|--------|



Easyflex-Drehstangenverschluss
komplett

Easyflex rotating rod closure
complete

| | | |
|---|--------|---------|
| S | 771125 | 60.35 € |
|---|--------|---------|



Easyflex-Steckschlüssel,
Schlüsselweite 10

Easyflex socket key,
key width 10

| | | |
|------------|--------|---------|
| L = 125 mm | 771200 | 22.38 € |
|------------|--------|---------|

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| | |
|---|--|
| M Messing Brass | V Verzinkt Galvanised |
| A Aluminium Aluminium | B Blank Bright |
| C Aluminiumdruckguss Aluminium die casting | P Pulverbeschichtet Powder-coated |
| Z Zinkdruckguss Zinc die casting | S Schwarz Black |
| E Edelstahl Stainless steel | W Weiß White |
| K Kunststoff Plastic | T Transparent beschichtet Transparent coating |
| | X Eloxiert Anodised |

| | | | | |
|------------|-----------------|----------------------------|------------------------------|-----|
| Klappläden | Window shutters | Anschlagschemen | Stop schemes | 9 |
| | | Beschlagpakete | Hardware packages | 13 |
| | | Feststehende Lamellen | Fixed slats | 21 |
| | | Bewegliche Lamellen | Moving slats | 37 |
| | | Geschlossene Modelle | Closed models | 51 |
| | | Isolierende Modelle | Insulating models | 73 |
| | | Sonderformen und Optionen | Special shapes and options | 85 |
| | | Vormontage | Pre-installation | 99 |
| | | Beschläge | Fittings | 109 |
| | | Zubehör | Accessories | 119 |
| | | Montagerahmen / Zargen | Installation frames / frames | 139 |
| | | Motorisierung und Antriebe | Motorisation and drives | 165 |
| | | Diverses | Miscellaneous | 171 |

A

B

C

D

E

F

G

H

I

J

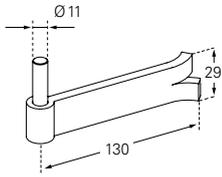
K

L

M

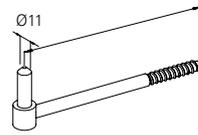
Beschläge Fittings

Kloben / Bracket



Steinkloben, Ø 11 mm
Stone bracket, Ø 11 mm

| | | | |
|----------|----------|--------------|---------------|
| A | B | 10254 | 4.13 € |
| A | P | 5254 | 6.39 € |



Schraubkloben, Ø 11 mm,
Holzgewinde

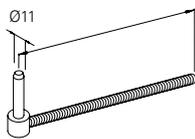
Screw bracket Ø 11 mm,
wood thread

Schraubengröße
Screw size

| | | | | |
|--------|----------|--------------|---------------|---------------|
| 110 mm | V | 10211 | 4.72 € | |
| 140 mm | V | 10214 | 4.89 € | |
| 160 mm | V | 10216 | 4.99 € | |
| 110 mm | V | P | 5211 | 6.37 € |
| 140 mm | V | P | 5214 | 6.47 € |
| 160 mm | V | P | 5216 | 6.54 € |

INFO

- **Gewindelänge:** bei 110 mm > 55 mm; bei 140 mm > 65 mm; bei 160 mm > 65 mm
- **Thread length:** for 110 mm > 55 mm; for 140 mm > 65 mm; for 160 mm > 65 mm

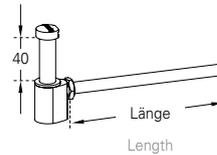


Schraubkloben, Ø 11 mm, Gewinde
M10

Screw bracket, Ø 11 mm, thread
M10

Schraubengröße
Screw size

| | | | | |
|--------|----------|--------------|----------------|----------------|
| 85 mm | V | 10908 | 4.72 € | |
| 110 mm | V | 10910 | 4.72 € | |
| 160 mm | V | 10916 | 4.99 € | |
| 85 mm | V | P | 5908 | 6.37 € |
| 110 mm | V | P | 5910 | 6.37 € |
| 160 mm | V | P | 5916 | 6.54 € |
| 85 mm | E | 20908 | 9.37 € | |
| 110 mm | E | 20910 | 9.84 € | |
| 160 mm | E | 20916 | 10.30 € | |
| 85 mm | E | P | 7908 | 11.00 € |
| 110 mm | E | P | 7910 | 11.51 € |
| 160 mm | E | P | 7916 | 12.67 € |

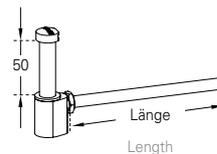


Sicherheitskloben, Gewinde
M10, Klips, Dorn und Scheibe

Security catch; thread M10, clips,
pin and washer

Höhe 40 mm
Height 40 mm

| | | | | |
|--------|----------|----------|-------------|----------------|
| 85 mm | A | P | 7012 | 12.12 € |
| 110 mm | A | P | 7014 | 12.29 € |
| 160 mm | A | P | 7016 | 12.67 € |



Höhe 50 mm
Height 50 mm

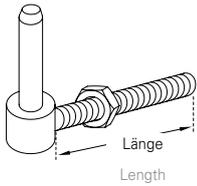
| | | | | |
|--------|----------|----------|-------------|----------------|
| 85 mm | A | P | 7022 | 12.12 € |
| 110 mm | A | P | 7024 | 12.29 € |
| 160 mm | A | P | 7026 | 12.67 € |

INFO

- Anschlagart 1: Maß B ≥ 25 mm
- Anschlagart 3: Maß B ist abhängig von der Falztiefe
- Dorndurchmesser: 14 mm (keine Hülsen notwendig)
- Stop type 1: dimension B ≥ 25 mm
- Stop type 3: dimension B depends on depth of rabbet
- Pin diameter: 14 mm (no sleeves required)

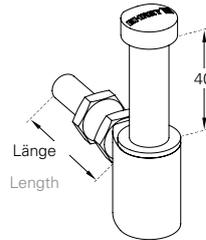
I Verzinkte Teile sind rost-geschützt, nicht rostfrei, und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

MATERIAL WERKSTOFF MATERIAL **M** Messing Brass OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH **V** Verzinkt Galvanised
A Aluminium Aluminium **C** Aluminiumdruckguss Aluminium die casting **B** Blank Bright **P** Pulverbeschichtet Powder-coated **S** Schwarz Black **W** Weiß White
Z Zinkdruckguss Zinc die casting **E** Edelstahl Stainless steel **K** Kunststoff Plastic **T** Transparent beschichtet Transparent coating **X** Eloxiert Anodised



ISO-Schraubkloben Ø 11 mm,
Gewinde M10
ISO screw brackets Ø 11 mm,
thread M10

| | | | |
|--------|---|--------------|--------|
| 50 mm | <input type="checkbox"/> V <input type="checkbox"/> B | 14905 | 4.50 € |
| 65 mm | <input type="checkbox"/> V <input type="checkbox"/> B | 14906 | 4.50 € |
| 85 mm | <input type="checkbox"/> V <input type="checkbox"/> B | 14908 | 4.50 € |
| 110 mm | <input type="checkbox"/> V <input type="checkbox"/> B | 14910 | 4.50 € |
| 50 mm | <input type="checkbox"/> V <input type="checkbox"/> P | 4905 | 6.04 € |
| 65 mm | <input type="checkbox"/> V <input type="checkbox"/> P | 4906 | 6.04 € |
| 85 mm | <input type="checkbox"/> V <input type="checkbox"/> P | 4908 | 6.04 € |
| 110 mm | <input type="checkbox"/> V <input type="checkbox"/> P | 4910 | 6.04 € |



ISO-Sicherheitskloben M10, mit
Kontermutter, Klips, Dorn und
Scheibe

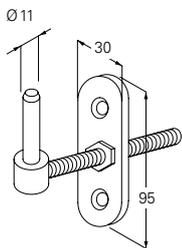
ISO security catch; thread M10,
with lock nut, clips, pin and washer

Höhe 40 mm
Height 40 mm

| | | | |
|--------|---|-------------|---------|
| 50 mm | <input type="checkbox"/> A <input type="checkbox"/> P | 7010 | 12.35 € |
| 85 mm | <input type="checkbox"/> A <input type="checkbox"/> P | 7017 | 12.51 € |
| 110 mm | <input type="checkbox"/> A <input type="checkbox"/> P | 7018 | 12.66 € |

Höhe 50 mm
Height 50 mm

| | | | |
|--------|---|-------------|---------|
| 50 mm | <input type="checkbox"/> A <input type="checkbox"/> P | 7020 | 13.60 € |
| 85 mm | <input type="checkbox"/> A <input type="checkbox"/> P | 7027 | 13.77 € |
| 110 mm | <input type="checkbox"/> A <input type="checkbox"/> P | 7028 | 13.94 € |

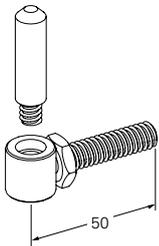


Plattenkloben, verstellbar, Ø 11 mm
Plate brackets, adjustable, Ø 11 mm

| | | | |
|--------------|---|--------------|---------|
| M10/12-45 mm | <input type="checkbox"/> V <input type="checkbox"/> B | 10255 | 6.04 € |
| M10/12-45 mm | <input type="checkbox"/> V <input type="checkbox"/> P | 5255 | 7.50 € |
| M10/12-45 mm | <input type="checkbox"/> B | 20255 | 11.09 € |
| M10/12-45 mm | <input type="checkbox"/> P | 7255 | 13.88 € |

INFO

- auch als 12-85/12-110/12-160 erhältlich
- Lochdurchmesser: 75 mm
- Lochabstand: 65 mm
- Höhe: 95 mm
- Also available as 12-85/12-110/12-160
- Hole diameter: 75 mm
- Hole distance: 65 mm
- Height: 95 mm



Schraubkloben Ø 11 mm, Stift
lose, Schraubengröße M10/50 mm
mit Mutter

Screw bracket Ø 11 mm, pin
loose, screw size M10/50 mm
with nut

| | | |
|---|--------------|---------|
| <input type="checkbox"/> V <input type="checkbox"/> B | 14405 | 10.43 € |
| <input type="checkbox"/> V <input type="checkbox"/> P | 4405 | 11.91 € |

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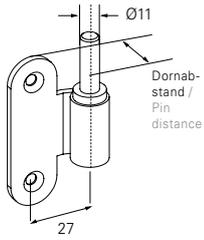
MATERIAL WERKSTOFF MATERIAL

A Aluminium Aluminium C Aluminiumdruckguss Aluminium die casting
 Z Zinkdruckguss Zinc die casting E Edelstahl Stainless steel K Kunststoff Plastic

M Messing Brass

OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH V Verzinkt Galvanised

B Blank Bright P Pulverbeschichtet Powder-coated S Schwarz Black W Weiß White
 T Transparent beschichtet Transparent coating X Eloxiert Anodised



Plattenkloben Aluminium,
Ø 11 mm, rechts und links
verwendbar

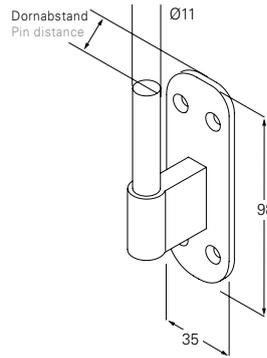
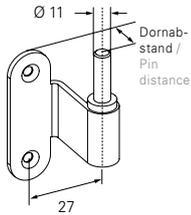
Plate bracket, aluminium, Ø 11 mm,
right and left usable

Dornabstand
Pin distance

| | | | |
|-------|-------------------|--------------|--------|
| 15 mm | A B | 10215 | 8.40 € |
| 20 mm | A B | 10220 | 8.40 € |
| 25 mm | A B | 10225 | 8.40 € |
| 35 mm | A B | 10235 | 8.40 € |
| 45 mm | A B | 10245 | 8.40 € |
| 15 mm | A P | 5215 | 9.70 € |
| 20 mm | A P | 5220 | 9.70 € |
| 25 mm | A P | 5225 | 9.70 € |
| 35 mm | A P | 5235 | 9.70 € |
| 45 mm | A P | 5245 | 9.70 € |

INFO

- Lochdurchmesser: 6 mm
- Lochabstand: 60 mm
- Höhe: 90 mm
- Breite: 30 mm
- Hole diameter: 6 mm
- Hole distance: 60 mm
- Height: 90 mm
- Width: 30 mm



Plattenkloben aus Aluminium,
verstärkte Form, Ø 11 mm,
Dornabstand jeweils in 5 mm-
Abständen lieferbar

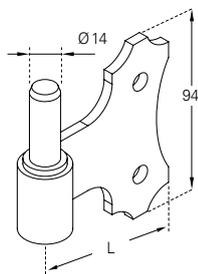
Plate bracket made of aluminium,
reinforced shape, Ø 11 mm, pin
distance available at intervals of
5 mm

Dornabstand
Pin distance

| | | | |
|-----------|-------------------|--------------|---------|
| 20 mm | A B | 10231 | 6.42 € |
| 25-45 mm | A B | 10232 | 7.52 € |
| 50-130 mm | A B | 10233 | 9.88 € |
| 20 mm | A P | 5231 | 9.06 € |
| 25-45 mm | A P | 5232 | 10.59 € |
| 50-130 mm | A P | 5233 | 12.94 € |

INFO

- Lochdurchmesser: 6 mm
- Lochabstand: 75 mm/17 mm
- Hole diameter: 6 mm
- Hole distance: 75 mm / 17 mm



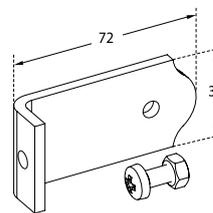
Französischer Leibungskloben
mit Kunststoffbolzen Ø 14 mm

French shutter catch with plastic
pins Ø 14 mm

| | | | |
|----------|-------------------|-------------|--------|
| L=80 mm | A B | 5570 | 7.18 € |
| L=120 mm | A P | 5571 | 8.17 € |

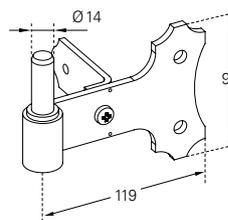
INFO

Bei der Verwendung des französischen
Ladenkloben werden von EHRET je
Klobenseite zusätzlich 3 mm Luft in Abzug
gebraucht!
When using French shutter catches, an ad-
ditional 3 mm air escape is used by EHRET
per bracket side!



Kloben-Stützwinkel mit Schraube
M6 x 16 und Sechskant-Mutter;
verwendbar mit Art.-Nr. 5571

Bracket-support bracket with
screw M6 x 16 and hex nut; to be
used with art. no. 5571



| | | |
|-------------------|-------------|--------|
| A P | 5575 | 5.12 € |
|-------------------|-------------|--------|

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MATERIAL WERKSTOFF MATERIAL

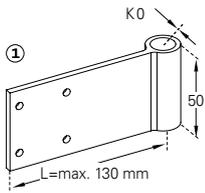
A Aluminium Aluminium **C** Aluminiumdruckguss Aluminium die casting
Z Zinkdruckguss Zinc die casting **E** Edelstahl Stainless steel **K** Kunststoff Plastic

M Messing Brass

OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH **V** Verzinkt Galvanised

B Blank Bright **P** Pulverbeschichtet Powder-coated **S** Schwarz Black **W** Weiß White
T Transparent beschichtet Transparent coating **X** Eloxiert Anodised

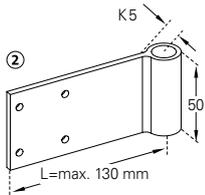
Bänder / Pivot hinge



Universalband, 4 mm, 4er Lochung, Lochabstand 30 mm, Ø 14 mm, Maß L (A) und K nach Maßangabe

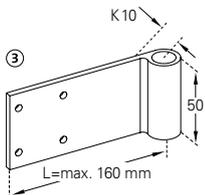
Universal hinge, 4 mm, 4-hole, hole distance 30 mm, Ø 14 mm, dimension L (A) and K according to specifications.

| | | | |
|----------|----------|-------------|---------------|
| A | P | 5113 | 3.96 € |
|----------|----------|-------------|---------------|

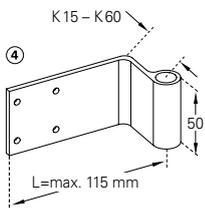


**Aufpreis
Surcharge**

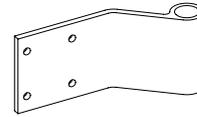
| | | |
|--|--------------|---------------|
| Sonderroling Special roll pin | 10160 | 3.63 € |
|--|--------------|---------------|



| | | |
|---|--------------|---------------|
| Gebohrtes Band Drilled strap | 10161 | 3.64 € |
|---|--------------|---------------|



| INFO | |
|--|--|
| • Sonderroling: Gerade Bänder (Abb. ③) auch mit Originalroling 7 mm (L: 100 mm) und 8 mm (L: 120 mm) und Sonderroling erhältlich. | |
| • K-Maß: Wird kein K-Maß angegeben, wird standardmäßig Band wie in Abb. ③ geliefert. K = min. 0 mm; K = max. 60 mm | |
| • Maximallänge generell 160 mm (ggf. Sonderroling) | |
| • Sonderhöhe (30 mm oder 40 mm) möglich | |
| • Special roll pin: Straight hinges (Fig. ③) also available with original roll pin 7 mm (L: 100 mm) and 8 mm (L: 120 mm) and special roll pin. | |
| • K-measurement: If no K-measurement is specified, a hinge as pictured in figure ③ is supplied as standard. K = min. 0 mm; K = max. 60 mm | |
| • Maximum length generally 160 mm (if applicable, special roll pin) | |
| • Special height (30 mm or 40 mm) possible | |

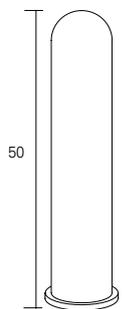


Universalband gekröpft, 4 mm, Ø 14 mm, 4er Lochung, Lochabstand 30 mm

Universal hinge offset, 4 mm, Ø 14 mm, 4-hole, hole distance 30 mm

| | | | |
|----------|----------|-------------|---------------|
| A | P | 5131 | 6.97 € |
|----------|----------|-------------|---------------|

| INFO |
|---|
| • Kröpfung (K0 – K60), Schräge und Bandlänge nach Maßangabe |
| • cranking (K0 – K60), angle and hinge length according to specifications |

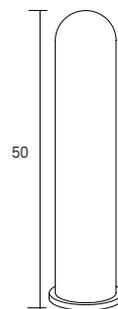


Reduktionshülsen, Höhe 50 mm, Dornmaß 7-13 mm

Reduction sleeves, height 50 mm, pin size 7-13 mm

je Stk.
per pc.

| | | |
|-------|--------------|---------------|
| 7 mm | 10007 | 0.36 € |
| 8 mm | 10008 | 0.36 € |
| 9 mm | 10009 | 0.33 € |
| 10 mm | 10010 | 0.33 € |
| 11 mm | 10011 | 0.33 € |
| 12 mm | 10012 | 0.33 € |
| 13 mm | 10013 | 0.33 € |



Reduktionshülsen, Höhe 50 mm, Dornmaß 7-13 mm

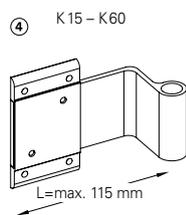
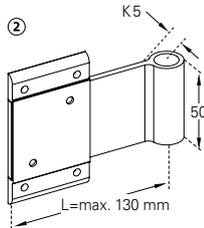
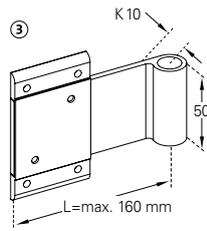
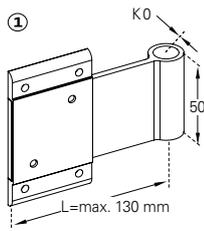
Reduction sleeves, height 50 mm, pin size 7-13 mm

Karton à 500 Stk.
Box of 500 pcs.

| | | |
|-------|--------------|-----------------|
| 7 mm | 11007 | 153.60 € |
| 8 mm | 11008 | 153.60 € |
| 9 mm | 11009 | 140.43 € |
| 10 mm | 11010 | 140.43 € |
| 11 mm | 11011 | 140.43 € |
| 12 mm | 11012 | 140.43 € |
| 13 mm | 11013 | 140.43 € |

! Verzinkte Teile sind rost-geschützt, nicht rostfrei, und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

| | | | |
|---|---|---|--|
| MATERIAL WERKSTOFF MATERIAL | M Messing Brass | OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH | V Verzinkt Galvanised |
| A Aluminium Aluminium | C Aluminiumdruckguss Aluminium die casting | B Blank Bright | P Pulverbeschichtet Powder-coated |
| Z Zinkdruckguss Zinc die casting | E Edelstahl Stainless steel | K Kunststoff Plastic | S Schwarz Black |
| | | | W Weiß White |
| | | | T Transparent beschichtet Transparent coating |
| | | | X Eloxiert Anodised |



Aluminium-Kreuzband, 4 mm,
mit verstellbarem Bandhalter
Ø 14 mm, Maß L (A) und K nach
Maßangabe

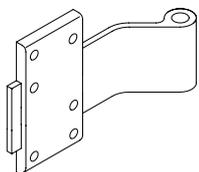
Aluminium cross hinge, 4 mm,
with adjustable hinge holder
Ø 14 mm, dimension L (A) and K
according to specifications

A P 5116 6.20 €

Aufpreis
Surcharge

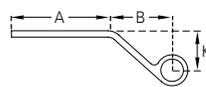
| | | |
|-----------------------------------|--------------|---------------|
| Sonderrollung Special roll pin | 10160 | 3.63 € |
| Gebohrtres Band Drilled strap | 10161 | 3.64 € |

| INFO | |
|--|--|
| • Sonderrollung: Gerade Bänder (Abb. ③) auch mit Originalrollung 7 mm (L: 100 mm) und 8 mm (L: 120 mm) und Sonderrollung erhältlich. | |
| • K-Maß: Wird kein K-Maß angegeben, wird standardmäßig Band wie in Abb. ③ geliefert. K = min. 0 mm; K = max. 60 mm | |
| • Höhe der Bandhalter beachten | |
| • Maximallänge generell 160 mm (ggf. Sonderrollung) | |
| • Sonderrollung für Dorn Durchmesser 8-22 mm möglich | |
| • Maß K > 60 mm nach Rücksprache (abhängig vom Gewicht) | |
| • Bandhalter: Höhe: 85 mm; Breite: 50 mm | |
| • Special roll pin: Straight hinges (fig. ③) also available with original roll pin 7 mm (L: 100 mm) and 8 mm (L: 120 mm) and special roll pin. | |
| • K-measurement: If no K-measurement is specified, a hinge as pictured in the figure ③ is supplied as standard. K = min. 0 mm; K = max. 60 mm | |
| • Observe height of the hinge holders | |
| • Maximum length generally 160 mm (if applicable, special roll pin) | |
| • Special roll pin for pin diameter 8-22 mm possible | |
| • K-measurement > 60 mm after consultation (depends on weight) | |
| • Hinge holder: Height: 85 mm; width: 50 mm | |



Kreuzband, 4 mm, mit verstellbarem Aluminium-Bandhalter Ø 14 mm; Kröpfung, Schräge und Bandlänge nach Maß

Cross hinge, 4 mm with adjustable aluminium hinge holder Ø 14 mm; cranking, angle and hinge length according to specifications

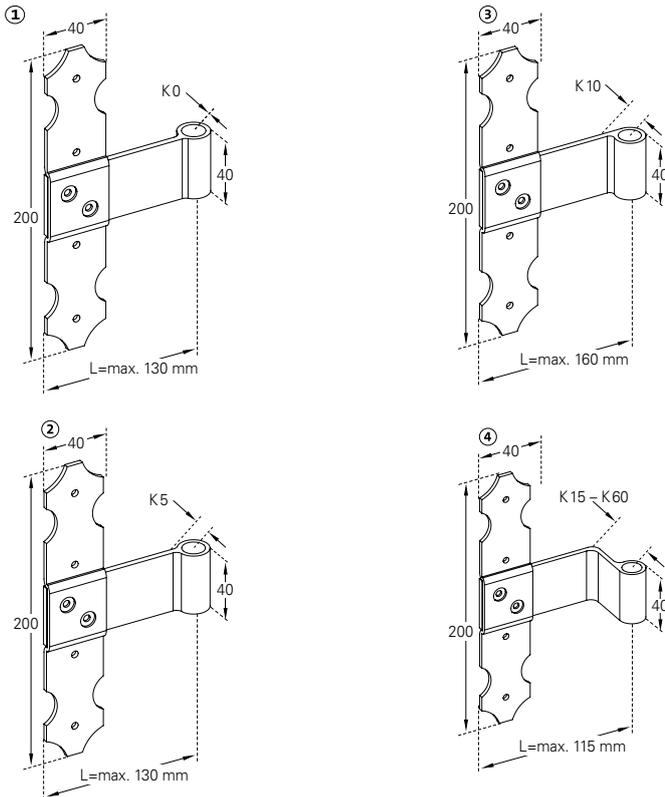


| INFO | |
|-----------------|--|
| A = max. 115 mm | |
| K = min. 15 mm | |
| K = max. 60 mm | |

A P 5124 8.56 €

I Verzinkte Teile sind rost-geschützt, nicht rostfrei, und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

| | | | |
|---|---|--|--|
| MATERIAL WERKSTOFF MATERIAL | M Messing Brass | OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH | V Verzinkt Galvanised |
| A Aluminium Aluminium | C Aluminiumdruckguss Aluminium die casting | B Blank Bright | P Pulverbeschichtet Powder-coated |
| Z Zinkdruckguss Zinc die casting | E Edelstahl Stainless steel | K Kunststoff Plastic | S Schwarz Black |
| | | | W Weiß White |
| | | | T Transparent beschichtet Transparent coating |
| | | | X Eloxiert Anodised |



Französisches Kreuzband,
Ø 14 mm, Maß L (A) und K nach
Maßangabe

French cross hinge, Ø 14 mm,
dimension L (A) and K according to
specifications

| | | | |
|----------|----------|-------------|---------------|
| A | P | 5120 | 8.12 € |
|----------|----------|-------------|---------------|

Aufpreis
Surcharge

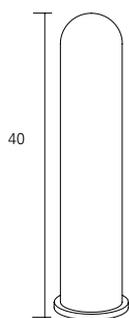
| | | |
|-----------------------------------|--------------|---------------|
| Sonderrollung Special roll pin | 10160 | 3.63 € |
| Gebohrtes Band Drilled strap | 10161 | 3.64 € |

INFO

- **Sonderrollung:**
Gerade Bänder (Abb. ③) auch mit Originalrollung 7 mm (L: 100 mm) und 8 mm (L: 120 mm) und Sonderrollung erhältlich.
- **K-Maß:** Wird kein K-Maß angegeben, wird standardmäßig Band wie in Abb. ③ geliefert. K = min. 0 mm; K = max. 60 mm
- Maximallänge generell 160 mm (ggf. Sonderrollung)
- Höhe der Bandhalter beachten
- Special roll pin: Straight hinges (fig. ③) also available with original roll pin 7 mm (L: 100 mm) and 8 mm (L: 120 mm) and special roll pin.
- K-measurement: If no K-measurement is specified, a hinge as pictured in the figure ③ is supplied as standard.
K = min. 0 mm; K = max. 60 mm
- Maximum length generally 160 mm (if applicable, special roll pin)
- Observe height of the hinge holders

I Verzinkte Teile sind rost-geschützt, nicht rostfrei, und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

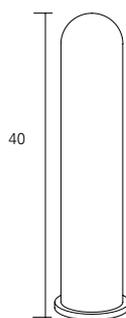
| | | |
|---|---|--|
| M Messing Brass | OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH | V Verzinkt Galvanised |
| A Aluminium Aluminium | B Blank Bright | P Pulverbeschichtet Powder-coated |
| C Aluminiumdruckguss Aluminium die casting | S Schwarz Black | W Weiß White |
| Z Zinkdruckguss Zinc die casting | E Edelstahl Stainless steel | T Transparent beschichtet Transparent coating |
| K Kunststoff Plastic | X Eloxiert Anodised | |



Reduktionshülsen Höhe 40 mm
Reduction sleeves, height 40 mm

Je Stk.
per pc.

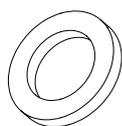
| | | |
|-------|-------|--------|
| 7 mm | 40007 | 0.35 € |
| 8 mm | 40008 | 0.35 € |
| 9 mm | 40009 | 0.27 € |
| 10 mm | 40010 | 0.27 € |
| 11 mm | 40011 | 0.25 € |
| 12 mm | 40012 | 0.25 € |
| 13 mm | 40013 | 0.25 € |



Reduktionshülsen Höhe 40 mm
Reduction sleeves, height 40 mm

Karton à 500 Stk.
Box of 500 pcs.

| | | |
|-------|-------|----------|
| 7 mm | 41007 | 142.63 € |
| 8 mm | 41008 | 137.14 € |
| 9 mm | 41009 | 108.62 € |
| 10 mm | 41010 | 108.62 € |
| 11 mm | 41011 | 108.62 € |
| 12 mm | 41012 | 108.62 € |
| 13 mm | 41013 | 108.62 € |



Kunststoff U-Scheibe, 100 Stk. im Polybeutel
Plastic U-washer, 100 pcs. in plastic bag

weiß
white

weiß
white

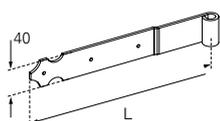
| | | |
|----------------|-------|---------|
| 22,5/14,5/3 mm | 10050 | 31.32 € |
| 23,5/15,5/3 mm | 10051 | 31.32 € |
| 24,5/16,5/3 mm | 10052 | 31.32 € |

schwarz
black

| | | |
|----------------|-------|---------|
| 22,5/14,5/3 mm | 10060 | 31.32 € |
| 23,5/15,5/3 mm | 10061 | 31.32 € |
| 24,5/16,5/3 mm | 10062 | 31.32 € |

INFO

- U-Scheibe wird eingesetzt, wenn bei einem Dorn von 14-16,5 mm keine Hülse verwendet werden kann.
- U-washer is used if no sleeve can be used for a pin of 14-16.5 mm.

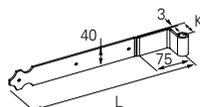


Langband, Ø 14 mm,
1 Befestigungsschraube in schwarz oder weiß

Long hinge, Ø 14 mm,
1 attachment screw in black or white

Länge
Length

| | | | |
|--------|-------------------|------|---------|
| 270 mm | A P | 5430 | 8.91 € |
| 415 mm | A P | 5431 | 10.10 € |
| 560 mm | A P | 5432 | 12.85 € |

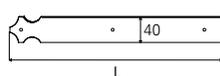


Langband, Ø 14 mm,
1 Befestigungsschraube in schwarz oder weiß

Long hinge, Ø 14 mm,
1 attachment screw in black or white

Länge
Length

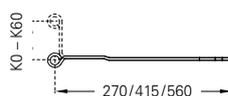
| | | | |
|--------|-------------------|------|---------|
| 270 mm | A P | 5440 | 12.32 € |
| 415 mm | A P | 5441 | 13.69 € |
| 560 mm | A P | 5442 | 15.19 € |



Blindband, 40 × 4 mm
Dummy hinge, 40 × 4 mm

Länge
Length

| | | | |
|--------|-------------------|------|--------|
| 195 mm | A P | 5450 | 6.66 € |
| 340 mm | A P | 5451 | 7.67 € |
| 485 mm | A P | 5452 | 8.82 € |



INFO

- Kröpfung (K0 – K60) und Bandlänge (L = 270/415/560 mm) nach Maßangabe
- cranking (K0 – K60) and hinge length (L = 270/415/560 mm) according to specifications

I Verzinkte Teile sind rost-geschützt, nicht rostfrei, und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

MATERIAL WERKSTOFF MATERIAL

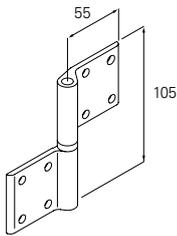
A Aluminium Aluminium **C** Aluminiumdruckguss Aluminium die casting
Z Zinkdruckguss Zinc die casting **E** Edelstahl Stainless steel **K** Kunststoff Plastic

M Messing Brass

OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH **V** Verzinkt Galvanised

B Blank Bright **P** Pulverbeschichtet Powder-coated **S** Schwarz Black **W** Weiß White
T Transparent beschichtet Transparent coating **X** Eloxiert Anodised

Scharniere / Hinges

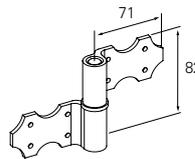


Scharniere, Aluminium, rechts und links verwendbar, beschichtet

Hinges, aluminium, right and left usable, coated

Distanz
Clearance

| | | | |
|-------|-------------------|-------------|--------|
| 17 mm | A P | 5150 | 7.90 € |
| 30 mm | A P | 5151 | 7.90 € |
| 40 mm | A P | 5155 | 7.90 € |

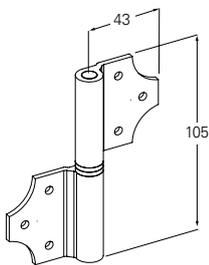


Französisches Scharnier, Aluminium, rechts und links verwendbar, beschichtet

French hinge, aluminium, right and left usable, coated

Distanz
Clearance

| | | | |
|-------|-------------------|-------------|---------|
| 20 mm | A P | 5152 | 10.41 € |
| 30 mm | A P | 5153 | 10.41 € |



Französisches Scharnier R48, Aluminium, rechts und links verwendbar, beschichtet

French hinge R48, aluminium, right and left usable, coated

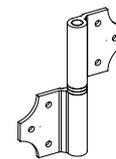
Distanz
Clearance

| | | | |
|-------|-------------------|-------------|---------|
| 20 mm | A P | 4320 | 10.41 € |
| 30 mm | A P | 4330 | 10.41 € |
| 40 mm | A P | 4340 | 10.41 € |

INFO

- Die mit gekennzeichneten Artikel werden ausschließlich in Verbindung mit dem Drehstangenverschluss „Ambiente“ verwendet.
- speziell für Modell NICE
- Labelled articles can only be used in combination with the "Ambiente" rotating rod closure .
- Specially for the NICE model

INFO

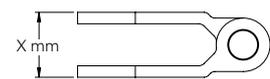


Frontalansicht
Frz. Scharnier R48
Front view of French hinge, R 48

Ansicht von oben, geöffnet
View from above, open



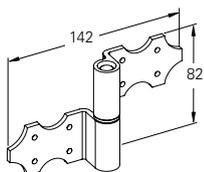
Ansicht von oben, geschlossen
View from above, closed



Distanz X (17–40 mm)
Distance X (17–40 mm)

Verzinkte Teile sind rost-geschützt, nicht rostfrei, und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

| | | | |
|---|--|---|--|
| MATERIAL WERKSTOFF MATERIAL | M Messing Brass | OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH | V Verzinkt Galvanised |
| A Aluminium Aluminium | C Aluminiumdruckguss Aluminium die casting | B Blank Bright | P Pulverbeschichtet Powder-coated |
| Z Zinkdruckguss Zinc die casting | E Edelstahl Stainless steel | S Schwarz Black | W Weiß White |
| K Kunststoff Plastic | T Transparent beschichtet Transparent coating | X Eloxiert Anodised | |



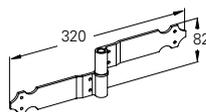
Französisches Scharnier zu Drehstangenverschluss Ambiente, gekröpft 40 mm, rechts und links verwendbar

French hinge for rotating rod closure Ambiente, offset 40 mm, right and left usable

A P 5154 10.41 €

INFO

- nur möglich bei Scharnieren auf Anschlagschema 2L/2R, 3L/3R und 4.
- Abstand zwischen den Flügeln beträgt 40 mm.
- Only possible with hinges on stop diagrams 2L/2R, 3L/3R and 4.
- The distance between the sashes is 40 mm.



Scharnier ISO/DIJON zu Drehstangenverschluss Ambiente, rechts und links verwendbar, 4 Schrauben in schwarz oder weiß

Hinge ISO/DIJON for rotating rod closure Ambiente, right and left usable, 4 screws in black or white

Distanz
Clearance

20 mm **A P 5461 11.68 €**
40 mm **A P 5462 11.68 €**

INFO

- bei ISO-B/-Z und DIJON-B/-Z keine Innenscharnierung möglich! Bitte verwenden Sie Anschlagschema LA/RA
- With ISO-B /-Z and DIJON-B /-Z inside hinges are not possible! Please use the LA/RA stop diagram.

I Verzinkte Teile sind rost-geschützt, nicht rostfrei, und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

MATERIAL WERKSTOFF MATERIAL

A Aluminium Aluminium **C** Aluminiumdruckguss Aluminium die casting
Z Zinkdruckguss Zinc die casting **E** Edelstahl Stainless steel **K** Kunststoff Plastic

M Messing Brass

OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH **V** Verzinkt Galvanised

B Blank Bright **P** Pulverbeschichtet Powder-coated **S** Schwarz Black **W** Weiß White
T Transparent beschichtet Transparent coating **X** Eloxiert Anodised

| | | | | |
|------------|-----------------|----------------------------|------------------------------|-----|
| Klappläden | Window shutters | Anschlagschemen | Stop schemes | 9 |
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| | | Sonderformen und Optionen | Special shapes and options | 85 |
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| | | Diverses | Miscellaneous | 171 |

A

B

C

D

E

F

G

H

I

J

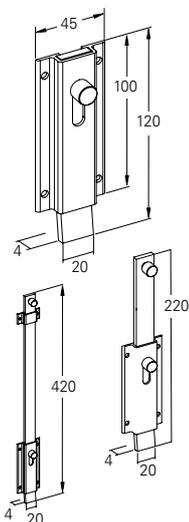
K

L

M

Zubehör Accessories

Verriegelungen / Locks

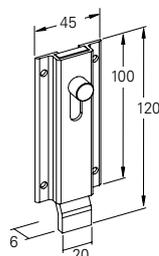


Ladenriegel, gerade

Shutter lock, straight

Länge
Length

| | | | |
|--------|-------------------|-------------|---------|
| 120 mm | A P | 5300 | 9.00 € |
| 220 mm | A P | 5330 | 13.17 € |
| 420 mm | A P | 5332 | 15.36 € |



Ladenriegel, gekröpft

Shutter lock, offset

Länge
Length

| | | | |
|--------|-------------------|-------------|---------|
| 120 mm | A P | 5301 | 9.00 € |
| 220 mm | A P | 5331 | 13.17 € |
| 420 mm | A P | 5333 | 15.36 € |

INFO

- Überlänge bis max. 1000 mm auf Anfrage!
- nur mit Riegelanschlag erhältlich
- Hub: 20 mm
- bei Anschlagschema 2L/R, 3L/R, 4 sowie Verwendung von Riegeln ab 220 mm ist eine Unterlage für Ladenriegel (Art.-Nr. 5555) erforderlich
- Excess length up to max. 1000 mm on request!
- Only available with bolt stop
- Lift: 20 mm
- With the stop diagrams 2L/R, 3L/R, 4 and also if you are using bolts as of 220 mm, a support is required for the shutter lock (art. no. 5555).



Unterlage für Ladenriegel

2 mm, VE=2

Support for shutter lock

2 mm, VE=2

| | | |
|----------|-------------|--------|
| P | 5555 | 2.15 € |
|----------|-------------|--------|

I Verzinkte Teile sind rost-geschützt, nicht rostfrei, und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

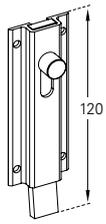
MATERIAL WERKSTOFF MATERIAL

A Aluminium Aluminium **C** Aluminiumdruckguss Aluminium die casting
Z Zinkdruckguss Zinc die casting **E** Edelstahl Stainless steel **K** Kunststoff Plastic

M Messing Brass

OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH **V** Verzinkt Galvanised

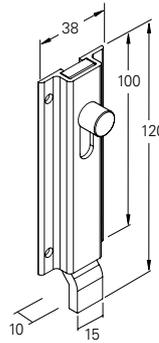
B Blank Bright **P** Pulverbeschichtet Powder-coated **S** Schwarz Black **W** Weiß White
T Transparent beschichtet Transparent coating **X** Eloxiert Anodised



Ladenriegel R48, gerade
Shutter lock R48, straight

Länge
Length

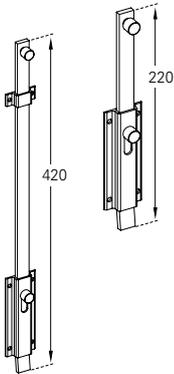
| | | | |
|--------|-----|------|---------|
| 120 mm | A P | 4350 | 9.00 € |
| 220 mm | A P | 4352 | 13.17 € |
| 420 mm | A P | 4354 | 15.36 € |



Ladenriegel R48, gekröpft
Shutter lock R48, offset

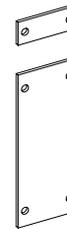
Länge
Length

| | | | |
|--------|-----|------|---------|
| 120 mm | A P | 4360 | 9.00 € |
| 220 mm | A P | 4362 | 13.17 € |
| 420 mm | A P | 4364 | 15.36 € |



INFO

- Bei Anschlagschema 2L/R, 3L/R, 4 sowie Verwendung von Riegeln ab 220 mm ist eine Unterlage für Ladenriegel R48 (Art.-Nr. 5556) erforderlich.
- With the stop diagrams 2L/R, 3L/R, 4 and also for use of bolts as of 200 mm, a support is required for the shutter lock R48 (art. no. 5555).

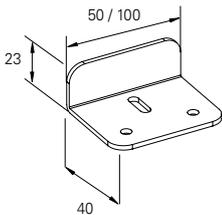


Unterlage für Ladenriegel R48
2 mm, VE=2

Support for shutter lock R48
2 mm, VE=2

| | | |
|---|------|--------|
| P | 5556 | 2.15 € |
|---|------|--------|

J

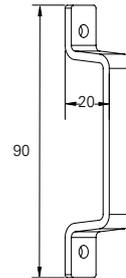


Riegelanschlag, zum Anschrauben,
ungleichschenkelig 40/23 mm

Bolt stop, to screw on, uneven leg
lengths 40/23 mm

Länge
Length

| | | | |
|--------|-----|-------|--------|
| 50 mm | A B | 10303 | 1.80 € |
| 50 mm | A P | 5303 | 2.49 € |
| 100 mm | A B | 10304 | 2.66 € |
| 100 mm | A P | 5304 | 3.53 € |



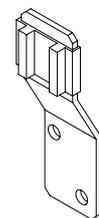
Aluminium-Handgriff beschichtet
Aluminium handle, coated

| | | |
|-----|------|--------|
| A P | 5305 | 2.91 € |
|-----|------|--------|



ISO-Riegelanschlag, Länge 400 mm
ISO bolt stop, length 400 mm

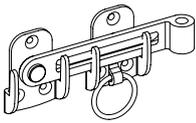
| | | |
|---|------|--------|
| P | 4209 | 5.93 € |
|---|------|--------|



Ladenanschlag mit Anschlag-
schutz, Größe 89 x 32 mm

Shutter stop with stop guard, size
89 x 32 mm

| | | |
|-----|------|--------|
| A P | 4100 | 7.17 € |
|-----|------|--------|



Ladenverschluss mit Zugring, für Doppelläden
Shutter closure with pull ring, for double shutter

A P 5315 10.64 €

INFO

- es wird zusätzlich ein Sturmhaken oder Ladenriegel als Verriegelung empfohlen
- Verwendung von Unterlagen bei Modell SR und GE
- In addition, we recommend using a storm hook or shutter lock
- Use supports for the SR and GE models

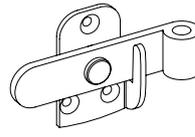


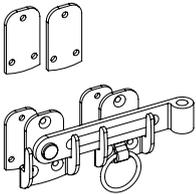
Abb. links
Fig. left

Ladenverschluss Aluminium für Einfachläden
Shutter closure aluminium for single shutters

rechts/right, 1 L **A P 5334 8.60 €**
links/left, 1 R **A P 5335 8.60 €**

INFO

- es wird zusätzlich ein Handgriff (Art.-Nr. 5305) empfohlen
- nur in Verbindung mit Riegelschlag erhältlich
- A handle is also recommended (art. no. 5305)
- Only available in combination with the bolt stop

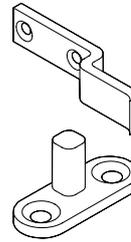


Unterlage für Ladenverschluss
2 mm, VE=2
Support for shutter closure
2 mm, VE=2

P 5323 1.63 €

INFO

- bei allen Modellen mit SR- oder GE-Füllung für die Befestigung des Mittelverschlusses erforderlich.
- Required in all models in combination with SR or GE centres to secure the middle closure.



Verschlusshaken mit Schließzapfenplatte
Closure hook with closing pin plate

P 5808 5.38 €

INFO

- nur bei Anschlagschema RA / LA!
- ACHTUNG bei Fensterbankaufkantung: Ist Aufkantung zu hoch, schließt der Verschlusshaken nicht mehr und muss eventuell oben montiert werden!
- Only with the RA / LA stop diagrams!
- IMPORTANT for window sill turned edges: If the turned edge is too high, the closure hook will no longer close and might have to be installed at the top!

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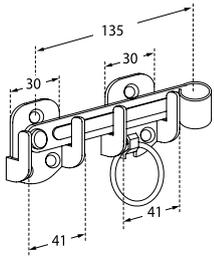
MATERIAL WERKSTOFF MATERIAL

A Aluminium Aluminium **C** Aluminiumdruckguss Aluminium die casting
Z Zinkdruckguss Zinc die casting **E** Edelstahl Stainless steel **K** Kunststoff Plastic

M Messing Brass

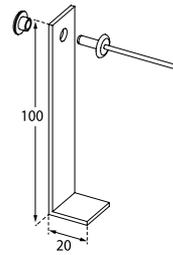
OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH **V** Verzinkt Galvanised

B Blank Bright **P** Pulverbeschichtet Powder-coated **S** Schwarz Black **W** Weiß White
T Transparent beschichtet Transparent coating **X** Eloxiert Anodised



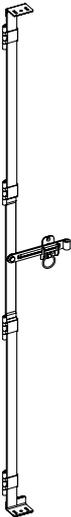
Verlängert, mit Zugring
Extended, with pull ring

| | | | | |
|--|----------|----------|-------------|----------------|
| | A | P | 5316 | 10.27 € |
|--|----------|----------|-------------|----------------|



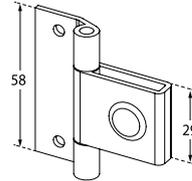
Sicherung für Ladenverschluss, 100/20 mm
Lock for shutter closure, 100/20 mm

| | | | |
|--|----------|-------------|---------------|
| | P | 5329 | 4.55 € |
|--|----------|-------------|---------------|



Drehstangenverschluss (Hebel verlängert), 4 Scharniere, 2 Anschläge
Rotating rod closure (extended lever), 4 hinges, 2 stops

| | | | | |
|---------|----------|----------|-------------|----------------|
| 1600 mm | A | P | 5810 | 49.13 € |
| 2500 mm | A | P | 5811 | 53.92 € |
| 3000 mm | A | P | 5829 | 57.40 € |



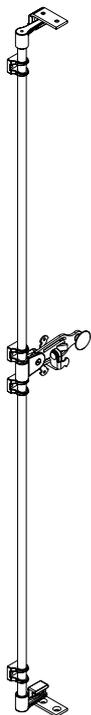
Zusätzliches Scharnier für Drehstangenverschluss
Additional hinge for rotating rod closure

| | | | |
|--|----------|-------------|---------------|
| | P | 5827 | 5.87 € |
|--|----------|-------------|---------------|

INFO

- auch für alle Modelle DIJON verwendbar.
- Can also be used in combination with all DIJON models.

J



Drehstangenverschluss „Ambiente“ R48/R75, mit 2 Anschlägen
Rotating rod closure “Ambiente” R48/R75, with 2 stops

lieferbar in
available in

| | | | | |
|---------|----------|----------|-------------|----------------|
| 1600 mm | A | P | 9400 | 44.77 € |
| 2500 mm | A | P | 9401 | 46.63 € |
| 3000 mm | A | P | 9402 | 49.37 € |

Drehstangenverschluss „Ambiente“ DIJON/ISO, mit 2 Anschlägen
Rotating rod closure “Ambiente” DIJON/ISO, with 2 stops

lieferbar in
available in

| | | | | |
|---------|----------|----------|-------------|----------------|
| 1600 mm | A | P | 9410 | 44.77 € |
| 2500 mm | A | P | 9411 | 46.63 € |
| 3000 mm | A | P | 9412 | 49.37 € |

INFO

Drehstangenverschluss „Ambiente“:

- Art.-Nr. 5154/5155 bei Schema 2L/2R, 3L/3R, 4.
- Art.-Nr. 5152/5150 bei Schema 2LA/2RA, 3LA/3RA, 4A (Achtung: Wandabstand = 40 mm).
- immer Art.-Nr. 9405 oder 9406 bei Schema 1L/1R und 2L/2R (außer bei Schema 3 und 4).
- Bei DIJON-B (-BB, -Z, -ZZ) und ISO-B (-BB, -Z, -ZZ) keine Innenscharnierung möglich.

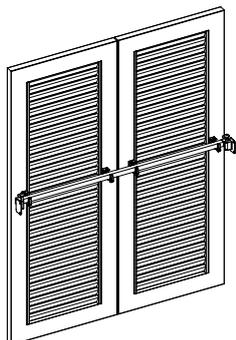
“Ambiente” rotating rod closure:

- Art. no. 5154/5155 for stop types 2L/2R, 3L/3R, 4.
- Art. no. 5152/5150 for stop types 2LA/2RA, 3LA/3RA, 4A (Important: wall clearance = 40 mm).
- Always art. no. 9405 or 9406 for stop type 1L/1R and 2L/2R (except for stop type 3 and 4).
- For DIJON-B (-BB, -Z, -ZZ) and ISO-B (-BB, -Z, -ZZ) inside hinges are not possible.

I Verzinkte Teile sind rost-geschützt, nicht rostfrei, und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

| | |
|---|--|
| M Messing Brass | V Verzinkt Galvanised |
| A Aluminium Aluminium | B Blank Bright |
| C Aluminiumdruckguss Aluminium die casting | P Pulverbeschichtet Powder-coated |
| Z Zinkdruckguss Zinc die casting | S Schwarz Black |
| E Edelstahl Stainless steel | W Weiß White |
| K Kunststoff Plastic | T Transparent beschichtet Transparent coating |
| | X Eloxiert Anodised |

Burg-Stangenverschluss / Castle rod closure



Burg-Stangenverschluss versetzt, Set (mit je 1× Burg-Stange)

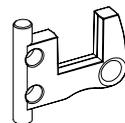
Castle rod closure offset, set
(with each 1× castle rod)

Halter Schema
Holder Diagram

| | | | |
|----|------------------|------|----------|
| 2* | 1L, 1R | 6502 | 65.21 € |
| 4 | 2 | 6503 | 68.31 € |
| 4* | 2L, 2R, 2LA, 2RA | 6506 | 92.12 € |
| 6 | 3L, 3R, 3LA, 3RA | 6504 | 101.43 € |
| 8 | 4, 4A | 6505 | 134.55 € |

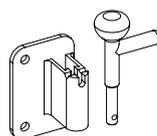
*zusätzlich Sicherheitspaket

*additional security set



Burg-Stangenhalter, klappbar Castle rod holder, folding

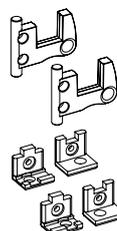
| | | |
|--------------|------|---------|
| links left | 6500 | 16.56 € |
| rechts right | 6501 | 16.56 € |



Sicherheitspaket Burg-Stange (Variante rechts und links)

Castle rod security set
(left and right variants)

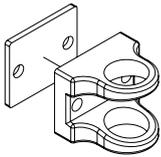
6507 23.81 €



Burg-Stangenablage, Set, nur Halter, 1× links, 1× rechts

Castle rod rack, set,
holder only, 1 x left, 1 x right

6508 33.12 €



Zusätzliche Führungslasche „Ambiente“ mit Unterlage 2 mm (Rundbogen-Hohlkonstr.) für R48/R75

Additional guide lug “Ambiente” with support 2 mm (round arch hollow construction) for R48/R75

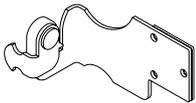
A P 9407 4.55 €



Konushülse für Ladenvorreiber + zusätzliche Führungslasche (Drehstangenverschluss „Ambiente“) für R48/R75

Cone sleeve for sash lock + additional guide lug (rotating rod closure “Ambiente”) for R48/R75

A P 9408 9.49 €



Verriegelungsteil „Ambiente“ für Rahmen R75/R48, einseitig

Lock component “Ambiente” for frame R75/R48, one-sided

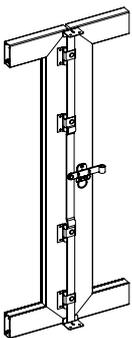
rechts/right **A P 9405 17.25 €**
links/left **A P 9406 17.25 €**



Konushülse für Ladenvorreiber + zusätzliche Führungslasche (Drehstangenverschluss „Ambiente“) für DIJON/ISO

Cone sleeve for sash lock + additional guide lug (rotating rod closure “Ambiente”) for DIJON/ISO

A P 9418 9.49 €



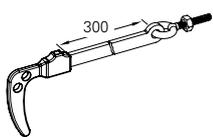
Drehstangenverschluss, 4 Scharniere, 2 Anschläge

Rotating rod closure, 4 hinges, 2 stops

1600 mm **A P 5806 49.13 €**
2500 mm **A P 5809 53.92 €**
3000 mm **A P 5828 57.40 €**

INFO

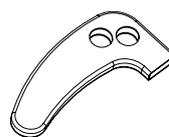
- ab 1900 mm wird die Verwendung eines zusätzlichen Scharniers empfohlen
- As of 1900 mm we recommend using an additional hinge



Anziehschleppen verstellbar, min. 45 mm / max. 300 mm

Pull lock, adjustable, min. 45 mm / max. 300 mm

G P 5503 8.73 €



Schleppenschutz transparent, Weichkautschuk

Hook guard, transparent, soft rubber

5502 1.22 €

INFO

- Schleppenschutz (Art.-Nr. 5502) wird empfohlen, um Lackschäden am Fenster zu vermeiden
- Hook guard (art. no. 5502) is recommended to avoid damage to the paint on the window



Aluminium-Tubtaraniete M6

Aluminium Tubtara rivet M6

A B 10002 0.44 €

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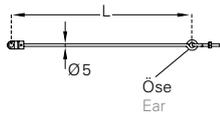
MATERIAL WERKSTOFF MATERIAL

A Aluminium Aluminium **G** Aluminiumdruckguss Aluminium die casting
Z Zinkdruckguss Zinc die casting **E** Edelstahl Stainless steel **K** Kunststoff Plastic

M Messing Brass

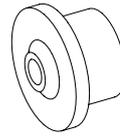
OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH **V** Verzinkt Galvanised

B Blank Bright **P** Pulverbeschichtet Powder-coated **S** Schwarz Black **W** Weiß White
T Transparent beschichtet Transparent coating **X** Eloxiert Anodised



Schlingen-Kupplung, L = 330 mm, verstellbar
Hook coupling, L = 330 mm, adjustable

| | | | |
|----------|----------|-------------|---------------|
| A | P | 5501 | 8.43 € |
|----------|----------|-------------|---------------|

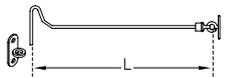


Schutzkappe für Schlingen-Kupplung, grau
Protective cap for hook coupling, grey

| | |
|-------------|---------------|
| 5521 | 1.05 € |
|-------------|---------------|

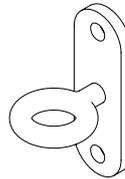
INFO

- Schutzkappe (Art.-Nr. 5521) wird bei Verwendung des Art. 5501 empfohlen
- Sonderlänge bis 500 mm möglich (Sonderartikel, Art.-Nr. 102020)
- Protective cap (art. no. 5521) is recommended when using art. 5501
- Special length up to 500 mm possible (special article, art no. 102020)



Sturmhaken mit Plattenöse, Universal-Länge (L = max. 300 mm)
Storm hook with plate eye, universal length (L = max. 300 mm)

| | | |
|----------|-------------|----------------|
| P | 5400 | 12.31 € |
|----------|-------------|----------------|



Plattenöse, einzeln
Plate eye, single

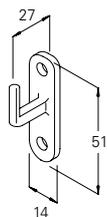
| | | | |
|----------|----------|-------------|---------------|
| A | P | 5426 | 3.41 € |
|----------|----------|-------------|---------------|

INFO

- Beschichtung in Ladenfarbe
- Coating in colour of shutter

INFO

- Beschichtung in Fensterfarbe, da standardmäßig am Fensterstock montiert
- Coating in colour of window as mounted to window frame as standard

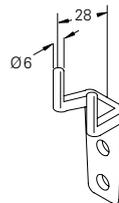


Winkelkloben verzinkt
Angle bracket galvanised

| | | | |
|----------|--------------|---------------|---------------|
| V | 10517 | 3.60 € | |
| P | 5517 | 4.28 € | |
| P | W | 12517 | 4.28 € |

INFO

- Beschichtung in Fensterfarbe in Verbindung mit Art.-Nr. 5501/5503
- Coating in colour of window in combination with art. no. 5501/5503



Gestellkloben verzinkt
Frame bracket galvanised

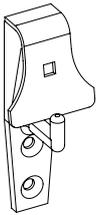
| | | | |
|----------|--------------|---------------|---------------|
| V | 10518 | 3.82 € | |
| P | 5518 | 4.51 € | |
| P | W | 12518 | 4.51 € |

INFO

- Beschichtung in Fensterfarbe in Verbindung mit Art.-Nr. 5501/5503
- Coating in colour of window in combination with art. no. 5501/5503

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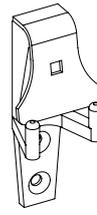
| | |
|---|--|
| M Messing Brass | V Verzinkt Galvanised |
| A Aluminium Aluminium | B Blank Bright |
| C Aluminiumdruckguss Aluminium die casting | P Pulverbeschichtet Powder-coated |
| Z Zinkdruckguss Zinc die casting | S Schwarz Black |
| E Edelstahl Stainless steel | W Weiß White |
| K Kunststoff Plastic | T Transparent beschichtet Transparent coating |
| | X Eloxiert Anodised |



Schlingensicherung einfach, verzinkt

Hook lock, single, galvanised

| | | |
|-----|-------|---------|
| V | 10519 | 16.32 € |
| P | 5519 | 18.17 € |
| P W | 12519 | 18.17 € |



Schlingensicherung doppelt, verzinkt

Hook lock, double, galvanised

| | | |
|-----|-------|---------|
| V | 10520 | 16.32 € |
| P | 5520 | 18.17 € |
| P W | 12520 | 18.17 € |

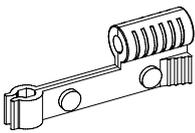


Jalousienstange verzinkt
Blind rod, galvanised

| INFO |
|---|
| <ul style="list-style-type: none"> • Beschichtung in Fensterfarbe, da standardmäßig am Fensterstock montiert • Coating in colour of window as mounted to window frame as standard |

Länge
Length

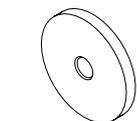
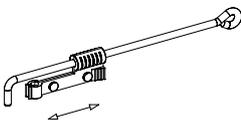
| | | | |
|--------|-----|-------|--------|
| 150 mm | V B | 10615 | 5.55 € |
| 150 mm | P | 5615 | 5.55 € |
| 200 mm | V B | 10620 | 5.55 € |
| 200 mm | P | 5620 | 5.55 € |
| 250 mm | V B | 10625 | 5.61 € |
| 250 mm | P | 5625 | 5.61 € |
| 300 mm | V B | 10630 | 6.05 € |
| 300 mm | P | 5630 | 6.05 € |
| 350 mm | V B | 10635 | 6.25 € |
| 350 mm | P | 5635 | 6.25 € |
| 400 mm | V B | 10640 | 6.66 € |
| 400 mm | P | 5640 | 6.66 € |
| 450 mm | V B | 10645 | 7.16 € |
| 450 mm | P | 5645 | 7.16 € |
| 500 mm | V B | 10650 | 7.77 € |
| 500 mm | P | 5650 | 7.77 € |



Aushängesicherung für Jalousiestange, grau

Disconnection lock for blind rod, grey

| | | |
|---|-------|--------|
| K | 10603 | 3.95 € |
|---|-------|--------|



U-Scheibe Inox (A2) für Jalousiestange, 25 × 6,4 × 1,5 mm
U-washer Inox (A2) for blind rod, 25 × 6.4 × 1.5 mm

| | | |
|---|-------|--------|
| B | 10605 | 0.32 € |
| P | 5605 | 0.88 € |

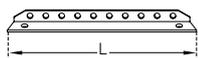


Schutzscheibe für Jalousiestangen, Beutel à 10 Stk., Ø45 mm
Protective washer for blind rods, bag of 10 pcs., Ø45 mm

| | | |
|---|-------|--------|
| T | 10604 | 5.44 € |
|---|-------|--------|

I Verzinkte Teile sind rost-geschützt, nicht rostfrei, und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

| | | | | | | | | | | | | | | | | | |
|--------------------|---------------|------------------|---------|--------------------|---------------------------|----------------|-------------------------|---------------------|------------|-------------------|---------------|---|---------|-------|---|------|-------|
| MATERIAL WERKSTOFF | MATERIAL | M | Messing | Brass | OBERFLÄCHENBESCHAFFENHEIT | SURFACE FINISH | V | Verzinkt | Galvanised | | | | | | | | |
| A | Aluminium | Aluminium | C | Aluminiumdruckguss | Aluminium die casting | B | Blank | Bright | P | Pulverbeschichtet | Powder-coated | S | Schwarz | Black | W | Weiß | White |
| Z | Zinkdruckguss | Zinc die casting | E | Edelstahl | Stainless steel | T | Transparent beschichtet | Transparent coating | X | Eloxiert | Anodised | | | | | | |

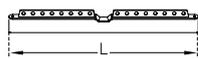


Ladenfeststellrechen
Shutter arrester rod

Länge
Length

| | | | |
|--------|-------------------|-------------|---------|
| 150 mm | A P | 5715 | 3.51 € |
| 200 mm | A P | 5720 | 3.81 € |
| 250 mm | A P | 5725 | 4.06 € |
| 300 mm | A P | 5730 | 4.25 € |
| 350 mm | A P | 5735 | 4.57 € |
| 400 mm | A P | 5740 | 5.08 € |
| 450 mm | A P | 5745 | 5.51 € |
| 500 mm | A P | 5750 | 5.97 € |
| 550 mm | A P | 5755 | 6.60 € |
| 600 mm | A P | 5760 | 7.24 € |
| 650 mm | A P | 5765 | 8.11 € |
| 700 mm | A P | 5770 | 8.49 € |
| 750 mm | A P | 5775 | 9.57 € |
| 800 mm | A P | 5780 | 10.84 € |

| INFO |
|--|
| • Maßfindung: Flügelbreite – 50 mm = Rechenlänge |
| • Angabe nur in 50 mm-Schritten möglich (es muss auf- oder abgerundet werden!) |
| • Bausituation beachten: Falz = abrunden, Falzleiste = aufrunden, innenliegende Montage = aufrunden |
| • bei Schema 4/4 A unbedingt zusätzlichen Verschluss für die mittleren Flügel ver- wenden (Ladenriegel, etc.), damit diese auch gesichert werden können |
| • Taking measurements: Sash width – 50 mm = rod length |
| • Specifications only in 50 mm steps (you must round up or down!) |
| • Observe the construction situation: rab- bet = round down, rabbet bead = round up, inside installation = round up |
| • With diagram 4/4 A an additional closure is necessary for the centre sashes (shut- ter lock, etc.), to ensure that these are also secured |



Ladenfeststellrechen, Sonderform
für JVH und JVH-A, ausgeklinkt

Shutter arrester rod, special
shape for JVH and JVH-A, notched

Länge
Length

| | | | |
|--------|-------------------|-------------|---------|
| 300 mm | V P | 5930 | 10.11 € |
| 350 mm | V P | 5935 | 10.19 € |
| 400 mm | V P | 5940 | 10.40 € |
| 450 mm | V P | 5945 | 11.27 € |
| 500 mm | V P | 5950 | 13.75 € |
| 550 mm | V P | 5955 | 14.83 € |
| 600 mm | V P | 5960 | 16.48 € |
| 650 mm | V P | 5965 | 18.92 € |
| 700 mm | V P | 5970 | 20.70 € |
| 750 mm | V P | 5975 | 21.82 € |
| 800 mm | V P | 5980 | 24.27 € |

| INFO |
|---|
| • nur für JVH – funktioniert nicht mit JVH- 73/JVH-73A |
| • Maßfindung: Flügelbreite – 50 mm = Rechenlänge |
| • Angabe nur in 50 mm-Schritten möglich (es muss auf- oder abgerundet werden!) |
| • Bausituation beachten: Falz = abrunden, Falzleiste = aufrunden, innenliegende Montage = aufrunden |
| • Only for JVH – does not work with JVH-73/JVH-73A |
| • Taking measurements: Sash width – 50 mm = rod length |
| • Specifications only in 50 mm steps (you must round up or down!) |
| • Observe the construction situation: rab- bet = round down, rabbet bead = round up, inside installation = round up |

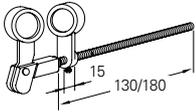
I Verzinkte Teile sind rost-geschützt, nicht rostfrei, und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

| | | | |
|---|---|--|--|
| MATERIAL WERKSTOFF MATERIAL | M Messing Brass | OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH | V Verzinkt Galvanised |
| A Aluminium Aluminium | G Aluminiumdruckguss Aluminium die casting | B Blank Bright | P Pulverbeschichtet Powder-coated |
| Z Zinkdruckguss Zinc die casting | E Edelstahl Stainless steel | K Kunststoff Plastic | S Schwarz Black |
| | | | W Weiß White |
| | | | T Transparent beschichtet Transparent coating |
| | | | X Eloxiert Anodised |

Rückhaltesysteme / Shutter catch systems

INFO

- PVC-Anschläge in schwarz oder weiß
- PVC stops in black or white



Ladenhalter, Gewinde M10, verstellbar

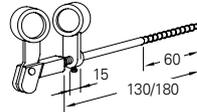
Shutter holder, thread M10, adjustable

einfach
single

| | | | |
|--------|------------|--------------|---------|
| 130 mm | B | 10306 | 10.31 € |
| 130 mm | P | 5306 | 12.35 € |
| 130 mm | E B | 13306 | 12.86 € |
| 130 mm | E P | 3306 | 13.91 € |

doppelt
double

| | | | |
|--------|------------|--------------|---------|
| 180 mm | B | 10307 | 10.51 € |
| 180 mm | P | 5307 | 12.65 € |
| 180 mm | E B | 13307 | 13.67 € |
| 180 mm | E P | 3307 | 14.72 € |



Ladenhalter, verstellbar, Holzgewinde

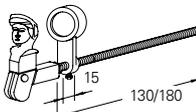
Shutter holder, adjustable, wood thread

einfach
single

| | | | |
|--------|----------|--------------|---------|
| 130 mm | B | 10308 | 10.51 € |
| 130 mm | P | 5308 | 12.35 € |

doppelt
double

| | | | |
|--------|----------|--------------|---------|
| 180 mm | B | 10309 | 10.38 € |
| 180 mm | P | 5309 | 12.65 € |



Frauenkopf-Ladenhalter, verstellbar, Gewinde M10

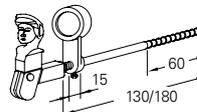
Lady head shutter holder, adjustable, thread M10

einfach
single

| | | | |
|--------|------------|--------------|---------|
| 130 mm | B | 10318 | 11.69 € |
| 130 mm | P | 5318 | 13.83 € |
| 130 mm | E B | 13318 | 12.45 € |
| 130 mm | E P | 3318 | 15.37 € |

doppelt
double

| | | | |
|--------|------------|--------------|---------|
| 180 mm | B | 10319 | 12.14 € |
| 180 mm | P | 5319 | 14.25 € |
| 180 mm | E B | 13319 | 14.16 € |
| 180 mm | E P | 3319 | 16.30 € |



Frauenkopf-Ladenhalter, verstellbar, mit Holzgewinde

Lady head shutter holder, adjustable, with wood thread

einfach
single

| | | | |
|--------|----------|--------------|---------|
| 130 mm | B | 10320 | 12.14 € |
| 130 mm | P | 5320 | 14.25 € |

doppelt
double

| | | | |
|--------|----------|--------------|---------|
| 180 mm | B | 10321 | 12.39 € |
| 180 mm | P | 5321 | 14.49 € |

I Verzinkte Teile sind rost-geschützt, nicht rostfrei, und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

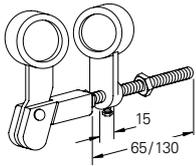
MATERIAL WERKSTOFF MATERIAL

A Aluminium Aluminium **C** Aluminiumdruckguss Aluminium die casting
Z Zinkdruckguss Zinc die casting **E** Edelstahl Stainless steel **K** Kunststoff Plastic

M Messing Brass

OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH **V** Verzinkt Galvanised

B Blank Bright **P** Pulverbeschichtet Powder-coated **S** Schwarz Black **W** Weiß White
T Transparent beschichtet Transparent coating **X** Eloxiert Anodised



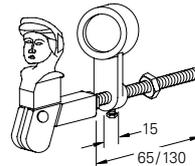
ISO-Ladenhalter, verstellbar,
Gewinde M10 mit Mutter
ISO shutter holder, adjustable,
thread M10 with nut

einfach
single

| | | | |
|-------|------------|--------------|---------|
| 65 mm | B | 14306 | 9.83 € |
| 65 mm | P | 4306 | 11.72 € |
| 65 mm | E B | 13308 | 10.87 € |
| 65 mm | E P | 3308 | 12.81 € |

doppelt
double

| | | | |
|--------|------------|--------------|---------|
| 130 mm | B | 14307 | 10.01 € |
| 130 mm | P | 4307 | 12.05 € |
| 130 mm | E B | 13309 | 12.16 € |
| 130 mm | E P | 3309 | 13.58 € |



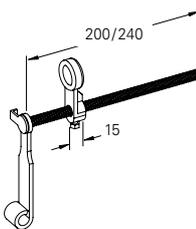
ISO-Frauenkopf-Ladenhalter, ver-
stellbar, Gewinde M10 mit Mutter
ISO lady head shutter holder,
adjustable, thread M10 with nut

einfach
single

| | | | |
|-------|------------|--------------|---------|
| 65 mm | B | 14318 | 11.13 € |
| 65 mm | P | 4318 | 13.17 € |
| 65 mm | E B | 13320 | 12.13 € |
| 65 mm | E P | 3320 | 14.24 € |

doppelt
double

| | | | |
|--------|------------|--------------|---------|
| 130 mm | B | 14319 | 11.13 € |
| 130 mm | P | 4319 | 13.17 € |
| 130 mm | E B | 13321 | 12.60 € |
| 130 mm | E P | 3321 | 14.70 € |



Ladenvorreiber verstellbar,
Gewinde M10, einschl. PVC-
Schoner

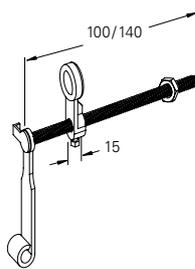
Sash lock, adjustable, thread M10,
including PVC protector

einfach
single

| | | | |
|--------|------------|--------------|---------|
| 200 mm | B | 10310 | 14.72 € |
| 200 mm | P | 5310 | 16.31 € |
| 200 mm | E B | 13310 | 23.72 € |
| 200 mm | E P | 3310 | 24.75 € |

doppelt
double

| | | | |
|--------|------------|--------------|---------|
| 240 mm | B | 10311 | 18.45 € |
| 240 mm | P | 5311 | 18.39 € |
| 240 mm | E B | 13311 | 24.10 € |
| 240 mm | E P | 3311 | 25.13 € |



ISO-Ladenvorreiber, verstellbar,
Gewinde M10 einschl. PVC-
Schoner

ISO sash lock, adjustable, thread
M10 incl. PVC protector

einfach
single

| | | | |
|--------|------------|--------------|---------|
| 100 mm | B | 14310 | 13.64 € |
| 100 mm | P | 4310 | 16.87 € |
| 100 mm | E B | 14312 | 20.80 € |
| 100 mm | E P | 4312 | 21.84 € |

doppelt
double

| | | | |
|--------|------------|--------------|---------|
| 140 mm | B | 14311 | 13.64 € |
| 140 mm | P | 4311 | 17.38 € |
| 140 mm | E B | 14313 | 21.81 € |
| 140 mm | E P | 4313 | 22.85 € |

I Verzinkte Teile sind rost-geschützt, nicht rostfrei, und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

MATERIAL WERKSTOFF MATERIAL

A Aluminium Aluminium **C** Aluminiumdruckguss Aluminium die casting
Z Zinkdruckguss Zinc die casting **E** Edelstahl Stainless steel **K** Kunststoff Plastic

M Messing Brass

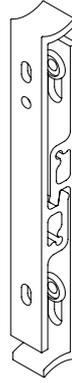
OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH **V** Verzinkt Galvanised

B Blank Bright **P** Pulverbeschichtet Powder-coated **S** Schwarz Black **W** Weiß White
T Transparent beschichtet Transparent coating **X** Eloxiert Anodised



Streichblech für Vorreiber
Scrapper plate for sash lock

| | | | |
|----------|----------|--------------|---------------|
| E | B | 14370 | 1.40 € |
| E | P | 4370 | 2.44 € |



Ladenhalter für Türen, mit links und rechts verwendbarem Hebestift (lose beige packt), zum Zusammenhalten von Doppelflügeln

Shutter holder for doors, with lifting pin usable left and right (packed loose), for holding double sashes together

| | | | |
|--------------|----------|-------------|----------------|
| 17 mm | P | 5805 | 11.41 € |
| 30 mm | P | 5803 | 11.41 € |
| 40 mm | P | 5804 | 12.29 € |

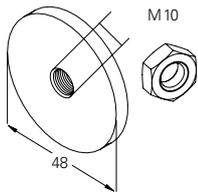
INFO

- bei Doppelflügeln zwingend erforderlich
- Required in combination with double sashes

J

I Verzinkte Teile sind rost-geschützt, nicht rostfrei, und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

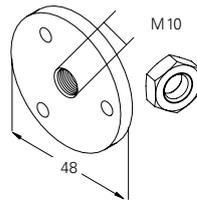
| | |
|---|--|
| M Messing Brass | V Verzinkt Galvanised |
| A Aluminium Aluminium | B Blank Bright |
| C Aluminiumdruckguss Aluminium die casting | P Pulverbeschichtet Powder-coated |
| Z Zinkdruckguss Zinc die casting | S Schwarz Black |
| E Edelstahl Stainless steel | W Weiß White |
| K Kunststoff Plastic | T Transparent beschichtet Transparent coating |
| | X Eloxiert Anodised |



Anschraubplatte mit Innengewinde und Mutter M10, für Vorreiber oder Ladenhalter

Screw-on plate with inside thread and M10 nut, for sash lock or shutter holder

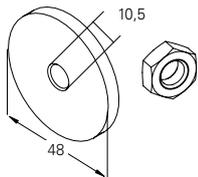
| | | |
|----------|--------------|---------------|
| B | 10314 | 3.08 € |
| P | 5314 | 4.06 € |



**Anschraubplatte mit Anschraub-
löchern** mit Innengewinde und Mutter M10, für Vorreiber oder Ladenhalter

Screw-on plate with screw holes with inside thread and M10 nut, for sash lock or shutter holder

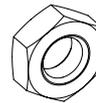
| | | |
|----------|--------------|---------------|
| B | 10313 | 3.08 € |
| P | 5313 | 4.06 € |



Abdeckplatte Ø48 mm, Innenloch 10,5 mm, mit Mutter M10

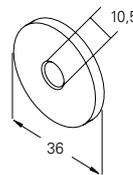
Cover plate Ø48 mm, inside hole 10.5 mm, with M10 nut

| | | |
|----------|--------------|---------------|
| B | 10317 | 2.92 € |
| P | 5317 | 3.84 € |



Kontermutter M10, VE = 10 Stk.
Lock nut M10, VE = 10 pcs.

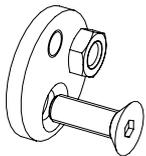
| | | |
|----------|--------------|---------------|
| V | 14900 | 4.94 € |
| P | 4900 | 9.33 € |



Anklebescheibe Ø36 mm, Innenloch 10,5 mm

Glue-on disc Ø36 mm, inside hole 10.5 mm

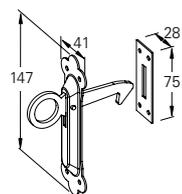
| | | |
|----------|--------------|---------------|
| B | 10322 | 2.12 € |
| P | 5322 | 2.79 € |



Excenterscheibe (Set), Ø48 mm, Gewinde M10, Inox-Schraube

Excenter disc (set), Ø48 mm, thread M10, stainless steel screw

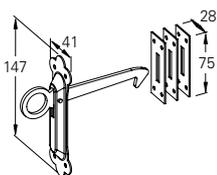
| | | | |
|-----------|----------|--------------|---------------|
| M10/30 mm | B | 10325 | 4.65 € |
| M10/30 mm | P | 5325 | 9.04 € |
| M10/80 mm | B | 10326 | 5.70 € |
| M10/80 mm | P | 5326 | 9.75 € |



Windfalle einfach, 45 mm, mit 1 Führungsblech

Catch, single, 45 mm, with 1 guide plate

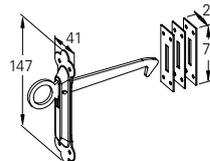
| | | | |
|----------|----------|-------------|----------------|
| E | P | 5821 | 21.51 € |
|----------|----------|-------------|----------------|



Windfalle doppelt, 90 mm, mit 3 Führungsblechen, Anschlagsschemen LA / RA

Catch, double, 90 mm with 3 guide plates, stop diagrams LA / RA

| | | | |
|----------|----------|-------------|----------------|
| E | P | 5822 | 30.61 € |
|----------|----------|-------------|----------------|



Windfalle doppelt, 105 mm, mit 3 Führungsblechen, Anschlagsschemen L/R

Catch, double, 105 mm, with 3 guide plates, stop diagrams L/R

| | | | |
|----------|----------|-------------|----------------|
| E | P | 5823 | 36.21 € |
|----------|----------|-------------|----------------|

I Verzinkte Teile sind rost-geschützt, nicht rostfrei, und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

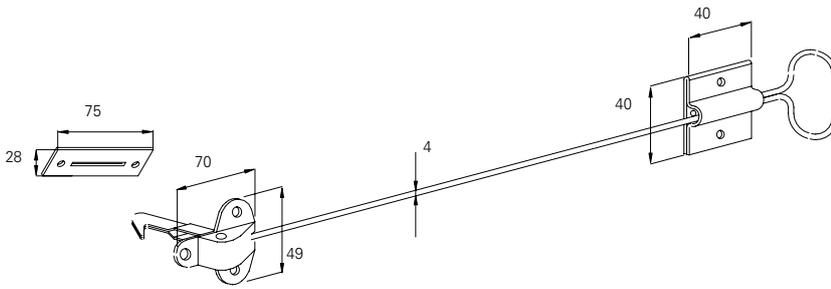
MATERIAL WERKSTOFF MATERIAL

A Aluminium Aluminium **C** Aluminiumdruckguss Aluminium die casting
Z Zinkdruckguss Zinc die casting **E** Edelstahl Stainless steel **K** Kunststoff Plastic

M Messing Brass

OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH **V** Verzinkt Galvanised

B Blank Bright **P** Pulverbeschichtet Powder-coated **S** Schwarz Black **W** Weiß White
T Transparent beschichtet Transparent coating **X** Eloxiert Anodised



**Zugwindfalle einfach, mit
1 Führungsblech**

Catch, single, with 1 guide plate

45 mm A E P **5816** 25.35 €

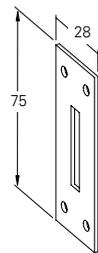
**Zugwindfalle doppelt, mit
3 Führungsblechen**

Pull catch, double, with 3 guide plates

90 mm A E P **5817** 33.08 €

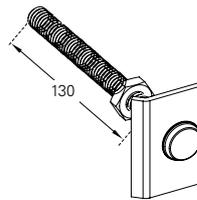
INFO

- Doppelte Windfallen nicht für Anschlagschema 2L, 2R, 3L, 3R, 4
- ideales Rückhaltesystem, da Rückhaltepunkt weit vom Klobendrehpunkt entfernt sitzt
- beim Einsatz von Türen ist ein Querfries erforderlich
- Double catches not for stop diagrams 2L, 2R, 3L, 3R, 4
- Ideal shutter catch system as the catch point is positioned far away from the bracket's pivoting point
- A horizontal cross-panel is required when doors are incorporated



**Führungsblech, 1,5 mm
Guide plate, 1.5 mm**

E P **5824** 2.26 €



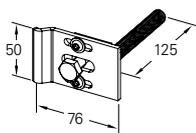
**Windfallenkloben, inkl. Anschlag-
puffer transparent**

Catch brackets, incl. transparent
stop buffer

M10/130 V B **10815** 14.50 €
M10/130 V P **5815** 16.50 €

INFO

- Art. 5815: keine Korrekturmöglichkeit
- Art. 5815: not possible to correct subsequently

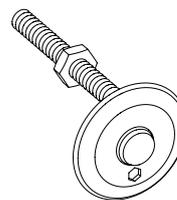


**Windfallenkloben verstellbar
Catch brackets, adjustable**

E P **5818** 12.62 €

INFO

- auch für Modell DIJON geeignet
- Also suitable for the DIJON model



**Windfallenkloben, inkl. Anschlag-
puffer transparent**

Catch brackets, incl. transparent
stop buffer

M10/130 V B **10819** 14.50 €
M10/130 V P **5819** 16.50 €
M10/65 V B **10825** 12.50 €
M10/65 V P **5825** 14.50 €

INFO

- nicht für Modell DIJON geeignet
- sehr montagefreundlich durch Exzenterfunktion
- Not suitable for the DIJON model
- very easy to install thanks to eccentric function

I Verzinkte Teile sind rost-geschützt, nicht rostfrei, und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

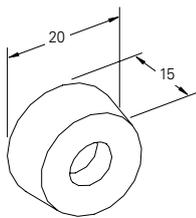
MATERIAL WERKSTOFF MATERIAL

A Aluminium Aluminium C Aluminiumdruckguss Aluminium die casting
Z Zinkdruckguss Zinc die casting E Edelstahl Stainless steel K Kunststoff Plastic

M Messing Brass

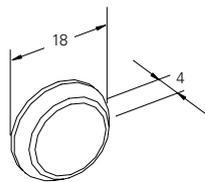
OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH V Verzinkt Galvanised

B Blank Bright P Pulverbeschichtet Powder-coated S Schwarz Black W Weiß White
T Transparent beschichtet Transparent coating X Eloxiert Anodised



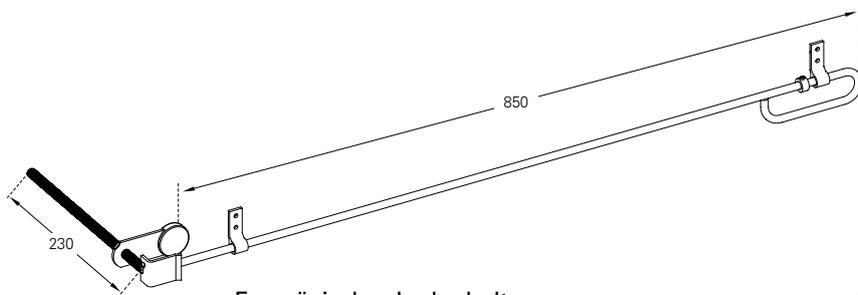
Gummi-Anschlagpuffer 20 mm,
Höhe 15 mm, Beutel à 10 Stück
Rubber stop buffer 20 mm, height
15 mm, bag of 10 pieces

| | | |
|----------|--------------|---------------|
| W | 10016 | 5.71 € |
| S | 10017 | 5.71 € |



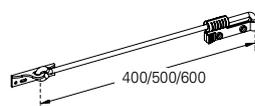
Anschlagpuffer transparent,
selbstklebend 18 mm, Höhe 4 mm
Stop buffer, transparent, self-
adhesive 18 mm, height 4 mm

| | | |
|--|--------------|---------------|
| | 10020 | 0.67 € |
|--|--------------|---------------|



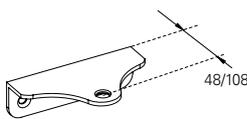
Französischer Ladenhalter,
850 mm lang, mit Schließkloben
French shutter support, 850 mm
long, with closing catch

| | | |
|--------------|-------------|----------------|
| V A P | 5700 | 31.49 € |
| E A P | 4700 | 48.37 € |



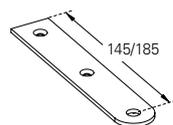
Ladenrückhalter LYONNAIS,
Stahl verzinkt / Aluminium,
komplett beschichtet, inkl.
Aushängesicherung, PVC grau

Shutter catch LYONNAIS, galva-
nised steel/aluminium, fully coated,
incl. disconnection lock, PVC grey



Aluminium, Winkelform, beschichtet
Aluminium, angle shape, coated

| | | |
|-------------------|-------------|----------------|
| 400/48 mm | 9740 | 44.72 € |
| 500/48 mm | 9750 | 44.72 € |
| 600/48 mm | 9760 | 44.72 € |
| 400/108 mm | 9770 | 47.36 € |
| 500/108 mm | 9780 | 47.36 € |
| 600/108 mm | 9790 | 47.36 € |



Edelstahlflachprofil, beschichtet
Stainless steel flat profile, coated

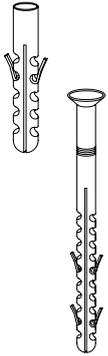
| | | |
|-------------------|-------------|----------------|
| 400/145 mm | 9840 | 51.92 € |
| 500/145 mm | 9850 | 51.92 € |
| 600/145 mm | 9860 | 51.92 € |
| 400/185 mm | 9870 | 55.07 € |
| 500/185 mm | 9880 | 55.07 € |
| 600/185 mm | 9890 | 55.07 € |

| INFO |
|--|
| <ul style="list-style-type: none"> • ideales Rückhaltesystem, da Rückhaltepunkt weit vom Klobendrehpunkt entfernt sitzt • beim Einsatz von Türen ist ein Querfries empfehlenswert • sehr montagefreundlich • bei Doppelläden sollte generell ein Ladenhalter für Türen verwendet werden (Art.-Nr. 5805, 5804, 5803) • nicht einsetzbar bei JVH und DIJON • Überlänge als Sonderartikel lieferbar <ul style="list-style-type: none"> • Ideal shutter catch system as the catch point is positioned far away from the bracket's pivoting point • A horizontal cross-panel is recommended when doors are incorporated • Very easy to install • With double shutters, a shutter holder should generally be used for doors (art. no. 5805, 5804, 5803) • Cannot be used for JVH and DIJON • Excess length can be supplied as a special article |

I Verzinkte Teile sind rost-geschützt, nicht rostfrei, und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

| | | | |
|---|--|---|--|
| MATERIAL WERKSTOFF MATERIAL | M Messing Brass | OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH | V Verzinkt Galvanised |
| A Aluminium Aluminium | C Aluminiumdruckguss Aluminium die casting | B Blank Bright | P Pulverbeschichtet Powder-coated |
| Z Zinkdruckguss Zinc die casting | E Edelstahl Stainless steel | S Schwarz Black | W Weiß White |
| K Kunststoff Plastic | T Transparent beschichtet Transparent coating | X Eloxiert Anodised | |

Sonstiges / Miscellaneous

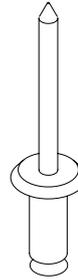


Nylon-Gewindedübel M10, 14/70 mm
Nylon thread dowel M10, 14/70 mm

10015 1.23 €

Nylon-Fassadendübel M10 oder Holzgewinde 10 mm, 14/100 mm
Nylon façade dowel M10 or wood thread 10 mm, 14/100 mm

10018 1.08 €

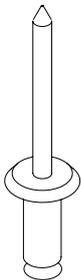


Blindniete, 4 × 12 mm, Einheit à 50 Stück

Blind rivet, 4 × 12 mm, unit with 50 pieces

Farben
Colours

| | | | | |
|-------------|----------------------------|----------------------------|------|--------|
| Standard | <input type="checkbox"/> A | <input type="checkbox"/> P | 5001 | 4.99 € |
| RAL/VSR/NCS | <input type="checkbox"/> A | <input type="checkbox"/> P | 5001 | 9.38 € |



Blindnieten-Set für Expressband-Montage, 4 × 10 mm, Beutel à 50 Stück

Blind rivet set for express hinge installation, 4 × 10 mm, bag of 50 pieces

B 5112 5.09 €

J

Verzinkte Teile sind rost-geschützt, nicht rostfrei, und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

MATERIAL WERKSTOFF MATERIAL

A Aluminium Aluminium C Aluminiumdruckguss Aluminium die casting
 Z Zinkdruckguss Zinc die casting E Edelstahl Stainless steel K Kunststoff Plastic

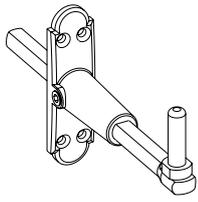
M Messing Brass

OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH

B Blank Bright P Pulverbeschichtet Powder-coated S Schwarz Black W Weiß White
 T Transparent beschichtet Transparent coating X Eloxiert Anodised

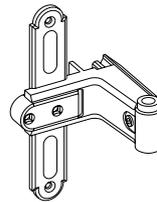
V Verzinkt Galvanised

Zubehör für Fensterstockmontage / Accessories for window frame installation



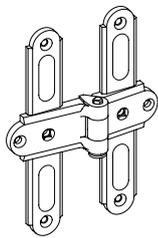
Verstellkloben schmale Ausführung 25 mm, seitlich regulierbar
Adjustable catch, narrow design 25 mm, regulated at side

| Größe Size | | | schwarz black | weiß white |
|---------------|---------|---------|------------------|---------------|
| 0 | 47-85 | 30-70 | 17120 6.18 € | 18120 7.13 € |
| 1 | 63-125 | 60-90 | 17121 6.59 € | 18121 7.60 € |
| 2 | 105-183 | 80-120 | 17122 8.16 € | 18122 9.40 € |
| 3 | 163-220 | 110-140 | 17123 8.94 € | 18123 10.28 € |



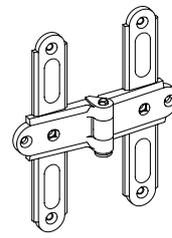
Band gekröpft, seitlich über Spindel verstellbar
Hinge offset, adjustable at side via spindle

| Größe Size | | | schwarz black | weiß white |
|---------------|---------|--------|------------------|---------------|
| 0 | 50-80 | 20-35 | 17150 10.55 € | 18150 11.56 € |
| 1 | 74-110 | 32-50 | 17151 10.55 € | 18151 11.56 € |
| 2 | 100-150 | 45-70 | 17152 10.91 € | 18152 12.00 € |
| 3 | 140-210 | 65-100 | 17153 13.54 € | 18153 16.25 € |



Laden-Mittelband gekröpft, rechts und links verwendbar
Shutter middle hinge, offset, right and left usable

| | | |
|----------|-------|---------|
| S | 17131 | 10.82 € |
| W | 18131 | 11.95 € |



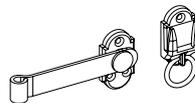
Laden-Mittelband gerade, rechts und links verwendbar
Shutter middle hinge, straight, right and left usable

| | | |
|----------|-------|---------|
| S | 17130 | 10.82 € |
| W | 18130 | 11.95 € |



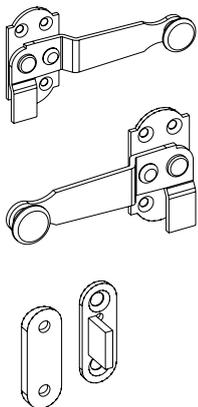
Ladenverschluss gekröpft mit Zugring
Shutter closure, offset with pull ring

| | | | |
|------------|----------|-------|---------|
| L = 175 mm | S | 17336 | 9.30 € |
| L = 175 mm | W | 18336 | 10.18 € |



Ladenverschluss gerade mit Zugring
Shutter closure, straight with pull ring

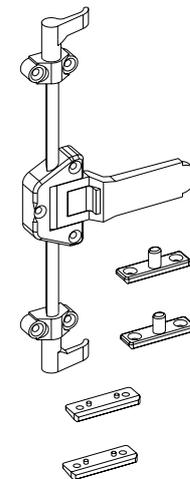
| | | | |
|--|----------|-------|---------|
| | S | 17335 | 10.69 € |
| | W | 18335 | 11.66 € |



Ladenverschluss einseitig verwendbar mit Schließzapfenplatte und Schrägunterlage
Shutter closure, single-side use, with closing pin plate and angled support

| links Left | | | |
|---------------|----------|-------|---------|
| | S | 17440 | 8.56 € |
| | W | 18440 | 10.48 € |

| rechts Right | | | |
|-----------------|----------|-------|---------|
| | S | 17441 | 8.56 € |
| | W | 18441 | 10.48 € |



Rustico-Stangenverschluss komplett mit Stangen, Schließzapfenplatte und Schrägunterlage

Rustico rod closure, complete with rods, closing pin plate and angled support

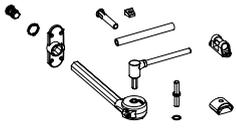
| | | | |
|--|----------|-------|---------|
| | S | 17804 | 28.79 € |
| | W | 18804 | 32.51 € |

INFO

- lieferbar in den Größen: 1600 mm, 2500 mm und 3000 mm
- Available in these sizes: 1600 mm, 2500 mm and 3000 mm

I Verzinkte Teile sind rost-geschützt, nicht rostfrei, und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

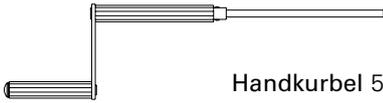
MATERIAL WERKSTOFF MATERIAL **M** Messing Brass OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH **V** Verzinkt Galvanised
A Aluminium Aluminium **C** Aluminiumdruckguss Aluminium die casting **B** Blank Bright **P** Pulverbeschichtet Powder-coated **S** Schwarz Black **W** Weiß White
Z Zinkdruckguss Zinc die casting **E** Edelstahl Stainless steel **K** Kunststoff Plastic **T** Transparent beschichtet Transparent coating **X** Eloxiert Anodised



MACO-Ladeninnenöffner mit Schwenkarm, links/rechts verwendbar
MACO shutter inside opener with swivelling arm, usable left/right

| | | |
|----------|-------|---------|
| S | 17343 | 79.82 € |
| W | 18343 | 91.78 € |

| INFO | |
|------|--|
| • | Ausführung rechts oder links, Ansicht von außen. Unbedingt Größendiagramm sowie Hinweis „Fensterläden mit Innenöffner“ beachten. |
| • | Right or left model, view from outside. Always observe the size diagram and the note on “Window shutters with inside opener”. |



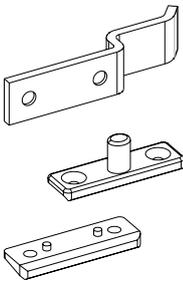
Handkurbel 500 mm
Hand-crank 500 mm

| | | |
|--|-------|---------|
| | 17354 | 32.06 € |
|--|-------|---------|



Gelenk-Handkurbel 250 mm
Articulated hand-crank 250 mm

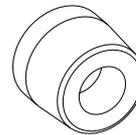
| | | |
|--|-------|---------|
| | 17355 | 32.06 € |
|--|-------|---------|



Verschlusshaken, Schließzapfenplatte und Schrägunterlage
Closure hook, closing pin plate and angled support

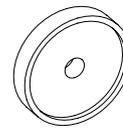
je 2 Stk.
2 pc. set

| | | |
|----------|-------|--------|
| S | 17805 | 5.44 € |
| W | 18805 | 6.08 € |



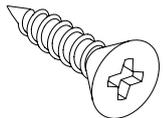
Rustico-Anschlagpuffer, ø25 mm
Rustico stop buffer, ø25 mm

| | | | |
|---------|----------|-------|--------|
| H=20 mm | S | 17356 | 3.34 € |
| H=20 mm | W | 18356 | 3.83 € |



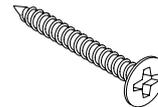
Unterlage für Anschlagpuffer, ø28 mm
Support for stop buffer, ø28 mm

| | | | |
|--------|----------|-------|--------|
| H=5 mm | S | 17357 | 1.44 € |
| H=5 mm | W | 18357 | 1.51 € |



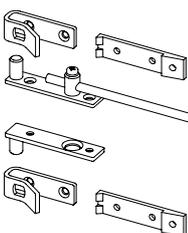
Senkblechschrauben 4,2 x 25 mm, 100 Stück
Countersunk self-tapping screws 4.2 x 25 mm, 100 pcs.

| | | |
|----------|-------|---------|
| S | 17810 | 9.36 € |
| W | 18810 | 10.55 € |



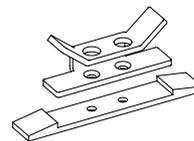
Senkschrauben für Verstellkloben, 4,5x40 mm, 100 Stück
Countersunk self-tapping screws for adjustable catch, 4.5x40 mm, 100 pcs.

| | | |
|----------|-------|---------|
| S | 17808 | 9.36 € |
| W | 18808 | 10.55 € |



Kupplungsgestänge für Innenöffner
Coupling rod for inside opener

| | | |
|----------|-------|---------|
| S | 17350 | 54.48 € |
| W | 18350 | 62.71 € |



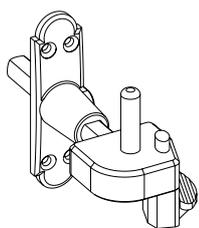
Schließhaken für Kupplungsgestänge, erforderlich bei Schema 4 mit Innenöffner

Closing hook for coupling rod, necessary by stop diagram 4 with inside opener

| | | |
|----------|-------|--------|
| S | 17351 | 8.78 € |
| W | 18351 | 9.44 € |

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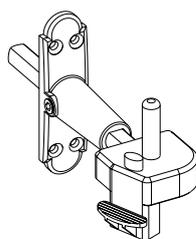
| | |
|---|--|
| M Messing Brass | V Verzinkt Galvanised |
| A Aluminium Aluminium | B Blank Bright |
| C Aluminiumdruckguss Aluminium die casting | P Pulverbeschichtet Powder-coated |
| Z Zinkdruckguss Zinc die casting | S Schwarz Black |
| E Edelstahl Stainless steel | W Weiß White |
| K Kunststoff Plastic | T Transparent beschichtet Transparent coating |
| | X Eloxiert Anodised |



Rasthalter mit Kloben und Haltekonsole 25 mm, links

Detent holder with catch and holding bracket 25 mm, left

| Größe Size | schwarz black | weiß white |
|---------------|------------------|---------------|
| 0 | 17220 18.70 € | 18220 20.52 € |
| 1 | 17221 19.18 € | 18221 21.03 € |
| 2 | 17222 20.62 € | 18222 22.56 € |
| 3 | 17223 21.80 € | 18223 23.53 € |



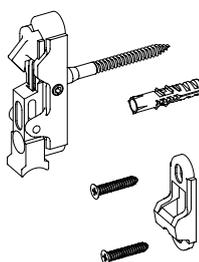
Rasthalter mit Kloben und Haltekonsole 25 mm, rechts

Detent holder with catch and holding bracket 25 mm, right

| Größe Size | schwarz black | weiß white |
|---------------|------------------|---------------|
| 0 | 17230 18.70 € | 18230 20.52 € |
| 1 | 17231 19.18 € | 18231 21.03 € |
| 2 | 17232 20.62 € | 18232 22.56 € |
| 3 | 17233 21.80 € | 18233 23.53 € |

INFO

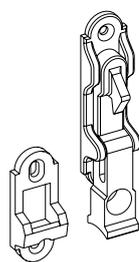
- Beachten Sie die Anwendungstabelle Rasthalter auf Seite 166!
- Note application table for detent holders (page 166)!



Türladenhalter mit Trägerschraube und Dübel, 100 mm

Door shutter holder with carrier screw and dowel, 100 mm

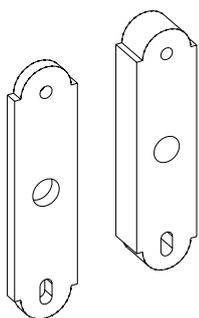
| | | |
|----------|-------|---------|
| S | 17611 | 14.82 € |
| W | 18611 | 17.12 € |



Türladenhalter, speziell für Doppelflügel

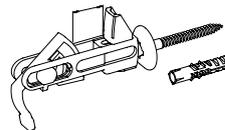
Door shutter holder, specially for double sashes

| | | |
|----------|-------|--------|
| S | 17610 | 7.50 € |
| W | 18610 | 9.53 € |



Unterlage für Türladenhalter
Support for door shutter holder

| | | | |
|-------|----------|-------|--------|
| 5 mm | S | 17612 | 1.38 € |
| 5 mm | W | 18612 | 1.55 € |
| 15 mm | S | 17613 | 1.38 € |
| 15 mm | W | 18613 | 1.55 € |



Ladenhalter Classic mit Beschlägeträger und Dübel

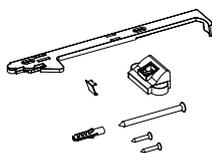
Shutter holder Classic with fittings carrier and dowel

einfach single

| | | | |
|----------|----------|-------|---------|
| 15-40 mm | S | 17620 | 12.79 € |
| 15-40 mm | W | 18620 | 14.05 € |

doppelt double

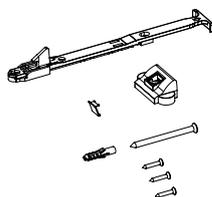
| | | | |
|-----------|----------|-------|---------|
| 66-90 mm | S | 17622 | 14.65 € |
| 66-90 mm | W | 18622 | 17.44 € |
| 91-115 mm | S | 17621 | 16.55 € |
| 91-115 mm | W | 18621 | 20.85 € |



Komfort-Ladenhalter MACO, für Fenster mit Rückhalter

Comfort shutter holder MACO, for windows with shutter catch

| | | | |
|----------------|----------|-------|---------|
| links / left | S | 17630 | 11.38 € |
| rechts / right | S | 17631 | 11.38 € |
| links / left | W | 18630 | 12.40 € |
| rechts / right | W | 18631 | 12.40 € |



Komfort-Ladenhalter MACO, für Türen mit Rückhalter, links u. rechts verwendbar

Comfort shutter holder MACO, for doors with shutter catch, usable left and right

| | | |
|----------|-------|---------|
| S | 17638 | 11.38 € |
| W | 18638 | 12.40 € |

INFO

- Aufbau des Komfort-Ladenhalter unten am Flügel 8 mm. Bitte Luftabzug berücksichtigen!
- Structure of comfort shutter holder at bottom of sash 8 mm. Please take air escape into account!

I Verzinkte Teile sind rost-geschützt, nicht rostfrei, und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

MATERIAL WERKSTOFF MATERIAL **M** Messing Brass OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH **V** Verzinkt Galvanised
A Aluminium Aluminium **C** Aluminiumdruckguss Aluminium die casting **B** Blank Bright **P** Pulverbeschichtet Powder-coated **S** Schwarz Black **W** Weiß White
Z Zinkdruckguss Zinc die casting **E** Edelstahl Stainless steel **K** Kunststoff Plastic **T** Transparent beschichtet Transparent coating **X** Eloxiert Anodised

| | | | | |
|------------|-----------------|----------------------------|------------------------------|-----|
| Klappläden | Window shutters | Anschlagschemen | Stop schemes | 9 |
| | | Beschlagpakete | Hardware packages | 13 |
| | | Feststehende Lamellen | Fixed slats | 21 |
| | | Bewegliche Lamellen | Moving slats | 37 |
| | | Geschlossene Modelle | Closed models | 51 |
| | | Isolierende Modelle | Insulating models | 73 |
| | | Sonderformen und Optionen | Special shapes and options | 85 |
| | | Vormontage | Pre-installation | 99 |
| | | Beschläge | Fittings | 109 |
| | | Zubehör | Accessories | 119 |
| | | Montagerahmen / Zargen | Installation frames / frames | 139 |
| | | Motorisierung und Antriebe | Motorisation and drives | 165 |
| | | Diverses | Miscellaneous | 171 |

A

B

C

D

E

F

G

H

I

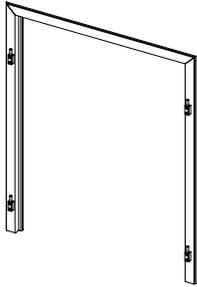
J

K

L

M

Schnellzarge Fast frame



3-seitig, ohne Flügel, inkl. vormontierte Kloben
3-sided, no sash, incl. preassembled brackets

INFO

Schnellzarge nicht in Verbindung mit Modell DIJON, -B, -BB, -Z, -ZZ möglich
Fast frame not possible in combination with models DIJON, -B, -BB, -Z, -ZZ

| | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 |
|-------------|-----|-----|-----|-----|-----|------|------|------|
| 800 | 168 | 170 | 172 | 175 | 177 | 180 | 183 | 185 |
| 900 | 172 | 175 | 177 | 180 | 183 | 185 | 187 | 189 |
| 1000 | 177 | 180 | 183 | 185 | 187 | 189 | 192 | 195 |
| 1100 | 183 | 185 | 187 | 189 | 192 | 195 | 197 | 199 |
| 1200 | 187 | 189 | 192 | 195 | 197 | 199 | 202 | 204 |
| 1300 | 192 | 195 | 197 | 199 | 202 | 204 | 206 | 209 |
| 1400 | 197 | 199 | 202 | 204 | 206 | 209 | 212 | 214 |
| 1500 | 202 | 204 | 206 | 209 | 212 | 214 | 216 | 218 |
| 1600 | 206 | 209 | 212 | 214 | 216 | 218 | 221 | 224 |
| 1700 | 212 | 214 | 216 | 218 | 221 | 224 | 226 | 228 |
| 1800 | 216 | 218 | 221 | 224 | 226 | 228 | 231 | 233 |
| 1900 | 221 | 224 | 226 | 228 | 231 | 233 | 235 | 239 |
| 2000 | 226 | 228 | 231 | 233 | 235 | 239 | 241 | 243 |
| 2100 | 265 | 268 | 270 | 272 | 274 | 277 | 280 | 282 |
| 2200 | 270 | 272 | 274 | 277 | 280 | 282 | 284 | 287 |
| 2300 | 274 | 277 | 280 | 282 | 284 | 287 | 289 | 291 |
| 2400 | 280 | 282 | 284 | 287 | 289 | 291 | 293 | 297 |
| 2500 | 284 | 287 | 289 | 291 | 293 | 297 | 299 | 301 |

Zargenbreite in mm
Frame width in mm

Zargenhöhe in mm
Frame height in mm

Schnellzarge Fast frame

3003

| | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 800 | 187 | 189 | 192 | 195 | 197 | 199 | 202 | 204 | 206 | 209 | 212 | 214 | 216 | 218 | 221 | 224 |
| 900 | 192 | 195 | 197 | 199 | 202 | 204 | 206 | 209 | 212 | 214 | 216 | 218 | 221 | 224 | 226 | 228 |
| 1000 | 197 | 199 | 202 | 204 | 206 | 209 | 212 | 214 | 216 | 218 | 221 | 224 | 226 | 228 | 231 | 233 |
| 1100 | 202 | 204 | 206 | 209 | 212 | 214 | 216 | 218 | 221 | 224 | 226 | 228 | 231 | 233 | 235 | 239 |
| 1200 | 206 | 209 | 212 | 214 | 216 | 218 | 221 | 224 | 226 | 228 | 231 | 233 | 235 | 239 | 241 | 243 |
| 1300 | 212 | 214 | 216 | 218 | 221 | 224 | 226 | 228 | 231 | 233 | 235 | 239 | 241 | 243 | 245 | 248 |
| 1400 | 216 | 218 | 221 | 224 | 226 | 228 | 231 | 233 | 235 | 239 | 241 | 243 | 245 | 248 | 250 | 253 |
| 1500 | 221 | 224 | 226 | 228 | 231 | 233 | 235 | 239 | 241 | 243 | 245 | 248 | 250 | 253 | 255 | 258 |
| 1600 | 226 | 228 | 231 | 233 | 235 | 239 | 241 | 243 | 245 | 248 | 250 | 253 | 255 | 258 | 260 | 262 |
| 1700 | 231 | 233 | 235 | 239 | 241 | 243 | 245 | 248 | 250 | 253 | 255 | 258 | 260 | 262 | 264 | 268 |
| 1800 | 235 | 239 | 241 | 243 | 245 | 248 | 250 | 253 | 255 | 258 | 260 | 262 | 264 | 268 | 270 | 272 |
| 1900 | 241 | 243 | 245 | 248 | 250 | 253 | 255 | 258 | 260 | 262 | 264 | 268 | 270 | 272 | 274 | 277 |
| 2000 | 245 | 248 | 250 | 253 | 255 | 258 | 260 | 262 | 264 | 268 | 270 | 272 | 274 | 277 | 279 | 281 |
| 2100 | 284 | 287 | 289 | 291 | 293 | 297 | 299 | 301 | 304 | 306 | 308 | 311 | 314 | 316 | 318 | 320 |
| 2200 | 289 | 291 | 293 | 297 | 299 | 301 | 304 | 306 | 308 | 311 | 314 | 316 | 318 | 320 | 323 | 326 |
| 2300 | 293 | 297 | 299 | 301 | 304 | 306 | 308 | 311 | 314 | 316 | 318 | 320 | 323 | 326 | 328 | 330 |
| 2400 | 299 | 301 | 304 | 306 | 308 | 311 | 314 | 316 | 318 | 320 | 323 | 326 | 328 | 330 | 333 | 335 |
| 2500 | 304 | 306 | 308 | 311 | 314 | 316 | 318 | 320 | 323 | 326 | 328 | 330 | 333 | 335 | 337 | 340 |

Zargenbreite in mm
Frame width in mm

Zargenhöhe in mm
Frame height in mm

Beschlagspaketpreise siehe S. 15
Siehe Spalte „Bestehende Kloben, LH Neu“

Hardware package prices, see p. 15
See column „Existing brackets, new shutter holders“

Schnellzarge Fast frame



| | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 |
|-------------|-----|-----|-----|-----|-----|------|------|------|
| 800 | 187 | 189 | 192 | 196 | 199 | 202 | 206 | 209 |
| 900 | 192 | 196 | 199 | 202 | 206 | 209 | 212 | 216 |
| 1000 | 199 | 202 | 206 | 209 | 212 | 216 | 219 | 222 |
| 1100 | 206 | 209 | 212 | 216 | 219 | 222 | 226 | 228 |
| 1200 | 212 | 216 | 219 | 222 | 226 | 228 | 231 | 235 |
| 1300 | 219 | 222 | 226 | 228 | 231 | 235 | 238 | 242 |
| 1400 | 226 | 228 | 231 | 235 | 238 | 242 | 245 | 248 |
| 1500 | 231 | 235 | 238 | 242 | 245 | 248 | 252 | 255 |
| 1600 | 238 | 242 | 245 | 248 | 252 | 255 | 258 | 262 |
| 1700 | 245 | 248 | 252 | 255 | 258 | 262 | 264 | 267 |
| 1800 | 252 | 255 | 258 | 262 | 264 | 267 | 271 | 274 |
| 1900 | 258 | 262 | 264 | 267 | 271 | 274 | 278 | 281 |
| 2000 | 264 | 267 | 271 | 274 | 278 | 281 | 284 | 288 |
| 2100 | 306 | 309 | 312 | 315 | 318 | 321 | 325 | 328 |
| 2200 | 312 | 315 | 318 | 321 | 325 | 328 | 331 | 335 |
| 2300 | 318 | 321 | 325 | 328 | 331 | 335 | 338 | 342 |
| 2400 | 325 | 328 | 331 | 335 | 338 | 342 | 345 | 348 |
| 2500 | 331 | 335 | 338 | 342 | 345 | 348 | 352 | 354 |

Zargenbreite in mm
Frame width in mm

Zargenhöhe in mm
Frame height in mm

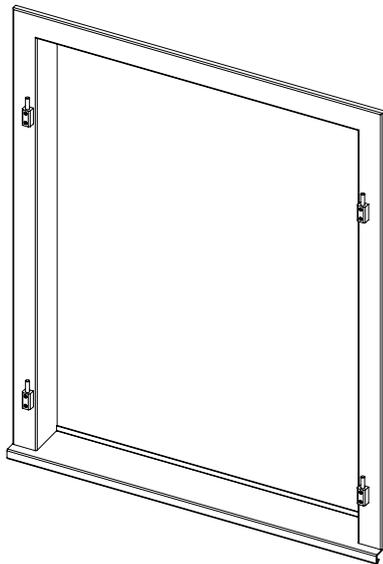


| | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 800 | 212 | 216 | 219 | 222 | 226 | 228 | 231 | 235 | 238 | 242 | 245 | 248 | 252 | 255 | 258 | 262 |
| 900 | 219 | 222 | 226 | 228 | 231 | 235 | 238 | 242 | 245 | 248 | 252 | 255 | 258 | 262 | 264 | 267 |
| 1000 | 226 | 228 | 231 | 235 | 238 | 242 | 245 | 248 | 252 | 255 | 258 | 262 | 264 | 267 | 271 | 274 |
| 1100 | 231 | 235 | 238 | 242 | 245 | 248 | 252 | 255 | 258 | 262 | 264 | 267 | 271 | 274 | 278 | 281 |
| 1200 | 238 | 242 | 245 | 248 | 252 | 255 | 258 | 262 | 264 | 267 | 271 | 274 | 278 | 281 | 284 | 288 |
| 1300 | 245 | 248 | 252 | 255 | 258 | 262 | 264 | 267 | 271 | 274 | 278 | 281 | 284 | 288 | 291 | 294 |
| 1400 | 252 | 255 | 258 | 262 | 264 | 267 | 271 | 274 | 278 | 281 | 284 | 288 | 291 | 294 | 298 | 300 |
| 1500 | 258 | 262 | 264 | 267 | 271 | 274 | 278 | 281 | 284 | 288 | 291 | 294 | 298 | 300 | 303 | 307 |
| 1600 | 264 | 267 | 271 | 274 | 278 | 281 | 284 | 288 | 291 | 294 | 298 | 300 | 303 | 307 | 310 | 313 |
| 1700 | 271 | 274 | 278 | 281 | 284 | 288 | 291 | 294 | 298 | 300 | 303 | 307 | 310 | 313 | 317 | 320 |
| 1800 | 278 | 281 | 284 | 288 | 291 | 294 | 298 | 300 | 303 | 307 | 310 | 313 | 317 | 320 | 324 | 327 |
| 1900 | 284 | 288 | 291 | 294 | 298 | 300 | 303 | 307 | 310 | 313 | 317 | 320 | 324 | 327 | 330 | 334 |
| 2000 | 291 | 294 | 298 | 300 | 303 | 307 | 310 | 313 | 317 | 320 | 324 | 327 | 330 | 334 | 337 | 339 |
| 2100 | 331 | 335 | 338 | 342 | 345 | 348 | 352 | 354 | 357 | 361 | 364 | 367 | 371 | 374 | 378 | 381 |
| 2200 | 338 | 342 | 345 | 348 | 352 | 354 | 357 | 361 | 364 | 367 | 371 | 374 | 378 | 381 | 384 | 388 |
| 2300 | 345 | 348 | 352 | 354 | 357 | 361 | 364 | 367 | 371 | 374 | 378 | 381 | 384 | 388 | 390 | 393 |
| 2400 | 352 | 354 | 357 | 361 | 364 | 367 | 371 | 374 | 378 | 381 | 384 | 388 | 390 | 393 | 397 | 400 |
| 2500 | 357 | 361 | 364 | 367 | 371 | 374 | 378 | 381 | 384 | 388 | 390 | 393 | 397 | 400 | 403 | 407 |

Zargenbreite in mm
Frame width in mm

Zargenhöhe in mm
Frame height in mm

Aluminium-Kantzarge Aluminium edge frame



ohne Flügel
without sash



| | | Breite Außenmaß External measurement width | | | |
|--|-------------|---|-----|-----|-----|
| | | 500 | 600 | 700 | 800 |
| Höhe Außenmaß External measurement height | 800 | 326 | 330 | 333 | 336 |
| | 900 | 333 | 336 | 339 | 343 |
| | 1000 | 339 | 343 | 346 | 349 |
| | 1100 | 346 | 349 | 352 | 355 |
| | 1200 | 352 | 355 | 359 | 362 |
| | 1300 | 359 | 362 | 365 | 368 |
| | 1400 | 365 | 368 | 372 | 375 |
| | 1500 | 372 | 375 | 378 | 381 |
| | 1600 | 378 | 381 | 384 | 388 |
| | 1700 | 384 | 388 | 391 | 394 |
| | 1800 | 391 | 394 | 397 | 400 |
| | 1900 | 397 | 400 | 404 | 407 |
| | 2000 | 404 | 407 | 410 | 413 |
| | 2100 | 410 | 413 | 417 | 420 |
| | 2200 | 436 | 440 | 443 | 446 |
| | 2300 | 443 | 446 | 449 | 453 |
| 2400 | 449 | 453 | 456 | 459 | |
| 2500 | 456 | 459 | 462 | 465 | |

Fensterbank Typ / Window sill type

| | 1+2 | 40 | 43 | 46 | 50 |
|-----|-----|----|----|----|----|
| 3-6 | 77 | 81 | 84 | 87 | |

Zarge 4-seitig / Frame, 4-sided

| | | | | |
|--|----|----|----|----|
| | 40 | 43 | 46 | 50 |
|--|----|----|----|----|

INFO

- Preise entsprechen Blechabwicklung bis 200mm
- Aufpreise Blechabwicklung:
>200 mm-250 mm = +7 %
>250 mm-300 mm = +14 %
>300 mm-350 mm = +21 %
>350 mm-400 mm = +28 %
- Prices are for unfolded sheet up to 200mm
- Surcharges for unfolded sheet:
>200 mm-250 mm = +7 %
>250 mm-300 mm = +14 %
>300 mm-350 mm = +21 %
>350 mm-400 mm = +28 %



| | | Breite Außenmaß External measurement width | | | | | | | | |
|--|-------------|---|-----|------|------|------|------|------|------|------|
| | | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 |
| Höhe Außenmaß External measurement height | 800 | 400 | 403 | 406 | 409 | 412 | 416 | 419 | 422 | 425 |
| | 900 | 406 | 409 | 412 | 416 | 419 | 422 | 425 | 429 | 432 |
| | 1000 | 412 | 416 | 419 | 422 | 425 | 429 | 432 | 435 | 438 |
| | 1100 | 419 | 422 | 425 | 429 | 432 | 435 | 438 | 441 | 445 |
| | 1200 | 425 | 429 | 432 | 435 | 438 | 441 | 445 | 448 | 451 |
| | 1300 | 432 | 435 | 438 | 441 | 445 | 448 | 451 | 454 | 458 |
| | 1400 | 438 | 441 | 445 | 448 | 451 | 454 | 458 | 461 | 464 |
| | 1500 | 445 | 448 | 451 | 454 | 458 | 461 | 464 | 467 | 470 |
| | 1600 | 451 | 454 | 458 | 461 | 464 | 467 | 470 | 474 | 477 |
| | 1700 | 458 | 461 | 464 | 467 | 470 | 474 | 477 | 480 | 483 |
| | 1800 | 464 | 467 | 470 | 474 | 477 | 480 | 483 | 486 | 490 |
| | 1900 | 470 | 474 | 477 | 480 | 483 | 486 | 490 | 493 | 496 |
| | 2000 | 477 | 480 | 483 | 486 | 490 | 493 | 496 | 499 | 503 |
| | 2100 | 483 | 486 | 490 | 493 | 496 | 499 | 503 | 506 | 509 |
| | 2200 | 525 | 528 | 531 | 535 | 538 | 541 | 544 | 548 | 551 |
| | 2300 | 531 | 535 | 538 | 541 | 544 | 548 | 551 | 554 | 557 |
| 2400 | 538 | 541 | 544 | 548 | 551 | 554 | 557 | 560 | 564 | |
| 2500 | 544 | 548 | 551 | 554 | 557 | 560 | 564 | 567 | 570 | |

Fensterbank Typ / Window sill type

| | 1+2 | 50 | 53 | 56 | 59 | 62 | 65 | 68 | 71 | 74 |
|-----|-----|----|----|----|----|-----|-----|-----|-----|----|
| 3-6 | 87 | 90 | 93 | 96 | 99 | 102 | 105 | 108 | 111 | |

Zarge 4-seitig / Frame, 4-sided

| | | | | | | | | | |
|--|----|----|----|----|----|----|----|----|----|
| | 50 | 53 | 56 | 59 | 62 | 65 | 68 | 71 | 74 |
|--|----|----|----|----|----|----|----|----|----|

Aluminium-Kantzarge mit
Montage, ohne Flügel
Aluminium edge frame with
installation, without sash

| |
|-------------|
| 3000 |
|-------------|

Beschlagspaketpreise siehe S. 15
Siehe Spalte „Bestehende Kloben, LH Neu“

Hardware package prices, see p. 15
See column „Existing brackets, new shutter holders“

Aluminium-Kantzarge

Aluminium edge frame

Breite Außenmaß
External measurement width



| | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 800 | 473 | 476 | 479 | 482 | 486 | 489 | 492 | 495 | 499 | 502 | 505 | 508 | 511 |
| 900 | 479 | 482 | 486 | 489 | 492 | 495 | 499 | 502 | 505 | 508 | 511 | 515 | 518 |
| 1000 | 486 | 489 | 492 | 495 | 499 | 502 | 505 | 508 | 511 | 515 | 518 | 521 | 524 |
| 1100 | 492 | 495 | 499 | 502 | 505 | 508 | 511 | 515 | 518 | 521 | 524 | 527 | 531 |
| 1200 | 499 | 502 | 505 | 508 | 511 | 515 | 518 | 521 | 524 | 527 | 531 | 534 | 537 |
| 1300 | 505 | 508 | 511 | 515 | 518 | 521 | 524 | 527 | 531 | 534 | 537 | 540 | 544 |
| 1400 | 511 | 515 | 518 | 521 | 524 | 527 | 531 | 534 | 537 | 540 | 544 | 547 | 550 |
| 1500 | 518 | 521 | 524 | 527 | 531 | 534 | 537 | 540 | 544 | 547 | 550 | 553 | 556 |
| 1600 | 524 | 527 | 531 | 534 | 537 | 540 | 544 | 547 | 550 | 553 | 556 | 560 | 563 |
| 1700 | 531 | 534 | 537 | 540 | 544 | 547 | 550 | 553 | 556 | 560 | 563 | 566 | 569 |
| 1800 | 537 | 540 | 544 | 547 | 550 | 553 | 556 | 560 | 563 | 566 | 569 | 572 | 576 |
| 1900 | 544 | 547 | 550 | 553 | 556 | 560 | 563 | 566 | 569 | 572 | 576 | 579 | 582 |
| 2000 | 550 | 553 | 556 | 560 | 563 | 566 | 569 | 572 | 576 | 579 | 582 | 585 | 589 |
| 2100 | 556 | 560 | 563 | 566 | 569 | 572 | 576 | 579 | 582 | 585 | 589 | 592 | 595 |
| 2200 | 615 | 619 | 622 | 625 | 628 | 632 | 635 | 638 | 641 | 644 | 648 | 651 | 654 |
| 2300 | 622 | 625 | 628 | 632 | 635 | 638 | 641 | 644 | 648 | 651 | 654 | 657 | 660 |
| 2400 | 628 | 632 | 635 | 638 | 641 | 644 | 648 | 651 | 654 | 657 | 660 | 664 | 667 |
| 2500 | 635 | 638 | 641 | 644 | 648 | 651 | 654 | 657 | 660 | 664 | 667 | 670 | 673 |

Höhe Außenmaß
External measurement height

Fensterbank Typ / Window sill type

| | | | | | | | | | | | | | |
|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1+2 | 62 | 65 | 68 | 71 | 74 | 77 | 80 | 83 | 87 | 90 | 93 | 96 | 99 |
| 3-6 | 99 | 102 | 105 | 108 | 111 | 115 | 118 | 121 | 124 | 127 | 130 | 133 | 136 |

Zarge 4-seitig / Frame, 4-sided

| | | | | | | | | | | | | | |
|--|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 62 | 65 | 68 | 71 | 74 | 77 | 80 | 83 | 87 | 90 | 93 | 96 | 99 |
|--|----|----|----|----|----|----|----|----|----|----|----|----|----|

Breite Außenmaß
External measurement width



| | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 800 | 546 | 549 | 552 | 556 | 559 | 562 | 565 | 569 | 572 | 575 | 578 | 581 | 585 |
| 900 | 552 | 556 | 559 | 562 | 565 | 569 | 572 | 575 | 578 | 581 | 585 | 588 | 591 |
| 1000 | 559 | 562 | 565 | 569 | 572 | 575 | 578 | 581 | 585 | 588 | 591 | 594 | 597 |
| 1100 | 565 | 569 | 572 | 575 | 578 | 581 | 585 | 588 | 591 | 594 | 597 | 601 | 604 |
| 1200 | 572 | 575 | 578 | 581 | 585 | 588 | 591 | 594 | 597 | 601 | 604 | 607 | 610 |
| 1300 | 578 | 581 | 585 | 588 | 591 | 594 | 597 | 601 | 604 | 607 | 610 | 614 | 617 |
| 1400 | 585 | 588 | 591 | 594 | 597 | 601 | 604 | 607 | 610 | 614 | 617 | 620 | 623 |
| 1500 | 591 | 594 | 597 | 601 | 604 | 607 | 610 | 614 | 617 | 620 | 623 | 626 | 630 |
| 1600 | 597 | 601 | 604 | 607 | 610 | 614 | 617 | 620 | 623 | 626 | 630 | 633 | 636 |
| 1700 | 604 | 607 | 610 | 614 | 617 | 620 | 623 | 626 | 630 | 633 | 636 | 639 | 642 |
| 1800 | 610 | 614 | 617 | 620 | 623 | 626 | 630 | 633 | 636 | 639 | 642 | 646 | 649 |
| 1900 | 617 | 620 | 623 | 626 | 630 | 633 | 636 | 639 | 642 | 646 | 649 | 652 | 655 |
| 2000 | 623 | 626 | 630 | 633 | 636 | 639 | 642 | 646 | 649 | 652 | 655 | 659 | 662 |
| 2100 | 630 | 633 | 636 | 639 | 642 | 646 | 649 | 652 | 655 | 659 | 662 | 665 | 668 |
| 2200 | 706 | 709 | 712 | 716 | 719 | 722 | 725 | 728 | 732 | 735 | 738 | 741 | 744 |
| 2300 | 712 | 716 | 719 | 722 | 725 | 728 | 732 | 735 | 738 | 741 | 744 | 748 | 751 |
| 2400 | 719 | 722 | 725 | 728 | 732 | 735 | 738 | 741 | 744 | 748 | 751 | 754 | 757 |
| 2500 | 725 | 728 | 732 | 735 | 738 | 741 | 744 | 748 | 751 | 754 | 757 | 761 | 764 |

Höhe Außenmaß
External measurement height

Fensterbank Typ / Window sill type

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1+2 | 74 | 77 | 80 | 83 | 87 | 90 | 93 | 96 | 99 | 102 | 105 | 108 | 111 |
| 3-6 | 111 | 115 | 118 | 121 | 124 | 127 | 130 | 133 | 136 | 139 | 142 | 145 | 148 |

Zarge 4-seitig / Frame, 4-sided

| | | | | | | | | | | | | | |
|--|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|
| | 74 | 77 | 80 | 83 | 87 | 90 | 93 | 96 | 99 | 102 | 105 | 108 | 111 |
|--|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|

Aluminium-Kantzarge ohne Montage der Läden und ohne Beschläge, ohne Flügel
Aluminium edge frame without installation of shutters and without fittings, no sash

| | | 3001 | | | | | | | | | | | |
|--|------|---|-----|-----|-----|-----|------|------|------|------|------|------|------|
| | | Breite Außenmaß External measurement width | | | | | | | | | | | |
| | | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 |
| Höhe Außenmaß External measurement height | 800 | 270 | 273 | 277 | 280 | 283 | 286 | 289 | 293 | 296 | 299 | 302 | 305 |
| | 900 | 277 | 280 | 283 | 286 | 289 | 293 | 296 | 299 | 302 | 305 | 309 | 312 |
| | 1000 | 283 | 286 | 289 | 293 | 296 | 299 | 302 | 305 | 309 | 312 | 315 | 318 |
| | 1100 | 289 | 293 | 296 | 299 | 302 | 305 | 309 | 312 | 315 | 318 | 322 | 325 |
| | 1200 | 296 | 299 | 302 | 305 | 309 | 312 | 315 | 318 | 322 | 325 | 328 | 331 |
| | 1300 | 302 | 305 | 309 | 312 | 315 | 318 | 322 | 325 | 328 | 331 | 334 | 338 |
| | 1400 | 309 | 312 | 315 | 318 | 322 | 325 | 328 | 331 | 334 | 338 | 341 | 344 |
| | 1500 | 315 | 318 | 322 | 325 | 328 | 331 | 334 | 338 | 341 | 344 | 347 | 350 |
| | 1600 | 322 | 325 | 328 | 331 | 334 | 338 | 341 | 344 | 347 | 350 | 354 | 357 |
| | 1700 | 328 | 331 | 334 | 338 | 341 | 344 | 347 | 350 | 354 | 357 | 360 | 363 |
| | 1800 | 334 | 338 | 341 | 344 | 347 | 350 | 354 | 357 | 360 | 363 | 367 | 370 |
| | 1900 | 341 | 344 | 347 | 350 | 354 | 357 | 360 | 363 | 367 | 370 | 373 | 376 |
| | 2000 | 347 | 350 | 354 | 357 | 360 | 363 | 367 | 370 | 373 | 376 | 379 | 383 |
| | 2100 | 354 | 357 | 360 | 363 | 367 | 370 | 373 | 376 | 379 | 383 | 386 | 389 |
| | 2200 | 360 | 363 | 367 | 370 | 373 | 376 | 379 | 383 | 386 | 389 | 392 | 396 |
| 2300 | 367 | 370 | 373 | 376 | 379 | 383 | 386 | 389 | 392 | 396 | 399 | 402 | |
| 2400 | 373 | 376 | 379 | 383 | 386 | 389 | 392 | 396 | 399 | 402 | 405 | 408 | |
| 2500 | 379 | 383 | 386 | 389 | 392 | 396 | 399 | 402 | 405 | 408 | 412 | 415 | |
| Fensterbank Typ / Window sill type | | | | | | | | | | | | | |
| 1+2 | | 40 | 43 | 46 | 50 | 53 | 56 | 59 | 62 | 65 | 68 | 71 | 74 |
| 3-6 | | 77 | 81 | 84 | 87 | 90 | 93 | 96 | 99 | 102 | 105 | 108 | 111 |
| Zarge 4-seitig Typ / Frame, 4-sided type | | | | | | | | | | | | | |
| | | 40 | 43 | 46 | 50 | 53 | 56 | 59 | 62 | 65 | 68 | 71 | 74 |

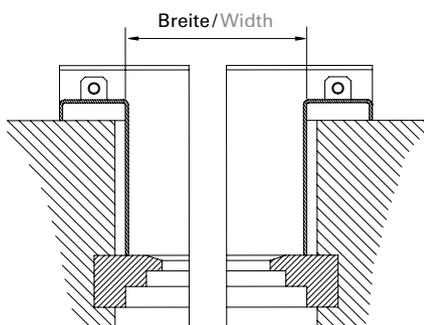
| | | Breite Außenmaß External measurement width | | | | | | | | | | | |
|--|------|---|------|------|------|------|------|------|------|------|------|------|------|
| | | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 |
| Höhe Außenmaß External measurement height | 800 | 309 | 312 | 315 | 318 | 322 | 325 | 328 | 331 | 334 | 338 | 341 | 344 |
| | 900 | 315 | 318 | 322 | 325 | 328 | 331 | 334 | 338 | 341 | 344 | 347 | 350 |
| | 1000 | 322 | 325 | 328 | 331 | 334 | 338 | 341 | 344 | 347 | 350 | 354 | 357 |
| | 1100 | 328 | 331 | 334 | 338 | 341 | 344 | 347 | 350 | 354 | 357 | 360 | 363 |
| | 1200 | 334 | 338 | 341 | 344 | 347 | 350 | 354 | 357 | 360 | 363 | 367 | 370 |
| | 1300 | 341 | 344 | 347 | 350 | 354 | 357 | 360 | 363 | 367 | 370 | 373 | 376 |
| | 1400 | 347 | 350 | 354 | 357 | 360 | 363 | 367 | 370 | 373 | 376 | 379 | 383 |
| | 1500 | 354 | 357 | 360 | 363 | 367 | 370 | 373 | 376 | 379 | 383 | 386 | 389 |
| | 1600 | 360 | 363 | 367 | 370 | 373 | 376 | 379 | 383 | 386 | 389 | 392 | 396 |
| | 1700 | 367 | 370 | 373 | 376 | 379 | 383 | 386 | 389 | 392 | 396 | 399 | 402 |
| | 1800 | 373 | 376 | 379 | 383 | 386 | 389 | 392 | 396 | 399 | 402 | 405 | 408 |
| | 1900 | 379 | 383 | 386 | 389 | 392 | 396 | 399 | 402 | 405 | 408 | 412 | 415 |
| | 2000 | 386 | 389 | 392 | 396 | 399 | 402 | 405 | 408 | 412 | 415 | 418 | 421 |
| | 2100 | 392 | 396 | 399 | 402 | 405 | 408 | 412 | 415 | 418 | 421 | 424 | 428 |
| | 2200 | 399 | 402 | 405 | 408 | 412 | 415 | 418 | 421 | 424 | 428 | 431 | 434 |
| 2300 | 405 | 408 | 412 | 415 | 418 | 421 | 424 | 428 | 431 | 434 | 437 | 441 | |
| 2400 | 412 | 415 | 418 | 421 | 424 | 428 | 431 | 434 | 437 | 441 | 444 | 447 | |
| 2500 | 418 | 421 | 424 | 428 | 431 | 434 | 437 | 441 | 444 | 447 | 450 | 453 | |
| Fensterbank Typ / Window sill type | | | | | | | | | | | | | |
| 1+2 | | 80 | 83 | 87 | 90 | 93 | 96 | 99 | 99 | 102 | 105 | 108 | 111 |
| 3-6 | | 118 | 121 | 124 | 127 | 130 | 133 | 136 | 136 | 139 | 142 | 145 | 148 |
| Zarge 4-seitig / Frame, 4-sided | | | | | | | | | | | | | |
| | | 80 | 83 | 87 | 90 | 93 | 96 | 99 | 99 | 102 | 105 | 108 | 111 |

Beschlagspaketpreise siehe S. 15
Siehe Spalte „Bestehende Kloben, LH Neu“

Hardware package prices, see p. 15
See column „Existing brackets, new shutter holders“

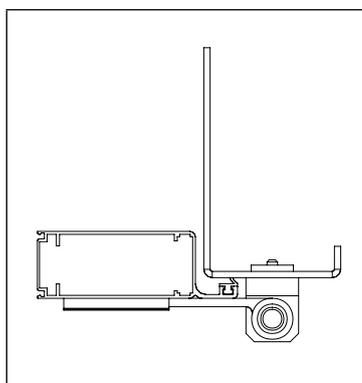
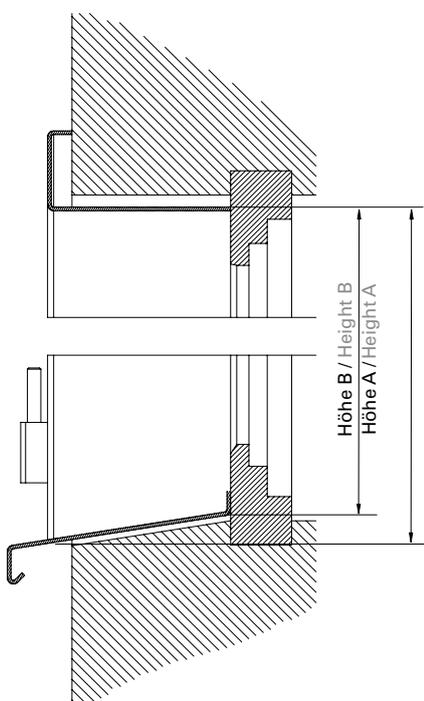
Aus Aluminium-Blech (2,0–3,0 mm) gekantet. Die Zarge wird fertig verschweißt und pulverbeschichtet geliefert, in Standard- oder RAL-Farben. Inkl. Montage der Läden mit: Expressband, Ladenverschluss und Ladenriegel, Ladenhalter lose beigefügt.

Made of edge sheet aluminium (2.0–3.0 mm). The frame is supplied completely welded and powder-coated, in standard or RAL colours. Incl. installation of the shutters with: express hinge, shutter closure and shutter lock, shutter holder loose included.

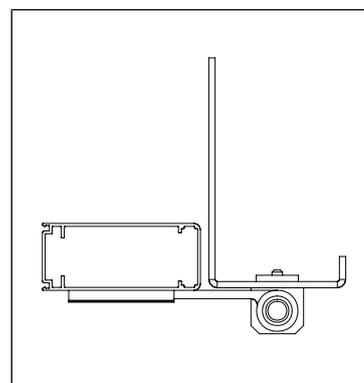


INFO

- Andere Verschlussarten wie Rechen, Sperrstange, Schlinggen sind auf Anfrage gegen Aufpreis erhältlich.
- Different locking types such as rods, lock bars and hooks are available on request and are subject to a surcharge.

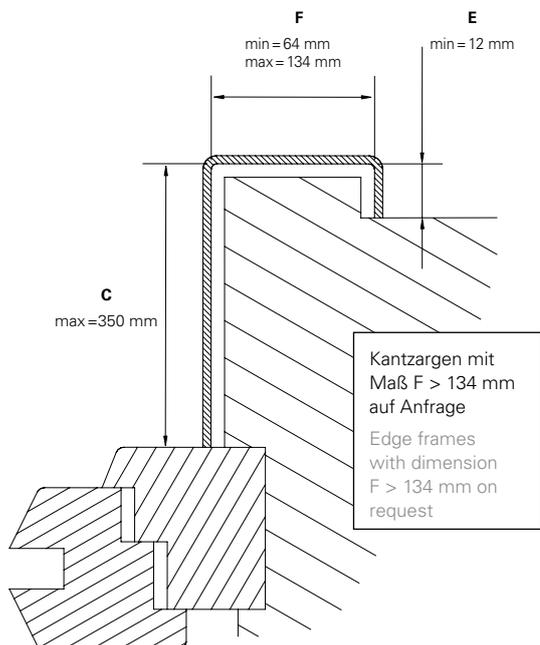


mit Falzleiste
with rabbet bead



ohne Falzleiste
without rabbet bead

Musterkalkulation für die Blechabwicklung
Sample calculation for unfolded sheet



INFO

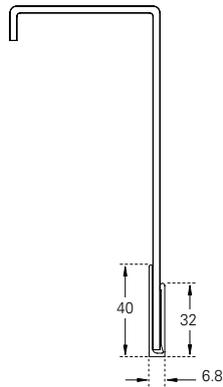
- Abwicklung = Maß C + F + E
- Bsp.: C=200 mm, F=64 mm, E=12 mm; Abwicklung = 276 mm
- Flat projection = Dimension C + F + E
- Example: C = 200 mm, F = 64 mm, E = 12 mm; flat projection = 276 mm

K

Varianten mit Zusatzprofilen / Variants with additional profiles

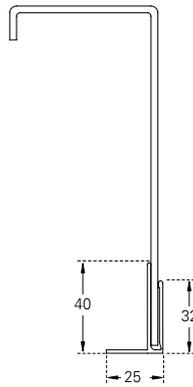


Standard
Standard



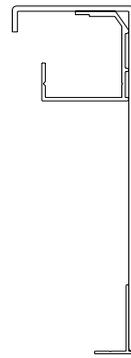
U-Ausgleichsprofil
U compensation profile

3400 11.31 €



F-Ausgleichsprofil
F compensation profile

3410 11.31 €

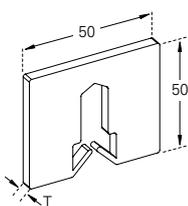
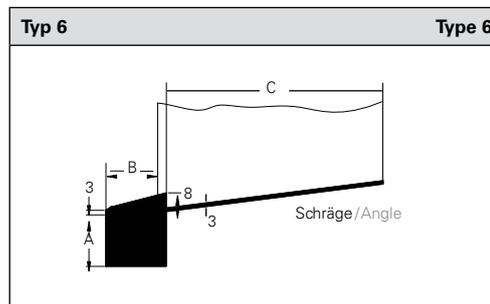
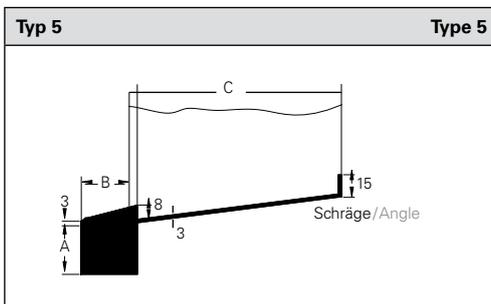
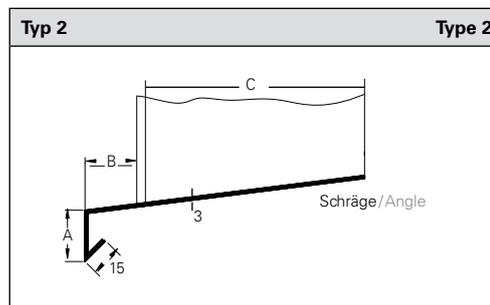
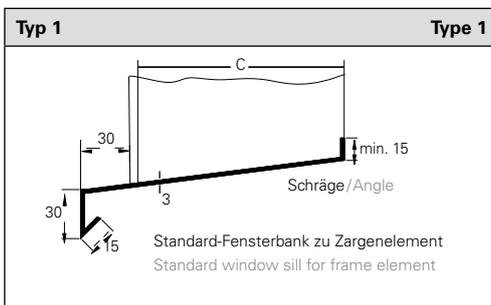


Fassadenanschluss
Facade connection profile

3300 28.15 €

Zargen-Fensterbankformen (bitte Typ angeben!)

Window sill frame shapes (please specify the type!)



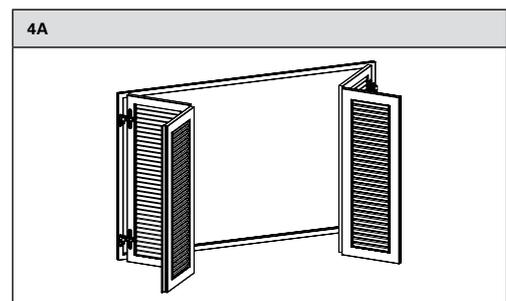
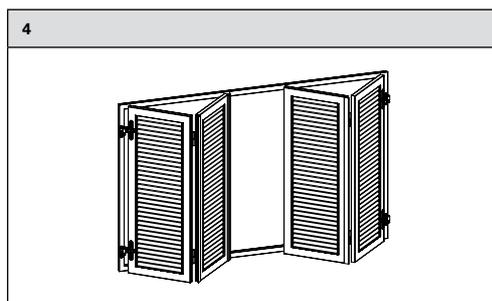
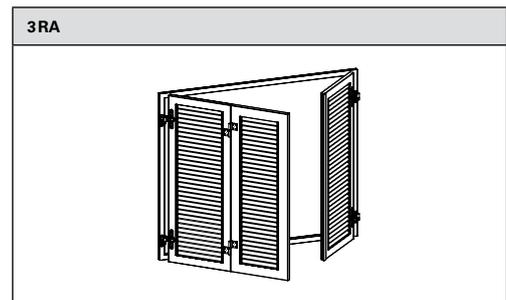
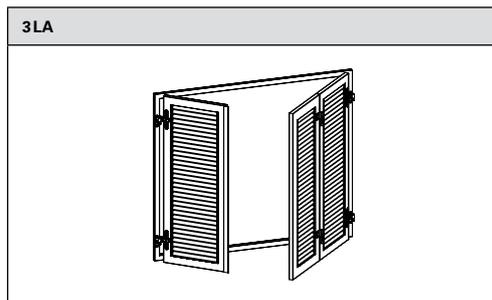
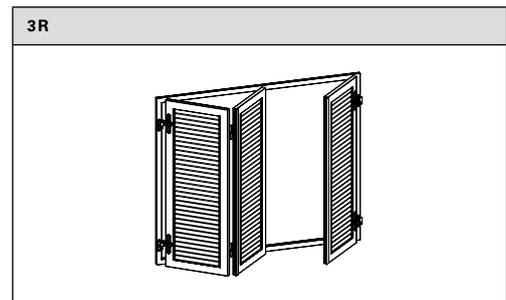
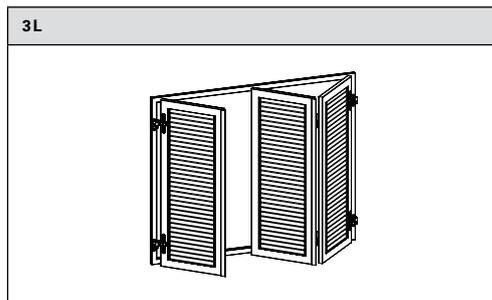
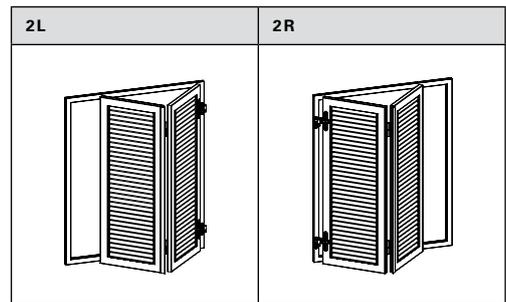
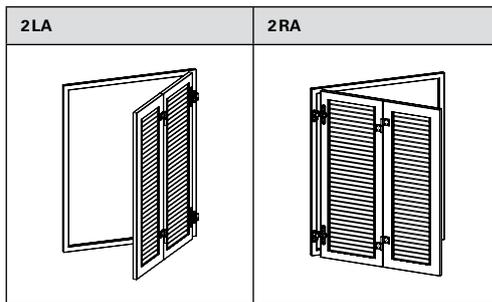
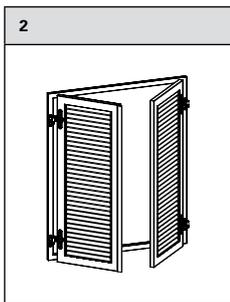
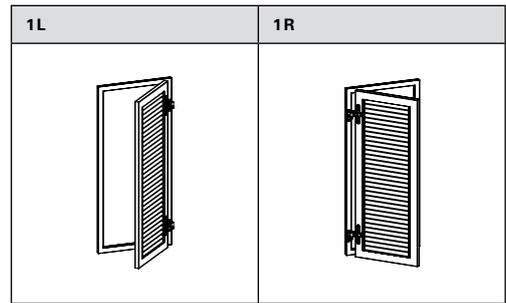
Distanzklötze, Beutel à 100 Stk.
Distance washers, bag of 100 pcs.

| | | | |
|--------|----------|-------|---------|
| T=1 mm | 50×50 mm | 30051 | 11.65 € |
| T=2 mm | 50×50 mm | 30052 | 12.28 € |
| T=3 mm | 50×50 mm | 30053 | 13.75 € |
| T=4 mm | 50×50 mm | 30054 | 20.16 € |
| T=5 mm | 50×50 mm | 30055 | 25.16 € |



Basisrahmen

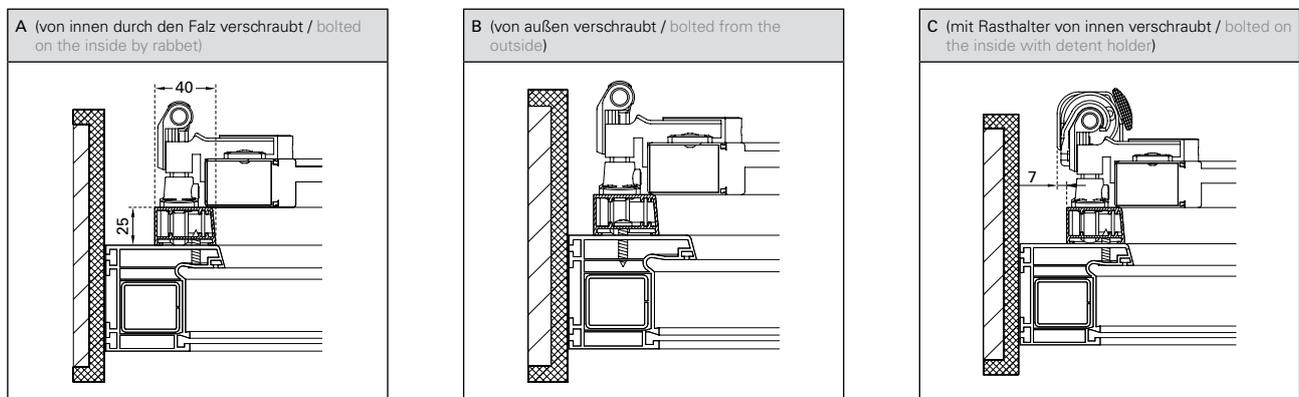
Basic frame



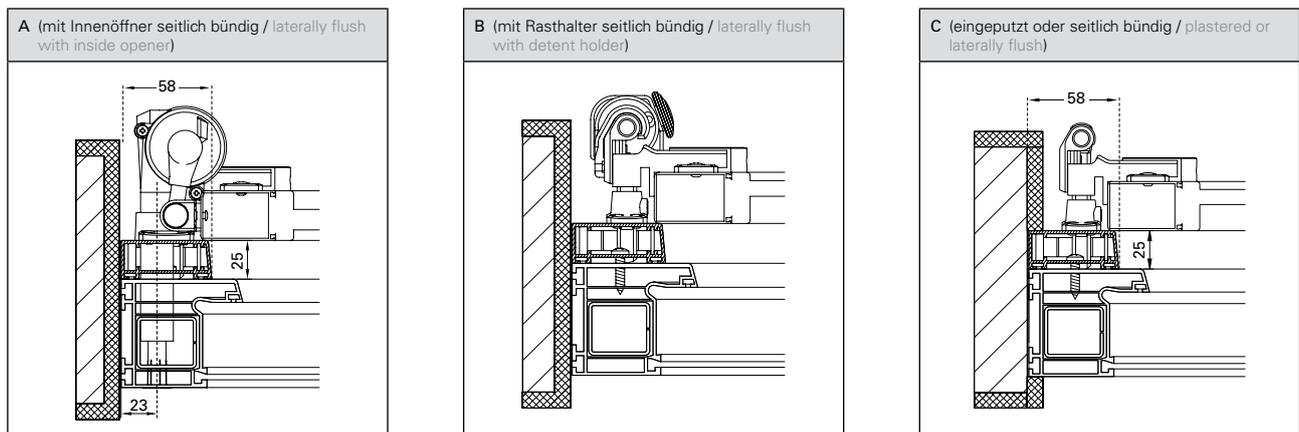
| | |
|----------------------------------|--|
| Oberfläche / Surface | Pulverbeschichtet (200 °C) vor dem Zusammenbau / Powder-coated (200 °C) before assembly |
| Basisrahmen / Basic frame | Aus stranggepresstem Aluminium-Profil / Made of extruded aluminium profile |
| Beschläge / Fittings | Inklusiv fertig montierten MACO-Kloben und Bändern, lose beigefügten Rückhaltern oder montierten Rasthaltern / Includes ready-mounted MACO brackets and straps, loose shutter catches or mounted detent holders Bei Scharnierung außen werden EHRET-Scharniere (Art.-Nr. 5151) und Verschlusshaken verwendet / With hinge mounting outside, EHRET hinges (art. no. 5151) and closure hooks are required Bei Scharnierung innen werden zusätzlich benötigte Verschlussbeschläge gegen Berechnung lose mitgeliefert. Beschläge schwarz; optional weiß / With hinge mounting inside, extra loose closure fittings are supplied against payment. Fittings black, or white. |
| Hinweise / Notes | Bei Außenscharnierung sind die Flügel asymmetrisch / With hinge mounting outside, sashes are asymmetrical Maximale Leibungstiefen siehe Bestellformular Basisrahmen / See basic frame order form for maximum depth of reveal Anwendungstabelle Kurbelinnenöffner / Klobenfeststeller / Rasthalter u. Ä. (siehe S. XOX) beachten / Note application table for inside opener cranks / pulley locks / detent holders etc. (see p. XOX) |
| Optionen / Options | Montagebohrungen von vorne als Stufenbohrung mit Abdeckkappe / Installation holes at front in the form of a stepped drilling plus cover cap |

Montagearten Installation types

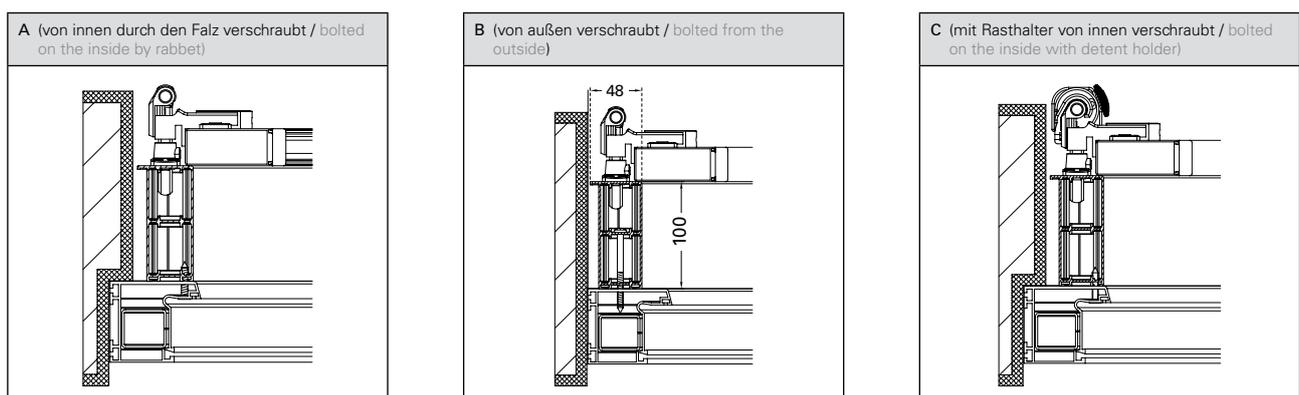
Basisrahmen 40 / Basic frame 40



Basisrahmen 58 / Basic frame 58

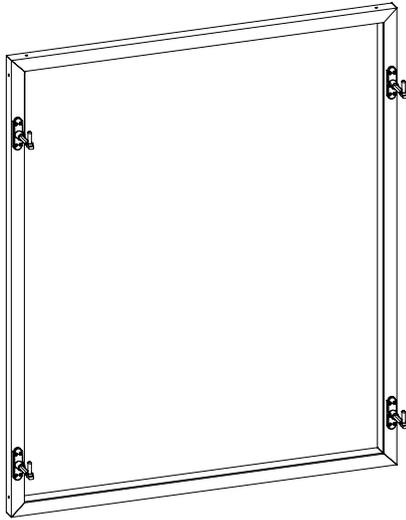


Basisrahmen 48/100 / Basic frame 48/100



Basisrahmen 40

Basic frame 40



ohne Flügel
without sash



| | 500 | 600 | 700 | 800 |
|-------------|-----|-----|-----|-----|
| 800 | 113 | 114 | 115 | 117 |
| 900 | 114 | 115 | 117 | 118 |
| 1000 | 115 | 117 | 118 | 119 |
| 1100 | 117 | 118 | 119 | 121 |
| 1200 | 118 | 119 | 121 | 122 |
| 1300 | 119 | 121 | 122 | 123 |
| 1400 | 121 | 122 | 123 | 125 |
| 1500 | 122 | 123 | 125 | 126 |
| 1600 | 123 | 125 | 126 | 128 |
| 1700 | 125 | 126 | 128 | 129 |
| 1800 | 126 | 128 | 129 | 131 |
| 1900 | 128 | 129 | 131 | 132 |
| 2000 | 129 | 131 | 132 | 133 |
| 2100 | 131 | 132 | 133 | 135 |
| 2200 | 156 | 157 | 158 | 159 |
| 2300 | 157 | 158 | 159 | 161 |
| 2400 | 158 | 159 | 161 | 162 |
| 2500 | 159 | 161 | 162 | 163 |

Rahmenbreite in mm
Frame width in mm

L Rahmenhöhe in mm
Frame height in mm



| | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 |
|-------------|-----|-----|------|------|------|------|------|------|------|
| 800 | 167 | 168 | 171 | 172 | 173 | 175 | 176 | 177 | 178 |
| 900 | 168 | 171 | 172 | 173 | 175 | 176 | 177 | 178 | 180 |
| 1000 | 171 | 172 | 173 | 175 | 176 | 177 | 178 | 180 | 181 |
| 1100 | 172 | 173 | 175 | 176 | 177 | 178 | 180 | 181 | 182 |
| 1200 | 173 | 175 | 176 | 177 | 178 | 180 | 181 | 182 | 184 |
| 1300 | 175 | 176 | 177 | 178 | 180 | 181 | 182 | 184 | 185 |
| 1400 | 176 | 177 | 178 | 180 | 181 | 182 | 184 | 185 | 186 |
| 1500 | 177 | 178 | 180 | 181 | 182 | 184 | 185 | 186 | 188 |
| 1600 | 178 | 180 | 181 | 182 | 184 | 185 | 186 | 188 | 189 |
| 1700 | 180 | 181 | 182 | 184 | 185 | 186 | 188 | 189 | 191 |
| 1800 | 181 | 182 | 184 | 185 | 186 | 188 | 189 | 191 | 193 |
| 1900 | 182 | 184 | 185 | 186 | 188 | 189 | 191 | 193 | 194 |
| 2000 | 184 | 185 | 186 | 188 | 189 | 191 | 193 | 194 | 195 |
| 2100 | 185 | 186 | 188 | 189 | 191 | 193 | 194 | 195 | 197 |
| 2200 | 234 | 236 | 237 | 238 | 239 | 241 | 242 | 243 | 245 |
| 2300 | 236 | 237 | 238 | 239 | 241 | 242 | 243 | 245 | 246 |
| 2400 | 237 | 238 | 239 | 241 | 242 | 243 | 245 | 246 | 247 |
| 2500 | 238 | 239 | 241 | 242 | 243 | 245 | 246 | 247 | 249 |

Rahmenbreite in mm
Frame width in mm

L Rahmenhöhe in mm
Frame height in mm

Inklusive vormontierter Läden
Including preinstalled shutters

4400

Aufpreis Montagebohrung Basisrahmen
Surcharge installation holes with basic frame

9,8 × 5,5 mm 4404 2.35 €

Basisrahmen 40

Basic frame 40



| | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 800 | 212 | 213 | 215 | 216 | 217 | 219 | 220 | 221 | 223 | 224 | 225 | 226 | 228 |
| 900 | 213 | 215 | 216 | 217 | 219 | 220 | 221 | 223 | 224 | 225 | 226 | 228 | 229 |
| 1000 | 215 | 216 | 217 | 219 | 220 | 221 | 223 | 224 | 225 | 226 | 228 | 229 | 230 |
| 1100 | 216 | 217 | 219 | 220 | 221 | 223 | 224 | 225 | 226 | 228 | 229 | 230 | 233 |
| 1200 | 217 | 219 | 220 | 221 | 223 | 224 | 225 | 226 | 228 | 229 | 230 | 233 | 234 |
| 1300 | 219 | 220 | 221 | 223 | 224 | 225 | 226 | 228 | 229 | 230 | 233 | 234 | 235 |
| 1400 | 220 | 221 | 223 | 224 | 225 | 226 | 228 | 229 | 230 | 233 | 234 | 235 | 237 |
| 1500 | 221 | 223 | 224 | 225 | 226 | 228 | 229 | 230 | 233 | 234 | 235 | 237 | 238 |
| 1600 | 223 | 224 | 225 | 226 | 228 | 229 | 230 | 233 | 234 | 235 | 237 | 238 | 239 |
| 1700 | 224 | 225 | 226 | 228 | 229 | 230 | 233 | 234 | 235 | 237 | 238 | 239 | 241 |
| 1800 | 225 | 226 | 228 | 229 | 230 | 233 | 234 | 235 | 237 | 238 | 239 | 241 | 242 |
| 1900 | 226 | 228 | 229 | 230 | 233 | 234 | 235 | 237 | 238 | 239 | 241 | 242 | 243 |
| 2000 | 228 | 229 | 230 | 233 | 234 | 235 | 237 | 238 | 239 | 241 | 242 | 243 | 245 |
| 2100 | 229 | 230 | 233 | 234 | 235 | 237 | 238 | 239 | 241 | 242 | 243 | 245 | 246 |
| 2200 | 281 | 283 | 284 | 285 | 287 | 288 | 289 | 291 | 292 | 293 | 296 | 297 | 298 |
| 2300 | 283 | 284 | 285 | 287 | 288 | 289 | 291 | 292 | 293 | 296 | 297 | 298 | 299 |
| 2400 | 284 | 285 | 287 | 288 | 289 | 291 | 292 | 293 | 296 | 297 | 298 | 299 | 301 |
| 2500 | 285 | 287 | 288 | 289 | 291 | 292 | 293 | 296 | 297 | 298 | 299 | 301 | 302 |

└─ Rahmenhöhe in mm
Frame height in mm

└─ Rahmenbreite in mm
Frame width in mm

K



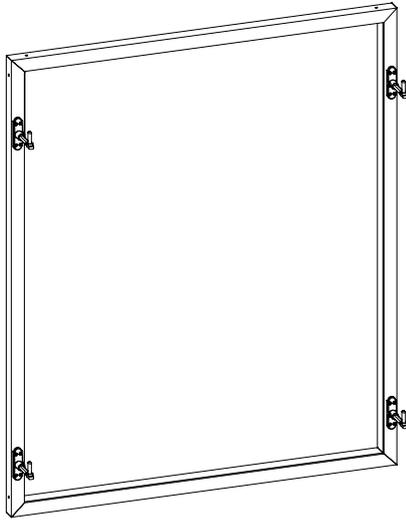
| | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 800 | 256 | 257 | 259 | 260 | 261 | 263 | 264 | 265 | 267 | 268 | 269 | 271 | 272 |
| 900 | 257 | 259 | 260 | 261 | 263 | 264 | 265 | 267 | 268 | 269 | 271 | 272 | 273 |
| 1000 | 259 | 260 | 261 | 263 | 264 | 265 | 267 | 268 | 269 | 271 | 272 | 273 | 276 |
| 1100 | 260 | 261 | 263 | 264 | 265 | 267 | 268 | 269 | 271 | 272 | 273 | 276 | 277 |
| 1200 | 261 | 263 | 264 | 265 | 267 | 268 | 269 | 271 | 272 | 273 | 276 | 277 | 278 |
| 1300 | 263 | 264 | 265 | 267 | 268 | 269 | 271 | 272 | 273 | 276 | 277 | 278 | 279 |
| 1400 | 264 | 265 | 267 | 268 | 269 | 271 | 272 | 273 | 276 | 277 | 278 | 279 | 281 |
| 1500 | 265 | 267 | 268 | 269 | 271 | 272 | 273 | 276 | 277 | 278 | 279 | 281 | 282 |
| 1600 | 267 | 268 | 269 | 271 | 272 | 273 | 276 | 277 | 278 | 279 | 281 | 282 | 283 |
| 1700 | 268 | 269 | 271 | 272 | 273 | 276 | 277 | 278 | 279 | 281 | 282 | 283 | 285 |
| 1800 | 269 | 271 | 272 | 273 | 276 | 277 | 278 | 279 | 281 | 282 | 283 | 285 | 286 |
| 1900 | 271 | 272 | 273 | 276 | 277 | 278 | 279 | 281 | 282 | 283 | 285 | 286 | 287 |
| 2000 | 272 | 273 | 276 | 277 | 278 | 279 | 281 | 282 | 283 | 285 | 286 | 287 | 289 |
| 2100 | 273 | 276 | 277 | 278 | 279 | 281 | 282 | 283 | 285 | 286 | 287 | 289 | 290 |
| 2200 | 329 | 330 | 331 | 332 | 334 | 335 | 336 | 339 | 340 | 341 | 343 | 344 | 345 |
| 2300 | 330 | 331 | 332 | 334 | 335 | 336 | 339 | 340 | 341 | 343 | 344 | 345 | 347 |
| 2400 | 331 | 332 | 334 | 335 | 336 | 339 | 340 | 341 | 343 | 344 | 345 | 347 | 348 |
| 2500 | 332 | 334 | 335 | 336 | 339 | 340 | 341 | 343 | 344 | 345 | 347 | 348 | 349 |

└─ Rahmenhöhe in mm
Frame height in mm

└─ Rahmenbreite in mm
Frame width in mm

Basisrahmen 40

Basic frame 40



ohne Flügel
without sash



| | 500 | 600 | 700 | 800 |
|-------------|-----|-----|-----|-----|
| 800 | 117 | 119 | 120 | 122 |
| 900 | 119 | 120 | 122 | 124 |
| 1000 | 120 | 122 | 124 | 125 |
| 1100 | 122 | 124 | 125 | 128 |
| 1200 | 124 | 125 | 128 | 130 |
| 1300 | 125 | 128 | 130 | 131 |
| 1400 | 128 | 130 | 131 | 133 |
| 1500 | 130 | 131 | 133 | 134 |
| 1600 | 131 | 133 | 134 | 136 |
| 1700 | 133 | 134 | 136 | 138 |
| 1800 | 134 | 136 | 138 | 139 |
| 1900 | 136 | 138 | 139 | 141 |
| 2000 | 138 | 139 | 141 | 143 |
| 2100 | 139 | 141 | 143 | 144 |
| 2200 | 165 | 166 | 168 | 170 |
| 2300 | 166 | 168 | 170 | 172 |
| 2400 | 168 | 170 | 172 | 174 |
| 2500 | 170 | 172 | 174 | 175 |

Rahmenbreite in mm
Frame width in mm

Rahmenhöhe in mm
Frame height in mm



| | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 |
|-------------|-----|-----|------|------|------|------|------|------|------|
| 800 | 173 | 175 | 177 | 178 | 180 | 181 | 183 | 185 | 186 |
| 900 | 175 | 177 | 178 | 180 | 181 | 183 | 185 | 186 | 188 |
| 1000 | 177 | 178 | 180 | 181 | 183 | 185 | 186 | 188 | 191 |
| 1100 | 178 | 180 | 181 | 183 | 185 | 186 | 188 | 191 | 192 |
| 1200 | 180 | 181 | 183 | 185 | 186 | 188 | 191 | 192 | 194 |
| 1300 | 181 | 183 | 185 | 186 | 188 | 191 | 192 | 194 | 196 |
| 1400 | 183 | 185 | 186 | 188 | 191 | 192 | 194 | 196 | 197 |
| 1500 | 185 | 186 | 188 | 191 | 192 | 194 | 196 | 197 | 199 |
| 1600 | 186 | 188 | 191 | 192 | 194 | 196 | 197 | 199 | 201 |
| 1700 | 188 | 191 | 192 | 194 | 196 | 197 | 199 | 201 | 202 |
| 1800 | 191 | 192 | 194 | 196 | 197 | 199 | 201 | 202 | 204 |
| 1900 | 192 | 194 | 196 | 197 | 199 | 201 | 202 | 204 | 206 |
| 2000 | 194 | 196 | 197 | 199 | 201 | 202 | 204 | 206 | 207 |
| 2100 | 196 | 197 | 199 | 201 | 202 | 204 | 206 | 207 | 209 |
| 2200 | 244 | 246 | 248 | 249 | 251 | 252 | 255 | 257 | 258 |
| 2300 | 246 | 248 | 249 | 251 | 252 | 255 | 257 | 258 | 260 |
| 2400 | 248 | 249 | 251 | 252 | 255 | 257 | 258 | 260 | 262 |
| 2500 | 249 | 251 | 252 | 255 | 257 | 258 | 260 | 262 | 263 |

Rahmenbreite in mm
Frame width in mm

Rahmenhöhe in mm
Frame height in mm

Inklusive vormontierter Läden
Including preinstalled shutters

4400

Aufpreis Montagebohrung Basisrahmen
Surcharge installation holes with basic frame

9,8 × 5,5 mm 4404 2.35 €

Basisrahmen 40

Basic frame 40



| | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 800 | 219 | 220 | 222 | 224 | 225 | 227 | 229 | 230 | 233 | 235 | 236 | 238 | 239 |
| 900 | 220 | 222 | 224 | 225 | 227 | 229 | 230 | 233 | 235 | 236 | 238 | 239 | 241 |
| 1000 | 222 | 224 | 225 | 227 | 229 | 230 | 233 | 235 | 236 | 238 | 239 | 241 | 243 |
| 1100 | 224 | 225 | 227 | 229 | 230 | 233 | 235 | 236 | 238 | 239 | 241 | 243 | 244 |
| 1200 | 225 | 227 | 229 | 230 | 233 | 235 | 236 | 238 | 239 | 241 | 243 | 244 | 246 |
| 1300 | 227 | 229 | 230 | 233 | 235 | 236 | 238 | 239 | 241 | 243 | 244 | 246 | 248 |
| 1400 | 229 | 230 | 233 | 235 | 236 | 238 | 239 | 241 | 243 | 244 | 246 | 248 | 249 |
| 1500 | 230 | 233 | 235 | 236 | 238 | 239 | 241 | 243 | 244 | 246 | 248 | 249 | 251 |
| 1600 | 233 | 235 | 236 | 238 | 239 | 241 | 243 | 244 | 246 | 248 | 249 | 251 | 254 |
| 1700 | 235 | 236 | 238 | 239 | 241 | 243 | 244 | 246 | 248 | 249 | 251 | 254 | 255 |
| 1800 | 236 | 238 | 239 | 241 | 243 | 244 | 246 | 248 | 249 | 251 | 254 | 255 | 257 |
| 1900 | 238 | 239 | 241 | 243 | 244 | 246 | 248 | 249 | 251 | 254 | 255 | 257 | 259 |
| 2000 | 239 | 241 | 243 | 244 | 246 | 248 | 249 | 251 | 254 | 255 | 257 | 259 | 260 |
| 2100 | 241 | 243 | 244 | 246 | 248 | 249 | 251 | 254 | 255 | 257 | 259 | 260 | 262 |
| 2200 | 293 | 294 | 297 | 299 | 300 | 302 | 304 | 305 | 307 | 308 | 310 | 312 | 313 |
| 2300 | 294 | 297 | 299 | 300 | 302 | 304 | 305 | 307 | 308 | 310 | 312 | 313 | 315 |
| 2400 | 297 | 299 | 300 | 302 | 304 | 305 | 307 | 308 | 310 | 312 | 313 | 315 | 318 |
| 2500 | 299 | 300 | 302 | 304 | 305 | 307 | 308 | 310 | 312 | 313 | 315 | 318 | 319 |

└─ Rahmenhöhe in mm
Frame height in mm

└─ Rahmenbreite in mm
Frame width in mm

K



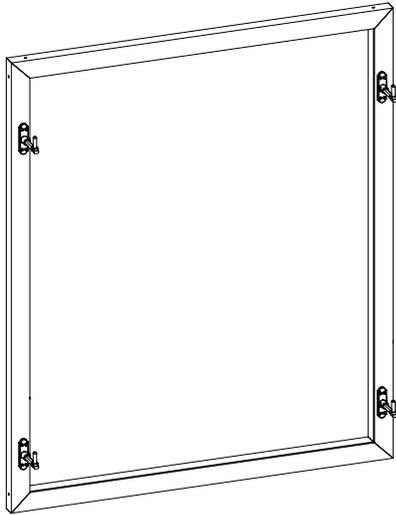
| | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 800 | 264 | 266 | 267 | 269 | 271 | 272 | 275 | 277 | 278 | 280 | 282 | 283 | 285 |
| 900 | 266 | 267 | 269 | 271 | 272 | 275 | 277 | 278 | 280 | 282 | 283 | 285 | 287 |
| 1000 | 267 | 269 | 271 | 272 | 275 | 277 | 278 | 280 | 282 | 283 | 285 | 287 | 288 |
| 1100 | 269 | 271 | 272 | 275 | 277 | 278 | 280 | 282 | 283 | 285 | 287 | 288 | 290 |
| 1200 | 271 | 272 | 275 | 277 | 278 | 280 | 282 | 283 | 285 | 287 | 288 | 290 | 291 |
| 1300 | 272 | 275 | 277 | 278 | 280 | 282 | 283 | 285 | 287 | 288 | 290 | 291 | 293 |
| 1400 | 275 | 277 | 278 | 280 | 282 | 283 | 285 | 287 | 288 | 290 | 291 | 293 | 296 |
| 1500 | 277 | 278 | 280 | 282 | 283 | 285 | 287 | 288 | 290 | 291 | 293 | 296 | 297 |
| 1600 | 278 | 280 | 282 | 283 | 285 | 287 | 288 | 290 | 291 | 293 | 296 | 297 | 299 |
| 1700 | 280 | 282 | 283 | 285 | 287 | 288 | 290 | 291 | 293 | 296 | 297 | 299 | 301 |
| 1800 | 282 | 283 | 285 | 287 | 288 | 290 | 291 | 293 | 296 | 297 | 299 | 301 | 302 |
| 1900 | 283 | 285 | 287 | 288 | 290 | 291 | 293 | 296 | 297 | 299 | 301 | 302 | 304 |
| 2000 | 285 | 287 | 288 | 290 | 291 | 293 | 296 | 297 | 299 | 301 | 302 | 304 | 306 |
| 2100 | 287 | 288 | 290 | 291 | 293 | 296 | 297 | 299 | 301 | 302 | 304 | 306 | 307 |
| 2200 | 342 | 344 | 345 | 347 | 349 | 350 | 352 | 354 | 355 | 357 | 360 | 361 | 363 |
| 2300 | 344 | 345 | 347 | 349 | 350 | 352 | 354 | 355 | 357 | 360 | 361 | 363 | 364 |
| 2400 | 345 | 347 | 349 | 350 | 352 | 354 | 355 | 357 | 360 | 361 | 363 | 364 | 366 |
| 2500 | 347 | 349 | 350 | 352 | 354 | 355 | 357 | 360 | 361 | 363 | 364 | 366 | 368 |

└─ Rahmenhöhe in mm
Frame height in mm

└─ Rahmenbreite in mm
Frame width in mm

Basisrahmen 58

Basic frame 58



ohne Flügel
without sash



| | 500 | 600 | 700 | 800 |
|-------------|-----|-----|-----|-----|
| 800 | 120 | 121 | 123 | 125 |
| 900 | 121 | 123 | 125 | 128 |
| 1000 | 123 | 125 | 128 | 130 |
| 1100 | 125 | 128 | 130 | 132 |
| 1200 | 128 | 130 | 132 | 133 |
| 1300 | 130 | 132 | 133 | 135 |
| 1400 | 132 | 133 | 135 | 137 |
| 1500 | 133 | 135 | 137 | 139 |
| 1600 | 135 | 137 | 139 | 141 |
| 1700 | 137 | 139 | 141 | 143 |
| 1800 | 139 | 141 | 143 | 144 |
| 1900 | 141 | 143 | 144 | 146 |
| 2000 | 143 | 144 | 146 | 149 |
| 2100 | 144 | 146 | 149 | 151 |
| 2200 | 171 | 172 | 174 | 176 |
| 2300 | 172 | 174 | 176 | 178 |
| 2400 | 174 | 176 | 178 | 180 |
| 2500 | 176 | 178 | 180 | 182 |

Rahmenbreite in mm
Frame width in mm

Rahmenhöhe in mm
Frame height in mm



| | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 |
|-------------|-----|-----|------|------|------|------|------|------|------|
| 800 | 176 | 178 | 180 | 182 | 184 | 186 | 187 | 189 | 192 |
| 900 | 178 | 180 | 182 | 184 | 186 | 187 | 189 | 192 | 194 |
| 1000 | 180 | 182 | 184 | 186 | 187 | 189 | 192 | 194 | 196 |
| 1100 | 182 | 184 | 186 | 187 | 189 | 192 | 194 | 196 | 198 |
| 1200 | 184 | 186 | 187 | 189 | 192 | 194 | 196 | 198 | 199 |
| 1300 | 186 | 187 | 189 | 192 | 194 | 196 | 198 | 199 | 201 |
| 1400 | 187 | 189 | 192 | 194 | 196 | 198 | 199 | 201 | 203 |
| 1500 | 189 | 192 | 194 | 196 | 198 | 199 | 201 | 203 | 205 |
| 1600 | 192 | 194 | 196 | 198 | 199 | 201 | 203 | 205 | 207 |
| 1700 | 194 | 196 | 198 | 199 | 201 | 203 | 205 | 207 | 209 |
| 1800 | 196 | 198 | 199 | 201 | 203 | 205 | 207 | 209 | 210 |
| 1900 | 198 | 199 | 201 | 203 | 205 | 207 | 209 | 210 | 213 |
| 2000 | 199 | 201 | 203 | 205 | 207 | 209 | 210 | 213 | 215 |
| 2100 | 201 | 203 | 205 | 207 | 209 | 210 | 213 | 215 | 217 |
| 2200 | 250 | 252 | 255 | 256 | 258 | 260 | 262 | 264 | 266 |
| 2300 | 252 | 255 | 256 | 258 | 260 | 262 | 264 | 266 | 267 |
| 2400 | 255 | 256 | 258 | 260 | 262 | 264 | 266 | 267 | 269 |
| 2500 | 256 | 258 | 260 | 262 | 264 | 266 | 267 | 269 | 271 |

Rahmenbreite in mm
Frame width in mm

Rahmenhöhe in mm
Frame height in mm

Inklusive vormontierter Läden
Including preinstalled shutters

4400

Aufpreis Montagebohrung Basisrahmen
Surcharge installation holes with basic frame

9,8 × 5,5 mm 4404 2.35 €

Basisrahmen 58

Basic frame 58



| | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 800 | 223 | 224 | 226 | 228 | 230 | 233 | 235 | 236 | 238 | 240 | 242 | 244 | 246 |
| 900 | 224 | 226 | 228 | 230 | 233 | 235 | 236 | 238 | 240 | 242 | 244 | 246 | 247 |
| 1000 | 226 | 228 | 230 | 233 | 235 | 236 | 238 | 240 | 242 | 244 | 246 | 247 | 249 |
| 1100 | 228 | 230 | 233 | 235 | 236 | 238 | 240 | 242 | 244 | 246 | 247 | 249 | 251 |
| 1200 | 230 | 233 | 235 | 236 | 238 | 240 | 242 | 244 | 246 | 247 | 249 | 251 | 254 |
| 1300 | 233 | 235 | 236 | 238 | 240 | 242 | 244 | 246 | 247 | 249 | 251 | 254 | 256 |
| 1400 | 235 | 236 | 238 | 240 | 242 | 244 | 246 | 247 | 249 | 251 | 254 | 256 | 258 |
| 1500 | 236 | 238 | 240 | 242 | 244 | 246 | 247 | 249 | 251 | 254 | 256 | 258 | 259 |
| 1600 | 238 | 240 | 242 | 244 | 246 | 247 | 249 | 251 | 254 | 256 | 258 | 259 | 261 |
| 1700 | 240 | 242 | 244 | 246 | 247 | 249 | 251 | 254 | 256 | 258 | 259 | 261 | 263 |
| 1800 | 242 | 244 | 246 | 247 | 249 | 251 | 254 | 256 | 258 | 259 | 261 | 263 | 265 |
| 1900 | 244 | 246 | 247 | 249 | 251 | 254 | 256 | 258 | 259 | 261 | 263 | 265 | 267 |
| 2000 | 246 | 247 | 249 | 251 | 254 | 256 | 258 | 259 | 261 | 263 | 265 | 267 | 269 |
| 2100 | 247 | 249 | 251 | 254 | 256 | 258 | 259 | 261 | 263 | 265 | 267 | 269 | 270 |
| 2200 | 300 | 302 | 304 | 306 | 308 | 309 | 311 | 313 | 315 | 318 | 320 | 321 | 323 |
| 2300 | 302 | 304 | 306 | 308 | 309 | 311 | 313 | 315 | 318 | 320 | 321 | 323 | 325 |
| 2400 | 304 | 306 | 308 | 309 | 311 | 313 | 315 | 318 | 320 | 321 | 323 | 325 | 327 |
| 2500 | 306 | 308 | 309 | 311 | 313 | 315 | 318 | 320 | 321 | 323 | 325 | 327 | 329 |

 Rahmenhöhe in mm
Frame height in mm

 Rahmenbreite in mm
Frame width in mm

K



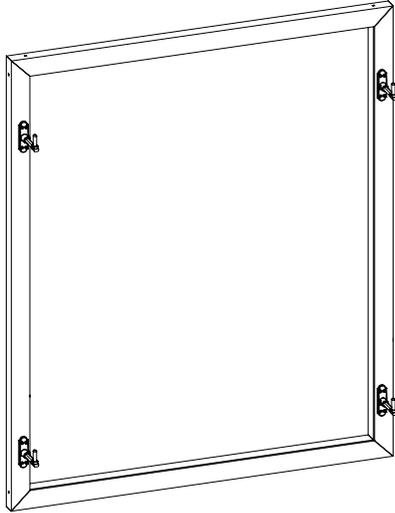
| | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 800 | 269 | 271 | 272 | 275 | 277 | 279 | 281 | 283 | 284 | 286 | 288 | 290 | 292 |
| 900 | 271 | 272 | 275 | 277 | 279 | 281 | 283 | 284 | 286 | 288 | 290 | 292 | 294 |
| 1000 | 272 | 275 | 277 | 279 | 281 | 283 | 284 | 286 | 288 | 290 | 292 | 294 | 296 |
| 1100 | 275 | 277 | 279 | 281 | 283 | 284 | 286 | 288 | 290 | 292 | 294 | 296 | 298 |
| 1200 | 277 | 279 | 281 | 283 | 284 | 286 | 288 | 290 | 292 | 294 | 296 | 298 | 300 |
| 1300 | 279 | 281 | 283 | 284 | 286 | 288 | 290 | 292 | 294 | 296 | 298 | 300 | 302 |
| 1400 | 281 | 283 | 284 | 286 | 288 | 290 | 292 | 294 | 296 | 298 | 300 | 302 | 304 |
| 1500 | 283 | 284 | 286 | 288 | 290 | 292 | 294 | 296 | 298 | 300 | 302 | 304 | 306 |
| 1600 | 284 | 286 | 288 | 290 | 292 | 294 | 296 | 298 | 300 | 302 | 304 | 306 | 307 |
| 1700 | 286 | 288 | 290 | 292 | 294 | 296 | 298 | 300 | 302 | 304 | 306 | 307 | 309 |
| 1800 | 288 | 290 | 292 | 294 | 296 | 298 | 300 | 302 | 304 | 306 | 307 | 309 | 311 |
| 1900 | 290 | 292 | 294 | 296 | 298 | 300 | 302 | 304 | 306 | 307 | 309 | 311 | 313 |
| 2000 | 292 | 294 | 296 | 298 | 300 | 302 | 304 | 306 | 307 | 309 | 311 | 313 | 315 |
| 2100 | 294 | 296 | 298 | 300 | 302 | 304 | 306 | 307 | 309 | 311 | 313 | 315 | 318 |
| 2200 | 349 | 351 | 353 | 355 | 357 | 360 | 361 | 363 | 365 | 367 | 369 | 371 | 372 |
| 2300 | 351 | 353 | 355 | 357 | 360 | 361 | 363 | 365 | 367 | 369 | 371 | 372 | 374 |
| 2400 | 353 | 355 | 357 | 360 | 361 | 363 | 365 | 367 | 369 | 371 | 372 | 374 | 376 |
| 2500 | 355 | 357 | 360 | 361 | 363 | 365 | 367 | 369 | 371 | 372 | 374 | 376 | 378 |

 Rahmenhöhe in mm
Frame height in mm

 Rahmenbreite in mm
Frame width in mm

Basisrahmen 58

Basic frame 58



ohne Flügel
without sash



| | 500 | 600 | 700 | 800 |
|-------------|-----|-----|-----|-----|
| 800 | 125 | 129 | 131 | 133 |
| 900 | 129 | 131 | 133 | 136 |
| 1000 | 131 | 133 | 136 | 138 |
| 1100 | 133 | 136 | 138 | 140 |
| 1200 | 136 | 138 | 140 | 142 |
| 1300 | 138 | 140 | 142 | 145 |
| 1400 | 140 | 142 | 145 | 147 |
| 1500 | 142 | 145 | 147 | 150 |
| 1600 | 145 | 147 | 150 | 153 |
| 1700 | 147 | 150 | 153 | 155 |
| 1800 | 150 | 153 | 155 | 157 |
| 1900 | 153 | 155 | 157 | 159 |
| 2000 | 155 | 157 | 159 | 162 |
| 2100 | 157 | 159 | 162 | 164 |
| 2200 | 183 | 185 | 187 | 191 |
| 2300 | 185 | 187 | 191 | 193 |
| 2400 | 187 | 191 | 193 | 195 |
| 2500 | 191 | 193 | 195 | 198 |

Rahmenbreite in mm
Frame width in mm

Rahmenhöhe in mm
Frame height in mm



| | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 |
|-------------|-----|-----|------|------|------|------|------|------|------|
| 800 | 184 | 186 | 188 | 191 | 194 | 196 | 198 | 201 | 203 |
| 900 | 186 | 188 | 191 | 194 | 196 | 198 | 201 | 203 | 205 |
| 1000 | 188 | 191 | 194 | 196 | 198 | 201 | 203 | 205 | 208 |
| 1100 | 191 | 194 | 196 | 198 | 201 | 203 | 205 | 208 | 210 |
| 1200 | 194 | 196 | 198 | 201 | 203 | 205 | 208 | 210 | 213 |
| 1300 | 196 | 198 | 201 | 203 | 205 | 208 | 210 | 213 | 215 |
| 1400 | 198 | 201 | 203 | 205 | 208 | 210 | 213 | 215 | 218 |
| 1500 | 201 | 203 | 205 | 208 | 210 | 213 | 215 | 218 | 220 |
| 1600 | 203 | 205 | 208 | 210 | 213 | 215 | 218 | 220 | 222 |
| 1700 | 205 | 208 | 210 | 213 | 215 | 218 | 220 | 222 | 224 |
| 1800 | 208 | 210 | 213 | 215 | 218 | 220 | 222 | 224 | 227 |
| 1900 | 210 | 213 | 215 | 218 | 220 | 222 | 224 | 227 | 229 |
| 2000 | 213 | 215 | 218 | 220 | 222 | 224 | 227 | 229 | 231 |
| 2100 | 215 | 218 | 220 | 222 | 224 | 227 | 229 | 231 | 235 |
| 2200 | 264 | 267 | 269 | 271 | 275 | 277 | 279 | 282 | 284 |
| 2300 | 267 | 269 | 271 | 275 | 277 | 279 | 282 | 284 | 286 |
| 2400 | 269 | 271 | 275 | 277 | 279 | 282 | 284 | 286 | 288 |
| 2500 | 271 | 275 | 277 | 279 | 282 | 284 | 286 | 288 | 291 |

Rahmenbreite in mm
Frame width in mm

Rahmenhöhe in mm
Frame height in mm

Inklusive vormontierter Läden
Including preinstalled shutters

4400

Aufpreis Montagebohrung Basisrahmen
Surcharge installation holes with basic frame

9,8 × 5,5 mm 4404 2.35 €

Basisrahmen 58

Basic frame 58



| | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 800 | 233 | 235 | 237 | 240 | 242 | 244 | 246 | 249 | 251 | 254 | 256 | 259 | 261 |
| 900 | 235 | 237 | 240 | 242 | 244 | 246 | 249 | 251 | 254 | 256 | 259 | 261 | 263 |
| 1000 | 237 | 240 | 242 | 244 | 246 | 249 | 251 | 254 | 256 | 259 | 261 | 263 | 266 |
| 1100 | 240 | 242 | 244 | 246 | 249 | 251 | 254 | 256 | 259 | 261 | 263 | 266 | 268 |
| 1200 | 242 | 244 | 246 | 249 | 251 | 254 | 256 | 259 | 261 | 263 | 266 | 268 | 270 |
| 1300 | 244 | 246 | 249 | 251 | 254 | 256 | 259 | 261 | 263 | 266 | 268 | 270 | 273 |
| 1400 | 246 | 249 | 251 | 254 | 256 | 259 | 261 | 263 | 266 | 268 | 270 | 273 | 276 |
| 1500 | 249 | 251 | 254 | 256 | 259 | 261 | 263 | 266 | 268 | 270 | 273 | 276 | 278 |
| 1600 | 251 | 254 | 256 | 259 | 261 | 263 | 266 | 268 | 270 | 273 | 276 | 278 | 280 |
| 1700 | 254 | 256 | 259 | 261 | 263 | 266 | 268 | 270 | 273 | 276 | 278 | 280 | 283 |
| 1800 | 256 | 259 | 261 | 263 | 266 | 268 | 270 | 273 | 276 | 278 | 280 | 283 | 285 |
| 1900 | 259 | 261 | 263 | 266 | 268 | 270 | 273 | 276 | 278 | 280 | 283 | 285 | 287 |
| 2000 | 261 | 263 | 266 | 268 | 270 | 273 | 276 | 278 | 280 | 283 | 285 | 287 | 289 |
| 2100 | 263 | 266 | 268 | 270 | 273 | 276 | 278 | 280 | 283 | 285 | 287 | 289 | 292 |
| 2200 | 317 | 319 | 321 | 323 | 326 | 328 | 330 | 333 | 335 | 338 | 340 | 343 | 345 |
| 2300 | 319 | 321 | 323 | 326 | 328 | 330 | 333 | 335 | 338 | 340 | 343 | 345 | 347 |
| 2400 | 321 | 323 | 326 | 328 | 330 | 333 | 335 | 338 | 340 | 343 | 345 | 347 | 350 |
| 2500 | 323 | 326 | 328 | 330 | 333 | 335 | 338 | 340 | 343 | 345 | 347 | 350 | 352 |

Rahmenbreite in mm
Frame width in mm

└─ Rahmenhöhe in mm
Frame height in mm

K



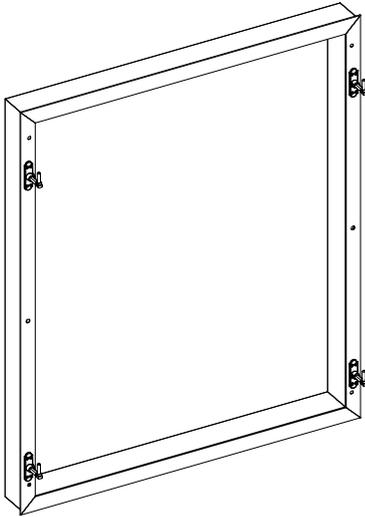
| | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 800 | 281 | 283 | 285 | 287 | 290 | 292 | 294 | 298 | 300 | 302 | 305 | 307 | 309 |
| 900 | 283 | 285 | 287 | 290 | 292 | 294 | 298 | 300 | 302 | 305 | 307 | 309 | 311 |
| 1000 | 285 | 287 | 290 | 292 | 294 | 298 | 300 | 302 | 305 | 307 | 309 | 311 | 314 |
| 1100 | 287 | 290 | 292 | 294 | 298 | 300 | 302 | 305 | 307 | 309 | 311 | 314 | 317 |
| 1200 | 290 | 292 | 294 | 298 | 300 | 302 | 305 | 307 | 309 | 311 | 314 | 317 | 319 |
| 1300 | 292 | 294 | 298 | 300 | 302 | 305 | 307 | 309 | 311 | 314 | 317 | 319 | 321 |
| 1400 | 294 | 298 | 300 | 302 | 305 | 307 | 309 | 311 | 314 | 317 | 319 | 321 | 324 |
| 1500 | 298 | 300 | 302 | 305 | 307 | 309 | 311 | 314 | 317 | 319 | 321 | 324 | 326 |
| 1600 | 300 | 302 | 305 | 307 | 309 | 311 | 314 | 317 | 319 | 321 | 324 | 326 | 328 |
| 1700 | 302 | 305 | 307 | 309 | 311 | 314 | 317 | 319 | 321 | 324 | 326 | 328 | 331 |
| 1800 | 305 | 307 | 309 | 311 | 314 | 317 | 319 | 321 | 324 | 326 | 328 | 331 | 333 |
| 1900 | 307 | 309 | 311 | 314 | 317 | 319 | 321 | 324 | 326 | 328 | 331 | 333 | 335 |
| 2000 | 309 | 311 | 314 | 317 | 319 | 321 | 324 | 326 | 328 | 331 | 333 | 335 | 339 |
| 2100 | 311 | 314 | 317 | 319 | 321 | 324 | 326 | 328 | 331 | 333 | 335 | 339 | 341 |
| 2200 | 368 | 370 | 372 | 375 | 377 | 380 | 382 | 385 | 387 | 389 | 392 | 394 | 396 |
| 2300 | 370 | 372 | 375 | 377 | 380 | 382 | 385 | 387 | 389 | 392 | 394 | 396 | 398 |
| 2400 | 372 | 375 | 377 | 380 | 382 | 385 | 387 | 389 | 392 | 394 | 396 | 398 | 402 |
| 2500 | 375 | 377 | 380 | 382 | 385 | 387 | 389 | 392 | 394 | 396 | 398 | 402 | 404 |

Rahmenbreite in mm
Frame width in mm

└─ Rahmenhöhe in mm
Frame height in mm

Basisrahmen 48/100

Basic frame 48/100



Basisrahmen 48/100 mit MACO-Kloben
Basic frame 48/100 with MACO bracket



| | 500 | 600 | 700 | 800 |
|-------------|-----|-----|-----|-----|
| 800 | 156 | 158 | 160 | 163 |
| 900 | 158 | 160 | 163 | 165 |
| 1000 | 160 | 163 | 165 | 168 |
| 1100 | 163 | 165 | 168 | 172 |
| 1200 | 165 | 168 | 172 | 173 |
| 1300 | 168 | 172 | 173 | 175 |
| 1400 | 172 | 173 | 175 | 178 |
| 1500 | 173 | 175 | 178 | 181 |
| 1600 | 175 | 178 | 181 | 183 |
| 1700 | 178 | 181 | 183 | 186 |
| 1800 | 181 | 183 | 186 | 187 |
| 1900 | 183 | 186 | 187 | 191 |
| 2000 | 186 | 187 | 191 | 193 |
| 2100 | 187 | 191 | 193 | 196 |
| 2200 | 222 | 223 | 226 | 228 |
| 2300 | 223 | 226 | 228 | 231 |
| 2400 | 226 | 228 | 231 | 234 |
| 2500 | 228 | 231 | 234 | 237 |

┌
Rahmenbreite in mm
Frame width in mm

└
Rahmenhöhe in mm
Frame height in mm



| | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 |
|-------------|-----|-----|------|------|------|------|------|------|------|
| 800 | 228 | 231 | 234 | 237 | 240 | 242 | 243 | 246 | 249 |
| 900 | 231 | 234 | 237 | 240 | 242 | 243 | 246 | 249 | 251 |
| 1000 | 234 | 237 | 240 | 242 | 243 | 246 | 249 | 251 | 255 |
| 1100 | 237 | 240 | 242 | 243 | 246 | 249 | 251 | 255 | 257 |
| 1200 | 240 | 242 | 243 | 246 | 249 | 251 | 255 | 257 | 259 |
| 1300 | 242 | 243 | 246 | 249 | 251 | 255 | 257 | 259 | 261 |
| 1400 | 243 | 246 | 249 | 251 | 255 | 257 | 259 | 261 | 264 |
| 1500 | 246 | 249 | 251 | 255 | 257 | 259 | 261 | 264 | 267 |
| 1600 | 249 | 251 | 255 | 257 | 259 | 261 | 264 | 267 | 269 |
| 1700 | 251 | 255 | 257 | 259 | 261 | 264 | 267 | 269 | 272 |
| 1800 | 255 | 257 | 259 | 261 | 264 | 267 | 269 | 272 | 273 |
| 1900 | 257 | 259 | 261 | 264 | 267 | 269 | 272 | 273 | 277 |
| 2000 | 259 | 261 | 264 | 267 | 269 | 272 | 273 | 277 | 279 |
| 2100 | 261 | 264 | 267 | 269 | 272 | 273 | 277 | 279 | 282 |
| 2200 | 325 | 328 | 331 | 332 | 335 | 338 | 341 | 343 | 346 |
| 2300 | 328 | 331 | 332 | 335 | 338 | 341 | 343 | 346 | 347 |
| 2400 | 331 | 332 | 335 | 338 | 341 | 343 | 346 | 347 | 350 |
| 2500 | 332 | 335 | 338 | 341 | 343 | 346 | 347 | 350 | 352 |

┌
Rahmenbreite in mm
Frame width in mm

└
Rahmenhöhe in mm
Frame height in mm

Inklusive vormontierter Läden
Including preinstalled shutters

4400

Aufpreis Montagebohrung Basisrahmen
Surcharge installation holes with basic frame

9,8 × 5,5 mm **4404** 2.35 €

Basisrahmen 48/100

Basic frame 48/100



| | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 800 | 290 | 291 | 294 | 297 | 300 | 302 | 305 | 306 | 309 | 311 | 314 | 318 | 320 |
| 900 | 291 | 294 | 297 | 300 | 302 | 305 | 306 | 309 | 311 | 314 | 318 | 320 | 322 |
| 1000 | 294 | 297 | 300 | 302 | 305 | 306 | 309 | 311 | 314 | 318 | 320 | 322 | 324 |
| 1100 | 297 | 300 | 302 | 305 | 306 | 309 | 311 | 314 | 318 | 320 | 322 | 324 | 327 |
| 1200 | 300 | 302 | 305 | 306 | 309 | 311 | 314 | 318 | 320 | 322 | 324 | 327 | 329 |
| 1300 | 302 | 305 | 306 | 309 | 311 | 314 | 318 | 320 | 322 | 324 | 327 | 329 | 332 |
| 1400 | 305 | 306 | 309 | 311 | 314 | 318 | 320 | 322 | 324 | 327 | 329 | 332 | 335 |
| 1500 | 306 | 309 | 311 | 314 | 318 | 320 | 322 | 324 | 327 | 329 | 332 | 335 | 336 |
| 1600 | 309 | 311 | 314 | 318 | 320 | 322 | 324 | 327 | 329 | 332 | 335 | 336 | 339 |
| 1700 | 311 | 314 | 318 | 320 | 322 | 324 | 327 | 329 | 332 | 335 | 336 | 339 | 342 |
| 1800 | 314 | 318 | 320 | 322 | 324 | 327 | 329 | 332 | 335 | 336 | 339 | 342 | 345 |
| 1900 | 318 | 320 | 322 | 324 | 327 | 329 | 332 | 335 | 336 | 339 | 342 | 345 | 347 |
| 2000 | 320 | 322 | 324 | 327 | 329 | 332 | 335 | 336 | 339 | 342 | 345 | 347 | 350 |
| 2100 | 322 | 324 | 327 | 329 | 332 | 335 | 336 | 339 | 342 | 345 | 347 | 350 | 351 |
| 2200 | 390 | 392 | 395 | 397 | 401 | 402 | 405 | 407 | 410 | 413 | 415 | 417 | 419 |
| 2300 | 392 | 395 | 397 | 401 | 402 | 405 | 407 | 410 | 413 | 415 | 417 | 419 | 423 |
| 2400 | 395 | 397 | 401 | 402 | 405 | 407 | 410 | 413 | 415 | 417 | 419 | 423 | 425 |
| 2500 | 397 | 401 | 402 | 405 | 407 | 410 | 413 | 415 | 417 | 419 | 423 | 425 | 428 |

└─ Rahmenhöhe in mm
Frame height in mm

┌─ Rahmenbreite in mm
Frame width in mm

K



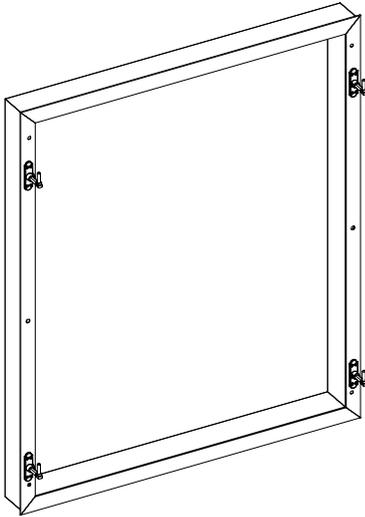
| | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 800 | 350 | 352 | 354 | 356 | 360 | 363 | 365 | 368 | 369 | 372 | 374 | 377 | 380 |
| 900 | 352 | 354 | 356 | 360 | 363 | 365 | 368 | 369 | 372 | 374 | 377 | 380 | 383 |
| 1000 | 354 | 356 | 360 | 363 | 365 | 368 | 369 | 372 | 374 | 377 | 380 | 383 | 384 |
| 1100 | 356 | 360 | 363 | 365 | 368 | 369 | 372 | 374 | 377 | 380 | 383 | 384 | 387 |
| 1200 | 360 | 363 | 365 | 368 | 369 | 372 | 374 | 377 | 380 | 383 | 384 | 387 | 390 |
| 1300 | 363 | 365 | 368 | 369 | 372 | 374 | 377 | 380 | 383 | 384 | 387 | 390 | 392 |
| 1400 | 365 | 368 | 369 | 372 | 374 | 377 | 380 | 383 | 384 | 387 | 390 | 392 | 395 |
| 1500 | 368 | 369 | 372 | 374 | 377 | 380 | 383 | 384 | 387 | 390 | 392 | 395 | 397 |
| 1600 | 369 | 372 | 374 | 377 | 380 | 383 | 384 | 387 | 390 | 392 | 395 | 397 | 399 |
| 1700 | 372 | 374 | 377 | 380 | 383 | 384 | 387 | 390 | 392 | 395 | 397 | 399 | 402 |
| 1800 | 374 | 377 | 380 | 383 | 384 | 387 | 390 | 392 | 395 | 397 | 399 | 402 | 405 |
| 1900 | 377 | 380 | 383 | 384 | 387 | 390 | 392 | 395 | 397 | 399 | 402 | 405 | 407 |
| 2000 | 380 | 383 | 384 | 387 | 390 | 392 | 395 | 397 | 399 | 402 | 405 | 407 | 410 |
| 2100 | 383 | 384 | 387 | 390 | 392 | 395 | 397 | 399 | 402 | 405 | 407 | 410 | 413 |
| 2200 | 454 | 456 | 459 | 461 | 465 | 468 | 469 | 472 | 474 | 477 | 479 | 482 | 483 |
| 2300 | 456 | 459 | 461 | 465 | 468 | 469 | 472 | 474 | 477 | 479 | 482 | 483 | 487 |
| 2400 | 459 | 461 | 465 | 468 | 469 | 472 | 474 | 477 | 479 | 482 | 483 | 487 | 489 |
| 2500 | 461 | 465 | 468 | 469 | 472 | 474 | 477 | 479 | 482 | 483 | 487 | 489 | 492 |

└─ Rahmenhöhe in mm
Frame height in mm

┌─ Rahmenbreite in mm
Frame width in mm

Basisrahmen 48/100

Basic frame 48/100



Basisrahmen 48/100 mit MACO-Kloben
Basic frame 48/100 with MACO bracket



| | 500 | 600 | 700 | 800 |
|-------------|-----|-----|-----|-----|
| 800 | 163 | 167 | 170 | 173 |
| 900 | 167 | 170 | 173 | 177 |
| 1000 | 170 | 173 | 177 | 179 |
| 1100 | 173 | 177 | 179 | 182 |
| 1200 | 177 | 179 | 182 | 185 |
| 1300 | 179 | 182 | 185 | 188 |
| 1400 | 182 | 185 | 188 | 192 |
| 1500 | 185 | 188 | 192 | 195 |
| 1600 | 188 | 192 | 195 | 199 |
| 1700 | 192 | 195 | 199 | 201 |
| 1800 | 195 | 199 | 201 | 204 |
| 1900 | 199 | 201 | 204 | 206 |
| 2000 | 201 | 204 | 206 | 210 |
| 2100 | 204 | 206 | 210 | 214 |
| 2200 | 238 | 241 | 243 | 247 |
| 2300 | 241 | 243 | 247 | 250 |
| 2400 | 243 | 247 | 250 | 254 |
| 2500 | 247 | 250 | 254 | 257 |

┌
Rahmenbreite in mm
Frame width in mm

└
Rahmenhöhe in mm
Frame height in mm



| | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 |
|-------------|-----|-----|------|------|------|------|------|------|------|
| 800 | 240 | 242 | 245 | 247 | 251 | 255 | 257 | 261 | 264 |
| 900 | 242 | 245 | 247 | 251 | 255 | 257 | 261 | 264 | 267 |
| 1000 | 245 | 247 | 251 | 255 | 257 | 261 | 264 | 267 | 270 |
| 1100 | 247 | 251 | 255 | 257 | 261 | 264 | 267 | 270 | 273 |
| 1200 | 251 | 255 | 257 | 261 | 264 | 267 | 270 | 273 | 277 |
| 1300 | 255 | 257 | 261 | 264 | 267 | 270 | 273 | 277 | 279 |
| 1400 | 257 | 261 | 264 | 267 | 270 | 273 | 277 | 279 | 283 |
| 1500 | 261 | 264 | 267 | 270 | 273 | 277 | 279 | 283 | 286 |
| 1600 | 264 | 267 | 270 | 273 | 277 | 279 | 283 | 286 | 288 |
| 1700 | 267 | 270 | 273 | 277 | 279 | 283 | 286 | 288 | 291 |
| 1800 | 270 | 273 | 277 | 279 | 283 | 286 | 288 | 291 | 296 |
| 1900 | 273 | 277 | 279 | 283 | 286 | 288 | 291 | 296 | 298 |
| 2000 | 277 | 279 | 283 | 286 | 288 | 291 | 296 | 298 | 301 |
| 2100 | 279 | 283 | 286 | 288 | 291 | 296 | 298 | 301 | 305 |
| 2200 | 343 | 347 | 350 | 352 | 356 | 360 | 363 | 366 | 369 |
| 2300 | 347 | 350 | 352 | 356 | 360 | 363 | 366 | 369 | 372 |
| 2400 | 350 | 352 | 356 | 360 | 363 | 366 | 369 | 372 | 374 |
| 2500 | 352 | 356 | 360 | 363 | 366 | 369 | 372 | 374 | 378 |

┌
Rahmenbreite in mm
Frame width in mm

└
Rahmenhöhe in mm
Frame height in mm

Inklusive vormontierter Läden
Including preinstalled shutters

4400

Aufpreis Montagebohrung Basisrahmen
Surcharge installation holes with basic frame

9,8 × 5,5 mm 4404 2.35 €

Basisrahmen 48/100

Basic frame 48/100



| | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 800 | 302 | 305 | 308 | 311 | 314 | 318 | 320 | 324 | 327 | 329 | 332 | 336 | 339 |
| 900 | 305 | 308 | 311 | 314 | 318 | 320 | 324 | 327 | 329 | 332 | 336 | 339 | 342 |
| 1000 | 308 | 311 | 314 | 318 | 320 | 324 | 327 | 329 | 332 | 336 | 339 | 342 | 346 |
| 1100 | 311 | 314 | 318 | 320 | 324 | 327 | 329 | 332 | 336 | 339 | 342 | 346 | 349 |
| 1200 | 314 | 318 | 320 | 324 | 327 | 329 | 332 | 336 | 339 | 342 | 346 | 349 | 351 |
| 1300 | 318 | 320 | 324 | 327 | 329 | 332 | 336 | 339 | 342 | 346 | 349 | 351 | 355 |
| 1400 | 320 | 324 | 327 | 329 | 332 | 336 | 339 | 342 | 346 | 349 | 351 | 355 | 359 |
| 1500 | 324 | 327 | 329 | 332 | 336 | 339 | 342 | 346 | 349 | 351 | 355 | 359 | 361 |
| 1600 | 327 | 329 | 332 | 336 | 339 | 342 | 346 | 349 | 351 | 355 | 359 | 361 | 364 |
| 1700 | 329 | 332 | 336 | 339 | 342 | 346 | 349 | 351 | 355 | 359 | 361 | 364 | 368 |
| 1800 | 332 | 336 | 339 | 342 | 346 | 349 | 351 | 355 | 359 | 361 | 364 | 368 | 370 |
| 1900 | 336 | 339 | 342 | 346 | 349 | 351 | 355 | 359 | 361 | 364 | 368 | 370 | 373 |
| 2000 | 339 | 342 | 346 | 349 | 351 | 355 | 359 | 361 | 364 | 368 | 370 | 373 | 376 |
| 2100 | 342 | 346 | 349 | 351 | 355 | 359 | 361 | 364 | 368 | 370 | 373 | 376 | 380 |
| 2200 | 411 | 414 | 417 | 419 | 424 | 427 | 429 | 433 | 436 | 438 | 441 | 446 | 448 |
| 2300 | 414 | 417 | 419 | 424 | 427 | 429 | 433 | 436 | 438 | 441 | 446 | 448 | 451 |
| 2400 | 417 | 419 | 424 | 427 | 429 | 433 | 436 | 438 | 441 | 446 | 448 | 451 | 455 |
| 2500 | 419 | 424 | 427 | 429 | 433 | 436 | 438 | 441 | 446 | 448 | 451 | 455 | 458 |

 Rahmenhöhe in mm
Frame height in mm

 Rahmenbreite in mm
Frame width in mm



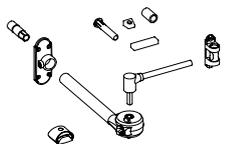
| | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 800 | 365 | 368 | 370 | 373 | 377 | 380 | 383 | 387 | 390 | 392 | 396 | 399 | 402 |
| 900 | 368 | 370 | 373 | 377 | 380 | 383 | 387 | 390 | 392 | 396 | 399 | 402 | 405 |
| 1000 | 370 | 373 | 377 | 380 | 383 | 387 | 390 | 392 | 396 | 399 | 402 | 405 | 409 |
| 1100 | 373 | 377 | 380 | 383 | 387 | 390 | 392 | 396 | 399 | 402 | 405 | 409 | 411 |
| 1200 | 377 | 380 | 383 | 387 | 390 | 392 | 396 | 399 | 402 | 405 | 409 | 411 | 414 |
| 1300 | 380 | 383 | 387 | 390 | 392 | 396 | 399 | 402 | 405 | 409 | 411 | 414 | 417 |
| 1400 | 383 | 387 | 390 | 392 | 396 | 399 | 402 | 405 | 409 | 411 | 414 | 417 | 420 |
| 1500 | 387 | 390 | 392 | 396 | 399 | 402 | 405 | 409 | 411 | 414 | 417 | 420 | 424 |
| 1600 | 390 | 392 | 396 | 399 | 402 | 405 | 409 | 411 | 414 | 417 | 420 | 424 | 427 |
| 1700 | 392 | 396 | 399 | 402 | 405 | 409 | 411 | 414 | 417 | 420 | 424 | 427 | 431 |
| 1800 | 396 | 399 | 402 | 405 | 409 | 411 | 414 | 417 | 420 | 424 | 427 | 431 | 433 |
| 1900 | 399 | 402 | 405 | 409 | 411 | 414 | 417 | 420 | 424 | 427 | 431 | 433 | 436 |
| 2000 | 402 | 405 | 409 | 411 | 414 | 417 | 420 | 424 | 427 | 431 | 433 | 436 | 440 |
| 2100 | 405 | 409 | 411 | 414 | 417 | 420 | 424 | 427 | 431 | 433 | 436 | 440 | 443 |
| 2200 | 478 | 481 | 483 | 488 | 491 | 493 | 496 | 500 | 502 | 506 | 510 | 513 | 515 |
| 2300 | 481 | 483 | 488 | 491 | 493 | 496 | 500 | 502 | 506 | 510 | 513 | 515 | 518 |
| 2400 | 483 | 488 | 491 | 493 | 496 | 500 | 502 | 506 | 510 | 513 | 515 | 518 | 522 |
| 2500 | 488 | 491 | 493 | 496 | 500 | 502 | 506 | 510 | 513 | 515 | 518 | 522 | 524 |

 Rahmenhöhe in mm
Frame height in mm

 Rahmenbreite in mm
Frame width in mm



Zubehör / Accessories



**Kurbel-Innenöffner, links/rechts
verwendbar**

**Crank inside opener, usable
left/right**

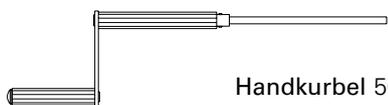
Abb. links
Fig. left

S 17340 79.82 €

W 18340 91.78 €

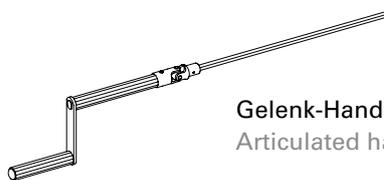
INFO

- Anwendungstabelle Innenöffner Seite 166 beachten
- Innenöffnerverstärkung Seite 167 muss verwendet werden
- Note application table for inside openers (see page 166)
- Inside opener reinforcement must be used (see page 167)



**Handkurbel 500 mm
Hand crank 500 mm**

17354 32.06 €



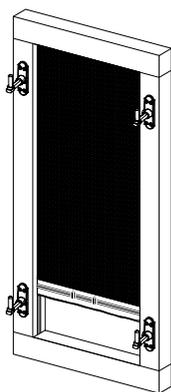
**Gelenk-Handkurbel 250 mm
Articulated hand crank 250 mm**

17355 32.06 €

Insekten- schutzrollo Flyscreen roller blind

STANDARDFARBEN STANDARD COLORS

- RAL 9016 Verkehrsweiß Traffic White
- RAL 7016 Anthrazitgrau Anthracite grey
- RAL 8001 Ockerbraun Ochre brown
- RAL 8014 Sepiabraun Sepia brown
- RAL 9006 Weißaluminium White aluminium



| | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 |
|-------------|-----|-----|-----|-----|-----|------|------|------|------|------|
| 500 | 448 | 457 | 467 | 477 | 486 | 496 | 505 | 515 | 526 | 535 |
| 600 | 452 | 462 | 473 | 482 | 492 | 501 | 511 | 521 | 530 | 540 |
| 700 | 458 | 468 | 477 | 487 | 497 | 506 | 517 | 526 | 536 | 546 |
| 800 | 464 | 473 | 483 | 493 | 502 | 512 | 521 | 531 | 541 | 550 |
| 900 | 468 | 478 | 488 | 497 | 508 | 517 | 527 | 537 | 546 | 556 |
| 1000 | 474 | 484 | 493 | 503 | 512 | 522 | 532 | 541 | 551 | 560 |
| 1100 | 479 | 488 | 499 | 508 | 518 | 528 | 537 | 547 | 557 | 566 |
| 1200 | 484 | 494 | 504 | 513 | 523 | 532 | 542 | 553 | 562 | 572 |
| 1300 | 491 | 501 | 511 | 521 | 531 | 541 | 551 | 560 | 571 | 581 |
| 1400 | 496 | 506 | 517 | 527 | 536 | 546 | 556 | 566 | 576 | 586 |
| 1500 | 502 | 511 | 521 | 531 | 541 | 551 | 562 | 572 | 582 | 591 |
| 1600 | 506 | 517 | 527 | 537 | 547 | 557 | 566 | 576 | 586 | 597 |
| 1700 | 526 | 535 | 544 | 554 | 563 | 572 | 582 | 591 | 601 | 610 |
| 1800 | 530 | 540 | 549 | 558 | 568 | 577 | 586 | 597 | 606 | 616 |
| 1900 | 536 | 545 | 555 | 564 | 573 | 604 | 614 | 623 | 633 | 642 |
| 2000 | 540 | 550 | 559 | 570 | 579 | 609 | 619 | 628 | 637 | 647 |
| 2100 | 546 | 555 | 565 | 574 | 584 | 615 | 624 | 634 | 643 | 653 |
| 2200 | 594 | 603 | 614 | 623 | 632 | 663 | 672 | 681 | 691 | 700 |
| 2300 | 599 | 609 | 618 | 628 | 637 | 668 | 678 | 687 | 696 | 706 |
| 2400 | 605 | 614 | 624 | 633 | 643 | 673 | 682 | 693 | 702 | 711 |

Rahmenbreite in mm
Frame width in mm

└─ Rahmenhöhe in mm
Frame height in mm

Transpatec inkl. Rollobremse / Transpatec incl. roller blind brake

| | 500-599 | 600-799 | 800-999 | 1000-1199 | 1200-1399 |
|------------------|---------|---------|---------|-----------|-----------|
| 500-1100 | 50.52 € | 55.11 € | 59.71 € | 65.83 € | 71.95 € |
| 1100-1599 | 56.64 € | 64.30 € | 73.48 € | 81.14 € | 88.79 € |
| 1600-2400 | 65.83 € | 78.08 € | 90.32 € | 101.04 € | 113.29 € |

| OPTIONEN OPTIONS | | |
|---|--------|------------|
| Mit Außenbedienung With outside operation | 151010 | 23.84 € |
| Ziehschnur 2 m Pull cord 2 m | 151011 | 13.65 € |
| Einhängeschlaufe Hook-in loop | 151012 | 8.51 € |
| Einhängeschlaufe mit Bedienstab Hook-in loop with operating rod | 151013 | 49.35 € |
| Zusätzlich verstellbare Zusatzeinrastung Additionally adjustable engagement | 151014 | 13.65 € |
| Asymmetrie Bedienung Asymmetric operation | 151015 | 22.26 € |
| Montagebohrungen S oder V Installation holes S or V | 151016 | 17.01 € |
| MEHR- UND MINDERPREISE PLUS VALUE | | |
| Minderpreis für ein Flügel Price reduction for one sash | | - 63,00 € |
| Mehrpreis für drei Flügel Additional price for three sashes | | + 87,00 € |
| Mehrpreis für vier Flügel Additional price for four sashes | | + 116,00 € |
| Minderpreis für nur 3-seitigen Rahmen Price reduction for only 3-side installation frame | | - 32,00 € |
| Sonderfarben RAL auf Listenpreis Special RAL colours on list price | | + 18 % |
| Übergrößen auf Anfrage Larger sizes on request | | |

Beschlagauswahl wie Basisrahmen 40
Choice of fitting as per basic frame 40

| | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|-------------|------|------|------|------|------|------|
| 500 | 545 | 554 | 568 | 577 | 588 | 598 |
| 600 | 550 | 559 | 574 | 583 | 593 | 602 |
| 700 | 555 | 565 | 579 | 589 | 598 | 608 |
| 800 | 560 | 570 | 584 | 593 | 603 | 613 |
| 900 | 565 | 575 | 589 | 599 | 609 | 618 |
| 1000 | 571 | 581 | 594 | 604 | 613 | 624 |
| 1100 | 576 | 585 | 600 | 609 | 619 | 629 |
| 1200 | 581 | 591 | 604 | 615 | 625 | 634 |
| 1300 | 591 | 601 | 616 | 626 | 635 | 645 |
| 1400 | 597 | 607 | 620 | 630 | 641 | 651 |
| 1500 | 601 | 611 | 626 | 636 | 646 | 656 |
| 1600 | 607 | 617 | 631 | 641 | 651 | 661 |
| 1700 | 619 | 629 | 638 | 647 | 657 | 666 |
| 1800 | 625 | 634 | 644 | 653 | 662 | 672 |
| 1900 | 652 | 661 | 670 | 680 | 689 | 698 |
| 2000 | 656 | 666 | 675 | 685 | 695 | 704 |
| 2100 | 662 | 671 | 681 | 690 | 699 | 709 |
| 2200 | 711 | 720 | 729 | 739 | 748 | 757 |
| 2300 | 715 | 725 | 734 | 743 | 753 | 762 |
| 2400 | 721 | 730 | 740 | 749 | 758 | 768 |

Rahmenbreite in mm
Frame width in mm

└─ Rahmenhöhe in mm
Frame height in mm

Transpatec inkl. Rollobremse / Transpatec incl. roller blind brake

| | 1400-1599 | 1600-1799 | 1800-1200 |
|------------------|-----------|-----------|-----------|
| 500-1100 | 78.08 € | 82.67 € | 88.79 € |
| 1100-1599 | 97.98 € | 105.63 € | 114.82 € |
| 1600-2400 | 124.00 € | 136.25 € | 148.50 € |

| | | | | |
|------------|-----------------|----------------------------|------------------------------|-----|
| Klappläden | Window shutters | Anschlagschemen | Stop schemes | 9 |
| | | Beschlagpakete | Hardware packages | 13 |
| | | Feststehende Lamellen | Fixed slats | 21 |
| | | Bewegliche Lamellen | Moving slats | 37 |
| | | Geschlossene Modelle | Closed models | 51 |
| | | Isolierende Modelle | Insulating models | 73 |
| | | Sonderformen und Optionen | Special shapes and options | 85 |
| | | Vormontage | Pre-installation | 99 |
| | | Beschläge | Fittings | 109 |
| | | Zubehör | Accessories | 119 |
| | | Montagerahmen / Zargen | Installation frames / frames | 139 |
| | | Motorisierung und Antriebe | Motorisation and drives | 165 |
| | | Diverses | Miscellaneous | 171 |

A

B

C

D

E

F

G

H

I

J

K

L

M

Beaufort-Tabelle

Auszug aus der Beaufort-Tabelle, die die Auswirkungen des Windes beschreibt und die den Beaufortgraden zugeordneten Windgeschwindigkeiten enthält.

Beaufort scale

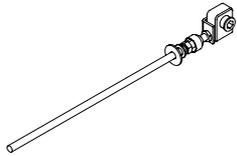
Excerpt from the Beaufort scale, which describes the effects of the wind and indicates wind speeds categorised according to the Beaufort number scale.

| Beaufortgrad / Beaufort number | Bezeichnung | Designation | Mittlere Windgeschwindigkeit Average wind speed | | Beispiele für die Auswirkungen des Windes im Binnenland | Examples of the effect of the wind on land |
|--------------------------------------|----------------|-----------------|--|---------|---|--|
| | | | [m/s] | [km/h] | | |
| 0 | Windstille | Calm | 0 – 0,2 | <1 | Rauch steigt senkrecht auf | Smoke rises vertically |
| 1 | leiser Zug | Light air | 0,3 – 1,4 | 1 – 5 | Windrichtung angezeigt durch den Zug des Rauches | Smoke drift indicates wind direction |
| 2 | leichte Brise | Light breeze | 1,5 – 3,4 | 6 – 12 | Wind im Gesicht spürbar | Wind felt on face |
| 3 | schwache Brise | Gentle breeze | 3,5 – 5,4 | 13 – 19 | Wind bewegt dünne Zweige | Small twigs move constantly |
| 4 | mäßige Brise | Moderate breeze | 5,5 – 7,4 | 20 – 27 | Wind bewegt Zweige und dünnere Äste, hebt Staub und loses Papier | Wind moves twigs and thin branches, raises dust and loose paper |
| 5 | frische Brise | Fresh breeze | 7,5 – 10,4 | 28 – 37 | kleine Laubbäume beginnen zu schwanken | Small trees in leaf begin to sway |
| 6 | starker Wind | Strong breeze | 10,5 – 13,4 | 38 – 48 | starke Äste schwanken | Large branches in motion |

Anwendungstabelle Kurbelinnenöffner / Klobenfeststeller / Rasthalter u. ä. Application table for inside opener cranks / pulley locks / detent holders, etc.

| Flügelhöhe / Sash height | Flügelbreite / Sash width | | | | |
|--------------------------|---------------------------|----|----|----|----|
| | 40 | 45 | 50 | 55 | 60 |
| 80 | | | | | |
| 90 | | | | | |
| 100 | | | | | |
| 110 | | | | | |
| 120 | | | | | |
| 130 | | | | | |
| 140 | | | | | |
| 150 | | | | | |
| 160 | | | | | |
| 170 | | | | | |
| 180 | | | | | |
| 190 | | | | | |
| 200 | | | | | |
| 210 | | | | | |
| 220 | | | | | |
| 230 | | | | | |
| 240 | | | | | |
| 250 | | | | | |

Kurbelinnenöffner / Inside opener crank



Innenöffner Typ S
Inside opener Type S

| | | | |
|----------------|----------|-------------|---------|
| rechts / right | S | 6070 | 81.36 € |
| links / left | S | 6071 | 81.36 € |



Doppelladen-Kupplung
Double shutter coupling

| | | | |
|--|----------|-------------|---------|
| | P | 6047 | 67.36 € |
|--|----------|-------------|---------|

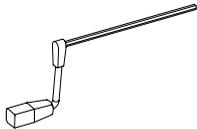
Innenöffnerverstärkung
Inside opener reinforcement

| | | | |
|--|--|--------------|---------|
| | | 10006 | 34.17 € |
|--|--|--------------|---------|

INFO

- montagefreundlich
- einsetzbar bis zu einer Wandstärke von 430 mm. Sonderlänge auf Anfrage
- Antrieb kann nicht als Klobenersatz verwendet werden
- Antriebsband nicht als französisches Expressband erhältlich
- Maximallänge Antriebsband: 120 mm
- Innenöffnerverstärkung Art. Nr 10006 unbedingt erforderlich
- Anwendungstabelle Seite 166 beachten
- Easy installation
- Can be installed up to a wall thickness of 430 mm. Special lengths on request
- Drive cannot be used to replace the bracket
- Drive belt not available as French express hinge
- Maximum length of drive belt: 120 mm
- Inside opener reinforcement, art. no. 10006 must be used
- Note application table (see page 166)

L



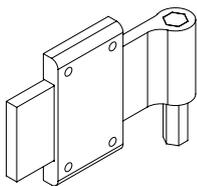
Kurbel 500 mm
Crank 500 mm

| | | | |
|--|--|-------------|--------|
| | | 6075 | 8.07 € |
|--|--|-------------|--------|



Gelenk-Kurbel, 500 mm
Articulated crank, 500 mm

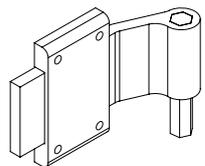
| | | | |
|--|--|-------------|---------|
| | | 6076 | 49.71 € |
|--|--|-------------|---------|



EHRET-Innenöffner-Band, gerade,
inkl. Adapterstift

EHRET inside opener hinge,
straight, incl. adapter pin

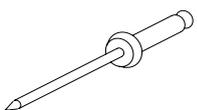
| | | | |
|--|----------|-------------|---------|
| | P | 6082 | 21.40 € |
|--|----------|-------------|---------|



EHRET-Innenöffner-Band, gekröpft,
inkl. Adapterstift, (K-Maß = max.
25 mm)

EHRET inside opener hinge, offset,
incl. adapter pin (K-measurement =
max. 25 mm)

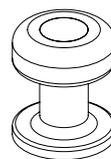
| | | | |
|--|----------|-------------|---------|
| | P | 6083 | 27.98 € |
|--|----------|-------------|---------|



Aluminium-Blindniete 5/18 mm,
pro Stück

Aluminium blind rivet 5/18 mm,
per piece

| | | | |
|--|----------|-------------|--------|
| | P | 6085 | 0.33 € |
|--|----------|-------------|--------|



Anschlagknopf, Kunststoff, schwarz,
Höhe = 30, 40, 50, 60 mm

Stop button, plastic, black,
height = 30, 40, 50, 60 mm

| | | | |
|--|--|-------------|--------|
| | | 6045 | 8.64 € |
|--|--|-------------|--------|

I Verzinkte Teile sind rost-geschützt, nicht rostfrei, und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

| | | | |
|---|---|---|--|
| MATERIAL WERKSTOFF MATERIAL | M Messing Brass | OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH | V Verzinkt Galvanised |
| A Aluminium Aluminium | C Aluminiumdruckguss Aluminium die casting | B Blank Bright | P Pulverbeschichtet Powder-coated |
| Z Zinkdruckguss Zinc die casting | E Edelstahl Stainless steel | K Kunststoff Plastic | S Schwarz Black |
| | | | W Weiß White |
| | | | T Transparent beschichtet Transparent coating |
| | | | X Eloxiert Anodised |

Anwendungstabelle Motorisierung

Application table for motorisation

| Schema Diagram | Lichte Breite Clear width | Breite Flügel Sash width |
|-------------------|------------------------------|-----------------------------|
| 1L/1R | 600 – 810 mm | 590 – 800 mm |
| 2L/2R | 600 – 1614 mm | 293 – 800 mm |
| 2 | 890 – 1614 mm | 438 – 800 mm |
| 3L/3R | 890 – 2421 mm | 289 – 800 mm |
| 4 | 1148 – 2500 mm | 280 – 618 mm |

| |
|--|
| <ul style="list-style-type: none"> • immer Anschlagpuffer montieren • der Laden muss in geöffneter Stellung an die Mauer andrücken • bei Windgeschwindigkeiten ab 62 km/h (Sturm) und ungünstiger Lage des Objekts können Deformationen des Beschlags und Folgeschäden auftreten Innenöffner deshalb bei Sturm nicht betätigen. Die Läden müssen vor stürmischer Wetterlage geschlossen werden. • bei Bedienung mit Innenöffner verstärkte Innenöffner-Ausführung (Art.-Nr. 10006) unbedingt erforderlich • Maximalmaße können je nach ungünstiger Klobensituation und ungünstiger Windlage abweichen. Ggf. müssen neue Kloben montiert werden, um eine einwandfreie Funktion zu gewährleisten. • Always install stop buffers. • The shutter must press against the wall when it is open. • At wind speeds over 62 km/h (storm) and if positioned unfavourably, the fittings can be deformed and subsequent damage can be incurred. Therefore do not use inside openers during a storm. The shutters must be closed before the onset of stormy weather. • Operation with inside opener requires the reinforced inside opener model (art. no. 10006). • Maximum dimensions can vary if the bracket position is unfavourable or during adverse weather conditions. If necessary, new brackets might have to be installed to ensure trouble-free functionality. |
|--|

MATERIAL WERKSTOFF MATERIAL

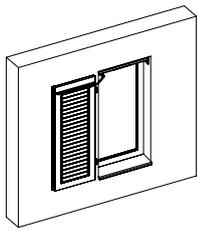
A Aluminium Aluminium **G** Aluminiumdruckguss Aluminium die casting
Z Zinkdruckguss Zinc die casting **E** Edelstahl Stainless steel **K** Kunststoff Plastic

M Messing Brass

OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH

V Verzinkt Galvanised
B Blank Bright **P** Pulverbeschichtet Powder-coated **S** Schwarz Black **W** Weiß White
T Transparent beschichtet Transparent coating **X** Eloxiert Anodised

VOLETRONIC – Elektroantrieb für Klapppläden / VOLETRONIC – Electric drive for window shutters

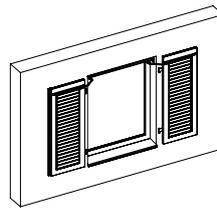


VOLETRONIC (230 V) mit 1 Motor, für max. 2 Flügel auf einer Seite, komplett im 2-teiligen Alu-Gehäuse mit Empfänger und Akku, inkl. Flügelarmen, Funksteuerung (Wandsender Smooove RTS) und Anschlusskabel
Schemen: 1L/1R, 2L/2R

VOLETRONIC (230 V) with 1 motor, for max. 2 sashes on one side, complete in 2-part aluminium housing with receiver and rechargeable battery, including sash arms, remote control (wall transmitter Smooove RTS) and connection cable
Diagrams: 1L/1R, 2L/2R

Schemen
Diagrams

| | | | |
|-------|-------------|------|----------|
| 1L/1R | RAL | 6310 | 690.00 € |
| 1L/1R | Dekor Decor | | 740.00 € |
| 2L/2R | RAL | | 730.00 € |
| 2L/2R | Dekor Decor | | 780.00 € |



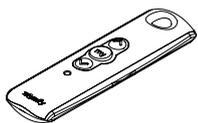
VOLETRONIC (230 V) mit 2 Motoren, für max. 2 Flügel je Seite, komplett im 2-teiligen Alu-Gehäuse mit Empfänger und Akku, inkl. Flügelarmen, Funksteuerung (Wandsender Smooove RTS) und Anschlusskabel
Schemen: 2, 3R/3L, 4

VOLETRONIC (230 V) with 2 motors, for max. 2 sashes on each side, complete in 2-part aluminium housing with receiver and rechargeable battery, including sash arms, remote control (wall transmitter Smooove RTS) and connection cable
Diagrams: 2, 3R/3L, 4

Schemen
Diagrams

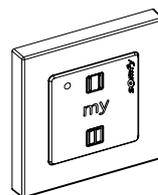
| | | | |
|-------|-------------|------|-----------|
| 2 | RAL | 6310 | 780.00 € |
| 2 | Dekor Decor | | 830.00 € |
| 3L/3R | RAL | | 873.00 € |
| 3L/3R | Dekor Decor | | 923.00 € |
| 4 | RAL | | 966.00 € |
| 4 | Dekor Decor | | 1016.00 € |

Bedienung & Zubehör / Operation & Accessories



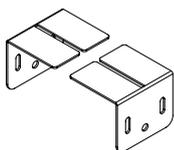
Handsender Somfy „TELIS RTS Pure“, Funksteuerung
Somfy “TELIS RTS Pure” handheld transmitter, remote control

| | | |
|-----------------------|------|----------|
| 1-Kanal / 1 channel | 6341 | 66.50 € |
| 5-Kanal / 5 channel | 6342 | 88.50 € |
| 16-Kanal / 16 channel | 6343 | 163.50 € |



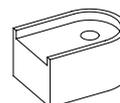
Wandsender „Smooove 1 O/C RTS“, Funksteuerung (zusätzlich)
Wall transmitter “Smooove 1 O/C RTS”, wireless (additional)

| | |
|------|---------|
| 6340 | 62.50 € |
|------|---------|



Befestigungswinkel, links u. rechts zur seitlichen Befestigung
Fastening bracket, left and right, for side attachment

| | | |
|-----|------|---------|
| A P | 6330 | 20.50 € |
|-----|------|---------|



Unterlage für Endstück Klapp-ladenantrieb, Paar
Support for end piece of window shutter drive, pair

| | | |
|---|------|---------|
| P | 6220 | 18.22 € |
|---|------|---------|

INFO

Zu verwenden bei überstehenden Lamellen
For use with overlapping slats

MATERIAL WERKSTOFF MATERIAL

A Aluminium Aluminium **G** Aluminiumdruckguss Aluminium die casting
Z Zinkdruckguss Zinc die casting **E** Edelstahl Stainless steel **K** Kunststoff Plastic

M Messing Brass

OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH

B Blank Bright **P** Pulverbeschichtet Powder-coated **S** Schwarz Black **W** Weiß White
T Transparent beschichtet Transparent coating **X** Eloxiert Anodised

V Verzinkt Galvanised

| | | | | | | |
|---|---|-----------------------------|--|--|------------------------------|---------------------|
| MATERIAL WERKSTOFF MATERIAL | | M Messing Brass | OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH | | V Verzinkt Galvanised | |
| A Aluminium Aluminium | G Aluminiumdruckguss Aluminium die casting | | B Blank Bright | P Pulverbeschichtet Powder-coated | S Schwarz Black | W Weiß White |
| Z Zinkdruckguss Zinc die casting | E Edelstahl Stainless steel | K Kunststoff Plastic | T Transparent beschichtet Transparent coating | X Eloxiert Anodised | | |

| | | | | |
|------------|-----------------|----------------------------|------------------------------|-----|
| Klappläden | Window shutters | Anschlagschemen | Stop schemes | 9 |
| | | Beschlagpakete | Hardware packages | 13 |
| | | Feststehende Lamellen | Fixed slats | 21 |
| | | Bewegliche Lamellen | Moving slats | 37 |
| | | Geschlossene Modelle | Closed models | 51 |
| | | Isolierende Modelle | Insulating models | 73 |
| | | Sonderformen und Optionen | Special shapes and options | 85 |
| | | Vormontage | Pre-installation | 99 |
| | | Beschläge | Fittings | 109 |
| | | Zubehör | Accessories | 119 |
| | | Montagerahmen / Zargen | Installation frames / frames | 139 |
| | | Motorisierung und Antriebe | Motorisation and drives | 165 |
| | | Diverses | Miscellaneous | 171 |

A

B

C

D

E

F

G

H

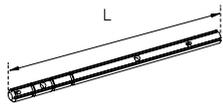
I

J

K

L

M



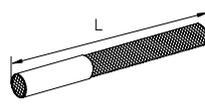
Klebe-Beschlägeträger thermisch getrennt, M10

Glue hardware carrier thermally insulated, M10

| | | |
|--------|-------------|---------|
| 240 mm | 4670 | 16.15 € |
| 280 mm | 4671 | 16.98 € |
| 320 mm | 4672 | 17.39 € |

INFO

- Gesamtgewicht je Anschlagseite max. 20 kg
- Beschlägeträger mind. 120 mm ins Mauerwerk einkleben
- Schutzmanschette bei geringerer Isolationsstärke ggf. auf den Isolierbereich kürzen
- Total weight per stop side max. 20 kg
- Glue hardware carrier at least 120 mm into wall
- Glue hardware carrier at least 120 mm into wall



Siebhülse (Stahlgeflecht)

Ø 23 mm mit Schutzmanschette im ISO-Bereich

Screen sleeve (steel mesh)

Ø 23 mm with protective sleeve in insulated area

Für Isolation
For insulation

| | | |
|---------------------|-------------|--------|
| 240 mm (ISO 120 mm) | 4524 | 5.97 € |
| 280 mm (ISO 140 mm) | 4527 | 6.94 € |
| 320 mm (ISO 160 mm) | 4531 | 8.91 € |

INFO

- Gesamtgewicht je Anschlagseite max. 20 kg
- Beschlägeträger mind. 120 mm ins Mauerwerk einkleben
- Schutzmanschette bei geringerer Isolationsstärke ggf. auf den Isolierbereich kürzen
- Total weight per stop side max. 20 kg
- Glue hardware carrier at least 120 mm into wall
- Cut protective sleeve to insulation area, if required, to reduce insulation thickness



Beschlägeträger, Schaft
Aluminium, mit Dübel, Gewinde
verzinkt, M 10-Innengewinde

Hardware carrier, shank
aluminium, with dowel, female
thread M 10, galvanised

Für Isolation
For insulation

| | | |
|--------|------|---------|
| 65 mm | 4165 | 10.10 € |
| 85 mm | 4185 | 10.54 € |
| 105 mm | 4105 | 11.14 € |
| 125 mm | 4125 | 12.12 € |



Beschlägeträger mit Dübel,
Isolation bis 60 mm

Hardware carrier with dowel,
insulation up to 60 mm

4030 10.10 €

INFO

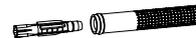
- Ausschließlich für Montage von Jalousie-
stangen!
- Exclusively for installing blind rods!



Gewindehülse für Kloben und Rück-
halter, 14/80 mm, Gewinde M 10

Threaded sleeve for bracket and
shutter catch, 14/80 mm, thread
M 10

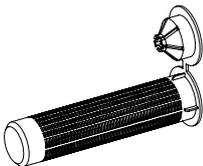
4408 1.71 €



Gewindehülse für Jalousiestangen,
14/80 mm, mit Innendübel

Threaded sleeve for blind rods,
14/80 mm, with inside dowel

4708 3.17 €



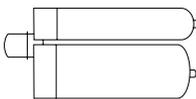
Siebhülse (Plastik) 20/85 mm,
mit Zentrierdeckel

Screen sleeve (plastic) 20/85 mm,
with mounting plate

4508 1.62 €



M



HILTI-Injektionsmörtel, HIT-HY
50 / 330 ml / 2D

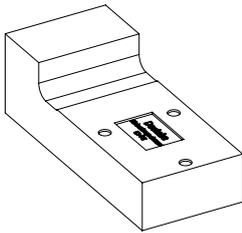
HILTI injection mortar, HIT-HY
50 / 330 ml / 2D

4450 45.79 €

I Verzinkte Teile sind rost-geschützt, nicht rostfrei und daher von der Garantie ausgeschlossen. Galvanised parts are protected against rust, but may not be rust-free and therefore not included in the guarantee.

MATERIAL WERKSTOFF MATERIAL Messing Brass OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH Verzinkt Galvanised
 Aluminium Aluminium Aluminiumdruckguss Aluminium die casting Blank Bright Pulverbeschichtet Powder-coated Schwarz Black Weiß White
 Zinkdruckguss Zinc die casting Edelstahl Stainless steel Kunststoff Plastic Transparent beschichtet Transparent coating Eloxiert Anodised

Dosteba-Einlagen / Dosteba inserts



Klobentragelement K1-PH, mit Schraubdübel

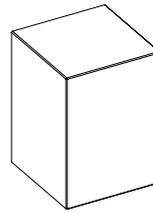
Nutzfläche 105 × 45 mm

Bracket support element K1-PH, with screw dowel

Usable area 105 × 45 mm

ISO-Stärke
ISO thickness

| | | |
|--------|--------|---------|
| 100 mm | 004210 | 70.80 € |
| 120 mm | 004212 | 72.87 € |
| 140 mm | 004214 | 74.94 € |
| 160 mm | 004216 | 77.01 € |
| 180 mm | 004218 | 79.08 € |
| 200 mm | 004220 | 81.15 € |
| 220 mm | 004222 | 83.22 € |
| 240 mm | 004224 | 85.29 € |
| 260 mm | 004226 | 87.36 € |
| 280 mm | 004228 | 89.43 € |
| 300 mm | 004230 | 91.50 € |



Montagequader Quadroline – EPS für Rückhaltesysteme und als Druckunterlage verwendbar

Größe 150 × 100 mm

Nutzfläche 130 × 80 mm

Installation cube, Quadroline – EPS for shutter catch systems and as pressure bearing

Size 150 × 100 mm

Usable area 130 × 80 mm

| | | |
|--------|--------|---------|
| 100 mm | 004110 | 27.74 € |
| 120 mm | 004112 | 29.61 € |
| 140 mm | 004114 | 31.26 € |
| 160 mm | 004116 | 36.02 € |
| 180 mm | 004118 | 37.68 € |
| 200 mm | 004120 | 39.33 € |
| 220 mm | 004122 | 40.99 € |
| 240 mm | 004124 | 42.65 € |
| 260 mm | 004126 | 44.30 € |
| 280 mm | 004128 | 45.96 € |
| 300 mm | 004130 | 47.61 € |

INFO

Anwendungen:

- wärmebrückenfreie Fremdmontage in Wärmedämmverbundsysteme
- gleichzeitig mit dem Kleben der Dämmplatten setzen
- Untergrund: Mauerwerk, Beton

Beschreibung:

- fäulnisbeständiger FCKW-freier PU-Hartschaumstoff (Polyurethan)
- eingeschäumte Stahlplatte zum kraftschlüssigen Verschrauben mit dem Untergrund
- es besteht keine metallische Verbindung zwischen der Stahl- und Aluplatte
- Brandverhalten nach DIN 4102: B2 (normalentflammbare Baustoffe)
- eingeschäumte Aluplatte für die Verschraubung des Montageobjekts
- Wärmeleitfähigkeit PU: 0,04 W/mK

Applications:

- Thermally insulated third-party assembly in composite thermal insulation systems
- Set at the same time as when the insulating panels are glued
- Substrate: wall/concrete

Description:

- Resistant to decay, CFC-free PU polyurethane
- Padded steel plate for force-fit connection to the substrate
- There is no metal connection between the steel and the aluminium plate
- Fire behaviour in accordance with DIN 4102: B2 (materials of normal flammability)
- Padded aluminium sheet for bolting to installation object
- Thermal conductivity PU: 0.04 W/mK

INFO

Anwendungen:

- wärmebrückenfreie Fremdmontage in Wärmedämmverbundsysteme
- gleichzeitig mit dem Kleben der Dämmplatten setzen
- Untergrund: Mauerwerk, Beton

Beschreibung:

- Formgeschäumter Quader aus EPS mit hohem Raumgewicht
- Wärmeleitfähigkeit EPS: 0,046 W/mK
- Brandverhalten nach DIN 4102: B2 (normalentflammbare Baustoffe)

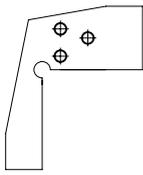
Applications:

- Thermally insulated third-party assembly in composite thermal insulation systems
- Set at the same time as when the insulating panels are glued
- Substrate: wall/concrete

Description:

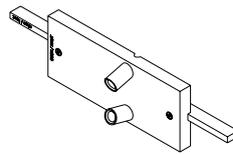
- Moulded building block made of EPS with high volume weight
- Thermal conductivity EPS: 0.046 W/mK
- Fire behaviour in accordance with DIN 4102: B2 (materials of normal flammability)

EHRET-Montagelehre / EHRET installation template



**Kloben-Einstellehre für
Klebmontage**
Bracket adjustment gauge for
glue installation

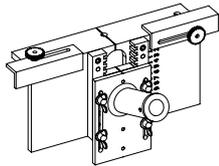
0655 82.37 €



Bohrlehre Schraubkloben
Drilling template screw bracket

Montageart 1-3
Installation types 1-3 0607 243.56 €

Montageart 4
Installation type 4 0616 264.02 €

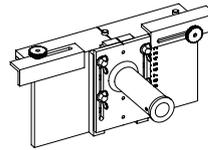


**Universalbohrlehre 20°,
verstellbar, Isolation/Mauerwerk;
Ø 14, 20, 25 mm**

Universal drilling template 20°,
adjustable, insulation/wall;
Ø 14, 20, 25 mm

0657 581.47 €

Bohrlehreeinsatz 90°
Drilling template bit 90° 0658 387.09 €

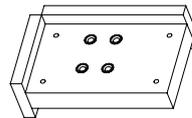


**Universalbohrlehren 90°,
verstellbar, Isolation/Mauerwerk;
Ø 14, 20, 25 mm**

Universal drilling templates 90°,
adjustable, insulation/wall;
Ø 14, 20, 25 mm

0659 581.47 €

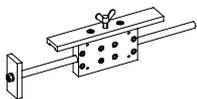
Bohrlehreeinsatz 20°
Drilling template bit 20° 0651 387.09 €



Bohrlehre Ladenanschlag
Drilling template shutter stop

0605 159.03 €

M



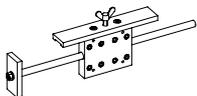
Bohrlehre Scharniere
(Art.-Nr.: 5150, 5151)
Drilling template hinges
(art. no.: 5150, 5151)

0606 185.85 €



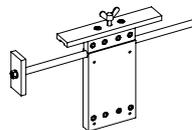
Bohrlehre Handgriff / Tubtaraniete
Drilling template handle / Tubtara
rivet

0603 218.33 €



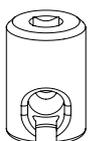
Scharnierlehre, franz. Scharnier
Hinge template, French hinge

0613 198.53 €



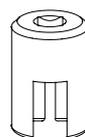
Scharnierlehre DIJON, ISO
Hinge template DIJON, ISO

0614 198.53 €



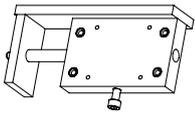
Eindrehwerkzeug für Kloben
Screw-in tool for bracket

0609 95.89 €



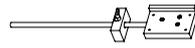
Eindrehwerkzeug für Ladenhalter
Screw-in tool for shutter support

0610 76.14 €



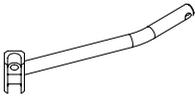
Bohrlehre Ladenriegel
Drilling template for shutter bar

0602 201.41 €



Bohrlehre Ladenverschluss
Drilling template for shutter closure

0604 175.64 €



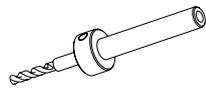
Richtschlüssel für Kloben
Directional key for brackets

0608 95.89 €



Richtschlüssel für Bänder
Directional key for hinges

0615 95.89 €



Bohreraufnahme mit Inbusschlüssel und 1x HSS Kurzbohrer Ø 4,2 mm
Drill bit holder with Allen key and 1x HSS drill Ø 4.2 mm

0700 23.54 €



HSS-Spiralbohrer kurz Ø 4,2 mm, VE=10 Stk.

HSS spiral drill bit, short Ø 4.2 mm, sales unit=10 pcs.

0742 25.24 €

Bohrlehren für MACO Beschläge / Drilling templates for MACO hardware

Bohrlehre für Ladenhalter
Drilling template for shutter support

17700 57.55 €

Markierungslehre Ladenhalter für Türen

Marking template shutter support for doors

17701 9.83 €

Bohrlehre Rustico für getrennten Anschlag
Drilling template Rustico for separate stop

17702 84.15 €

Bohrlehre Rustico für Komfort-Ladenhalter

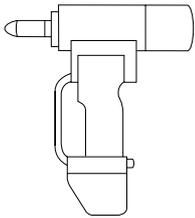
Drilling template Rustico for comfort shutter support

17703 9.83 €

Bohrlehre für Innenöffner
Drilling template for inside opener

17704 77.90 €

Elektro-Werkzeuge / Electric tools

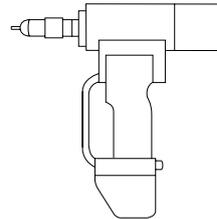


AccuBird, elektro-mechanisches Blindnietgerät
AccuBird, electro-mechanical blind riveter

660 1257.37 €

INFO

bestehend aus:
 • 1 Schnellwechsel-Akku 12 V
 • 1 Schnellladegerät 12 V
 • 1 Stahlblechkoffer
 Comprising:
 • 1 quick-change battery 12 V
 • 1 quick charger 12 V
 • 1 steel plate case



FireBird, elektro-mechanisches Setgerät für Tubtaranieten
FireBird, electro-mechanical set device for Tubtara rivets

670 1960.94 €

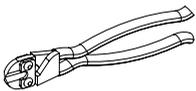
INFO

bestehend aus:
 • 1 Schnellwechsel-Akku 12 V
 • 1 Schnellladegerät 12 V
 • 1 Stahlblechkoffer
 Comprising:
 • 1 quick-change battery 12 V
 • 1 quick charger 12 V
 • 1 steel plate case

Ersatz-Akku (AccuBird / FireBird)
Replacement battery (AccuBird / FireBird)

661 181.03 €

Werkzeuge / Tools



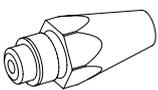
Spezial-Zange zum Ablängen von Anziehschlingen, verstellbar
Special pliers for cutting pull hook to length, adjustable

9500 71.43 €



6-Kant Schraubendreher mit Kugelkopf 2,5mm; für Art. 5503, 5501, 5400
Hex screwdriver with spherical head 2.5mm; for art. 5503, 5501, 5400

9501 7.57 €

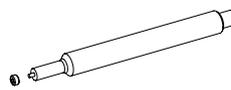


662 / 10001

Verlängertes Mundstück
Extended mouthpiece

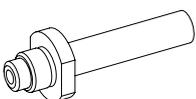
Für Handnietzange
For rivet pliers

| | | |
|--------------|-------|---------|
| M8 | 10001 | 6.55 € |
| M8, Ambiente | 10041 | 12.97 € |



Werkzeug zum Einschlagen von Sicherungsbolzen
Tool to hammer in locking pins

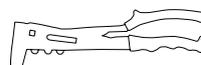
5109 10.26 €



663 / 10041

Für AccuBird
For AccuBird

| | | |
|---------------|-----|---------|
| M10 | 662 | 9.11 € |
| M10, Ambiente | 663 | 12.96 € |



Handnietzange für
Hand rivet pliers for

| | | |
|---|-------|----------|
| Nietverbindungen Riveted connections | 10003 | 102.53 € |
| Tubtaranieten Tubtara rivets | 10004 | 160.73 € |

Pflegemittel / Care products



Ausbesserungsfarbe 12 ml
in RAL-Farben, nicht Perl-,
Metallic- oder Leuchtfarben
Touch-up paint 12 ml
in RAL colours, not pearl,
metallic or luminous colours

5000 6.90 €

INFO

- Standardfarben werden als Nasslack, restliche Farben als Pulver geliefert.
- Standard paints are supplied in the form of wet paint, other paints are supplied in powder form.

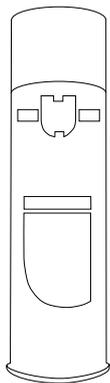


Ausbesserungsfarbe 1 kg (0,75 l)
in RAL-Farben, nicht Perl-,
Metallic- oder Leuchtfarben
Touch-up paint 1 kg (0.75 l)
in RAL colours, not pearl,
metallic or luminous colours

5004 38.62 €

INFO

- Standardfarben werden als Nasslack, restliche Farben als Pulver geliefert.
- Standard paints are supplied in the form of wet paint, other paints are supplied in powder form.

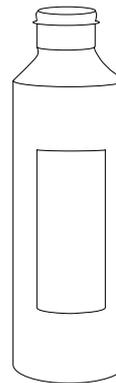


Oberflächenreiniger 500 ml,
Aerosoldose
Cleaning spray 500 ml, aerosol can

19100 22.83 €

INFO

- löst Fett, Öl, Silikonreste, Klebeband, Folienkleber, Etiketten, ...
- empfohlen bei der Klappladenmontage
- Dissolves grease, oil, silicone residues, adhesive tape, film adhesive, labels...
- Recommended for installing window shutters

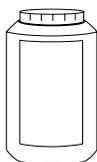


Reinigungsmittel 500 ml
Cleaning agent 500 ml

19101 9.93 €

INFO

- für pulverbeschichtete Aluminium-Fensterläden
- empfohlen für Endverbraucher
- For powder-coated aluminium window shutters
- Recommended for end consumers

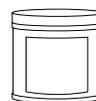


Reinigungspolitur, 1 kg
Cleaning polish, 1 kg

19102 48.71 €

INFO

- Nur für Feinstruktur matt (FSM) geeignet
- Zur Bearbeitung kleiner oberflächlicher Kratzer
- Suitable for fine structure matt (FSM) only
- For handling small superficial scratches



Reinigungswatte, Dose 190g
Cleaning cotton, tin 190g

105014 13.60 €

INFO

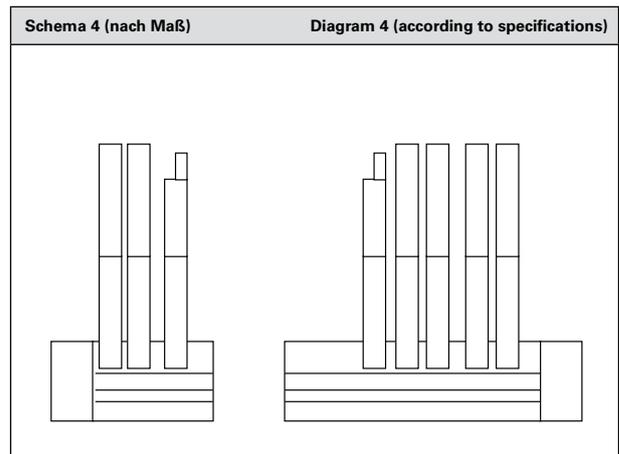
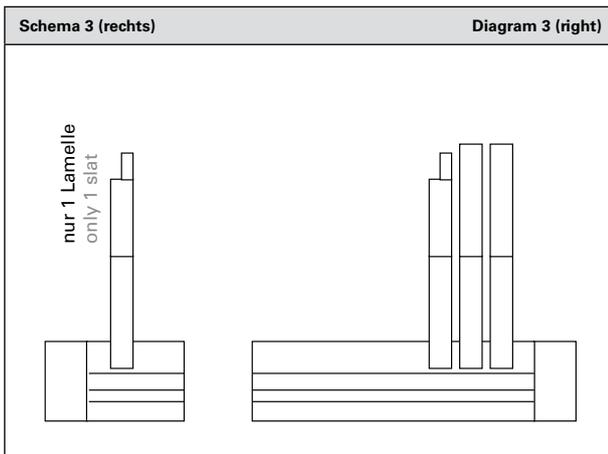
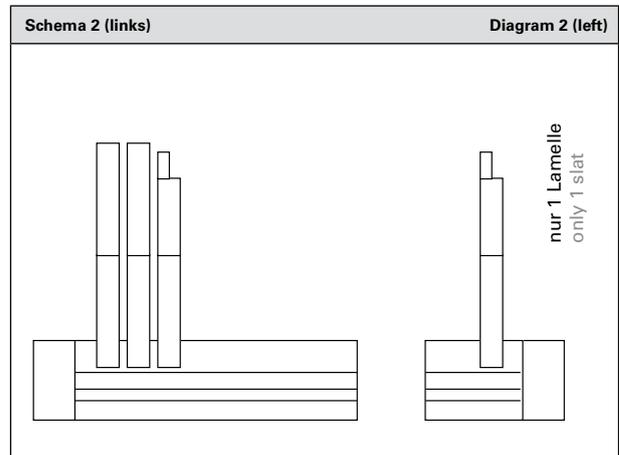
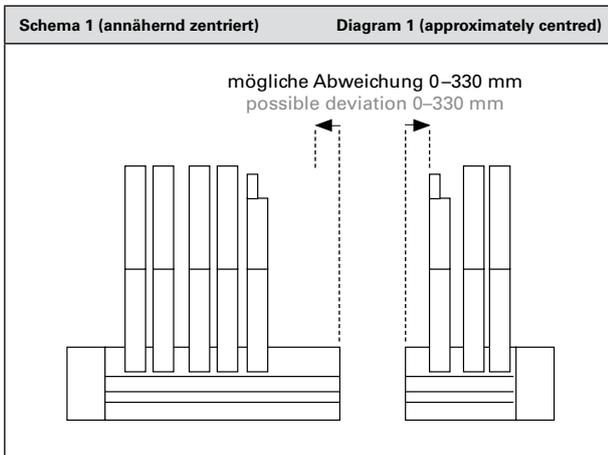
- Artikel wird ab 01.01.2016 nicht mehr angeboten!
- Nur für Feinstruktur matt (FSM) geeignet
- Zur Bearbeitung kleiner oberflächlicher Kratzer
- Article will no longer be available as from 01.01.2016
- Suitable for fine structure matt (FSM) only
- For handling small superficial scratches

| | | | |
|----------------------------------|-------------------|----------------------|-----|
| Faltladen Folding shutter | Aufteilungsschema | Distribution diagram | 181 |
| | PROVENCE | PROVENCE | 182 |
| | Optionen | Options | 184 |

Aufteilungsschemen Distribution diagrams

Beispiele / Examples

Ansicht immer von innen!
 View is always from the inside!

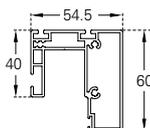


A

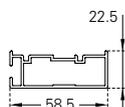
PROVENCE



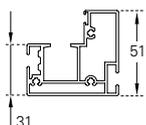
Rahmenprofile
Frame profiles



oben
top



seitlich
on the side



unten
bottom



Zweihandaussteller
Two-handed openers

| | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 |
|------|-----|-----|-----|-----|------|------|------|------|------|
| 600 | 325 | 348 | 368 | 384 | 402 | 417 | 439 | 455 | 477 |
| 700 | 338 | 363 | 383 | 401 | 419 | 436 | 459 | 477 | 500 |
| 800 | 350 | 376 | 398 | 417 | 437 | 455 | 479 | 498 | 523 |
| 900 | 363 | 390 | 413 | 433 | 455 | 474 | 499 | 519 | 545 |
| 1000 | 375 | 405 | 429 | 450 | 473 | 493 | 519 | 541 | 569 |
| 1100 | 388 | 418 | 444 | 467 | 491 | 512 | 540 | 562 | 591 |
| 1200 | 402 | 432 | 459 | 482 | 508 | 531 | 560 | 584 | 614 |
| 1300 | 414 | 447 | 474 | 499 | 525 | 550 | 580 | 605 | 636 |
| 1400 | 427 | 460 | 490 | 516 | 543 | 569 | 600 | 626 | 659 |
| 1500 | 439 | 474 | 504 | 532 | 561 | 587 | 620 | 648 | 681 |
| 1600 | 452 | 488 | 520 | 549 | 579 | 606 | 641 | 669 | 704 |
| 1700 | 465 | 502 | 535 | 565 | 597 | 625 | 661 | 690 | 727 |
| 1800 | 477 | 516 | 551 | 581 | 614 | 644 | 681 | 712 | 749 |
| 1900 | 490 | 530 | 565 | 598 | 632 | 663 | 701 | 733 | 772 |
| 2000 | 503 | 544 | 581 | 615 | 649 | 682 | 721 | 755 | 794 |
| 2100 | 516 | 558 | 596 | 630 | 667 | 701 | 742 | 776 | 817 |
| 2200 | 529 | 572 | 611 | 647 | 685 | 720 | 762 | 797 | 839 |
| 2300 | 541 | 586 | 626 | 664 | 703 | 739 | 782 | 819 | 863 |
| 2400 | 554 | 600 | 641 | 680 | 720 | 758 | 802 | 840 | 885 |
| 2500 | 566 | 614 | 657 | 697 | 738 | 776 | 822 | 861 | 908 |

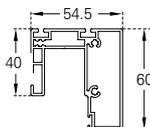
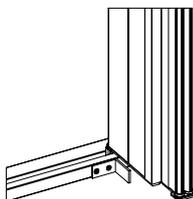
Elementbreite in mm
Element width in mm

Elementhöhe in mm
Element height in mm

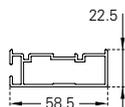
Luftschlitze
Air vents

| | | | | | | | | | |
|------|----|----|----|----|----|----|----|----|----|
| 8610 | 23 | 23 | 46 | 46 | 46 | 46 | 71 | 71 | 71 |
| 8611 | 29 | 29 | 54 | 54 | 54 | 54 | 85 | 85 | 85 |

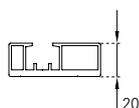
Rahmenprofil, barrierefrei
Frame profile, barrier-free



oben
top



seitlich
on the side



unten
bottom



Zweihandaussteller
Two-handed openers

| | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 |
|------|-----|-----|-----|-----|------|------|------|------|------|
| 600 | 369 | 398 | 423 | 444 | 467 | 487 | 513 | 535 | 562 |
| 700 | 389 | 419 | 446 | 469 | 493 | 515 | 543 | 566 | 596 |
| 800 | 408 | 440 | 468 | 493 | 519 | 543 | 574 | 599 | 630 |
| 900 | 427 | 461 | 491 | 518 | 546 | 572 | 604 | 632 | 664 |
| 1000 | 447 | 482 | 514 | 543 | 573 | 600 | 635 | 663 | 698 |
| 1100 | 466 | 503 | 537 | 567 | 600 | 628 | 665 | 696 | 732 |
| 1200 | 486 | 524 | 560 | 593 | 626 | 658 | 696 | 728 | 766 |
| 1300 | 504 | 546 | 583 | 618 | 654 | 686 | 726 | 760 | 801 |
| 1400 | 523 | 567 | 606 | 642 | 680 | 714 | 756 | 792 | 834 |
| 1500 | 543 | 588 | 629 | 667 | 706 | 743 | 787 | 825 | 869 |
| 1600 | 562 | 609 | 653 | 692 | 733 | 771 | 817 | 857 | 902 |
| 1700 | 582 | 630 | 676 | 717 | 760 | 800 | 848 | 889 | 936 |
| 1800 | 601 | 651 | 699 | 742 | 787 | 829 | 878 | 921 | 971 |
| 1900 | 620 | 674 | 721 | 767 | 813 | 857 | 908 | 954 | 1004 |
| 2000 | 640 | 695 | 744 | 791 | 839 | 886 | 938 | 985 | 1039 |
| 2100 | 659 | 716 | 767 | 816 | 867 | 914 | 969 | 1018 | 1073 |
| 2200 | 679 | 737 | 790 | 842 | 893 | 942 | 999 | 1050 | 1107 |
| 2300 | 698 | 758 | 813 | 866 | 920 | 971 | 1029 | 1082 | 1141 |
| 2400 | 718 | 779 | 836 | 891 | 947 | 1000 | 1060 | 1115 | 1174 |
| 2500 | 737 | 801 | 859 | 916 | 974 | 1028 | 1090 | 1147 | 1209 |

Elementbreite in mm
Element width in mm

Elementhöhe in mm
Element height in mm

Luftschlitze
Air vents

| | | | | | | | | | |
|------|----|----|----|----|----|----|----|----|----|
| 8610 | 23 | 23 | 46 | 46 | 46 | 46 | 71 | 71 | 71 |
| 8611 | 29 | 29 | 54 | 54 | 54 | 54 | 85 | 85 | 85 |

| | Einhandaussteller One-handed openers | | | | | | | | | | | | | | | |
|-------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 | 3000 |
| 600 | 490 | 511 | 527 | 548 | 570 | 581 | 604 | 620 | 637 | 653 | 674 | 690 | 713 | 726 | 746 | 763 |
| 700 | 514 | 535 | 553 | 575 | 599 | 612 | 635 | 653 | 670 | 688 | 710 | 727 | 752 | 766 | 788 | 805 |
| 800 | 537 | 560 | 579 | 602 | 627 | 642 | 666 | 685 | 704 | 723 | 746 | 765 | 791 | 806 | 829 | 848 |
| 900 | 561 | 585 | 605 | 630 | 656 | 671 | 698 | 718 | 738 | 758 | 783 | 803 | 830 | 846 | 870 | 890 |
| 1000 | 585 | 611 | 632 | 658 | 685 | 702 | 729 | 750 | 771 | 793 | 818 | 839 | 869 | 886 | 911 | 933 |
| 1100 | 608 | 636 | 659 | 685 | 713 | 732 | 761 | 783 | 806 | 828 | 855 | 877 | 908 | 926 | 953 | 975 |
| 1200 | 633 | 661 | 685 | 713 | 743 | 762 | 791 | 815 | 839 | 863 | 891 | 915 | 945 | 965 | 994 | 1017 |
| 1300 | 657 | 686 | 711 | 741 | 771 | 792 | 823 | 848 | 873 | 898 | 928 | 953 | 984 | 1005 | 1035 | 1060 |
| 1400 | 681 | 711 | 738 | 768 | 801 | 822 | 854 | 880 | 907 | 933 | 963 | 990 | 1023 | 1045 | 1076 | 1102 |
| 1500 | 704 | 737 | 764 | 795 | 829 | 852 | 886 | 913 | 940 | 968 | 1000 | 1027 | 1062 | 1085 | 1117 | 1145 |
| 1600 | 728 | 762 | 790 | 824 | 858 | 882 | 917 | 945 | 974 | 1003 | 1036 | 1065 | 1101 | 1125 | 1159 | 1187 |
| 1700 | 752 | 787 | 816 | 851 | 887 | 912 | 948 | 978 | 1008 | 1038 | 1073 | 1102 | 1140 | 1165 | 1200 | 1230 |
| 1800 | 776 | 811 | 843 | 878 | 915 | 942 | 979 | 1011 | 1042 | 1073 | 1108 | 1140 | 1179 | 1205 | 1241 | 1272 |
| 1900 | 800 | 836 | 869 | 906 | 944 | 973 | 1011 | 1043 | 1076 | 1108 | 1145 | 1178 | 1217 | 1245 | 1281 | 1314 |
| 2000 | 824 | 861 | 895 | 934 | 973 | 1002 | 1042 | 1076 | 1109 | 1143 | 1181 | 1214 | 1256 | 1285 | 1323 | 1357 |
| 2100 | 848 | 887 | 921 | 961 | 1002 | 1033 | 1074 | 1108 | 1143 | 1178 | 1217 | 1252 | 1294 | 1325 | 1364 | 1399 |
| 2200 | 872 | 912 | 949 | 989 | 1031 | 1062 | 1105 | 1141 | 1176 | 1213 | 1253 | 1290 | 1333 | 1365 | 1405 | 1442 |
| 2300 | 895 | 937 | 975 | 1016 | 1060 | 1092 | 1136 | 1173 | 1211 | 1248 | 1290 | 1328 | 1372 | 1405 | 1446 | 1484 |
| 2400 | 919 | 962 | 1001 | 1044 | 1088 | 1123 | 1167 | 1206 | 1245 | 1284 | 1327 | 1364 | 1411 | 1445 | 1488 | 1526 |
| 2500 | 943 | 987 | 1027 | 1071 | 1118 | 1152 | 1199 | 1238 | 1278 | 1318 | 1362 | 1402 | 1449 | 1485 | 1529 | 1569 |

Elementhöhe in mm
Element height in mm

Elementbreite in mm
Element width in mm

| | | | | | | | | | | | | | | | | |
|-------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 8610 | 71 | 82 | 82 | 94 | 107 | 107 | 118 | 118 | 128 | 128 | 142 | 142 | 152 | 152 | 163 | 163 |
| 8611 | 85 | 98 | 98 | 112 | 126 | 126 | 142 | 142 | 155 | 155 | 170 | 170 | 184 | 184 | 197 | 0 |

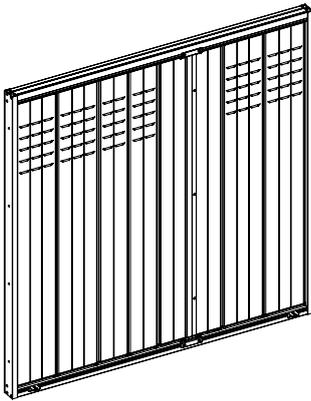
| | Einhandaussteller One-handed openers | | | | | | | | | | | | | | | |
|-------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 | 3000 |
| 600 | 579 | 604 | 626 | 651 | 679 | 696 | 723 | 744 | 766 | 787 | 812 | 834 | 863 | 879 | 906 | 927 |
| 700 | 615 | 642 | 665 | 693 | 722 | 741 | 770 | 793 | 816 | 839 | 867 | 890 | 920 | 939 | 966 | 990 |
| 800 | 650 | 680 | 705 | 734 | 765 | 786 | 816 | 842 | 867 | 892 | 921 | 947 | 978 | 999 | 1028 | 1054 |
| 900 | 686 | 718 | 745 | 775 | 809 | 831 | 864 | 891 | 917 | 944 | 976 | 1002 | 1037 | 1059 | 1090 | 1117 |
| 1000 | 723 | 755 | 784 | 817 | 852 | 876 | 911 | 939 | 968 | 997 | 1029 | 1059 | 1095 | 1119 | 1151 | 1181 |
| 1100 | 759 | 793 | 824 | 858 | 895 | 921 | 957 | 989 | 1019 | 1049 | 1084 | 1115 | 1152 | 1179 | 1213 | 1244 |
| 1200 | 794 | 831 | 864 | 900 | 938 | 966 | 1004 | 1037 | 1069 | 1102 | 1139 | 1170 | 1210 | 1238 | 1275 | 1308 |
| 1300 | 830 | 869 | 902 | 941 | 981 | 1012 | 1052 | 1085 | 1120 | 1154 | 1192 | 1227 | 1269 | 1298 | 1337 | 1371 |
| 1400 | 866 | 907 | 942 | 983 | 1025 | 1057 | 1099 | 1134 | 1170 | 1207 | 1247 | 1283 | 1327 | 1358 | 1398 | 1435 |
| 1500 | 901 | 944 | 982 | 1024 | 1068 | 1102 | 1145 | 1183 | 1221 | 1259 | 1301 | 1339 | 1384 | 1418 | 1460 | 1498 |
| 1600 | 938 | 982 | 1021 | 1065 | 1111 | 1147 | 1192 | 1232 | 1272 | 1311 | 1356 | 1395 | 1442 | 1478 | 1522 | 1562 |
| 1700 | 974 | 1020 | 1061 | 1107 | 1154 | 1191 | 1239 | 1280 | 1322 | 1363 | 1410 | 1452 | 1500 | 1538 | 1584 | 1625 |
| 1800 | 1010 | 1057 | 1101 | 1148 | 1197 | 1236 | 1286 | 1330 | 1373 | 1416 | 1464 | 1507 | 1559 | 1598 | 1645 | 1689 |
| 1900 | 1045 | 1095 | 1141 | 1190 | 1241 | 1281 | 1333 | 1378 | 1423 | 1468 | 1519 | 1564 | 1616 | 1657 | 1707 | 1752 |
| 2000 | 1081 | 1132 | 1180 | 1231 | 1285 | 1327 | 1380 | 1427 | 1474 | 1521 | 1572 | 1620 | 1674 | 1717 | 1769 | 1816 |
| 2100 | 1117 | 1170 | 1220 | 1273 | 1328 | 1372 | 1426 | 1476 | 1525 | 1573 | 1627 | 1676 | 1732 | 1777 | 1830 | 1879 |
| 2200 | 1153 | 1208 | 1259 | 1314 | 1371 | 1417 | 1474 | 1525 | 1575 | 1626 | 1682 | 1732 | 1790 | 1837 | 1892 | 1943 |
| 2300 | 1189 | 1246 | 1298 | 1356 | 1414 | 1462 | 1521 | 1573 | 1626 | 1678 | 1735 | 1789 | 1848 | 1897 | 1953 | 2006 |
| 2400 | 1225 | 1284 | 1338 | 1397 | 1457 | 1507 | 1568 | 1622 | 1676 | 1731 | 1790 | 1844 | 1906 | 1957 | 2015 | 2069 |
| 2500 | 1260 | 1321 | 1378 | 1438 | 1501 | 1552 | 1614 | 1671 | 1727 | 1783 | 1844 | 1901 | 1964 | 2016 | 2076 | 2133 |

Elementhöhe in mm
Element height in mm

Elementbreite in mm
Element width in mm

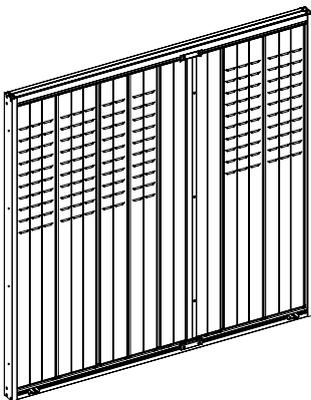
| | | | | | | | | | | | | | | | | |
|-------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 8610 | 71 | 82 | 82 | 94 | 107 | 107 | 118 | 118 | 128 | 128 | 142 | 142 | 152 | 152 | 163 | 163 |
| 8611 | 85 | 98 | 98 | 112 | 126 | 126 | 142 | 142 | 155 | 155 | 170 | 170 | 184 | 184 | 197 | 0 |

Luftschlitze / Air vents



5 Luftschlitze, beidseitig eingeprägt
Raster 50 mm, nach 100 mm von oben beginnend
5 air vents, embossed on both sides
Grid 50 mm, beginning from the top following a clearance of 100 mm

8610 22.77 €



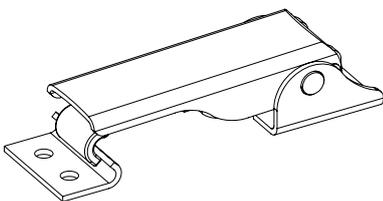
10 Luftschlitze, beidseitig eingeprägt
Raster 50 mm, nach 100 mm von oben beginnend
10 air vents, embossed on both sides
Grid 50 mm, beginning from the top following a clearance of 100 mm

8611 27.95 €

INFO

- Option Luftschlitze lieferbar ab einer Faltladenhöhe von min. 900 mm.
- Preise siehe Preistabellen PROVENCE!
- Luftschlitze nicht möglich in 60er und 100er Lamelle
- Luftschlitze in den Mittellamellen nur möglich bei technischer Machbarkeit
- The air vent option is available for folding shutters at a height of at least 900 mm.
- For prices see the PROVENCE price tables!
- Air vents not possible in slats 60 and 100
- Air vents in middle slats only possible if technically feasible

Verriegelungen / Locks



Faltladen-Mittelverschluss (zusätzlich)
Folding shutters centre closure (additional)

E P 8725 20.47 €

MATERIAL WERKSTOFF MATERIAL

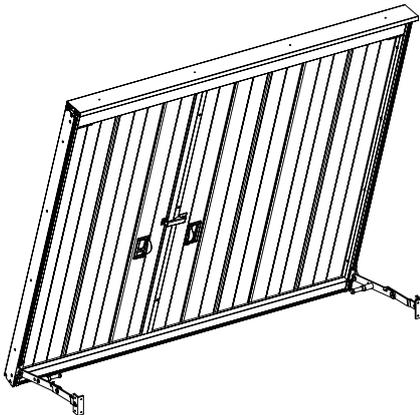
A Aluminium Aluminium **G** Aluminiumdruckguss Aluminium die casting
Z Zinkdruckguss Zinc die casting **E** Edelstahl Stainless steel **K** Kunststoff Plastic

M Messing Brass

OBERFLÄCHENBESCHAFFENHEIT SURFACE FINISH **V** Verzinkt Galvanised

B Blank Bright **P** Pulverbeschichtet Powder-coated **S** Schwarz Black **W** Weiß White
T Transparent beschichtet Transparent coating **X** Eloxiert Anodised

Aussteller / Openers



Zweihandaussteller

2 Scharniere beschichtet, 2 Ausstellerscheren beschichtet, zur Selbstmontage, Befestigungslöcher teilweise vorgebohrt.

Breite: min. 600 mm, max. 1500 mm

Höhe: min. 800 mm, max. 1500 mm

Two-handed openers

2 hinges, coated, 2 opener scissors, coated, for self-installation, mounting holes partially pre-drilled.

Width: min. 600 mm, max. 1500 mm

Height: min. 800 mm, max. 1500 mm

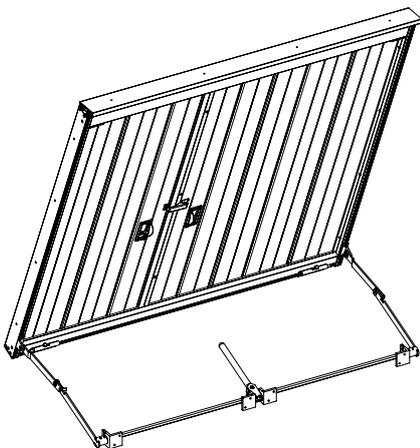
| | | |
|----------|------|----------|
| PROVENCE | 8641 | 239.04 € |
|----------|------|----------|

INFO

- Ermittlung von Fertigmaßen
Empfehlung Abzugsmaße PROVENCE:
Breite: -14 mm; Höhe: -30 mm

INFO

- Calculating the finished dimensions
Recommended deduction clearances for PROVENCE:
Width: -14 mm; Height: -30 mm



Einhandaussteller

2 Scharniere beschichtet, 2 Ausstellerscheren beschichtet, Verbindungsstange und Einhandhebel beschichtet, zur Selbstmontage, Befestigungslöcher teilweise vorgebohrt.

Breite: min. 600 mm, max. 2000 mm

Höhe: min. 800 mm, max. 1500 mm

One-handed openers

2 hinges, coated, 2 opener scissors, coated, connecting rod and one-handed lever, coated, for self-installation, mounting holes partially pre-drilled.

Width: min. 600 mm, max. 2000 mm

Height: min. 800 mm, max. 1500 mm

| | | |
|----------|------|----------|
| PROVENCE | 8642 | 426.78 € |
|----------|------|----------|

INFO

- Ermittlung von Fertigmaßen
Empfehlung Abzugsmaße PROVENCE:
Breite: -14 mm; Höhe: -30 mm

INFO

- Calculating the finished dimensions
Recommended deduction clearances for PROVENCE:
Width: -14 mm; Height: -30 mm

A

HINWEISE UND GARANTIE

Gewährleistung

1. Allgemeines

EHRET GmbH übernimmt die Gewährleistung für Materialschäden, deren Ursachen im Trägermaterial, Beschichtungsstoff oder Verbund der beiden Stoffe liegen. Wetterbeständigkeit, Restglanz und Farbkonstanz entsprechen den Bestimmungen von GSB-International und QUALICOAT.

Darüber hinaus übernehmen wir für gelieferte Fensterläden die Garantie, dass

- die physikalischen Eigenschaften des Trägermaterials im Rahmen der jeweiligen DIN-Normen erhalten bleiben,
- der eingesetzte Beschichtungsstoff und das angewandte Beschichtungssystem für den vorgesehenen Produkteinsatz geeignet sind,
- durch normale, anwendungsspezifische Einflüsse, wie z. B. Witterungseinflüsse, keine Abblätterungen, Blasen und Risse an der Lackschicht entstehen, die zu Korrosion führen,
- Auskreidung, Farbton- und Glanzgradänderungen nicht zur Funktionsuntüchtigkeit der Produkte führen.

2. Gewährleistungsdauer

Die Gewährleistungsfrist richtet sich nach unseren Verkaufs- und Lieferbedingungen.

Die Garantiezeit wird auf die Dauer von 5 (fünf) Jahren festgesetzt. Sie beginnt mit dem Datum der Produktauslieferung.

3. Bestimmungsgemäßer Gebrauch

Eine Garantieübernahme wird grundsätzlich nur dann übernommen, wenn unsere Produkte bestimmungsgemäß und entsprechend den nachfolgenden Bedingungen eingesetzt werden.

a) Umwelteinflüsse

Bei Verwendung unserer Produkte unter Einwirkung besonderer Umwelteinflüsse, wie z. B. Seeklima, Salznebel, Streusalz oder Industrieanlagen etc., wird die Garantie i.S.d. Ziff. 1 nur unter der Bedingung übernommen, dass die Produkte zuvor unserer speziellen Vorbehandlung „Ocean Line plus“ (ausgenommen Beschläge) unterzogen wurden.

b) Reinigung

Die beschichteten Aluminiumteile müssen mindestens einmal im Jahr gereinigt werden, bei stärkerer Umweltbelastung entsprechend öfter. Von den beschichteten Aluminiumteilen Staub- und Schmutzablagerungen durch Abwaschen mit warmem Wasser entfernen, unter Zusatz neutraler Netzmittel, die Aluminium nicht angreifen (z. B. EHRET Reinigungsmittel, handelsübliche Geschirrspülmittel). Zum Reinigen einen weichen Schwamm oder ein Tuch verwenden. Ungeeignet sind saure und alkalische Reinigungsmittel. Außerdem sind mechanische Mittel mit Schleifwirkung zum Reinigen ungeeignet, da sie die Lackoberfläche beschädigen.

4. Gewährleistungs- und Garantiefumfang

Der Umfang der Garantie richtet sich nach unseren Verkaufs- und Lieferbedingungen.

Ehret GmbH übernimmt die Garantie für Materialschäden, die aus den unter Ziff. 1 beschriebenen Fehlern herrühren, wenn als Ursache eine mangelhafte Qualität des gelieferten Materials festgestellt wird. Unsere Haftung erstreckt sich hierbei auf die Kosten, die bei der Behebung des Schadens anfallen, jedoch max. bis zum Nettowert des ursprünglichen Auftrags. Alternativ kann Ehret GmbH kostenlosen Ersatz für die schadhafte Menge stellen. Es liegt in unserem Ermessen, ob der Schaden durch Ersatzlieferung oder Nacharbeit behoben wird. Im Falle einer Ersatzlieferung ist die schadhafte Menge uns zur Verfügung zu stellen. Wird zum Zeitpunkt der Reklamation aufgrund des technischen Fortschritts das ursprünglich verwendete Material nicht mehr hergestellt, dann gilt als Ersatz für die Verwendungsart ein gleichwertiges Produkt. Die Schadensmenge zur Behebung des Garantiefumfangs wird bei Reklamationsaufnahme bestimmt. Folgeschäden sind vom Garantiefumfang ausgeschlossen. Die Garantie für ersetztes oder nachbehandeltes Material beschränkt sich auf die Zeitspanne, die bis zum Erlöschen der ursprünglich gegebenen Garantie verbleibt. Der Garantiezeitraum verlängert sich somit durch eine etwaige Kostenerstattung, Ersatzlieferung oder Nachbesserung nicht.

5. Ausschluss der Garantie

Die Garantie wird in den folgenden Fällen nicht übernommen:

- wenn Fehler durch eine nicht fachgerechte Weiterverarbeitung oder unsachgemäße oder nicht bestimmungsgemäße Anwendung entstanden sind,
- wenn Schäden durch Verunreinigung, Nässe oder Schwitzwasser entstanden sind, die durch eine nicht fachgerechte Handhabung oder Lagerung, oder einen nicht fachgerechten Transport verursacht wurden,
- wenn Schäden durch Gewalteinwirkung entstanden sind,
- bei fehlender oder fehlerhafter Reinigung, wie unter Ziff. 3b) aufgeführt.

INFORMATION & GUARANTEE

Warranty

1. General

EHRET GmbH assumes the warranty for damages to materials caused by carrier materials, coating materials or a combination of both. Weather resistance, residual gloss and consistency of colour correspond to the terms and conditions of GSB International and QUALICOAT.

In addition, we assume the warranty for delivered shutters where

- the physical characteristics of the carrier material will be retained within the context of the respective DIN standard;
- the applied coating material and coating system are suitable for the intended use of the product;
- normal, application-specific influences, e.g. weather conditions, will not cause the coating of paint to peel, blister or crack, which would lead to corrosion;
- chalking, changes to the colour of the paint or degrees of brightness will not impair the functionality of the products.

2. Warranty & guarantee period

The warranty period is governed by our Terms of Sale and Delivery.

The warranty is limited to a period of 5 (five) years. It commences on the date on which the products are shipped.

3. Designated use

A guarantee can only be offered if our products are used for the purpose for which they are intended and in accordance with the following conditions.

a) Environmental factors

When using our products under certain environmental conditions, such as coastal climates, salt spray, road salt and industrial premises, etc., the guarantee as defined under paragraph 1 shall only be assumed on condition that the products (excluding fittings) have been subjected to special „Ocean Line Plus“ treatment in advance by us.

b) Cleaning

Clean coated aluminium parts at least once a year and more frequently in the event of enhanced environmental effects. Remove dust and dirt deposits from coated aluminium parts by washing them with warm water using added wetting agents that do not attack aluminium (such as EHRET cleaning agent or normal washing-up liquid). Use a soft sponge or cloth for cleaning. Acid and alkaline cleaning agents are not suitable. Mechanical cleaning using abrasive products is unsuitable because they damage the paint surface.

4. Scope of warranty and guarantee

The scope of the guarantee is governed by our Terms of Sale and Delivery.

Ehret GmbH provides a guarantee in respect of material damages resulting from the defects described under paragraph 1, providing that the defective quality of the material supplied can be identified as the cause of the defect. Our liability is restricted to the costs incurred in repairing any damage arising, but to no more than the value of the original order. Alternatively, Ehret GmbH may provide a free replacement of the defective goods. We shall decide, at our sole discretion, whether the damage is best rectified by a replacement delivery or the repair of delivered goods. In the event of a replacement delivery, the damaged goods must be returned to us. If, on the date of the complaint, the original material used is no longer manufactured due to technical progress, an equivalent replacement product will be chosen appropriate to the type of use. The amount of damage to be rectified under the scope of the guarantee shall be defined when the complaint is registered. Subsequent damage is not included within the scope of the guarantee. The guarantee for replaced or repaired materials is limited to the period of time that remains until the original guarantee expires. In any event, the guarantee period shall not be extended by reason of any compensation for damages, whether by replacement or repair.

5. Exclusion from the guarantee

The guarantee does not cover the following:

- if defects are due to improper further processing, improper use, or unintended use of the product;
- if damage is caused by pollution, moisture or condensation caused by improper handling or storage, or non-professional transportation;
- if damage occurs due to the use of force;
- if cleaning is not performed as described under paragraph 3b).

VERKAUFS- UND LIEFERBEDINGUNGEN

I. Geltung

1. Diese Verkaufs- und Lieferbedingungen gelten nur, wenn der Besteller Unternehmer (§ 14 BGB), eine juristische Person des öffentlichen Rechts oder ein öffentlich-rechtliches Sondervermögen ist. Es gelten ausschließlich unsere Verkaufs-, Liefer- und Montagebedingungen; entgegenstehende Einkaufsbedingungen des Kunden sind nur dann wirksam, wenn wir diese ausdrücklich schriftlich anerkennen. Allen Angeboten, Vereinbarungen, Aufträgen und Lieferungen liegen nachstehende Bedingungen zugrunde; sie werden durch Erteilung des Auftrages oder Annahme der Lieferung anerkannt. Abweichungen von diesen Bedingungen bedürfen der schriftlichen Vereinbarung. Mündliche Nebenabreden bedürfen der Schriftform; dies gilt insbesondere für mündliche Zusagen jedweder Art unserer Vertreter und unseres Personals. Bei telefonischen Bestellungen ist ausschließlich der Text der Auftragsbestätigung maßgebend.

II. Angebote, Auftragsausführung

1. Alle Angebote sind grundsätzlich freibleibend. Die Bestellung der Ware durch den Besteller gilt als verbindliches Vertragsangebot. Sofern sich aus der Bestellung nichts anderes ergibt, sind wir berechtigt, dieses Vertragsangebot innerhalb von 2 Wochen nach seinem Zugang bei uns anzunehmen.
2. Inhalt und Umfang unserer Lieferungen und Leistungen werden ausschließlich durch unsere Auftragsbestätigung bestimmt. Dies gilt auch, wenn die Auftragsbestätigung im Widerspruch zur schriftlichen oder telefonischen Bestellung steht und dieser nicht unverzüglich widersprochen wird.
3. Technische Änderungen sind uns auch nach Absendung der Auftragsbestätigung vorbehalten.

III. Lieferzeit

1. Die Lieferzeit wird individuell vereinbart bzw. von uns bei Annahme der Bestellung angegeben. Sofern dies nicht der Fall ist, beträgt die Lieferzeit 5 Wochen ab Vertragsschluss.
2. Betriebsstörungen, die durch höhere Gewalt, Aufruhr, Streik oder Aussperrung, Maschinenstörung oder Materialmangel seitens unserer Vorlieferanten entstehen, entheben uns für die Dauer der Behinderung von den eingegangenen Lieferverbindlichkeiten.
3. Wird bei Lieferverzug eine Nachfrist gesetzt, so darf diese nicht kürzer als vier Wochen sein. Nach Ablauf dieser Nachfrist ist dem Besteller der Rücktritt vom Vertrag möglich. Weitergehende Ansprüche wie Kostenübernahme oder Schadenersatz sind ausgeschlossen.

IV. Lieferung, Preise, Zahlungsbedingungen

1. Unsere Preise verstehen sich ab einem Auftragswert je Kommission von € 1.000,00 frei Haus des Kunden, unter € 1.000,00 gegen Berechnung eines pauschalen Frachtkostenanteils von € 25,00 je Kommission. Dies gilt für die Länder D, CH, A, F, B, NL, L (in allen Ländern jeweils nur Festland). Paketsendungen, Beschlagsendungen, Voraus- oder Nachlieferungen nur gegen Berechnung der eff. Transportkosten.
2. Ändern sich die für unsere Fertigung maßgeblichen Kostenelemente wie Werkstoffe, Löhne, Frachtsätze, Energiekosten, Steuern, Zölle usw., so behalten wir uns ausdrücklich eine Angleichung der Preise vor. Es gelten die bei Vertragsschluss aktuellen Preise.

3. Unsere Rechnungen sind innerhalb 30 Tagen nach Zugang netto zahlbar.
4. Mit Ablauf vorstehender Zahlungsfrist kommt der Besteller in Verzug. Der Kaufpreis ist während des Verzugs zum jeweils geltenden gesetzlichen Verzugszinssatz zu verzinsen. Wir behalten uns die Geltendmachung eines weitergehenden Verzugschadens vor.
5. Dem Besteller stehen Aufrechnungs- oder Zurückbehaltungsrechte nur insoweit zu, als sein Anspruch rechtskräftig festgestellt oder unbestritten ist.
6. Wir behalten uns das Recht vor, Teillieferungen zu leisten und bei Auslieferung getrennt zu berechnen.
7. Wird nach Abschluss des Vertrags erkennbar, dass unser Anspruch auf den Kaufpreis durch mangelnde Leistungsfähigkeit des Bestellers gefährdet wird (z.B. durch Antrag auf Eröffnung eines Insolvenzverfahrens), sind wir nach den gesetzlichen Vorschriften zur Leistungsverweigerung und – gegebenenfalls nach Fristsetzung – zum Rücktritt vom Vertrag berechtigt (§ 321 BGB). Bei Verträgen über die Herstellung unvertretbarer Sachen (Einzelanfertigungen), können wir den Rücktritt sofort erklären; die gesetzlichen Regelungen über die Entbehrlichkeit der Fristsetzung bleiben unberührt.
8. Scheckzahlungen werden unter dem Vorbehalt der Einlösung gutgeschrieben. Wechselzahlungen werden nur mit unserer vorherigen Zustimmung angenommen. Erklären wir uns mit Wechselzahlungen einverstanden, so erfolgt die Hereinnahme von Wechseln nur erfüllungshalber. Alle hierdurch anfallenden Kosten und Spesen einschließlich anfallender Diskontspesen gehen zu Lasten des Kunden.

V. Gefahrenübergang, Transport, Verpackung

1. Standardverpackungen (einfache Kartons) sind frei. Besondere Verpackung unter Verwendung von Paletten, Verpackung für Speditions- oder Schiffsversand etc. gegen Berechnung der Mehrkosten.
2. Die Gefahr eines zufälligen Untergangs oder einer zufälligen Verschlechterung der Ware geht auf den Kunden über, sobald wir die Ware dem Spediteur oder der Bundesbahn übergeben haben. Bei Transport mit unseren Fahrzeugen tritt der Gefahrenübergang ein, sobald das Fahrzeug das Werksgelände des Kunden oder den Bestimmungsort erreicht hat. Die Abladung geschieht auf Risiko und Gefahr des Kunden.

VI. Mängelrügen, Gewährleistung

1. Ist die gelieferte Sache mangelhaft, können wir zunächst wählen, ob wir Nacherfüllung durch Beseitigung des Mangels (Nachbesserung) oder durch Lieferung einer mangelfreien Sache (Ersatzlieferung) leisten. Unser Recht, die Nacherfüllung unter den gesetzlichen Voraussetzungen zu verweigern, bleibt unberührt.
2. Die Mängelansprüche des Bestellers setzen voraus, dass er seinen gesetzlichen Untersuchungs- und Rügepflichten (§§ 377, 381 HGB) nachgekommen ist. Zeigt sich bei der Untersuchung oder später ein Mangel, so ist uns hiervon unverzüglich schriftlich Anzeige zu machen. Als unverzüglich gilt die Anzeige, wenn sie innerhalb von acht Tagen erfolgt, wobei die Fristwahrung den rechtzeitigen Zugang der Anzeige bei uns voraussetzt. Unabhängig von dieser Untersuchungs- und Rügepflicht hat der Käufer offensichtliche Mängel (einschließlich Falsch- und Minderlieferung) innerhalb von acht Tagen ab Lieferung schriftlich

anzuzeigen, wobei die Fristwahrung den rechtzeitigen Zugang der Anzeige bei uns voraussetzt. Versäumt der Käufer die ordnungsgemäße Untersuchung und/oder Mängelanzeige, ist unsere Haftung für den nicht angezeigten Mangel ausgeschlossen.

3. Kosten, die durch unberechtigte Mängelrügen entstehen, gehen zu Lasten des Bestellers.
4. Wenn die Nacherfüllung fehlgeschlagen ist oder eine für die Nacherfüllung vom Besteller zu setzende angemessene Frist erfolglos abgelaufen oder nach den gesetzlichen Vorschriften entbehrlich ist, kann der Besteller vom Vertrag zurücktreten oder den Preis mindern. Bei einem unerheblichen Mangel besteht jedoch kein Rücktrittsrecht. Ansprüche des Bestellers auf Schadensersatz bzw. Ersatz vergeblicher Aufwendungen bestehen nur nach Maßgabe der nachfolgenden Regelungen und sind im Übrigen ausgeschlossen.

VII. Sonstige Haftung

1. Soweit sich aus diesen Verkaufs- und Lieferbedingungen einschließlich der nachfolgenden Bestimmungen nichts anderes ergibt, haften wir bei einer Verletzung von vertraglichen und außervertraglichen Pflichten nach den einschlägigen gesetzlichen Vorschriften.
2. Auf Schadensersatz haften wir – gleich aus welchem Rechtsgrund – bei Vorsatz und grober Fahrlässigkeit. Bei einfacher Fahrlässigkeit haften wir nur
 - a) für Schäden aus der Verletzung des Lebens, des Körpers oder der Gesundheit,
 - b) für Schäden aus der Verletzung einer wesentlichen Vertragspflicht (Verpflichtung, deren Erfüllung die ordnungsgemäße Durchführung des Vertrags überhaupt erst ermöglicht und auf deren Einhaltung der Vertragspartner regelmäßig vertraut und vertrauen darf); in diesem Fall ist unsere Haftung jedoch auf den Ersatz des vorhersehbaren, typischerweise eintretenden Schadens begrenzt.
3. Die sich aus VII. Ziff.2 ergebenden Haftungsbeschränkungen gelten nicht, soweit wir einen Mangel arglistig verschwiegen oder eine Garantie für die Beschaffenheit der Ware übernommen haben. Das Gleiche gilt für Ansprüche des Bestellers nach dem Produkthaftungsgesetz.
4. Wegen einer Pflichtverletzung, die nicht in einem Mangel besteht, kann der Besteller nur zurücktreten oder kündigen, wenn wir die Pflichtverletzung zu vertreten haben. Ein freies Kündigungsrecht des Bestellers (insbesondere gem. §§ 651, 649 BGB) wird ausgeschlossen. Im Übrigen gelten die gesetzlichen Voraussetzungen und Rechtsfolgen.

VIII. Verjährung

1. Abweichend von § 438 Abs. 1 Nr. 3 BGB beträgt die allgemeine Verjährungsfrist für Ansprüche aus Sach- und Rechtsmängeln ein Jahr ab Ablieferung. Soweit eine Abnahme vereinbart ist, beginnt die Verjährung mit der Abnahme.
2. Handelt es sich bei der Ware jedoch um ein Bauwerk oder eine Sache, die entsprechend ihrer üblichen Verwendungsweise für ein Bauwerk verwendet worden ist und dessen Mangelhaftigkeit verursacht hat (Baustoff), beträgt die Verjährungsfrist gemäß der gesetzlichen Regelung 5 Jahre ab Ablieferung (§ 438 Abs. 1 Nr. 2 BGB). Unberührt bleiben auch gesetzliche Sonderregelungen für dingliche Herausgabeansprüche Dritter (§ 438 Abs. 1 Nr. 1 BGB), bei Arglist des Verkäufers (§ 438 Abs. 3 BGB) und für Ansprüche im Lieferantenregress bei Endlieferung an einen Verbraucher (§ 479 BGB).

3. Die vorstehenden Verjährungsfristen des Kaufrechts gelten auch für vertragliche und außervertragliche Schadensersatzansprüche des Bestellers, die auf einem Mangel der Ware beruhen, es sei denn die Anwendung der regelmäßigen gesetzlichen Verjährung (§§ 195, 199 BGB) würde im Einzelfall zu einer kürzeren Verjährung führen. Die Verjährungsfristen des Produkthaftungsgesetzes bleiben in jedem Fall unberührt. Ansonsten gelten für Schadensersatzansprüche des Bestellers Ziff. VII. ausschließlich die gesetzlichen Verjährungsfristen.

IX. Eigentumsvorbehalt

1. Wir behalten uns das Eigentum an der Ware bis zum Eingang aller Zahlungen aus abgeschlossenen Lieferverträgen mit dem Kunden vor.
2. Der Kunde tritt alle Kaufpreisforderungen gegen seine Abnehmer aus dem Verkauf der ihm unter Eigentumsvorbehalt gelieferten Ware an uns ab. Zur Einziehung dieser abgetretenen Forderungen ist der Kunde ermächtigt. Unberührt hiervon bleibt unsere Befugnis, die Forderungen selbst einzuziehen. Der Kunde verpflichtet sich, auf Verlangen die abgetretenen Forderungen und deren Schuldner bekannt zu geben, alle zum Einzug erforderlichen Angaben zu machen sowie den Schuldnern die Abtretung schriftlich mitzuteilen.
3. Der Kunde ist nicht berechtigt, die ihm unter Eigentumsvorbehalt gelieferten Waren zu verpfänden oder Dritten zur Sicherheit zu übereignen. Pfändungen oder sonstige Eingriffe durch Dritte hat der Besteller uns unverzüglich mitzuteilen.
4. Bei vertragswidrigem Verhalten des Kunden, insbesondere bei Zahlungsverzug, ist dieser verpflichtet, uns auf Anforderung die Ware zurückzugeben. Darin liegt nur dann ein Rücktritt, wenn wir dies ausdrücklich erklären.
5. Wird die Ware, welche unter Eigentumsvorbehalt steht, gemeinsam mit anderen Waren, die uns nicht gehören, verkauft, so gilt die Forderung des Kunden gegen seinen Abnehmer in Höhe der zwischen uns und dem Kunden vereinbarten Kaufpreisforderung mit Abschluss des jeweiligen Liefervertrages als an uns abgetreten.
6. Geht unser Vorbehaltseigentum wegen Einbaus durch den Kunden unter, tritt der Kunde die ihm insoweit zustehenden Ersatzansprüche gegen seinen Abnehmer in Höhe unserer Kaufpreisforderung jeweils unverzüglich an uns ab. Diese Verpflichtung zur Abtretung gilt auch dann, wenn der Einbau im Auftrag des Kunden durch unser Personal vorgenommen wird.
7. Etwaige Sicherheiten werden wir freigeben, sofern die zu sichernden Forderungen um mehr als 20 % übersichert sind.

X. Erfüllungsort, Gerichtsstand, Vertragswirksamkeit

1. Erfüllungsort für Lieferungen und Zahlungen ist Sitz der EHRET GmbH.
2. Gerichtsstand für Klagen aus dem Liefervertrag, über dessen Entstehen und seine Wirksamkeit – auch für Scheck- und Wechselklagen – ist das für 77972 Mahlberg örtlich und sachlich zuständige Gericht. Wir sind jedoch auch berechtigt, Klage am allgemeinen Gerichtsstand des Bestellers zu erheben.
3. Die Unwirksamkeit einzelner Bestimmungen des Vertrages berührt nicht den Bestand des Vertrages im Übrigen.
4. Der Besteller kann Rechte aus diesem Vertrag nur mit unserer ausdrücklichen schriftlichen Zustimmung wirksam übertragen.
5. Der Vertrag untersteht deutschem Recht, unter Ausschluss internationalen Einheitsrechts, insbesondere des UN-Kaufrechts.

TERMS OF SALE AND DELIVERY

I. Validity

1. These Terms of Sale and Delivery are only valid if the customer is a company (Section 14 of the German Civil Code (BGB)), a legal person under public law or a special fund under public law. Only our terms of sale, delivery and installation shall apply; any contrary terms of purchase drawn up by the customer shall only be valid if expressly acknowledged by us in writing. All quotations, agreements, orders and deliveries are subject to the following conditions and shall be deemed to have been acknowledged by the placement an order or the acceptance of a delivery. Any deviations from these terms must be in writing. Any verbal additional agreements must be put down in writing; this applies in particular to verbal offers of any kind made by our representatives or employees. In the case of orders placed over the phone, only the wording of the order confirmation shall be definitive.

II. Offers, order execution

1. All offers are non-binding. The ordering of goods by the customer shall be considered a binding contractual offer. Unless stated otherwise in this order, we shall be entitled to accept this contractual offer within two weeks of receipt.
2. The nature and scope of our deliveries and services are defined solely by our order confirmation. This also applies if the order confirmation contradicts a written or telephone order and this is not immediately contradicted.
3. We reserve the right to make technical changes after the order confirmation has been dispatched.

III. Delivery period

1. The delivery period shall be individually agreed or specified by us upon acceptance of the order. Where this is not the case, the delivery period shall be five weeks from the date of the contract.
2. Disruptions to operations caused by acts of God, civil unrest, strike or lockout, machine malfunction or material shortages on the part of our suppliers shall absolve us for the duration of the hindrance from the delivery obligations entered into.
3. If another delivery deadline is defined in the event of delayed delivery, it must not be less than four weeks. After this deadline has passed, the customer shall be entitled to withdraw from the contract. No other claims, e.g. relating to reimbursement of costs or compensation, may be lodged against us.

IV. Delivery, prices, payment terms

1. For single orders worth €1,000.00 or more, delivery is free to the customer's premises. For orders under €1,000.00 a standard freight charge of €25.00 per single order shall apply. This shall apply on the mainlands of the following countries: D, CH, A, F, B, NL, and L. For the shipment of packages or fittings and advance or additional deliveries, delivery will only be made against payment of the actual shipping costs.
2. Should there be changes to key cost elements in production, e.g. materials, wages, freight rates, energy costs, taxes or customs duties, we expressly reserve the right to modify prices. Current prices at the date of contract shall apply.
3. Our invoices are payable within 30 days net of receipt.
4. After the above payment deadline, the customer shall be in default. In the event of default, the purchase price plus the applicable statutory in-

terest rate shall become payable. We reserve the right to claim further damages caused by default.

5. The customer shall have rights of set-off or retention only insofar as its claim is legally determined or undisputed.
6. We reserve the right to make part deliveries and to invoice separately upon delivery.
7. Should it become apparent after conclusion of the contract that our claim in respect of the purchase price is at risk because of a lack of ability to pay on the part of the customer (e.g. application to open insolvency proceedings), we shall be entitled – after giving a notice period, if required – to withdraw from the contract (within the meaning of Section 321 of the German Civil Code (BGB)). For contracts for the manufacture of unwarrantable goods (custom-made goods), we shall give notice of our immediate withdrawal; the statutory regulations regarding the dispensability of setting a notice period shall remain unaffected.
8. Payments by cheque shall be credited subject to redemption. Payments by bill of exchange will only be accepted by prior agreement. If we consent to this type of payment, bills of exchange will only be accepted on account of performance. All resultant costs and charges, including discount charges, shall be borne by the customer.

V. Risk transfer, transportation, packaging

1. Standard packaging (single boxes) is free of charge. Special packaging involving pallets, packaging for haulage or transport by sea etc. shall attract additional charges for the extra costs involved.
2. The risk of accidental loss or deterioration of the goods passes to the customer as soon as we hand over the goods to the shipper or the German National Railway. If the goods are transported in one of our vehicles, risk is transferred as soon as the vehicle enters the customer's premises or reaches its destination. Unloading takes place at the customer's own risk.

VI. Notifications of defects, warranty

1. If the delivered goods are defective, we may initially choose whether to remedy the defect (repair) or deliver goods free of defect (replacement). Our right to refuse to remedy the defect pursuant to statutory requirements remains unaffected.
2. The customer's claim for defects implies that it has fulfilled its commercially legal obligation to inspect the goods and give notice of defects within the meaning of Sections 377 and 381 of the German Commercial Code (HGB). If a defect becomes evident during inspection or later, notification must be given in writing immediately. Notification shall be deemed to be immediate if given within eight days and assumes timely receipt of such notification by us. Irrespective of its commercially legal obligation to inspect the goods and give notice of defects, the customer shall give notice in writing of obvious defects (including incorrect or short delivery) within eight days of delivery, assuming timely receipt of such notification by us. Should the customer fail to conduct a proper inspection of the goods or give proper notification of defects, we shall not be held liable for defects for which no notification was given.
3. Costs resulting from unjustified notifications of defects will be borne by the customer.
4. If remedying the defect has proven ineffective or the period fixed by the customer within which to remedy the defect has expired or is rendered unnecessary in terms of statutory provisions, the customer may

withdraw from the contract or reduce the price. There is no right of rescission, however, in respect of minor defects. Claims for damages or reimbursement of expenses incurred to no avail by the customer shall be restricted to the following stipulations and shall otherwise be excluded.

VII. Other liability

1. Unless stated otherwise in these Terms of Sale and Delivery or the provisions below, we shall be liable for any breach of contractual or non-contractual obligation under the applicable statutory provisions.
2. We shall be liable to offer compensation for damage, on whatever legal grounds, in the event of wilful intent and gross negligence. In the event of simple negligence, we shall only be held liable
 - a) for damage arising from loss of life, personal injury or damage to health,
 - b) for damage arising from breach of an essential contractual obligation (any obligation whose fulfilment enables the proper execution of the contract and on whose compliance the customer regularly relies or may rely); in this event, our liability shall be limited to compensation of foreseeable, typical loss.
3. The limitations of liability stipulated in clause VII, paragraph 2 shall not apply in the event that we have fraudulently concealed a defect or have furnished a warranty for the quality of the goods. The same shall apply to claims by the customer pursuant to the German Product Liability Act.
4. On the grounds of a breach of obligation which does not consist in a defect, the customer may only withdraw from or terminate the contract if we are responsible for such breach of obligation. An unrestricted right of termination of the customer (particularly in accordance with Sections 651 and 649 of the German Civil Code (BGB)) is excluded. Moreover, statutory provisions and legal consequences shall apply.

VIII. Statute of limitations

1. Notwithstanding Section 438 para. 1 item 3 of the German Civil Code (BGB), the general statute of limitations applicable to claims arising from quality and legal defects shall be one year after delivery. If acceptance has been agreed, the limitation period begins with the acceptance.
2. In respect of goods used in construction or a product which has been used for its usual purpose in relation to construction, however, and has caused defects in construction, the statute of limitations pursuant to the statutory provisions under Section 438 para. 1 item 2 of the German Civil Code (BGB) shall be five years after delivery. The special statutory requirements in respect of collateral rights of third parties (Section 438 para. 1 item 1 of the German Civil Code (BGB)), or in the event of bad faith on the part of the seller (Section 438 para. 3 BGB) as well as claims in respect of supplier recourse in the event of delivery to an end consumer (Section 479 BGB) shall remain unaffected.
3. The foregoing statutes of limitations applicable to sales law shall also apply to contractual and non-contractual claims for damages asserted by the customer based on the receipt of defective goods, unless the application of the regular statute of limitations (Sections 195 and 199 of the German Civil Code (BGB)) would result in shortening the period of limitation in any particular case. In any event, the statutes of limitations as provided for in the German Product Liability Act shall remain unaffected. In all other cases, paragraph VII shall apply to claims for damages made by

the customer, notwithstanding the statutes of limitations as provided for by law.

IX. Retention of title

1. We retain title to the goods until all payments arising from concluded delivery contracts with the customer are received.
2. The customer cedes to us all purchase price claims on its customer from the sale of the goods supplied subject to retention of title. The customer shall be entitled to collect these ceded claims. This shall not affect our entitlement to collect the claims ourselves. The customer undertakes to notify us on demand of the ceded claims and the relevant debtors, to provide us with all the information necessary for collection and to notify the debtors in writing of the cession of the claims.
3. The customer is not entitled to pledge the goods supplied, subject to retention of title, or to assign them as security to third parties. The customer must notify us immediately of any seizure or other interventions by third parties.
4. If the customer contravenes the contract, in particular by falling into payment arrears, the customer shall be obliged to return the goods to us on demand. This shall only constitute a withdrawal from the contract if expressly declared by us.
5. If the goods subject to retention of title are sold together with other goods that do not belong to us, the customer's claim towards the purchaser amounting to the purchase price agreed between us and the customer shall be considered, upon conclusion of the delivery contract, as ceded to us.
6. If our retained goods cease to exist because they have been installed by the customer, the customer shall immediately cede to us any corresponding claims for compensation against the purchaser to the amount of our purchase price claim. This obligation shall also apply if installation is performed by our employees on behalf of the customer.
7. We shall release any securities if the secured claims are oversecured by more than 20%.

X. Place of fulfilment, place of jurisdiction, effectiveness

1. The place of fulfilment for deliveries and payments shall be the headquarters of EHRET GmbH.
2. The place of jurisdiction for disputes arising from the delivery contract, its creation and its effectiveness, including disputes relating to cheques and bills of exchange, is the competent court for 77972 Mahlberg, Germany. We are, however, entitled to institute legal proceedings at the general place of jurisdiction of the customer.
3. The ineffectiveness of individual clauses in the contract shall not affect the rest of the contract.
4. The customer may only effectively transfer rights arising from this contract with our express written consent.
5. The contract is subject to German law, to the exclusion of international uniform law, and the UN Convention on the International Sale of Goods in particular.

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