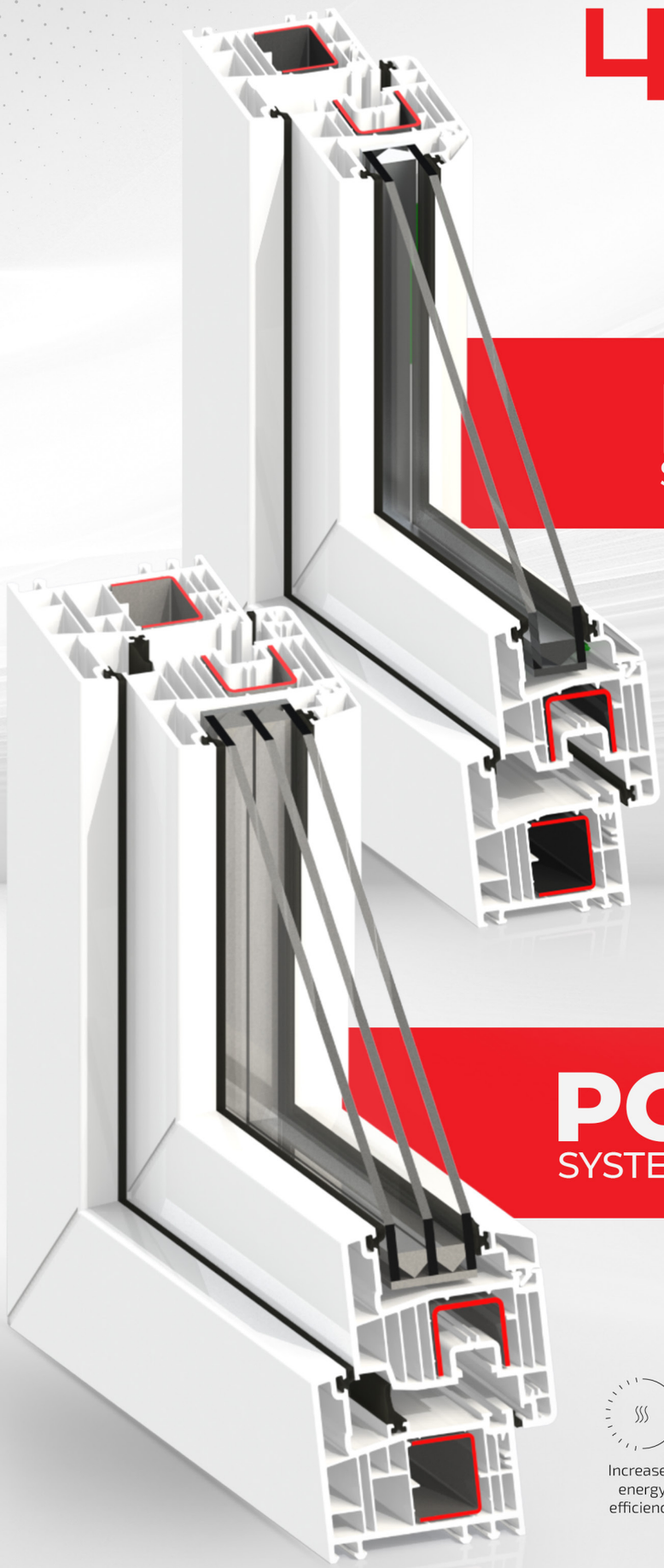
TECHNICAL CATALOGUE

LB. Profile

# PCD70
SYSTEM



# PCD82
SYSTEM

- Increased energy efficiency
- Excellent sound insulation
- Solved thermal insulation
- High degree of safety protection

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Increaded energy efficiency

Excellent sound insulation

Solved thermal insulation

High degree of safety protection

# PCD70

SYSTEM WITH **5 CHAMBERS** AND INSTALLATION DEPTH OF

**70mm**

# System Description

**Material characteristics - LB profiles** are made of resistant polyvinyl chloride and are manufactured and shaped according to DIN 7748-PVC, EDLP, 076-25-23 and they fall under quality assurance according to RAL-GZ 716/1.

**PCD-AD System** - five-chamber system without middle gasket with installation depth of 70 mm.

**PCD-MD System** - five-chamber system with a middle gasket with an installation depth of 70 mm.

**Storage and transport -** During storage, transport, manufacture and assembly, care should be taken not to cause scratches etc**.**

**Manufacture -** Window profiles are cut with a saw with an angular position of 45°. Special attention should be paid to adequate drainage on the bottom window frame. For a double-glazed window, four 5x25 mm slots are required, while a single-glazed window requires two 5x25 mm slots.

**Welding –** a butt welding machine is used for welding with a plate that heats the profiles with its two sides. The temperature measured on the profile heating plate must be 245-250°C.

**Reinforcements -** PVC profiles must be reinforced for certain loads. Cold-rolled steel profiles complying with the following standards are used for reinforcement:

- EN 10.162:2003 (dimensions and shape tolerance), quality DX 51 D+Z (material 1.0226),
- EN 10.346:2009 (technical delivery conditions),
- EN 10.143:2006 (dimensions and shape tolerance), galvanised Z140,
- EN 10.346:2009 (tables 11 and 12).

Steel reinforcements are fastened with screws or rivets. From the corners or oblique cuts, the first screw for fastening the reinforcement should be at a distance of approx. 150-200 mm. The distance between the screws should be approx. 300 mm.

**Installation of fittings –** any of standard fittings can be used for LB profiles. The locking points are at 700-900 mm.

**Glazing** - it is possible to install 13-60 mm thick glass. The installation of glass distance pads must comply with the regulations.

# Manufacturing Guidelines

**Storage and transport -** LB profiles with intermediate PCD-MD gasket and without intermediate PCD-AD gasket are packed in pallets and covered with protective films. The quantities of profiles in pallets can be found in the price list, and the length of the PVC profile is 6 m and 6 cm. Profiles should be stored in pallets or on shelves with a solid bottom to prevent loosening and twisting of the profile. The profiles must not be pulled from the pallet or from the shelves so as to avoid scratching the profiles. Profile processing and storage is always done at the same temperature. The temperature must be at least 15° C. The profiles must have the same working temperature as the room in which they are processed. If this is not possible, it is necessary to store the profiles in the working room for at least 8-10 hours before processing. The profiles must be protected from the solar radiation, even if they are behind glass.

**Profile cutting -** It is very important that sharp tools are used when cutting profiles, otherwise during cutting, excessive heat will be generated on the saw and friction, which will have a negative effect on the quality of the cut and weld. When cutting, the profile must be firmly attached to the saw and it is necessary to avoid shearing of the profile during cutting.

**Milling and drilling** - Immediately after cutting to the desired dimensions, the profiles are marked and sent for further processing. All milling and drilling of holes in the profiles are to be done before welding.

Steps during milling and drilling:

- Milling of frames from outside and inside, 5x25 mm slot,
- Milling and boring holes for the lock,
- Milling of the wings on the upper and lower sides, 5x25 mm slot, and in the upper part of the sides one hole with a diameter of 6 mm to equalize the amount of steam in the chambers and outside.

**Placement of reinforcement -** PVC profiles must be reinforced with steel reinforcements during loading. The reinforcements inserted into the profiles are cut at an angle of 90°. The length of the reinforcement must be determined so that during welding the reinforcement does not interfere with the PVC profile welding process. The steel reinforcements must be shorter by 10-15 mm than the inner edge of the profile itself.

Fastening of steel reinforcements is to be done with screws, and from corners or oblique cuts, the first screw for fastening reinforcements should be at a distance of approx. 150-200 mm. The distance between the screws should be approx. 300 mm. Appropriate reinforcements for certain profiles are listed in the technical characteristics of the system.

**Welding -** a butt welding machine is used for welding, with a plate that heats the profiles with its both sides. The profile heating plate is coated with Teflon. The welding temperature measured on the profile heating plate is 245-250° C. Welding machines must have appropriate tools adapted to the shape of the profile, so as to be able to weld them.

A weld can be said to be good if it is light in colour. A yellow or even brown weld (with white profiles) indicates that the welding temperature is higher than allowed or that the welding time is longer than allowed, so these parameters need to be adjusted.

**Instructions for welding:**

1. Welding temperature 245-250° C,
2. Melting time approx. 30-40 sec,
3. Welding pressure 2-3 Bar,
4. Clamping pressure 6-7 Bar,
5. Cooling time 30-40 sec,
6. Do not allow cold air to enter the room where welding is performed,
7. Welded parts must be cleaned and strengthened,
8. The contact surfaces between the profiles must also be cleaned,
9. The profile melting plate must also be clean for further use,
10. If the protective film is damaged, it must be replaced.
11. Do a weld test once a day,
12. Check the angle of the welded profiles,
13. The welded frame should be cooled for 15 minutes.

**Cleaning of welded joints -** The market offers a large range of machines for automatic processing of welded joints. These machines clean welded joints and all channels that extend along the junction of two profiles. The copier and milling machine must be adapted to the profiles being processed. It is necessary to avoid hitting welded joints with a hammer or an iron, because this can cause invisible notches that later lead to cracks.

**Glazing** - It is possible to install 13-60 mm thick glass. The installation of glass distance pads must be done carefully and professionally. Glass sealing is to be carried out with suitable seals. The seal must be assembled and glued on the upper outer side or welded on the corners. The skirting seals are also to be cut at the corners.

**Glass distance pads -** Since glass does not have to take over the carrying function, glass distance pads have the following tasks:

- Distribute the weight of the glass in the frame,
- Permanent setting of the frame,
- Ensure window controllability,
- Prevent direct contact between the glass and the frame.

# Guidelines for the production of painted and coated PVC profiles

**Important** - With painted and coated window systems, for technical reasons, larger deviations in colour may appear than is the case with white profiles. It should be added that in the case of dark profiles, a small difference in the size of the colour may affect the level of gloss.

**Storage and transport** - It is necessary to pay attention to the following:
Damages (e.g. scratches, sanding marks, etc.) on painted and coated profiles are much clearer than on white profiles. Special attention should be paid to storage, transport and further production. Painted and coated profiles (i.e. profiles not yet processed) must not be stored in the open.

**Reinforcements -** All painted and coated profiles (frames and casements) must be reinforced, regardless of the size of the window. It is necessary to ensure that the casements have a reinforcement of at least 2.0 mm. Cold-rolled steel profiles with the following standards are used for reinforcement:

- EN 10.162:2003 (dimensions and shape tolerance), quality DX 51 D+Z (material 1.0226),
- EN 10.346:2009 (technical delivery conditions),
- EN 10.143:2006 (dimensions and shape tolerance), galvanised Z140,
- EN 10.346:2009 (tables 11 and 12).

**Openings for pressure equalisation in windows and doors made of painted and coated profiles -** In the case of window elements and door elements made of profiles (brown and white with decor), all external chambers (except the chamber with reinforcement) must have openings for equalising pressure to enable expansion of the heated air through all chambers. Four holes with a diameter of 06 mm installed on opposite sides are used as openings for pressure equalisation. These openings should be placed in the upper and lower sides of the window and face outwards (like a drain). Chambers that already have openings do not require additional holes (e.g. upper and lower cross pieces).

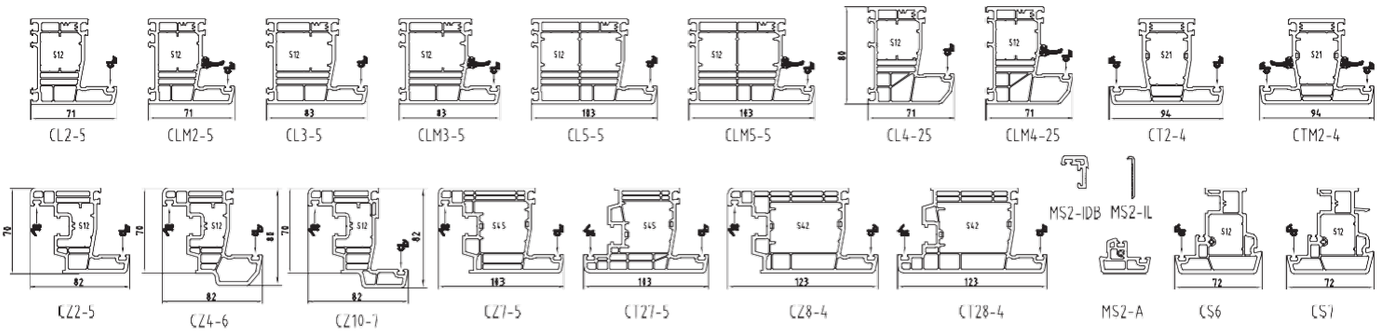
**Instructions to be followed -** During fastening (installation) the distance from the inside of the window frame for painted and coated windows should be at least 100-150 mm. However, the distance during fastening should not be greater than 700 mm. Since even small scratches and damages are visible on painted and coated surfaces, special care must be taken during installation to ensure that all plastic profiles are protected with film. The protective film must be removed immediately after installing the joinery.

LB. Profile

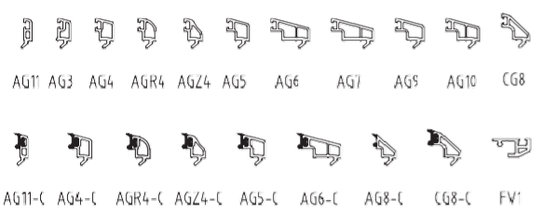
# PCD Concept

April 2019

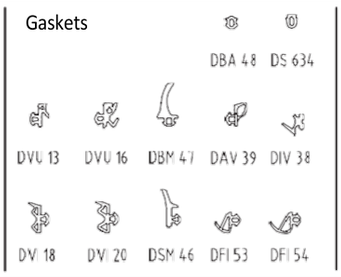
## Frames, casements and posts



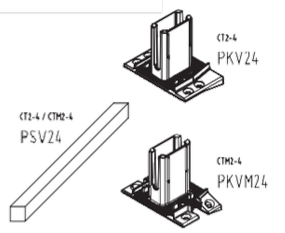

## Glass beads



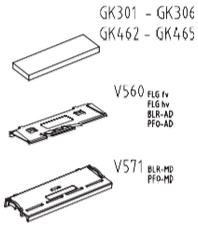

## Gaskets



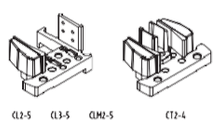

## Connectors



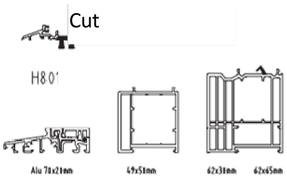

## Glazing sides

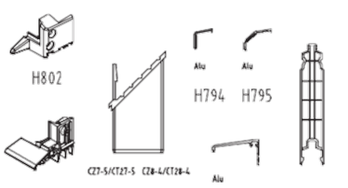



## Connectors at the front door




## Cut

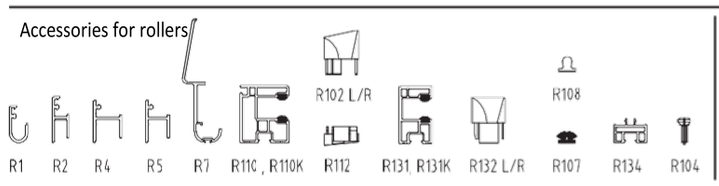



## Cut


## Fragments

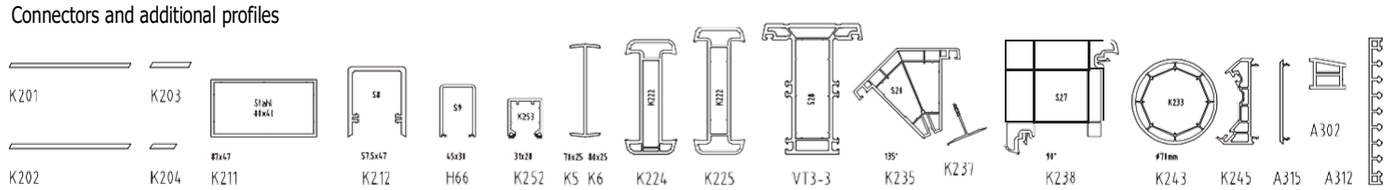

## Accessories for rollers

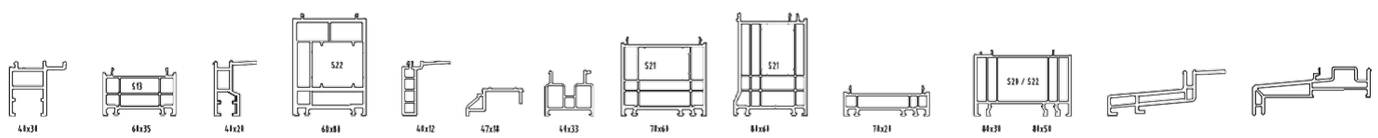


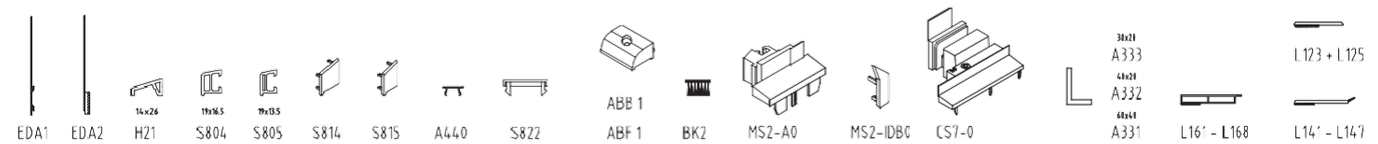

## Ornamental clutches


## Screws

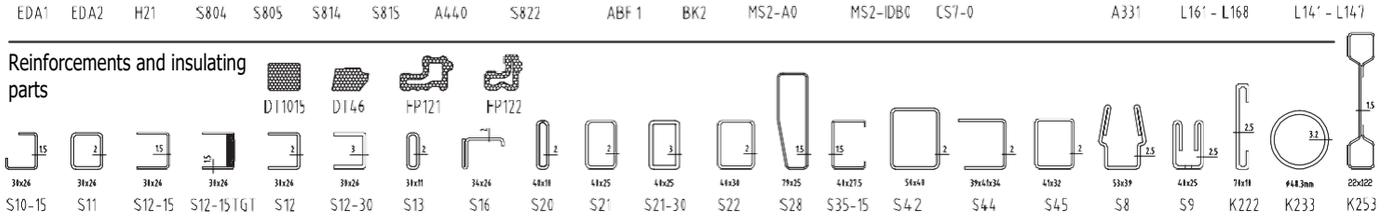

## Connectors and additional profiles



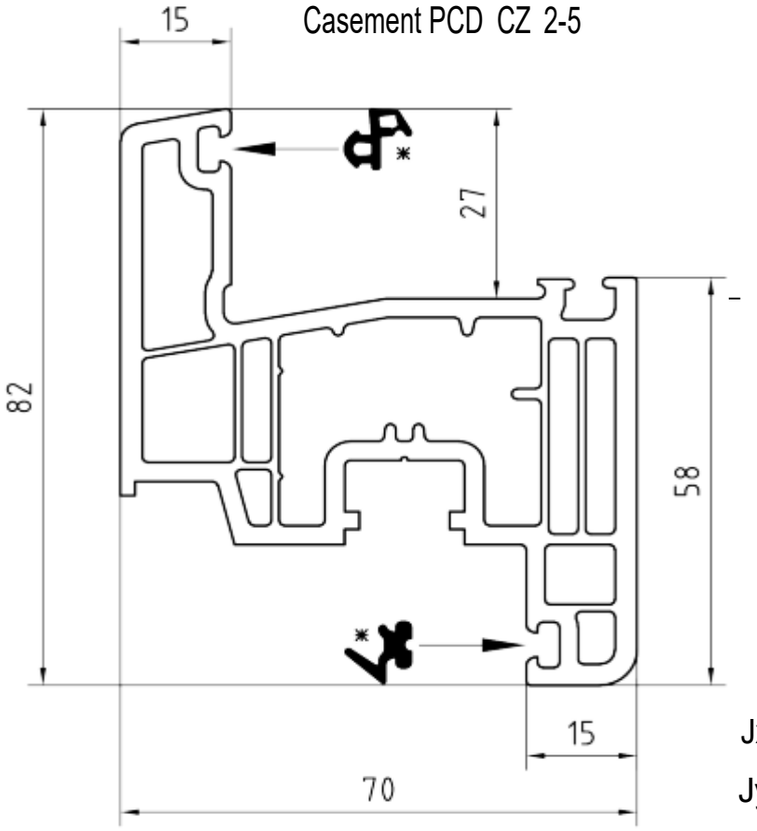

## Reinforcements and insulating parts



## Profiles - with and without middle gasket

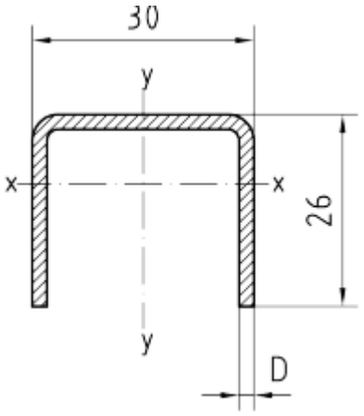
# LB.Profile

Casement PCD CZ 2-5




S 12-15 / S 12 / S 12-30 **

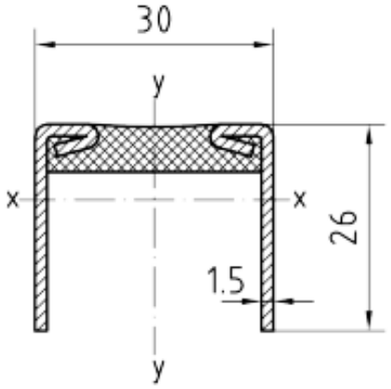
U-Profile
Galvanised steel




| D=1.5 | D=2 | D=3 |
|---|---|---|
| Jx=1.8cm$^4$ | Jx=2.2cm$^4$ | Jx=3.1cm$^4$ |
| Jy=0.8cm$^4$ | Jy=1.1cm4 | Jy=1.5cm$^4$ |

S 12- 15 TGT**

Thermally insulated
galvanised steel

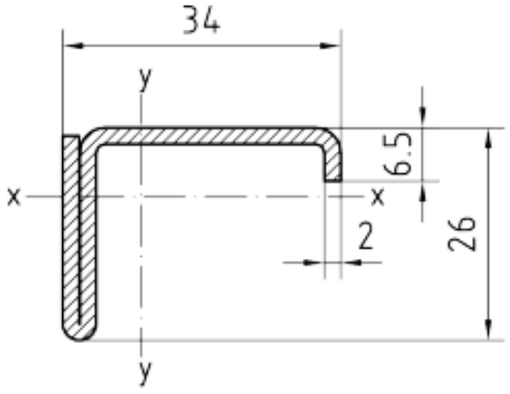



Jx=1.9cm$^4$

Jy=0.74c m$^4$

S 16**

L- Profile
Galvanised steel




Jx=2.5cm$^4$

Jy=0.6cm$^4$

*Factory installed gasket

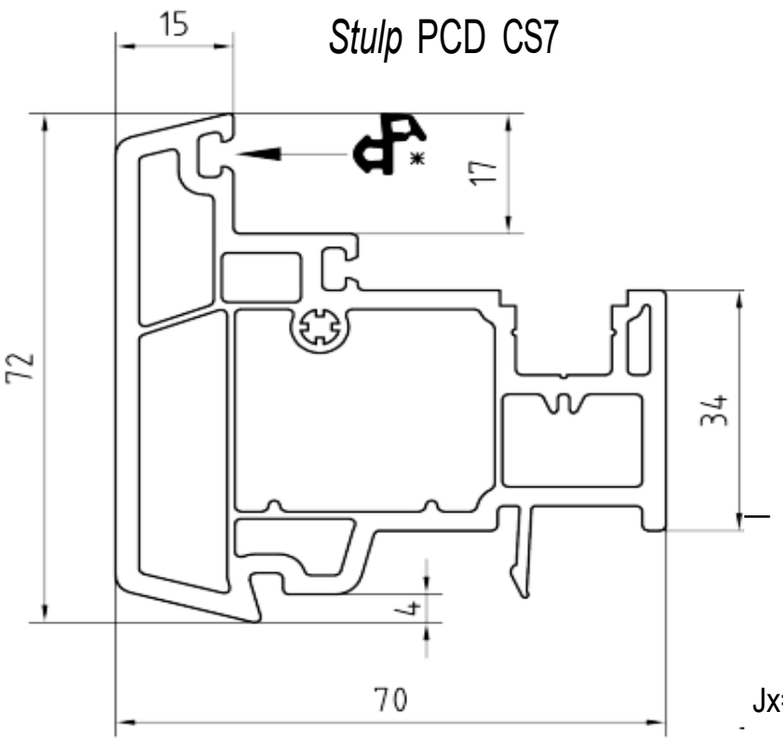
**Profiles are delivered as ordered

02.02

## Profiles - with and without middle gasket

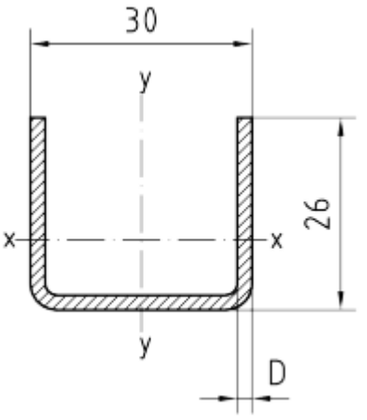
# LB. Profile

*Stulp* PCD CS7



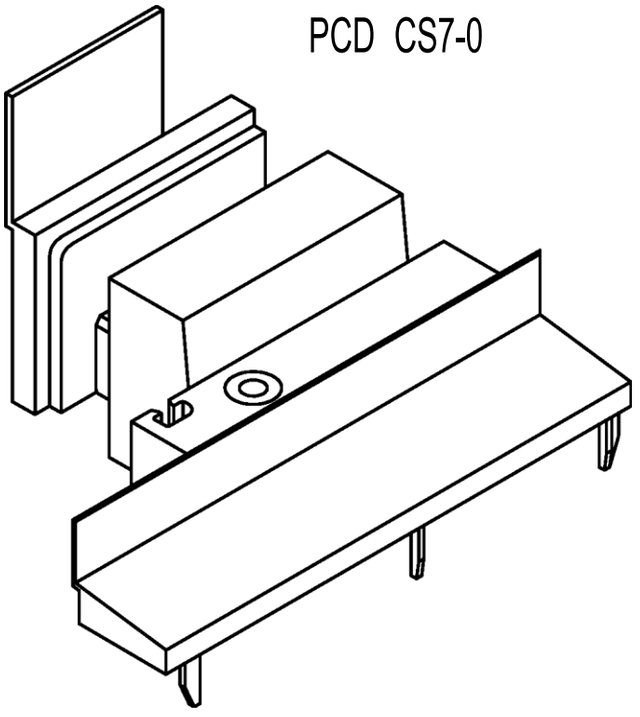

S 12-15 / S 12 / S12-30**

U- Profile
Galvanised steel




| D=1.5 | D=2 | D =3 |
|---|---|---|
| Jx=1.8cm$^4$ | Jx=2.2cm$^4$ | Jx=3.1cm$^4$ |
| Jy=0.8cm$^4$ | Jy=1.1cm$^4$ | Jy=1.5cm$^4$ |

PCD CS7-0

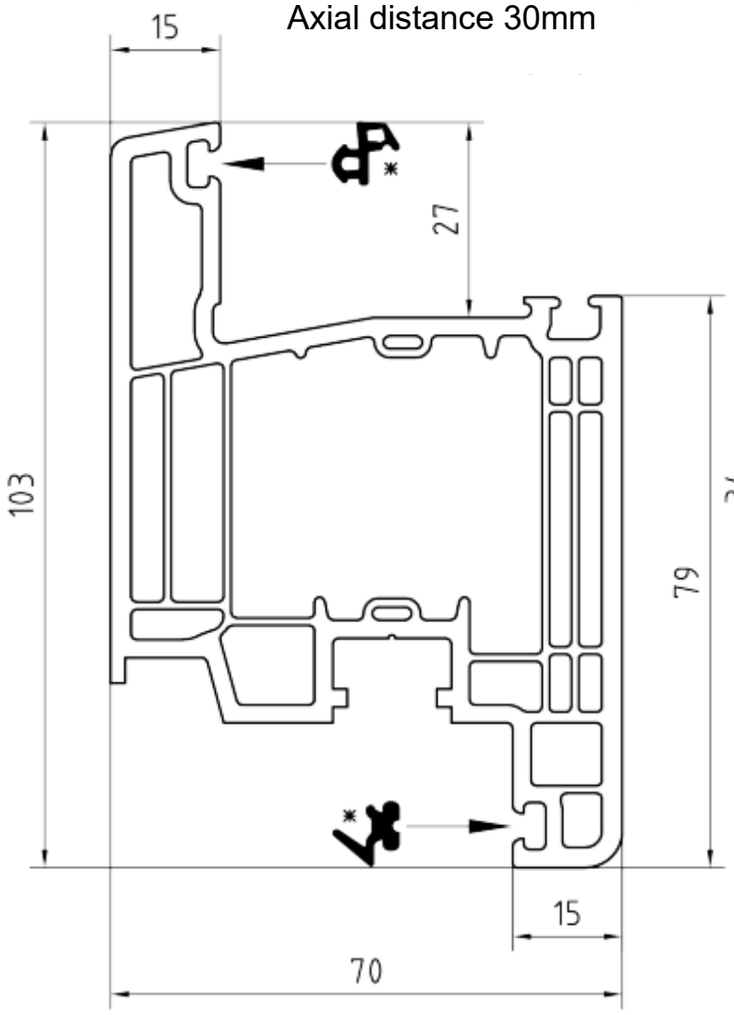


PAD A440

Cover of the Euro drain channel for the corner fittings mechanism

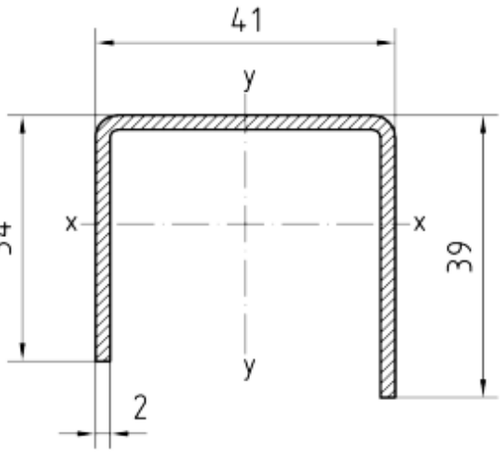
*Factory installed gasket
**Profiles are delivered as ordered

Balcony door/window wing PCD CZ7-5
Axial distance 30mm




S 44

U- Profile
Galvanised steel

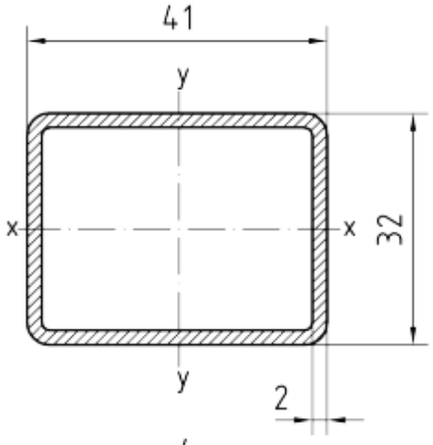



$Jx=6.3cm^4$

$Jy=3.0cm^4$

S 45**

4kt- Profile
Galvanised steel



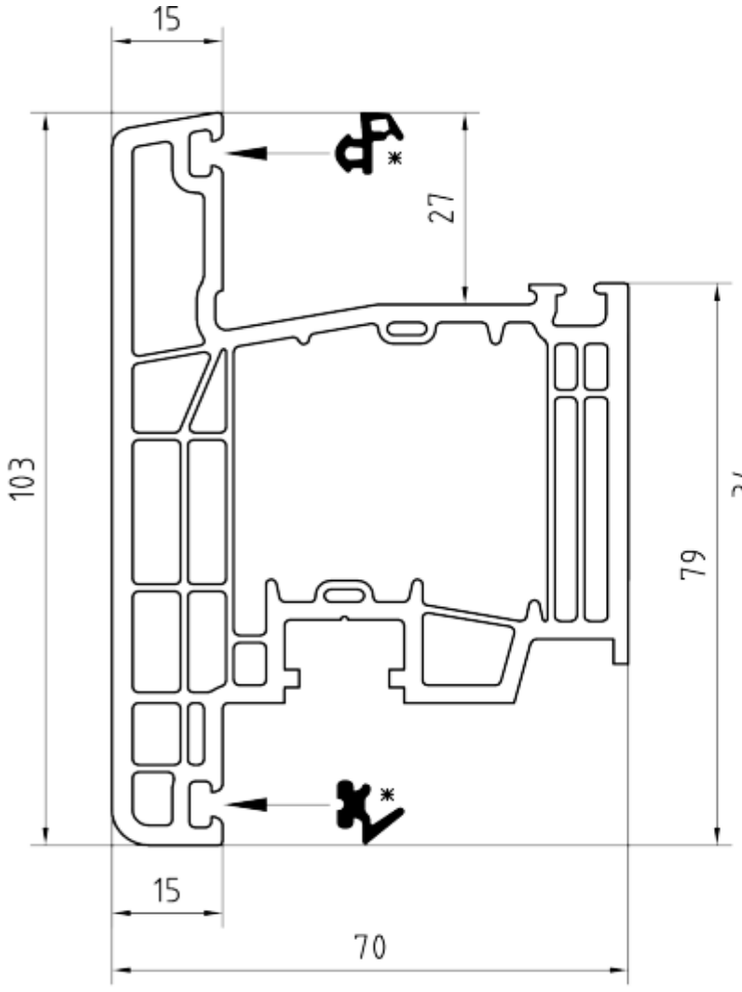

$Jx=6.3cm^4$

$Jy=4.3cm^4$

* factory installed gasket
**profiles are delivered as ordered

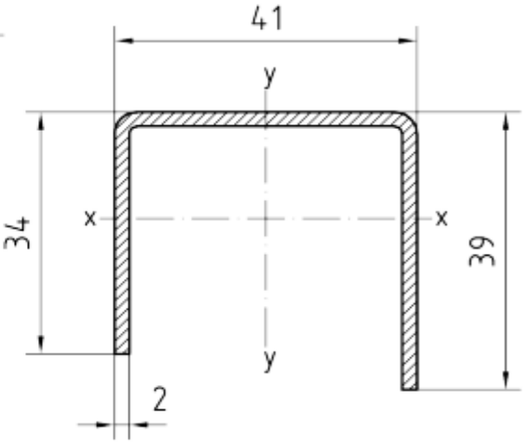
## Balcony door/window wing PCD CT27-5

Axial distance 30mm, opening outwards




S 44

U- Profile
Galvanised steel

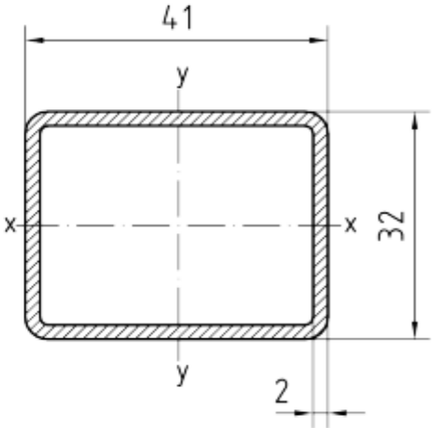



$Jx=6.3cm^4$

$Jy=3.0cm^4$

S 45**

4kt- Profile
Galvanised steel




$Jx=6.3cm^4$

$Jy=4.3cm^4$

*factory installed gasket

** profiles are delivered as ordered

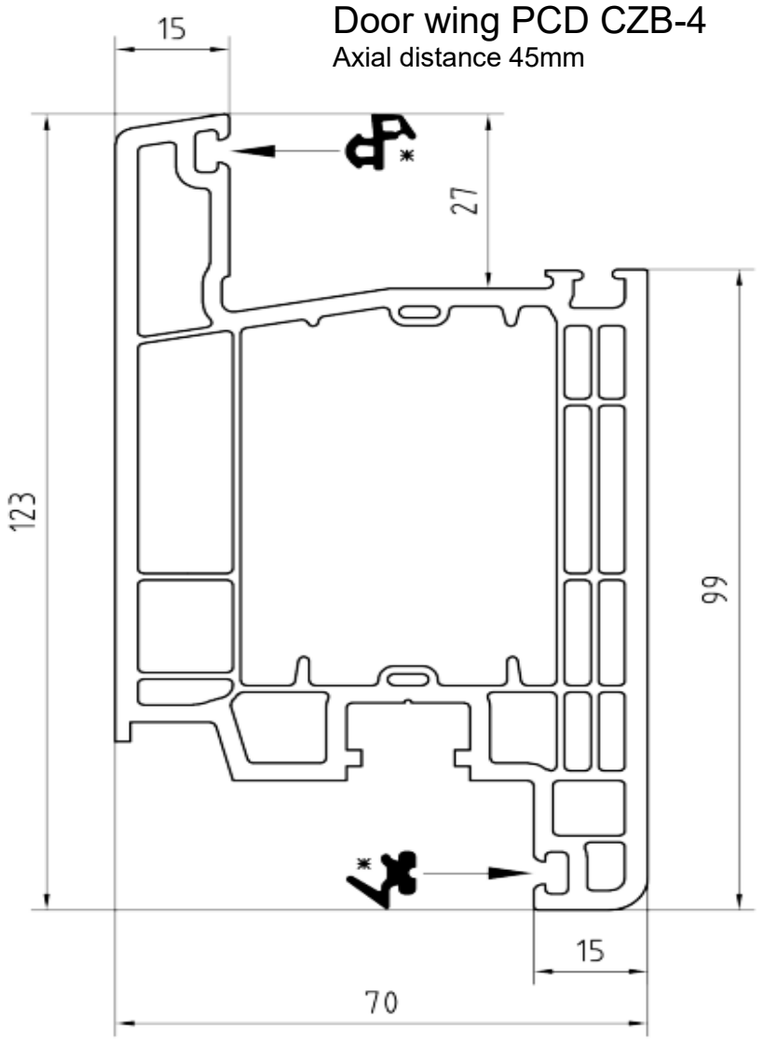
## Profiles - With and without middle gasket

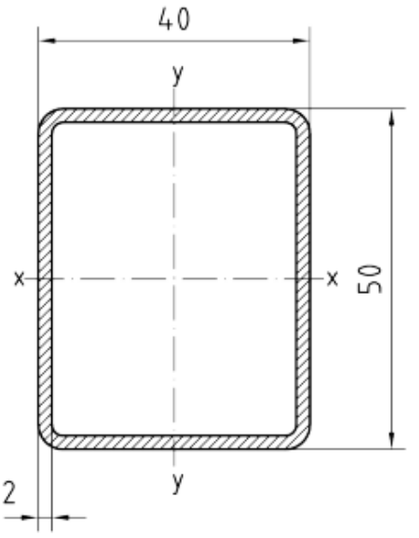
## LB. Profile

**S 42**

4kt- Profile
Galvanised steel

Door wing PCD CZB-4
Axial distance 45mm



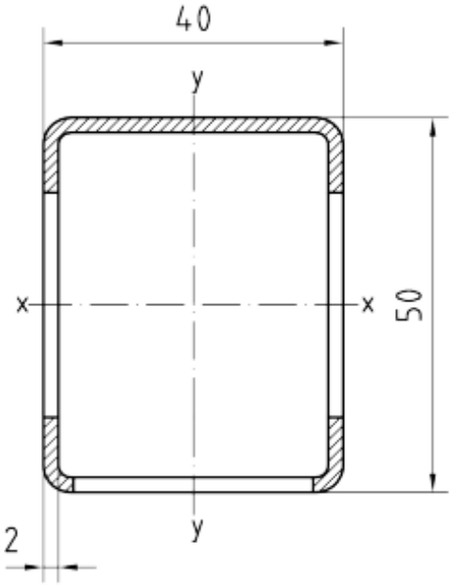




$Jx=8.4cm^4$

$Jy=11.9cm^4$

**SK 42 ****

Pre-processed 4kt-Profile
Galvanised steel



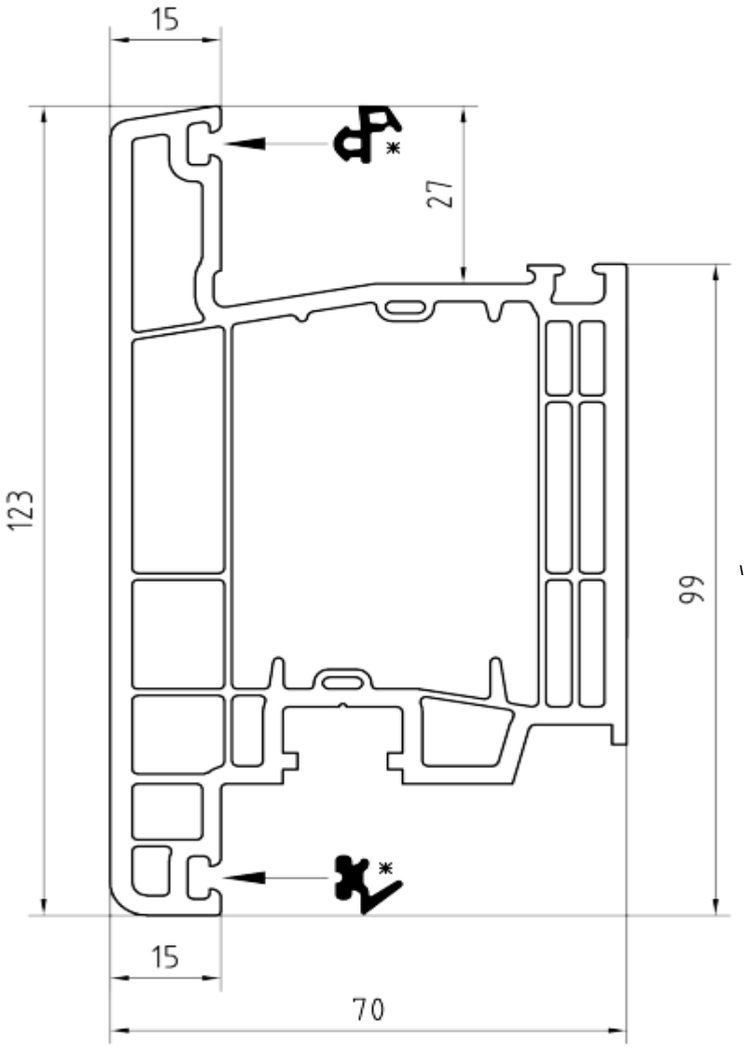

* factory installed gasket

**profiles are delivered as ordered

02-14

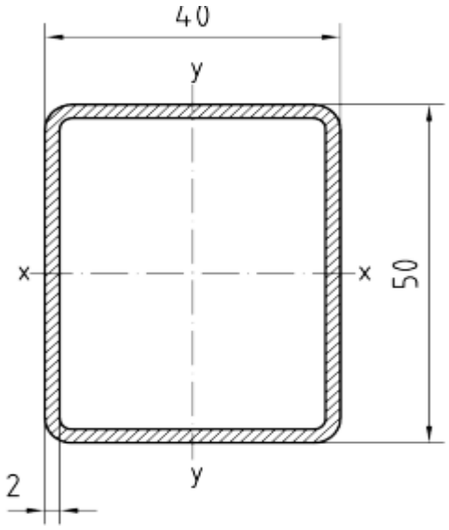
# Door wing PCD CT28-4

Axial distance 45mm, opening outwards




**S 42**

4kt- Profile
Galvanised steel

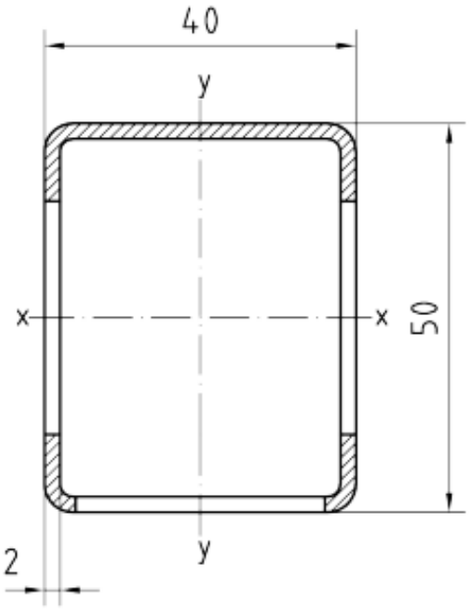



$J_x = 8.4 cm^4$

$J_y = 11.9 cm^4$

**SK 42****

Pre-processed 4kt-Profile
Galvanised steel



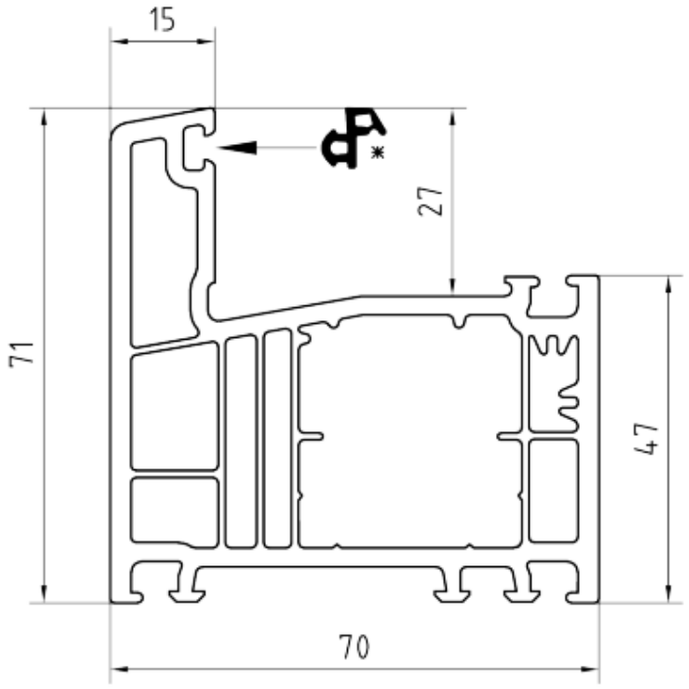

*factory installed gasket

**profiles are delivered as ordered

# Profiles - Without middle gasket

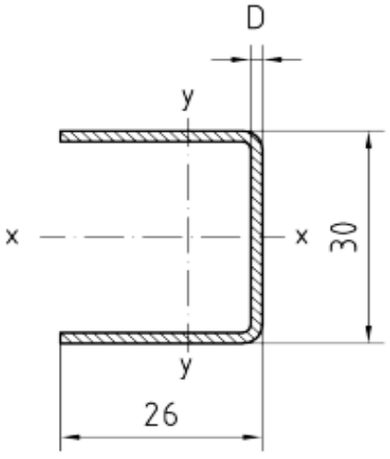
## LB.Profile

Door frame PCD CL2-5




**S 12-15 / S 12 / S 12-30 ****

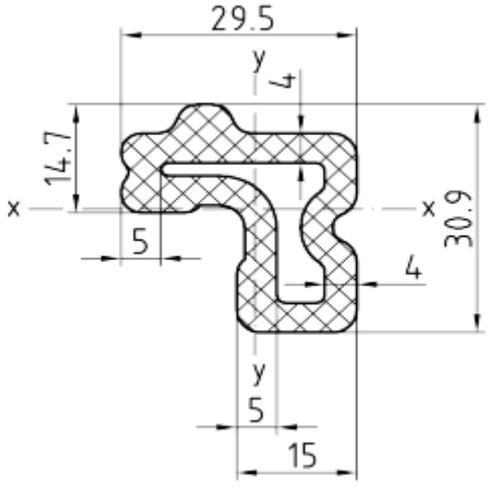
U-Profile
Galvanised steel




| D=1.5 | D=2 | D=3 |
|---|---|---|
| Jx=1.8cm$^4$ | Jx=2.2cm$^4$ | Jx=3.1cm$^4$ |
| Jy=0.8cm$^4$ | Jy=1.1cm$^4$ | Jy=1.5cm$^4$ |

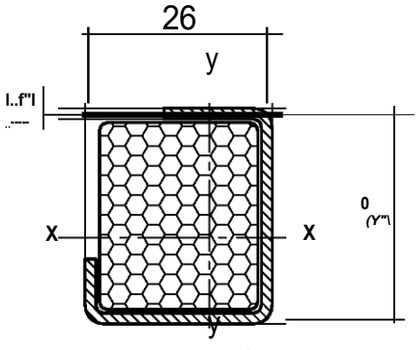
FP 122**

R-Profile
Insulation




S 10-15 + DT 1015**

G-Profile
Galvanised steel
with insulation




Jx=1.7cm$^4$

Jy=0.8cm$^4$

02.20

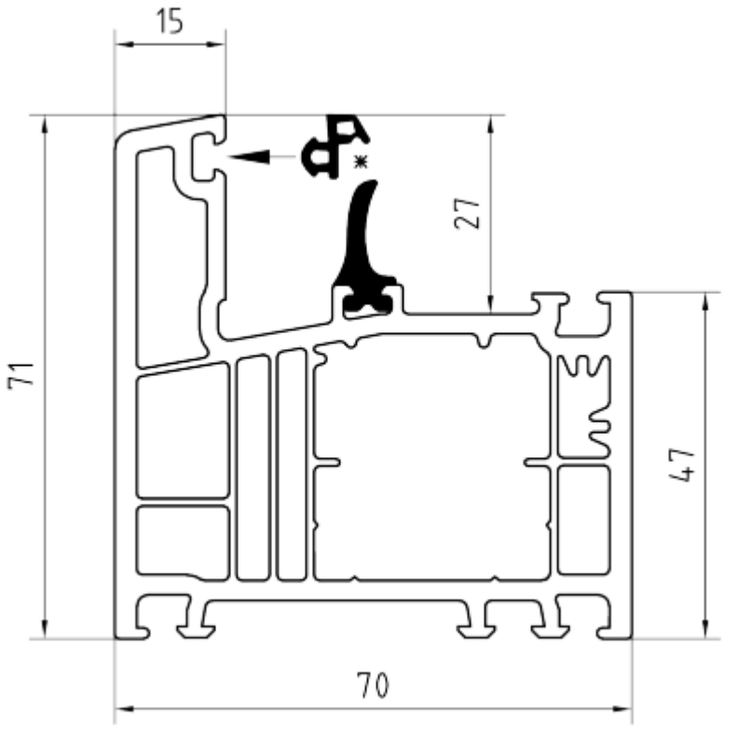
*factory installed gasket

**profiles are delivered as ordered

# Profiles - With middle gasket

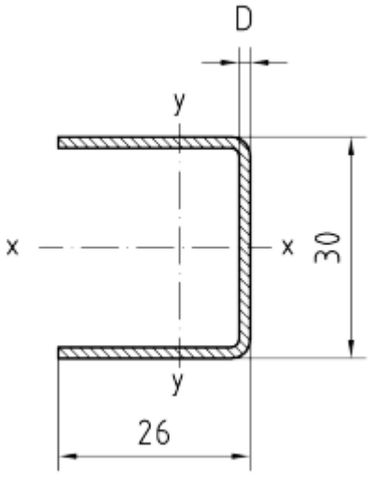
## LB.Profile

Door frame PCD CLM2-5




**S 12-15 / S 12 / S 12-30****

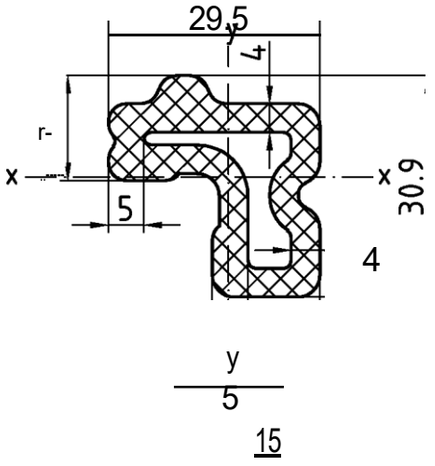
U-Profile
Galvanised steel




| D=1.5 | D=2 | D=3 |
|---|---|---|
| Jx=1.8cm$^4$ | Jx=2.2cm$^4$ | Jx=3.1cm$^4$ |
| Jy=0.8cm$^4$ | Jy=1.1cm$^4$ | Jy=1.5cm$^4$ |

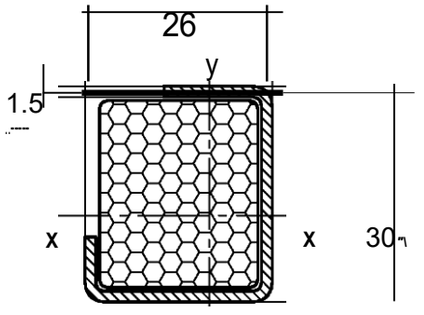
FP 122**

R-Profile
Insulation




S 10-15 + DT 1015**

G-Profile
Galvanised steel
with insulation




Jx=1.7cm$^4$

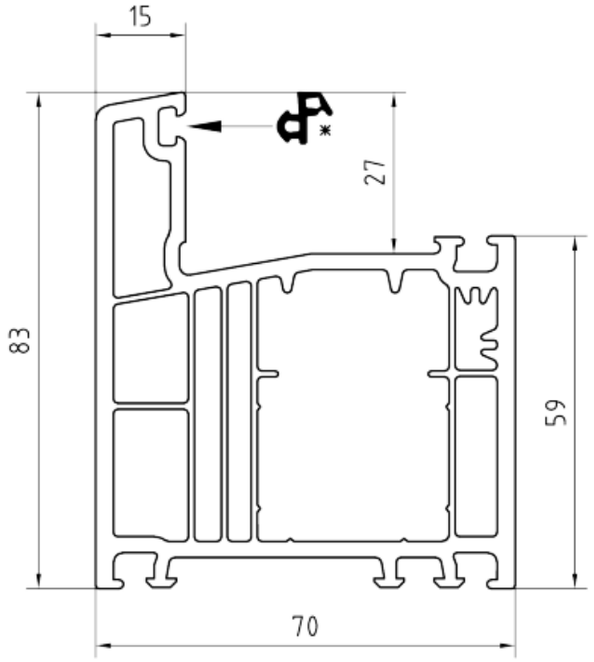
Jy=0.8cm$^4$

*factory installed gasket
**profiles are delivered as ordered

# Profiles - Without middle gasket

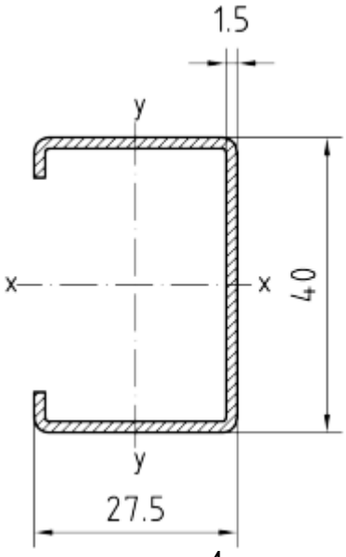
## LB. Profile

Door frame PCD CL3-5




S 35-15**

C-Profile
Galvanised steel

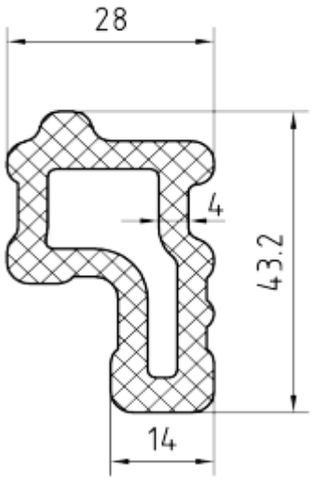



$Jx=1.4cm^4$

$Jy=3.9cm^4$

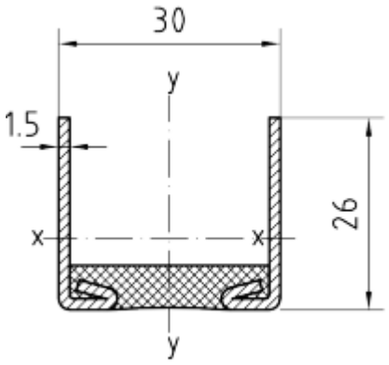
FP 121**

R-Profile
PVC-Foam-reinforcement




S12-15TGT**

Thermally insulated
galvanised steel

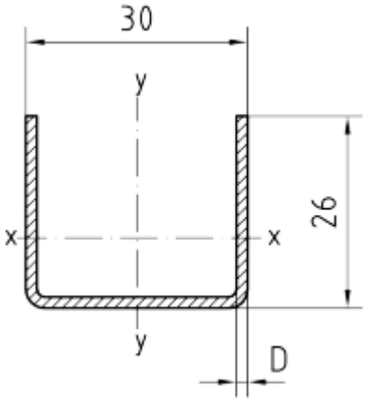



$Jx=1.9cm^4$

$Jy=0.74cm^4$

S12-15 / S 12 / S 12-30**

U-Profile
Galvanised steel




| D=1.5 | D=2 | D=3 |
|---|---|---|
| $Jx=1.8cm^4$ | $Jx=2.2cm^4$ | $Jx=3.1cm^4$ |
| $Jy=0.Bcm^4$ | $Jy=1.1cm^4$ | $Jy=1.5cm^4$ |

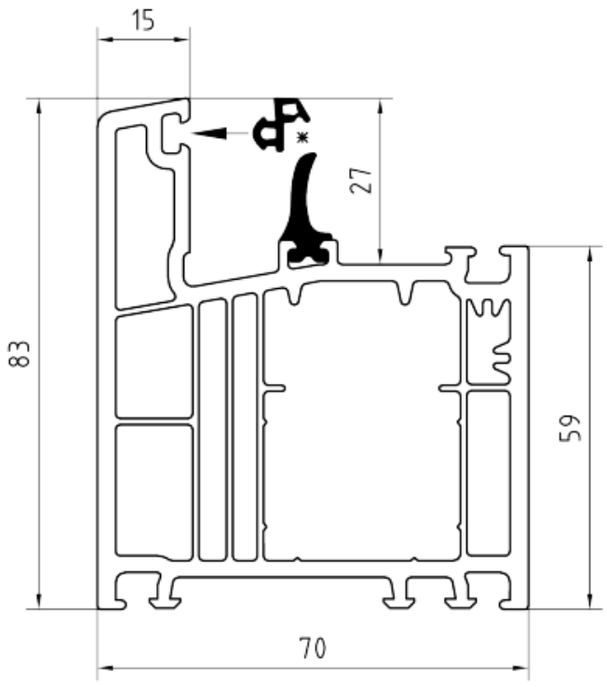
*factory installed gasket

**profiles are delivered as ordered

# Profiles - With middle gasket

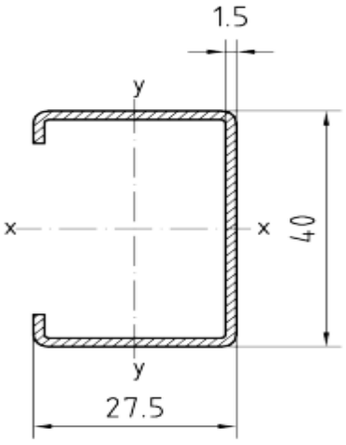
## LB. Profile

Door frame PCD CLM3-5




S 35-15**

C-Profile
Galvanised steel

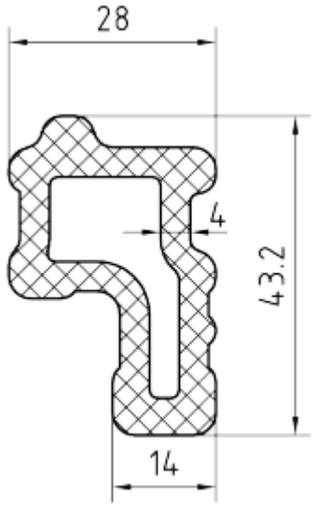



Jx=1.4cm$^4$

Jy=3.9cm$^4$

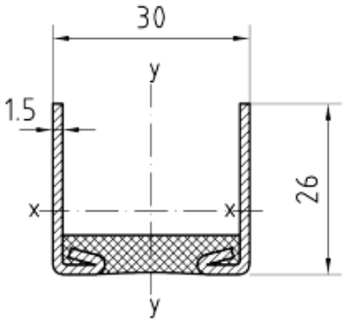
FP 121**

R-Profile
PVC-Foam-reinforcement




S12-15TGT*

Thermally insulated
galvanised steel

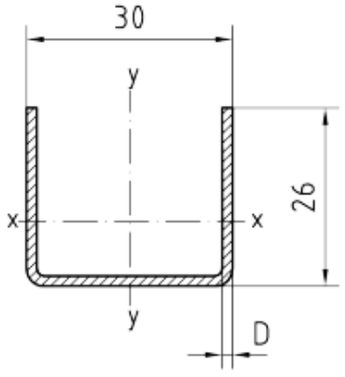



Jx=1.9cm$^4$

Jy=0.74cm$^4$

S 12 / S 12-15 / S 12-30**

U-Profile Galvanised steel




| D=1.5 | D=2 | D=3 |
|---|---|---|
| Jx=1.8cm$^4$ | Jx=2.2cm$^4$ | Jx=3.1cm$^4$ |
| Jy=0.8cm$^4$ | Jy=1.1cm$^4$ | Jy=1.5cm$^4$ |

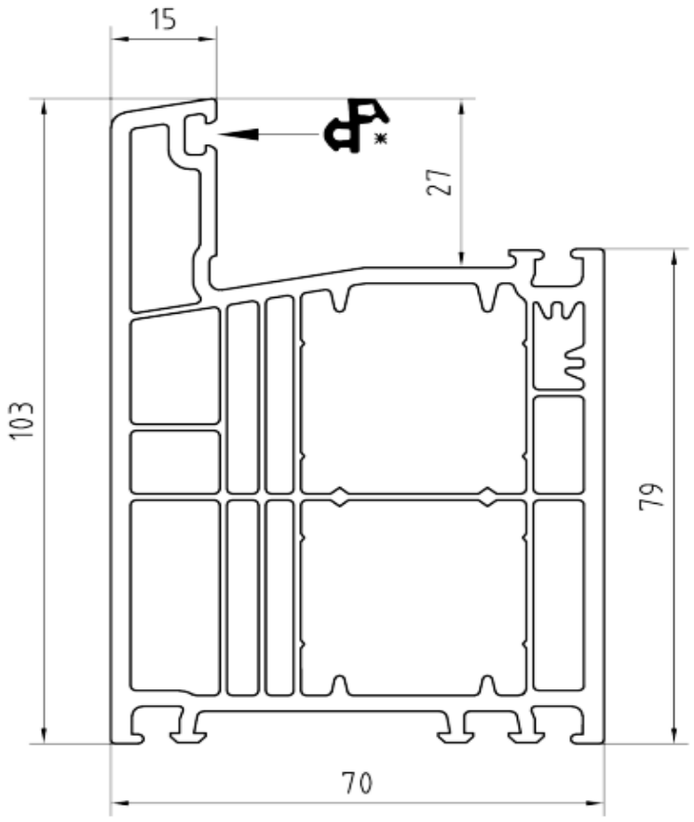
*factory installed gasket

** profiles are delivered as ordered

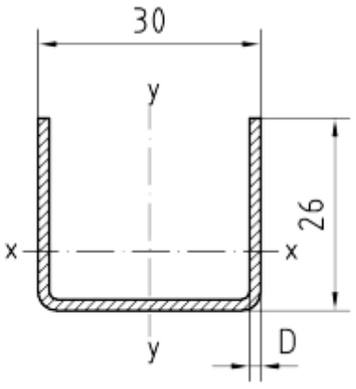
02.23

# Profiles - Without middle gasket LB.Profile

Door frame PCD CLS-5



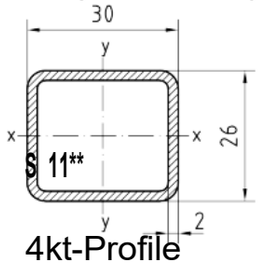

**S 12-15 / S 12 / S 12-30****




D=1.5 D=2 D=3

Jx=1.8cm$^4$ Jx=2.2cm$^4$ Jx=3.1cm$^4$

Jy=0.8cm$^4$ Jy=1.1cm$^4$ Jy=1.5cm$^4$

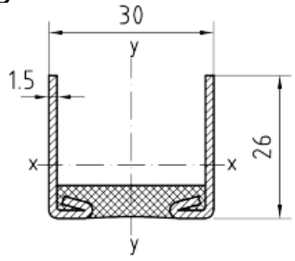



4kt-Profile
Galvanised steel

30

S 12-15 TGT**

Thermally insulated
galvanised steel




Jx=1.9cm$^4$

Jy=0.74cm$^4$

*factory installed gasket

**profiles are delivered as ordered

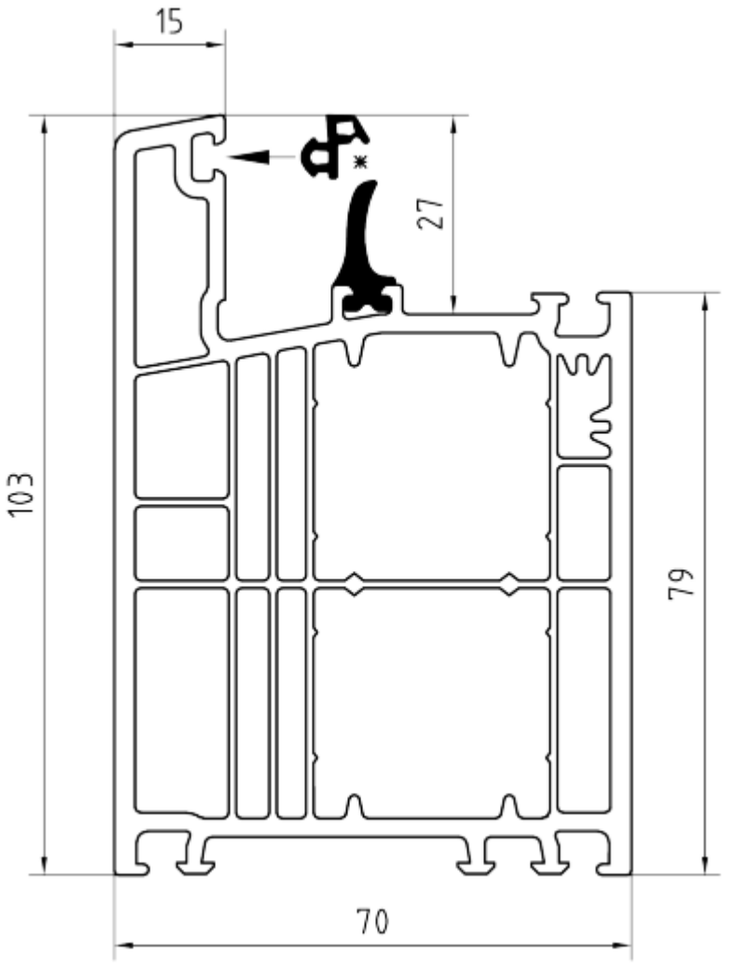
Jx=
2.4
cm

$^4$ Jy=1.9cm$^4$

# Profiles - With middle gasket

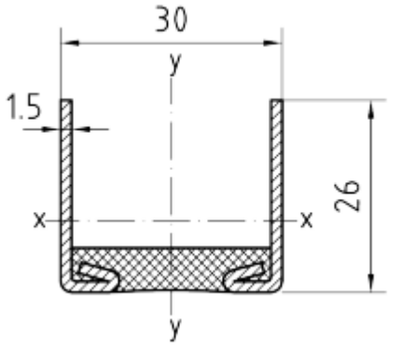
# LB.Profile

Door frame PCD CLMS-5




S 12-15 TGT**

Thermally insulated
galvanised steel

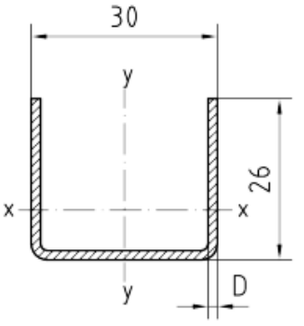



Jx=1.9cm$^4$

Jy=0.74cm$^4$

**S 12-15 / S 12 / S 12-30****

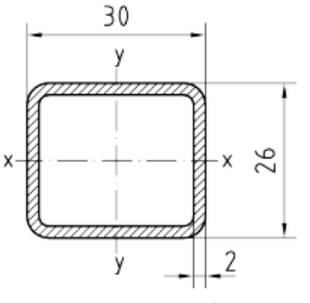
U-Profile
Galvanised steel




| D=1.5 | D=2 | D=3 |
|---|---|---|
| Jx=1.8cm$^4$ | Jx=2.2cm$^4$ | Jx=3.1cm$^4$ |
| Jy=0.8cm$^4$ | Jy=1.1cm$^4$ | Jy=1.5cm$^4$ |

**S 11****

4kt-Profile
Galvanised steel




Jx=2.4cm$^4$

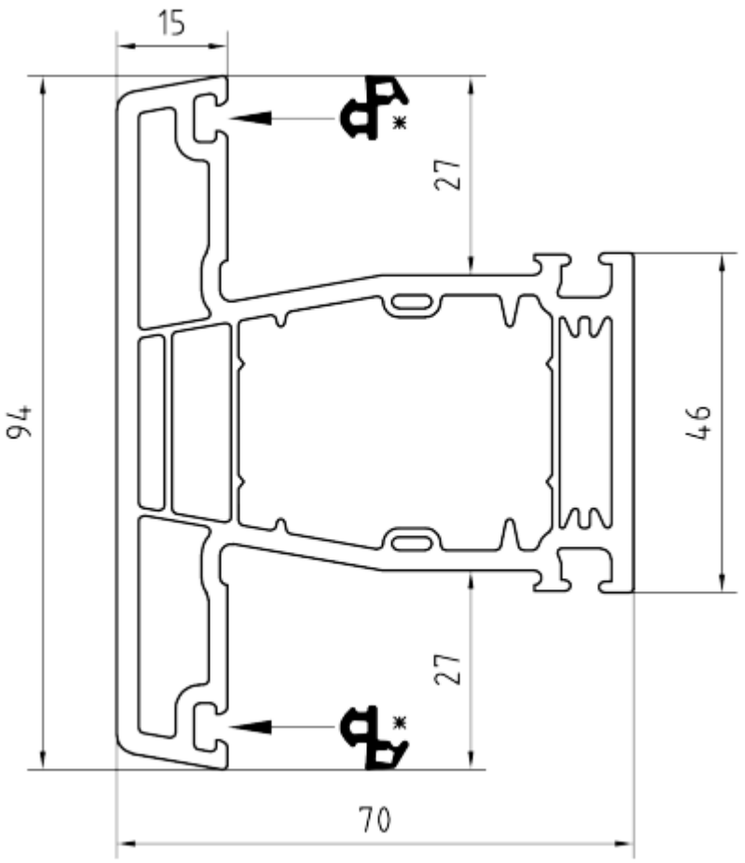
Jy=1.9cm$^4$

*factory installed gasket
**profiles are delivered as ordered

# Profiles - Without middle gasket

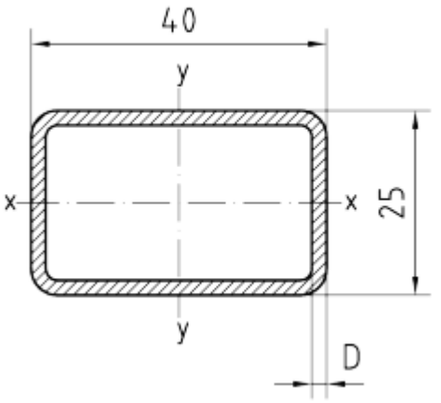
## LB. Profile

PCD CT2-4 Mullion

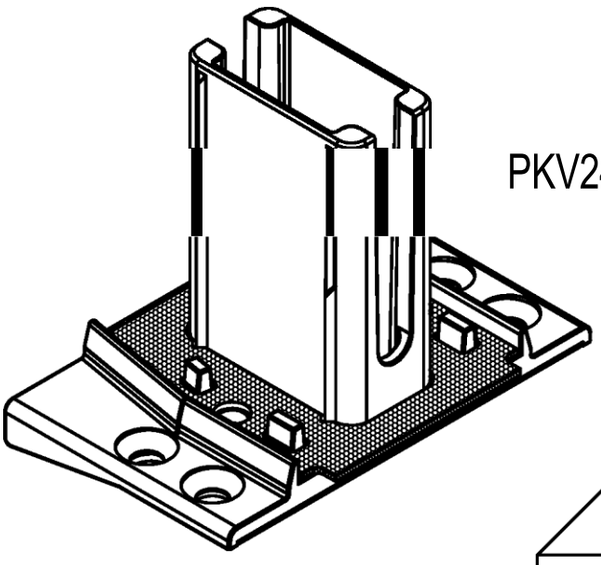



**S 21 / S 21-30 ****

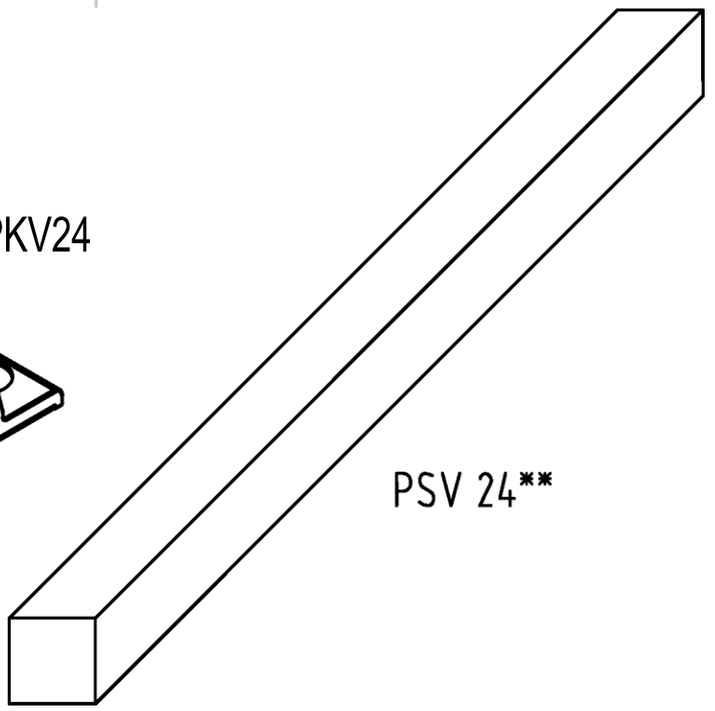
4kt-Profile
Galvanised steel




| D=2 | D=3 |
|---|---|
| Jx=4.8cm$^4$ | Jx=6.7cm$^4$ |
| Jy=2.3cm$^4$ | Jy=3.1cm$^4$ |



PKV24



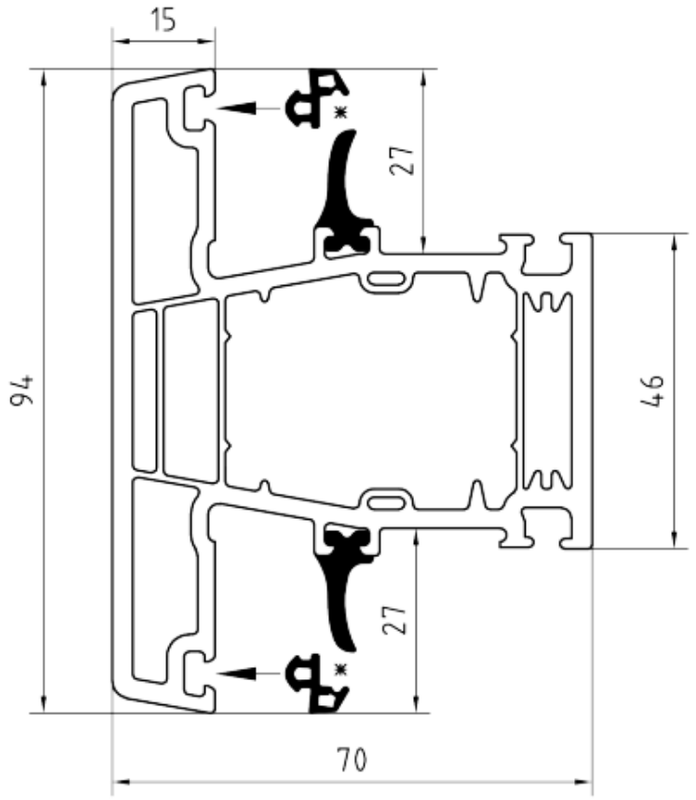
PSV 24**

*factory installed gasket
**profiles are delivered as ordered

# Profiles - With middle gasket

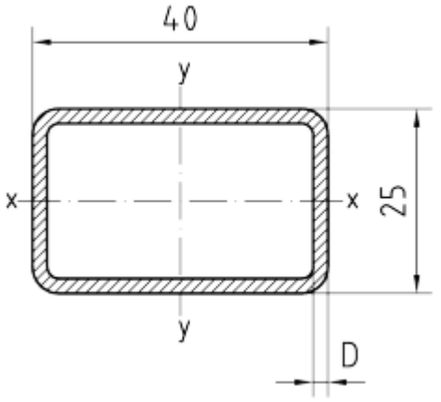
## LB. Profile

PCD CTM2-4 Mullion

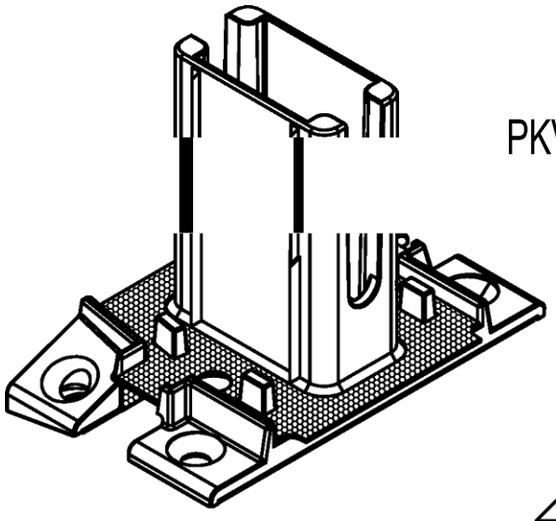



**S 21 / S 21-30 ****

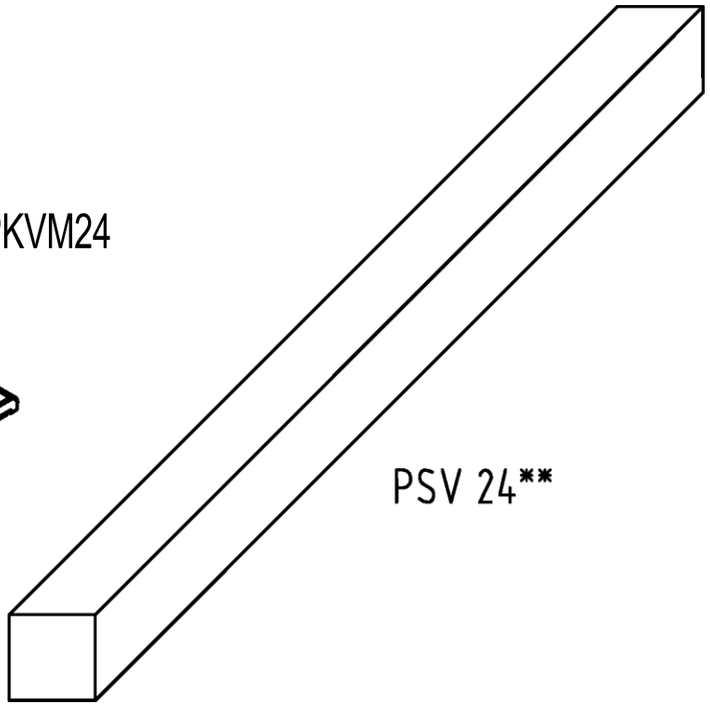
4kt-Profile
Galvanised steel




| D=2 | D=3 |
|---|---|
| Jx=4.8cm$^4$ | Jx=6.7cm$^4$ |
| Jy=2.3cm$^4$ | Jy=3.1cm$^4$ |



PKVM24



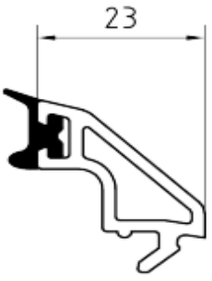
PSV 24**

*factory installed gasket

**profiles are delivered as ordered

## Glass beading

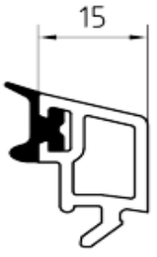
# LB. Profile



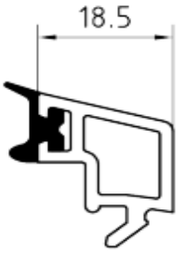

CG 8-C *


AG 11-C*

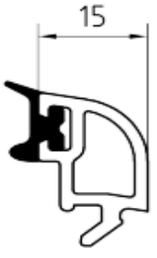

AG 3-C*



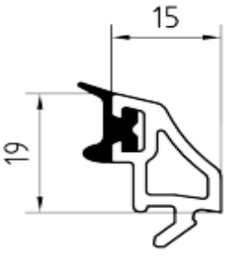

AG 4-C*



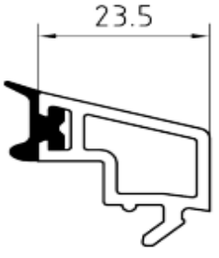

AG 5-C*



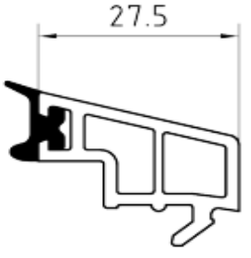

AGR 4-C*



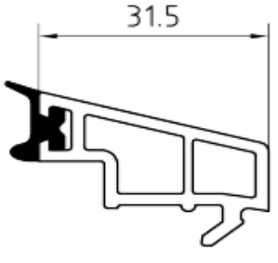

AGZ 4-C*



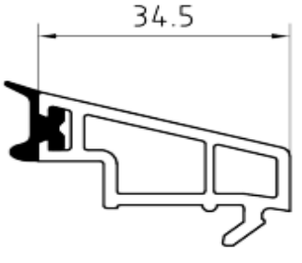

AG 9-C*




AG 10-C*



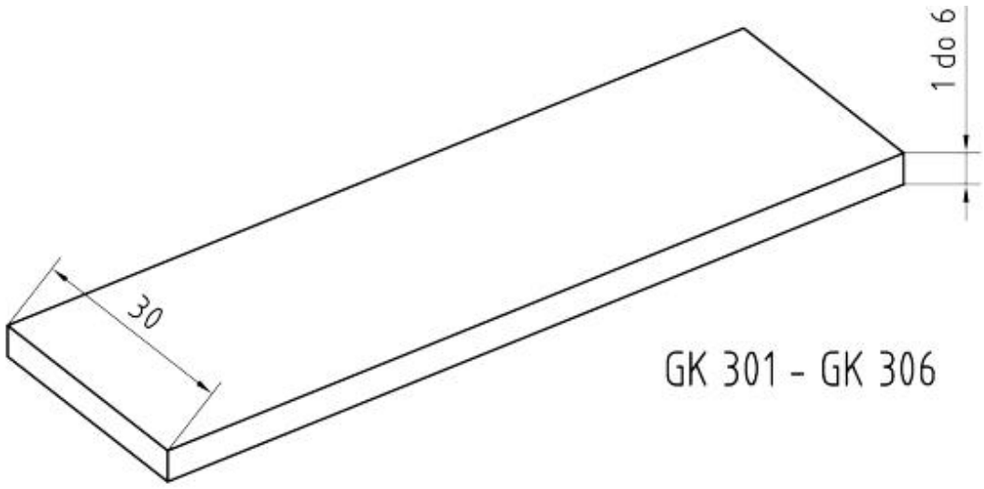

AG 6-C*



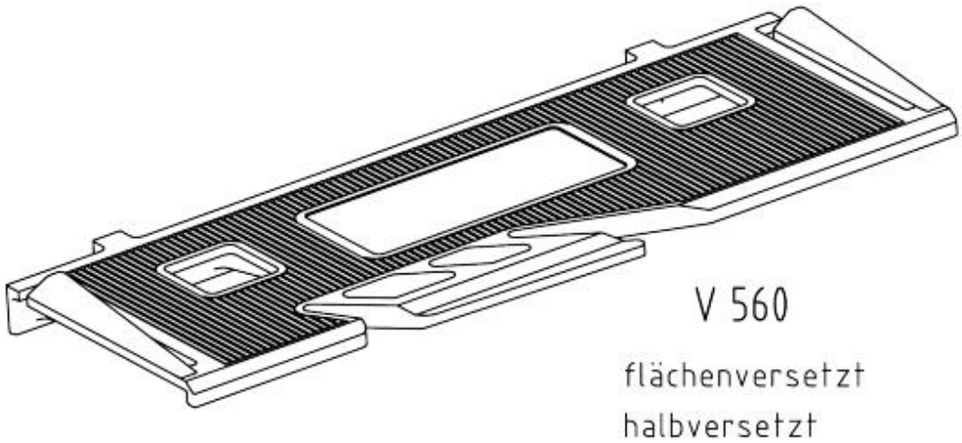

AG 7-C*

*beading can be delivered without gaskets

Glass distance pads



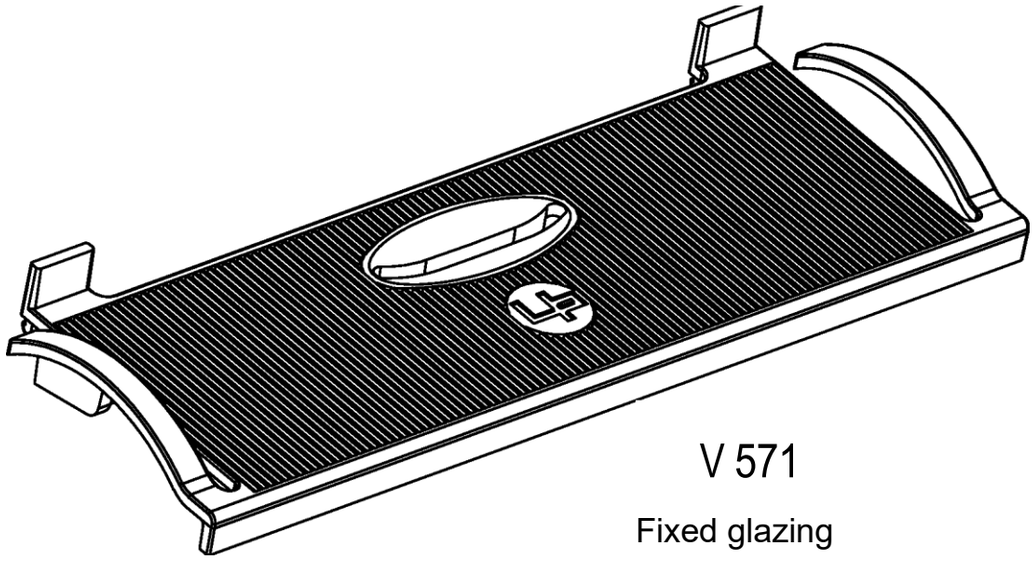

GK 301 - GK 306



V 560

flächenversetzt

halbversetzt



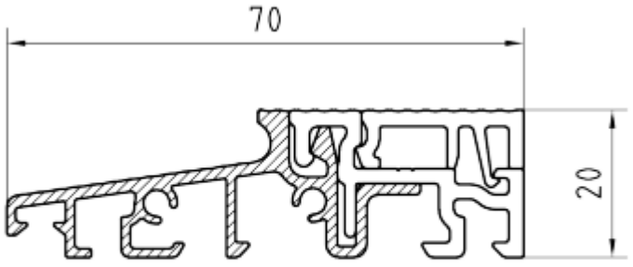
V 571

Fixed glazing

Medium gasket

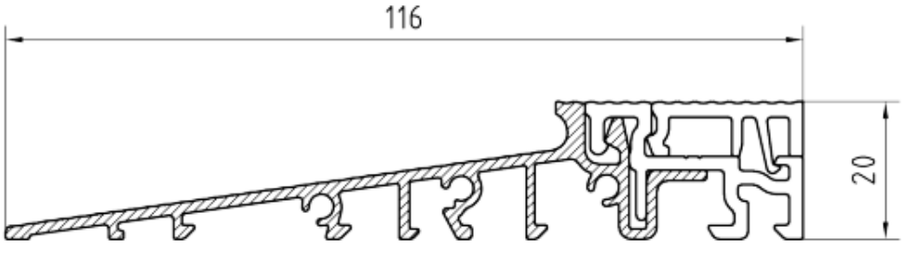
# Types of front door thresholds

LB. Profile




H 806

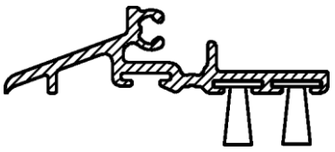
Alu/silver gray
thermally insulated
Door threshold




H 807**

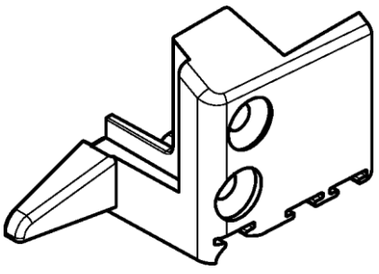
Alu/silver gray
thermally insulated
Door threshold

**Threshold is delivered as ordered



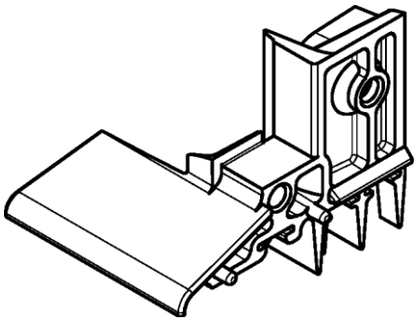
## H 801

PVC
Surround with brushes



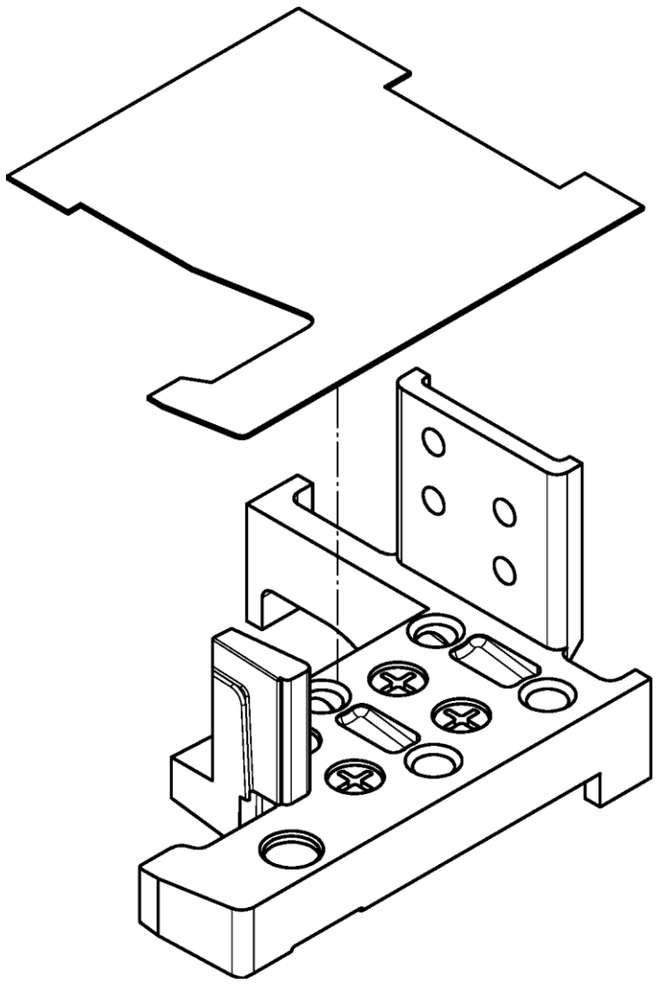
## H 802

PVC - silver gray
End cap for H801



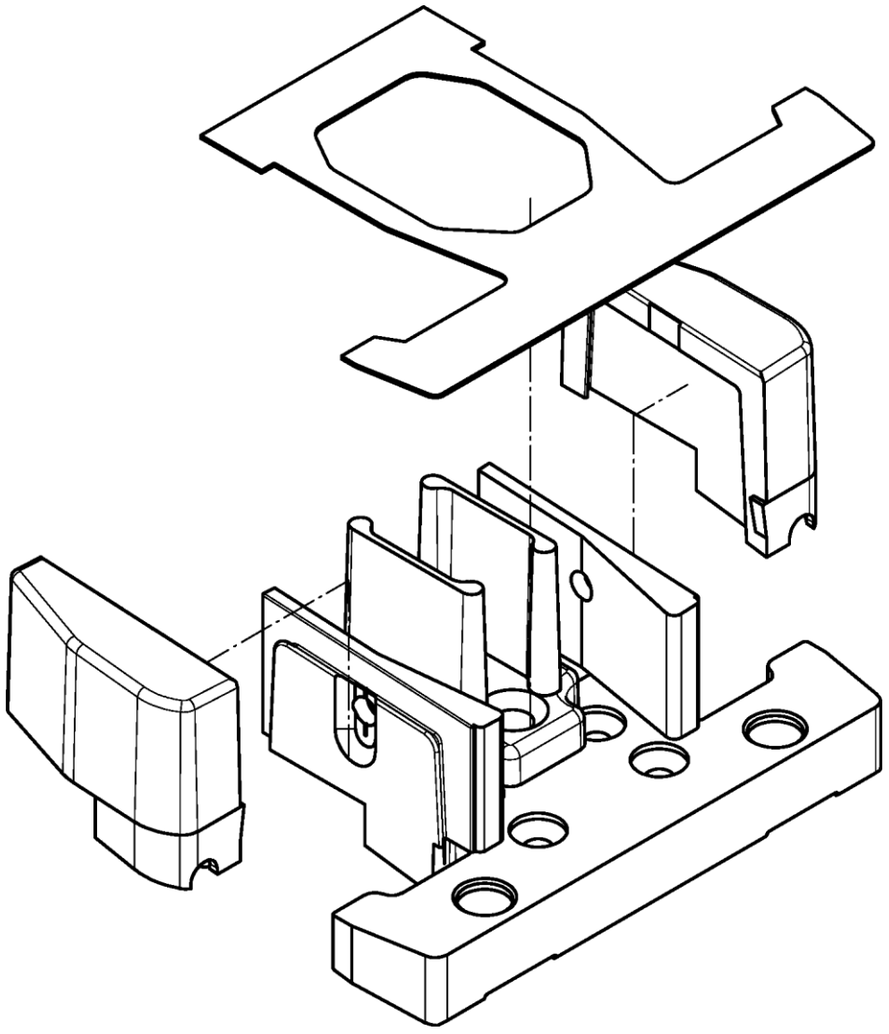
## H 803

PVC - silver grey
Post end cap for H801 *stulp*

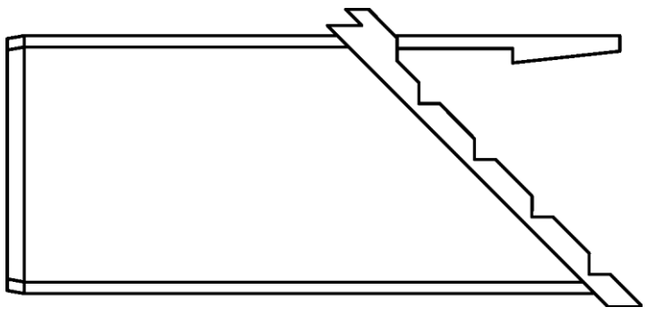


H 812

Threshold holder for CLM2-5
Silver grey
with TPE-sealing part



H 815
Mullion holder CT2-4
Silver grey with
TPE-sealing part

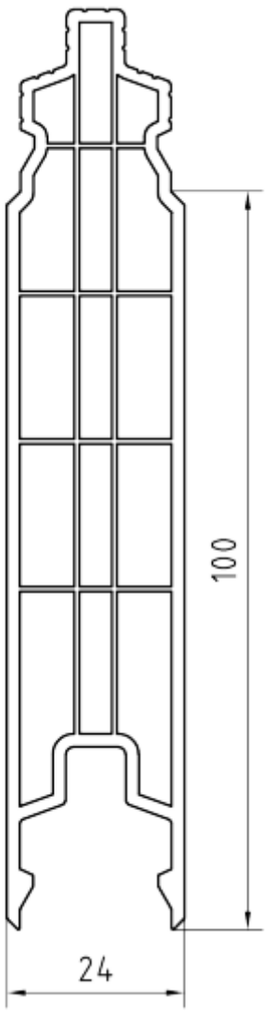


## H 820

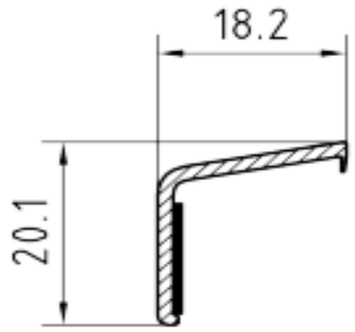
Corner connector - welded for CZ7-5 and CT27-5 with S45

## H 773

Corner connector - welded for CZB-4 and CT28-4 with S42

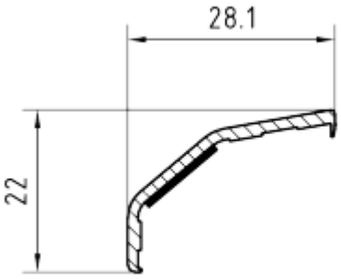



P 10-24



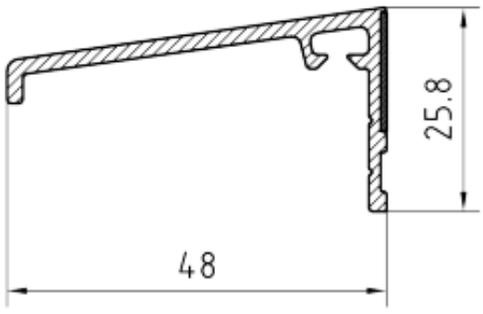

H 794**

Alu
Protection at the entrance, for the balcony door




H 795**

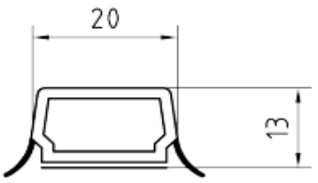
Alu
Protection at the entrance, for the balcony door




H 736

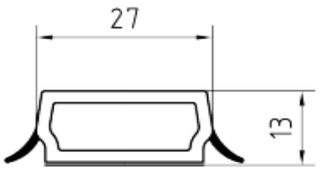
Alu
Balcony door drip

**Profiles are delivered as ordered



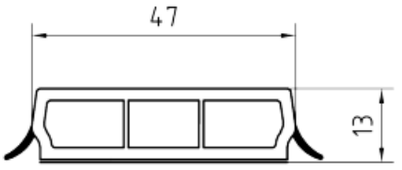

## Z 410

self-adhesive trim



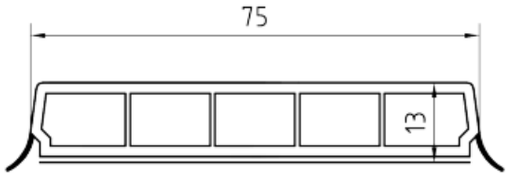

## Z 411

self-adhesive trim



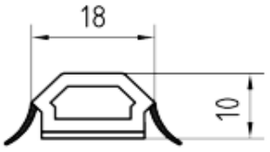

## Z 421

self-adhesive trim



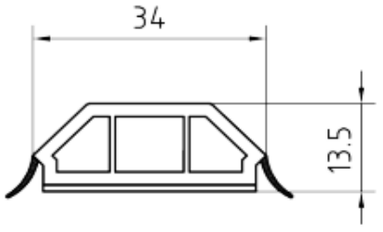

## Z 422

self-adhesive trim



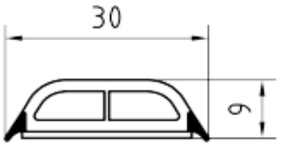

## Z 431

self-adhesive trim



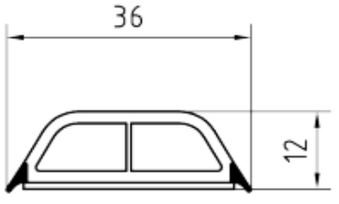

## Z 432

self-adhesive
trapezoidal trim



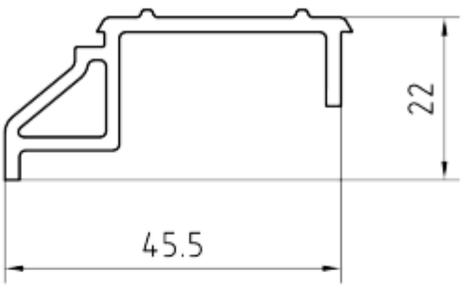

## Z 441

self-adhesive
rounded trim

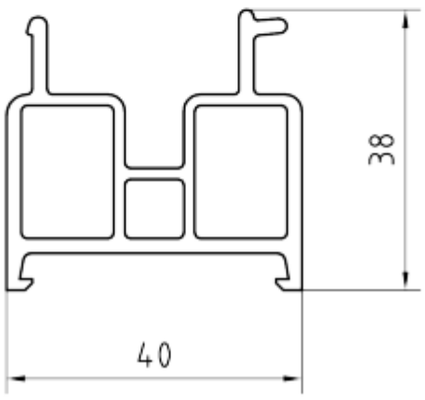



## Z 442

self-adhesive
rounded trim

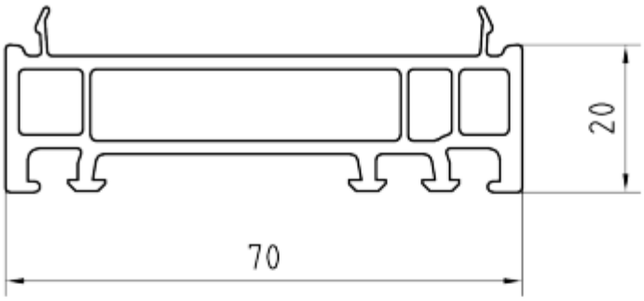



V 11**

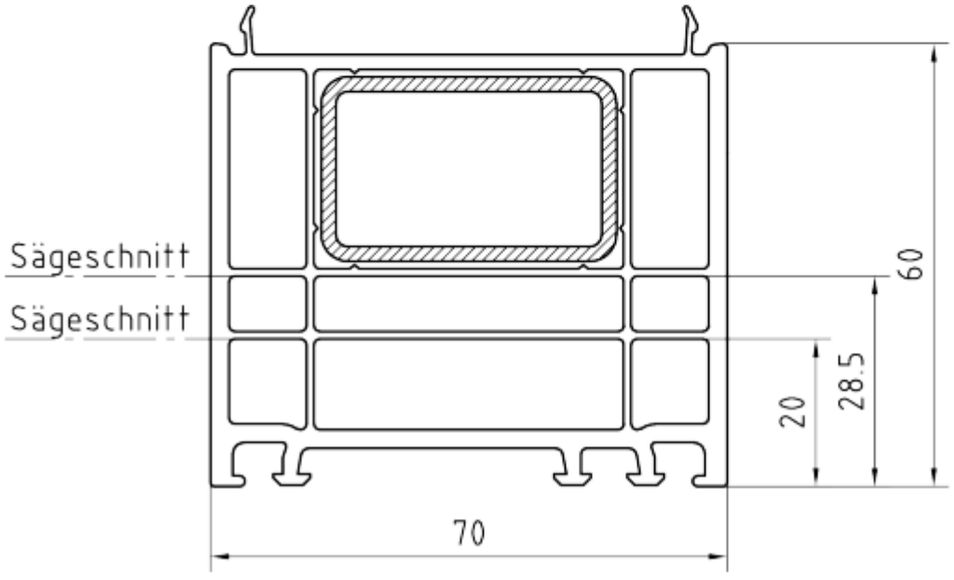



V 13

** Subframe is delivered as ordered




V 20



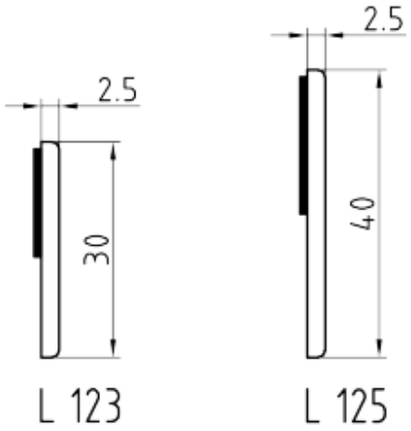

V 18/ S 21

Alle Sageschnitte bei der Montage möglich.

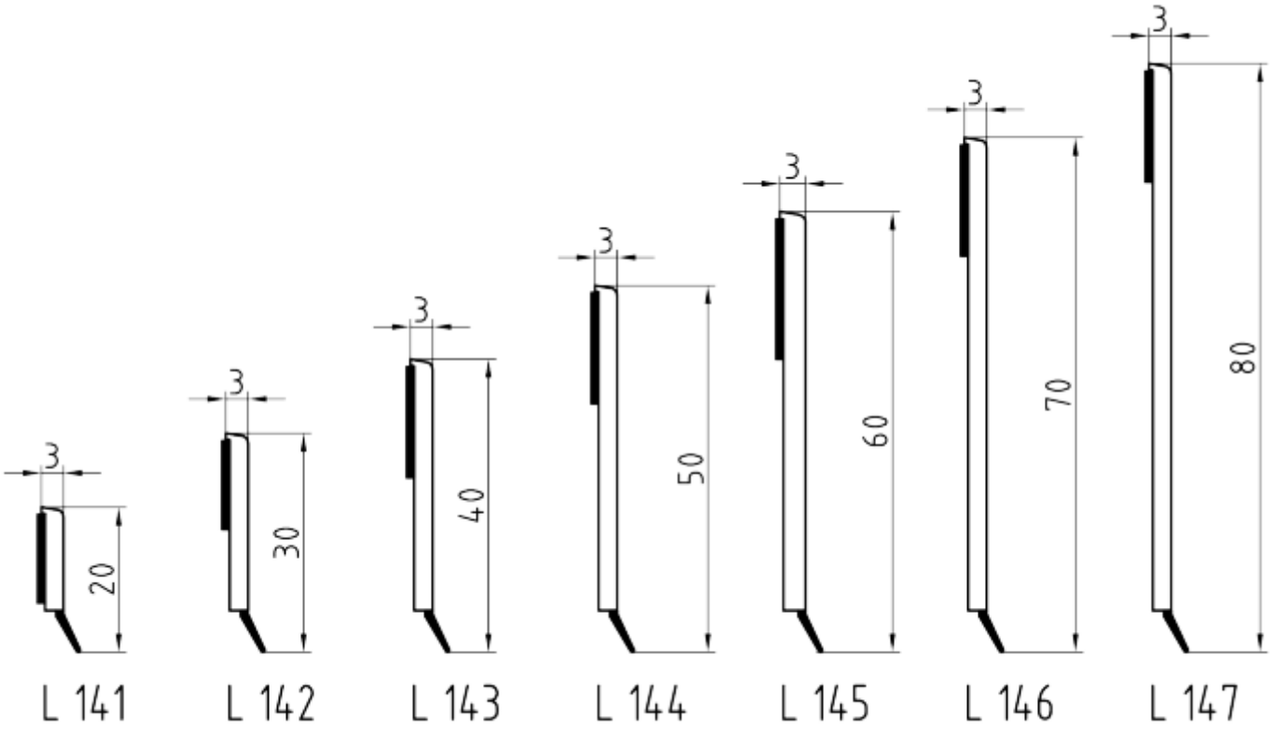
# Cover trims

## LB. Profile

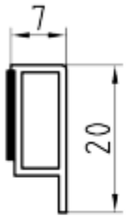
Flat trims, inside



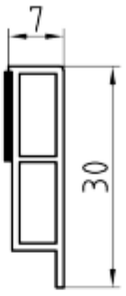

Flat trims, inside + outside



Cover trims, inside + outside

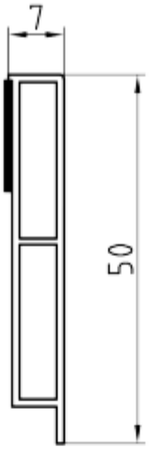



L 161

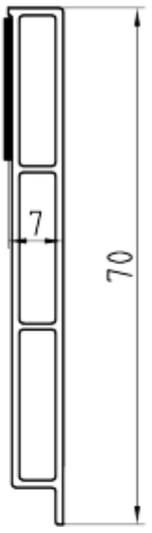



L 162

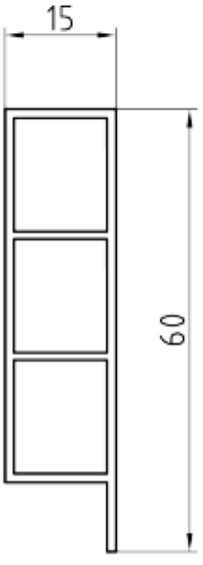

L 163




L 164

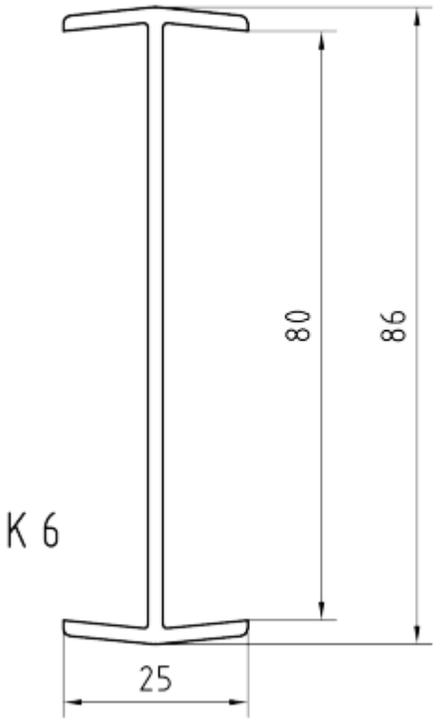


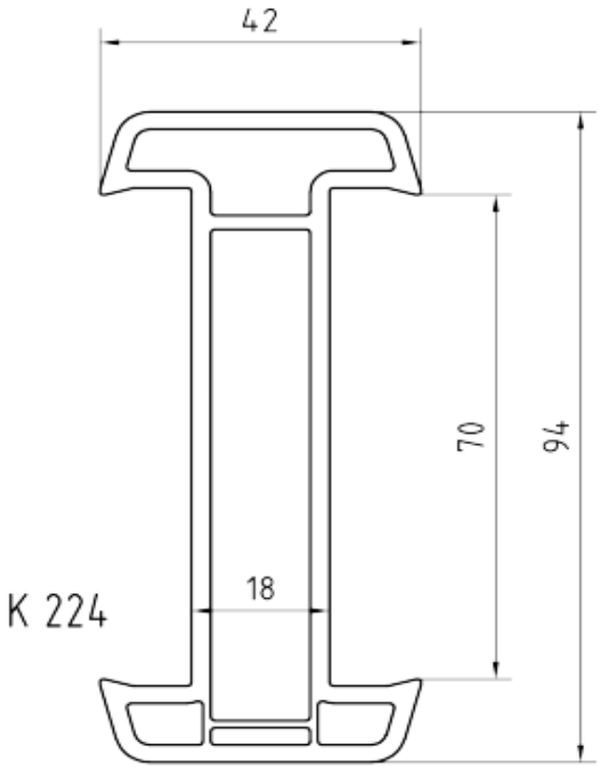

L 166




L 168

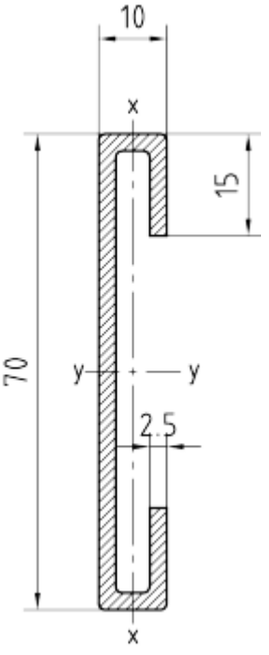

K 5
70
76
25


K 6
80
86
25




K 222

Steel

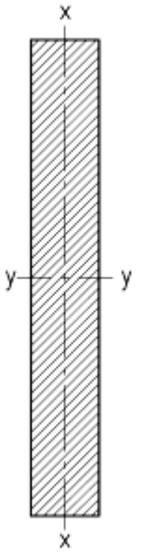



Jx=15.807cm$^4$

Jy=0.319cm$^4$

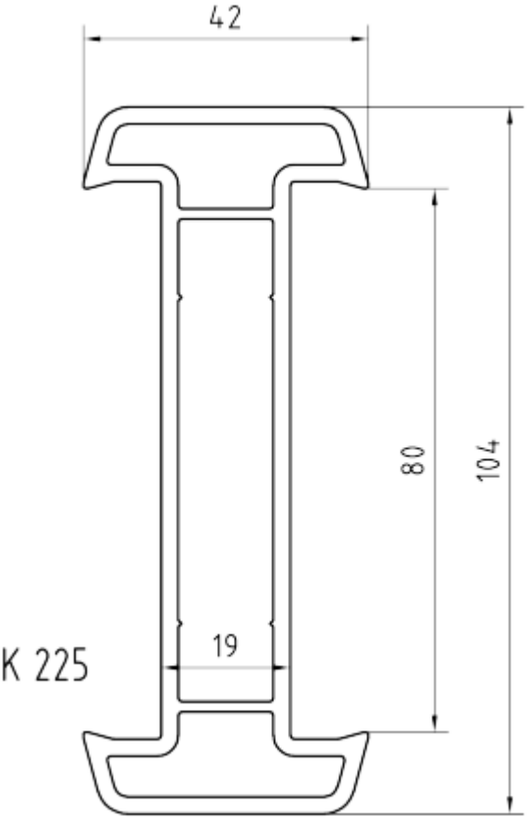
Steel •

70x10

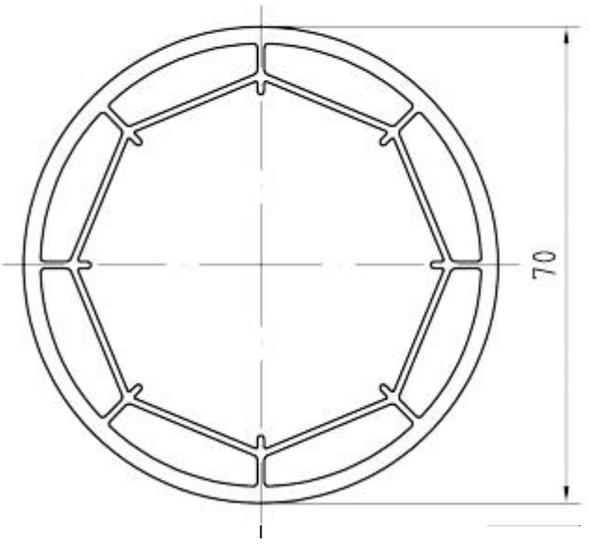



Jx=28.583cm$^4$

Jy=0.583cm$^4$



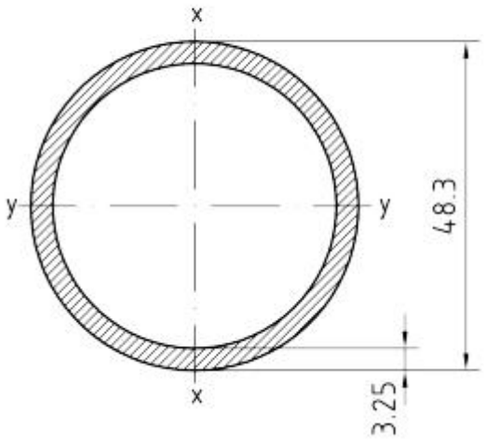

*profiles are delivered as ordered




## K 243

PVC

Variable round coupling

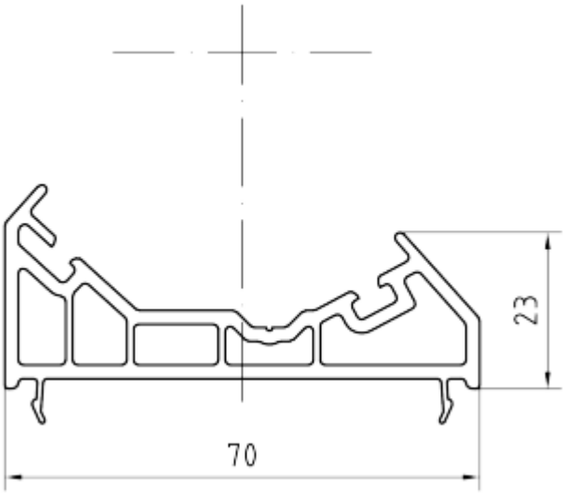



## K 233

Steel

Reinforcement for K243

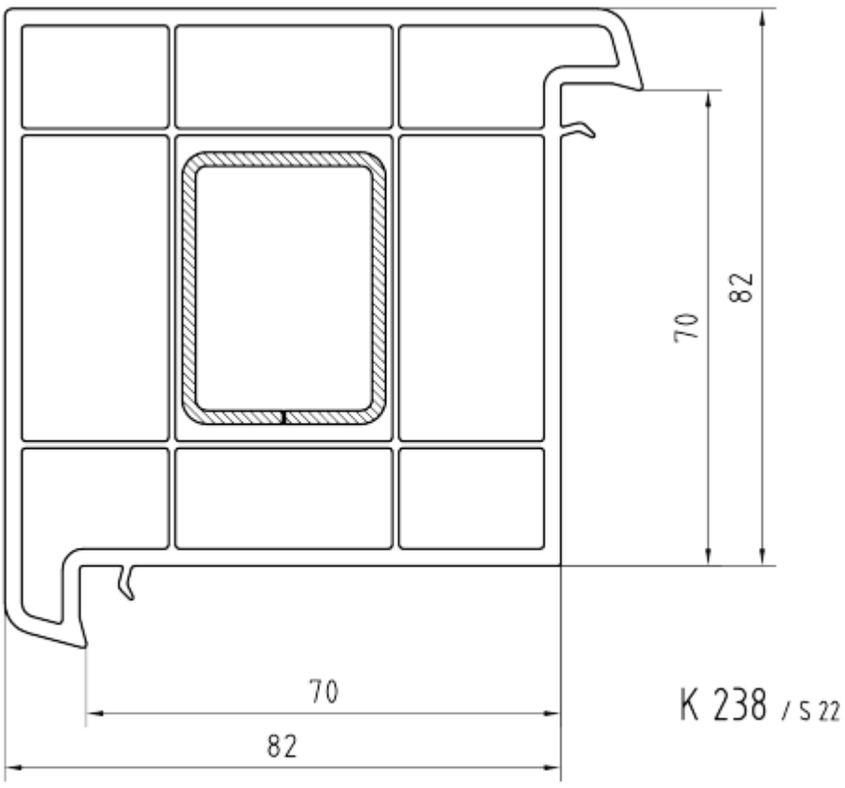
Jx= Jy=14.50cm$^4$

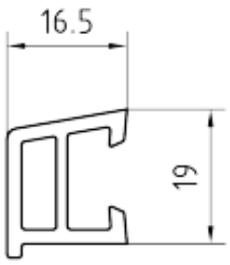



## K 245

PVC

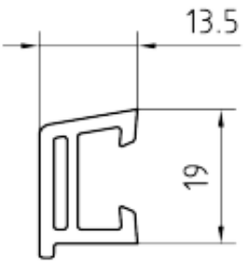
Connection profile for K243


70
82
70
82
K 238 / S 22



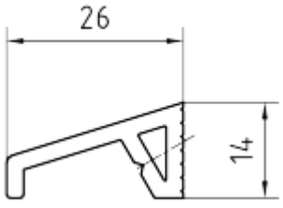

S 804

Drip
clipped



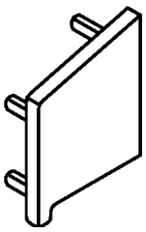

S 805

Drip
clipped




H 21

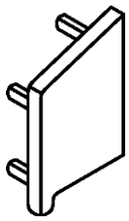
Drip
Adhesive and
screw



S 814

Drip cover

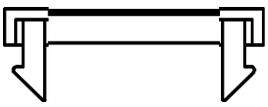
S 804



S 815

Drip cover

S 805



S 822

Water drain plug
30x5mm

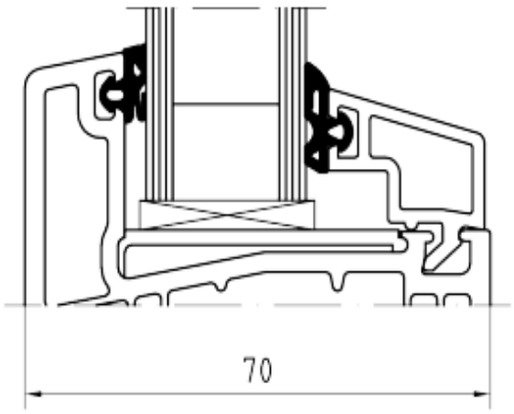
# Glazing - glass dimensions



Wing: CZ2-5
CZ4-6
CZ7-5
CT27-5
(ZB-4
(T28-4

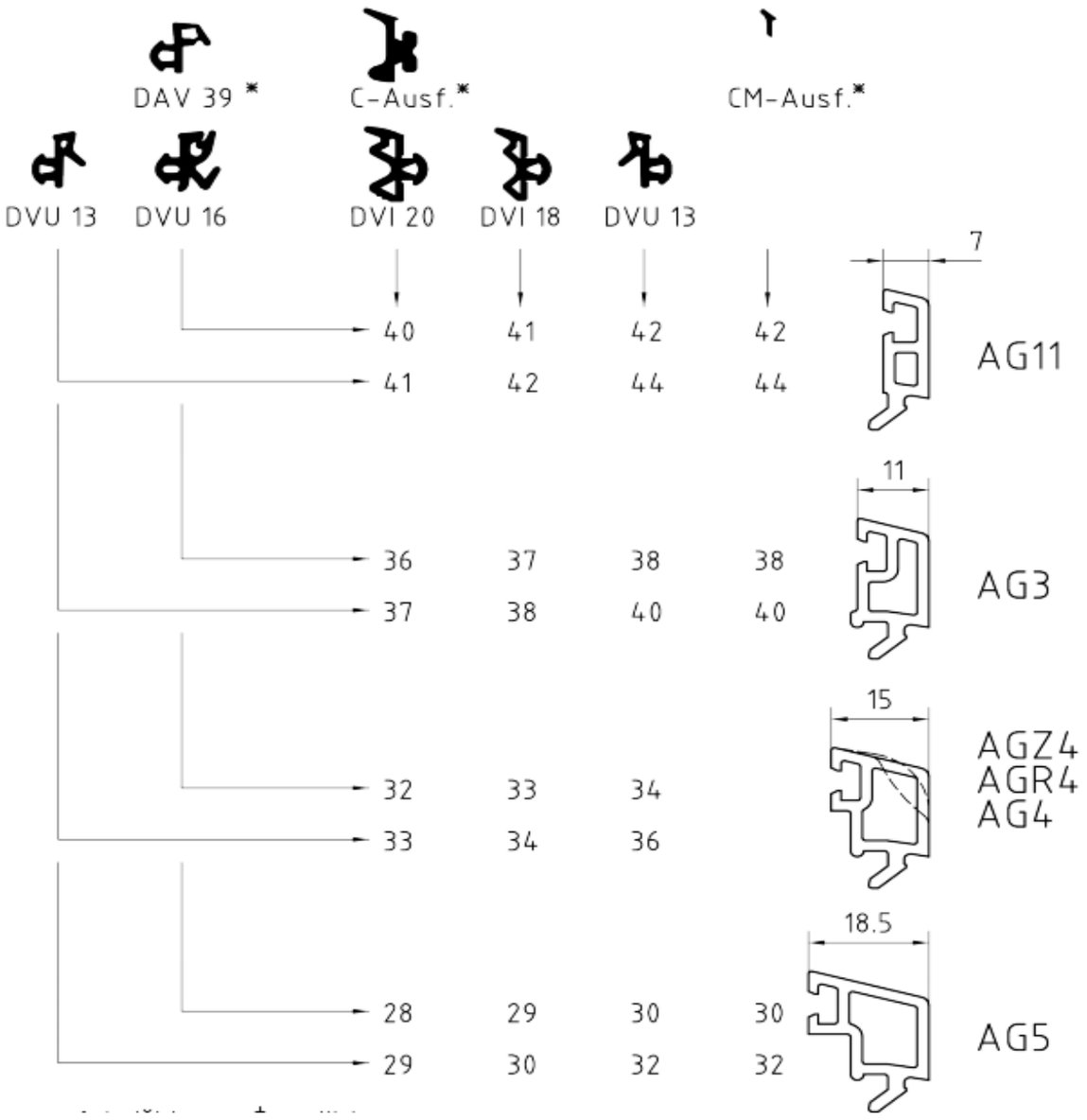
Mullion: CT2-4
CTM2-4

Door frame: CL2-5
CLM2-5
(L3-5
CLM3-5
CLS-5
CLMS-5
CL4-25
CLM4-25




Outside

Inside




**factory installed gasket*

# Glazing - glass dimensions

## LB. Profile

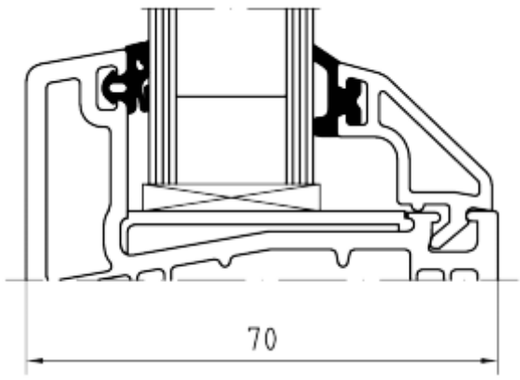
Wing: CZ2-5
CZ4-6
CZ7-5
CT27-5
CZ8-4
CT28-4

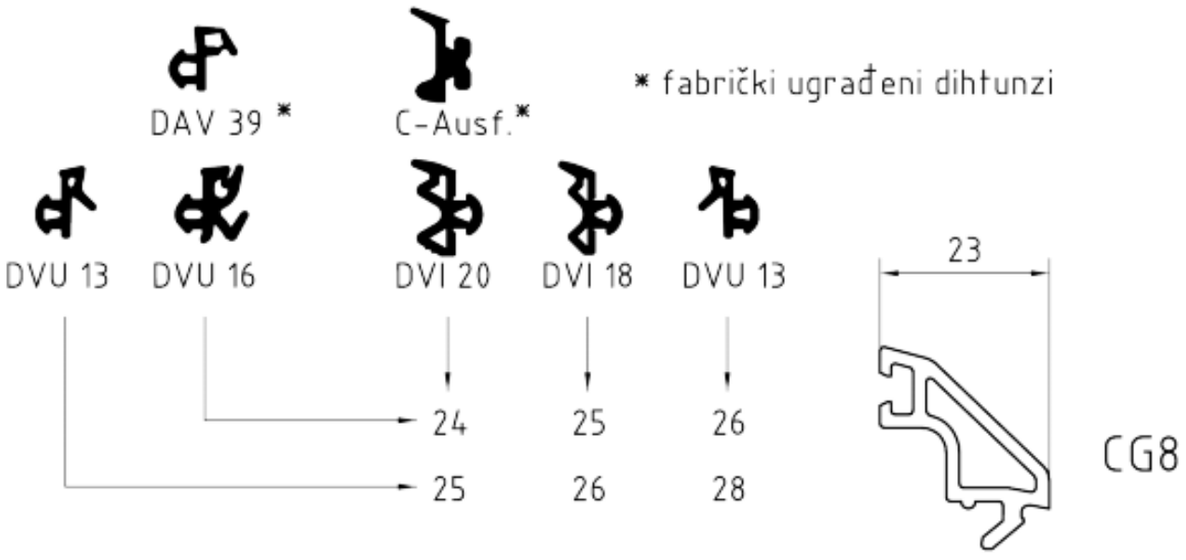
Mullion: CT2-4
CTM2-4

Door frame: CL2-5
CLM2-5
CL3-5
CLM3-5
CL5-5
CLM5-5
CL4-25
CLM4-25

Outside

Inside



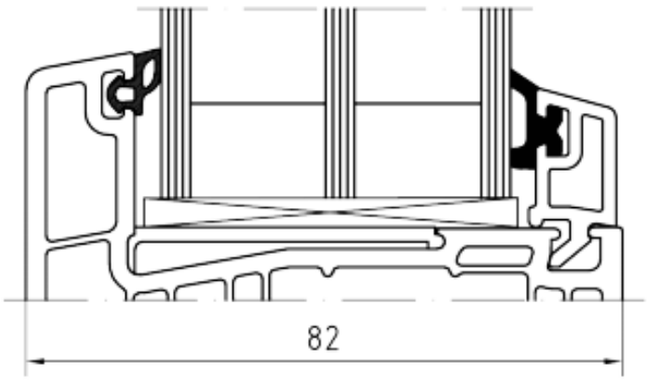




11.06

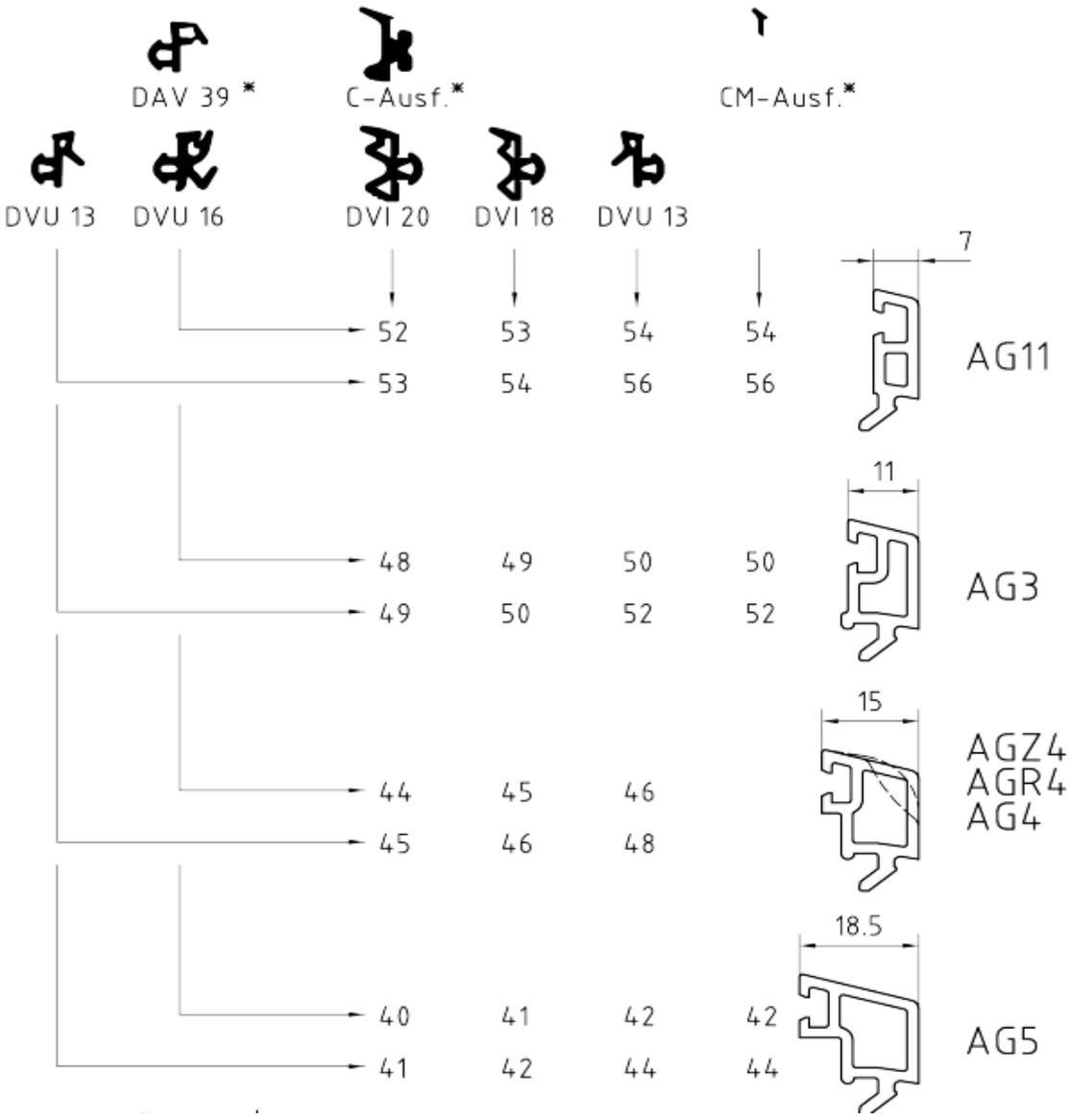
# Glazing - glass dimensions

# LB.Profile

Wing: CZ10-7




Outside Inside



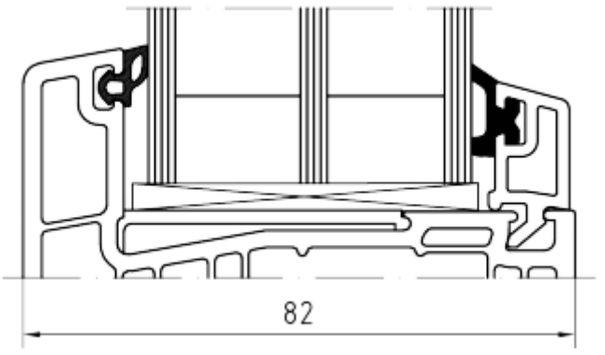

*factory installed gasket

11.07

# Glazing - glass dimensions

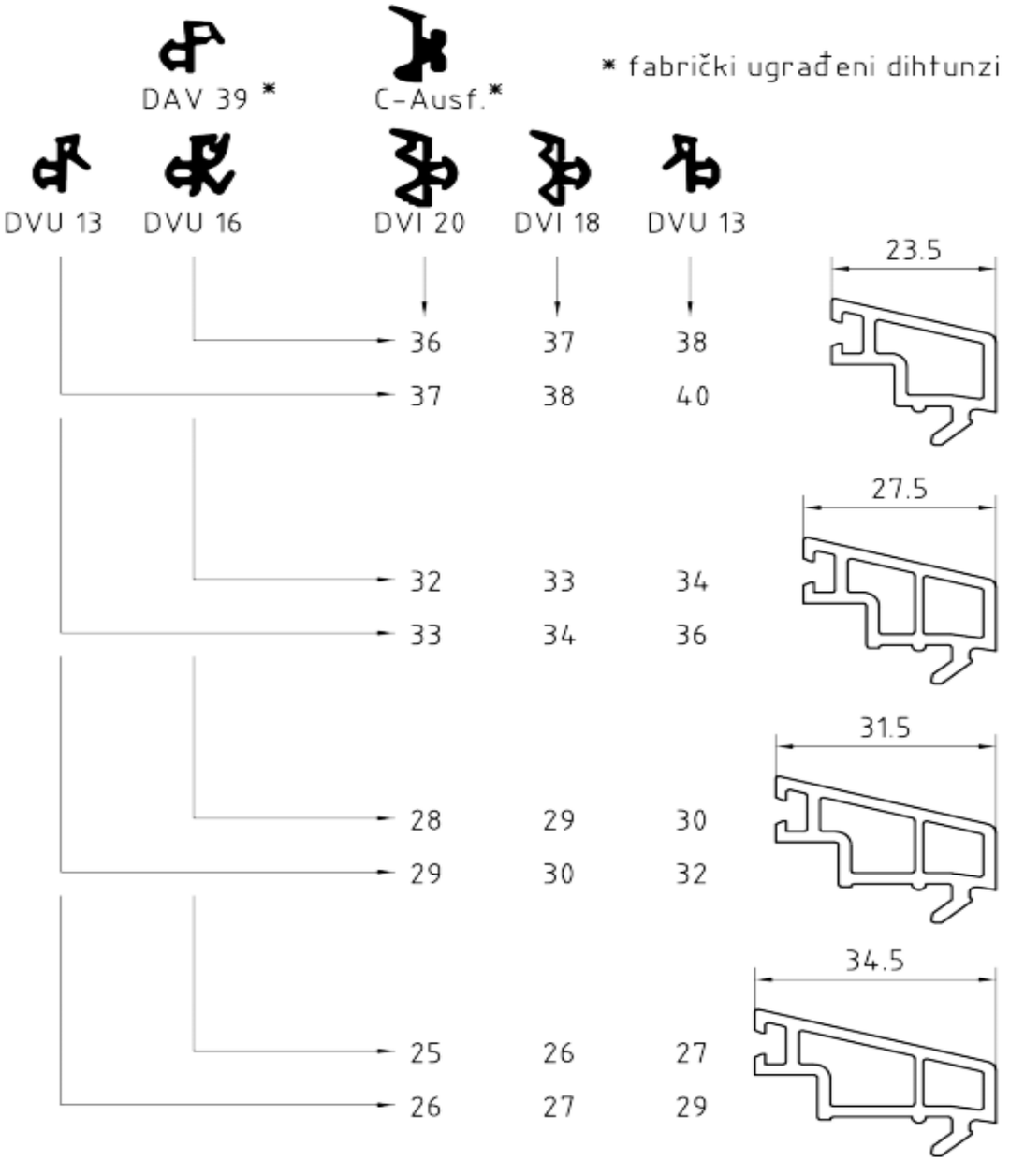
# LB.Profile

Wing: CZ10-7




Outside Inside

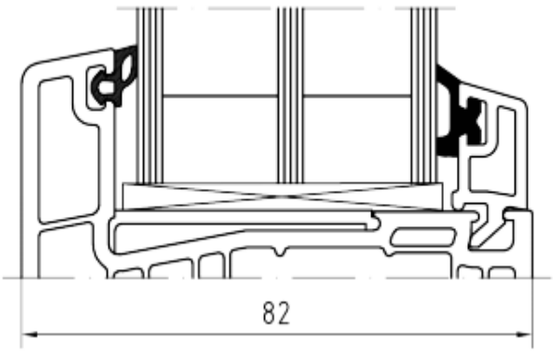
*factory installed gasket



# Glazing - glass dimensions

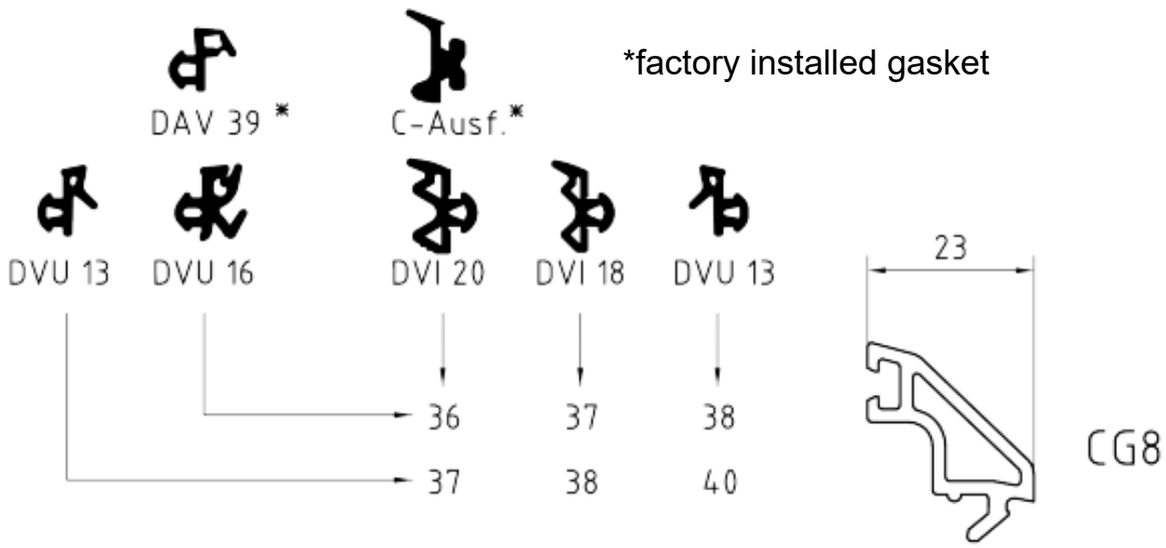
# LB.Profile

Wing: CZ10-7




Outside

Inside




*factory installed gasket

11.09

# Nachweis
## Energieeinsparung und Wärmeschutz

**Prüfbericht 402 28018/2**

ift ROSENHEIM

| | |
|---|---|
| Auftraggeber | **L.B. Profile GmbH**<br>Am Schlirfer Weg 2-4<br><br>36358 Herbstein |
| Produkt | Flügel- / Blendrahmen-Profilkombination |
| Bezeichnung | CL2-5 / CZ2-5 |
| Bautiefe | Bautiefe Blendrahmen 70 mm<br>Bautiefe Flügelrahmen 70 mm |
| Ansichtsbreite | 121 mm |
| Rahmenmaterial | PVC-U/weiß |
| Aussteifung | Stahl/verzinkt |
| Besonderheiten | Prüfung für eine Verglasungsdicke von 30 mm |

Wärmedurchgangskoeffizient

$U_f = 1{,}3\ W/(m^2 \cdot K)$

ift Rosenheim
Anerkannte Prüfstelle im bauaufsichtlichen Verfahren zur Bestimmung des Wärmedurchgangskoeffizienten
BAY 18

ift Rosenheim
15. März 2004

i.V. W. Sieberath
Ulrich Sieberath
Institutsleiter

i. A. Hans-Jürgen Hartmann
Leiter Prüffeld Wärmeschutz & Energietechnik

**Grundlagen**

EN 12412-2 : 2003-07
Bestimmung des Wärmedurchgangskoeffizienten mittels des Heizkastenverfahrens, Teil 2: Rahmen

Entspricht der nationalen Fassung DIN EN.

**Darstellung**

**Verwendungshinweise**

Dieser Prüfbericht dient zum Nachweis des Wärmedurchgangskoeffizienten $U_f$

**Gültigkeit**

Die genannten Daten und Ergebnisse beziehen sich ausschließlich auf den geprüften und beschriebenen Gegenstand.

Die Prüfung des Wärmedurchgangskoeffizienten ermöglicht keine Aussage über weitere leistungs- und qualitätsbestimmenden Eigenschaften der vorliegenden Konstruktion.

**Veröffentlichungshinweise**

Es gilt das ift-Merkblatt „Hinweise zur Benutzung von ift-Prüfberichten".

Das Deckblatt kann als Kurzfassung verwendet werden.

**Inhalt**

Der Nachweis umfasst insgesamt 5 Seiten



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Geschäftsführer
Dipl.-Ing.(FH) Ulrich Sieberath
Dr. Jochen Peichl

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BLZ 711 500 00

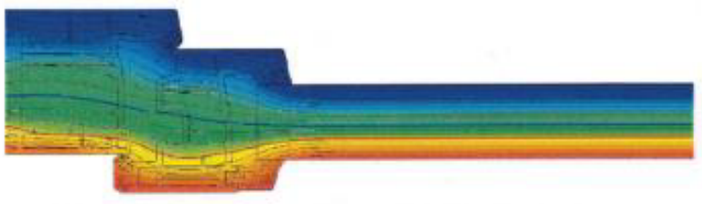
Anerkannte Prüf-, Überwachungs- und Zertifizierungsstelle
nach Landesbauordnung: BAY16
Notifizierung in Europa: Nr. 0757

# Prüfbericht (Kurzfassung)

Nr.: 070501-01K

| | |
|---|---|
| **Ort, Datum der Prüfung:** | **ROSENHEIM, 7. Mai 2007** |
| **Prüfer:** | **BAUWERK – Ingenieurbüro für Bauphysik** |
| Prüfgegenstand: | Blendrahmen-Flügel-Kombination aus PVC |
| Geprüft nach: | DIN EN ISO 10077-2:2003 u. DIN EN ISO 10077-1:2006 |
| **Hersteller:** | **L.B. Profile – Am Schlirfer Weg 2-4, 36358 Herbstein** |
| **Produktbezeichnung:** | **System PCD-AD (CL 3-5 / CZ 2-5)** |


| | Blendrahmen | Flügel |
|---|---|---|
| Material Profil: | CL 3-5 | CZ 2-5 |
| Material Dichtung: | EPDM | |
| Dämmung: | keine | keine |
| Armierung: | keine | keine |
| Glas: | Dicke 36 mm, Einstand 15 mm | |
| Bautiefe: | 70 mm | 70 mm |
| Ansichtsbreite: | 133 mm | |



**Ergebnisse:**

| $U_f$ in W/m²K<br>nach DIN EN ISO 10077-2:2003 | $U_g$ in W/m²K<br>nach DIN EN 673 | $\Psi_g$ in W/mK<br>Aluminium-Abstandhalter<br>nach DIN EN ISO<br>10077-1:2006, Tab. E.1 | $U_w$ in W/m²K<br>1,23 x 1,48 m<br>nach DIN EN ISO<br>10077-1:2006 |
|---|---|---|---|
| 1,3<br>(1,300) | 1,2 | 0,080 | 1,4 |
| | 1,1 | | 1,4 |
| | 1,0 | | 1,3 |

**Dipl.-Ing. (FH) Roland Steinert**
**ROSENHEIM, 7. Mai 2007**

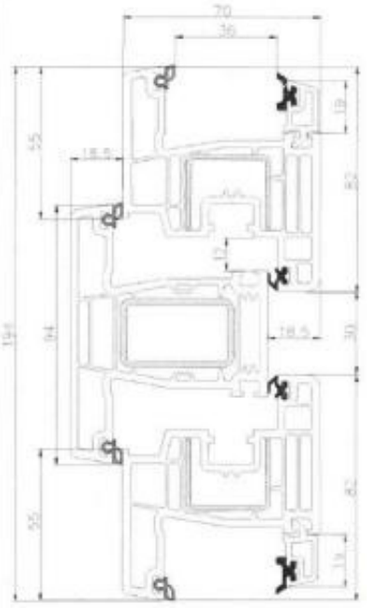
Ingenieurbüro für Bauphysik - www.waermeschutz.cc

**BAUWERK**
Ingenieurbüro für Bauphysik
Raublinger Str. 10
D-83026 Rosenheim
www.waermeschutz.cc

# Prüfbericht (Kurzfassung)

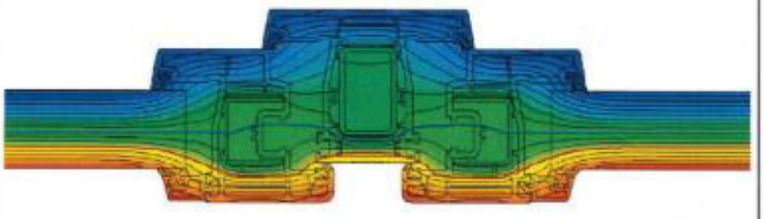
Nr.: 090803-02K

| | |
|---|---|
| **Ort, Datum der Prüfung:** | **ROSENHEIM, 24. September 2009** |
| **Prüfer:** | **BAUWERK – Ingenieurbüro für Bauphysik** |
| Prüfgegenstand: | Pfosten-Flügel-Kombination aus PVC |
| Geprüft nach: | DIN EN ISO 10077-2:2008 u. DIN EN ISO 10077-1:2006 |
| **Hersteller:** | **L.B. Profile – Am Schlirfer Weg 2-4, 36358 Herbstein** |
| **Produktbezeichnung:** | **System PCD-P-70AD-00 (CT 2-4 / CZ 2-5)** |



(Zeichnung: L.B.Profile)

| | Pfosten | Flügel |
|---|---|---|
| Material Profil: | CT 2-4 | CZ 2-5 |
| Material Dichtung: | EPDM | |
| Dämmung: | keine | keine |
| Armierung: | S21 | S12-15 |
| Glas: | Dicke 36 mm, Einstand 15 mm | |
| Bautiefe: | 70 mm | 70 mm |
| Ansichtsbreite: | 194 mm | |



(Isothermendarstellung bei 0 °C Außentemperatur und 20 °C Innentemperatur)

$$U_f = 1{,}5\ W/m^2K \quad (1{,}475)$$

**Dipl.-Ing. (FH) Roland Steinert**

**ROSENHEIM, 24. September 2009**

**BAUWERK**
Ingenieurbüro für Bauphysik
Raublinger Str. 10
D-83026 Rosenheim
www.waermeschutz.cc

# Nachweis
## Energieeinsparung und Wärmeschutz

**Prüfbericht 402 28018/1**

ift ROSENHEIM

| | |
|---|---|
| Auftraggeber | **L.B. Profile GmbH**<br>Am Schlirfer Weg 2-4<br><br>36358 Herbstein |
| Produkt | Flügel- / Blendrahmen-Profilkombination |
| Bezeichnung | CLM2-5 / CZ2-5 |
| Bautiefe | Bautiefe Blendrahmen 70 mm<br>Bautiefe Flügelrahmen 70 mm |
| Ansichtsbreite | 121 mm |
| Rahmenmaterial | PVC-U/weiß |
| Aussteifung | Stahl/verzinkt |
| Besonderheiten | Prüfung für eine Verglasungsdicke von 30 mm |

Wärmedurchgangskoeffizient

$U_f = 1{,}2\ W/(m^2 \cdot K)$

ift Rosenheim
Anerkannte Prüfstelle im bauaufsichtlichen Verfahren zur Bestimmung des Wärmedurchgangskoeffizienten
BAY 18

ift Rosenheim
15. März 2004

i.V. W. Sieberath

Ulrich Sieberath
Institutsleiter

i. A. Hans-Jürgen Hartmann
Leiter Prüffeld Wärmeschutz & Energietechnik

**Grundlagen**

EN 12412-2 : 2003-07
Bestimmung des Wärmedurchgangskoeffizienten mittels des Heizkastenverfahrens, Teil 2: Rahmen

Entspricht der nationalen Fassung DIN EN.

**Darstellung**

**Verwendungshinweise**

Dieser Prüfbericht dient zum Nachweis des Wärmedurchgangskoeffizienten $U_f$

**Gültigkeit**

Die genannten Daten und Ergebnisse beziehen sich ausschließlich auf den geprüften und beschriebenen Gegenstand.

Die Prüfung des Wärmedurchgangskoeffizienten ermöglicht keine Aussage über weitere leistungs- und qualitätsbestimmenden Eigenschaften der vorliegenden Konstruktion.

**Veröffentlichungshinweise**

Es gilt das ift-Merkblatt „Hinweise zur Benutzung von ift-Prüfberichten".

Das Deckblatt kann als Kurzfassung verwendet werden.

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Sparkasse Rosenheim
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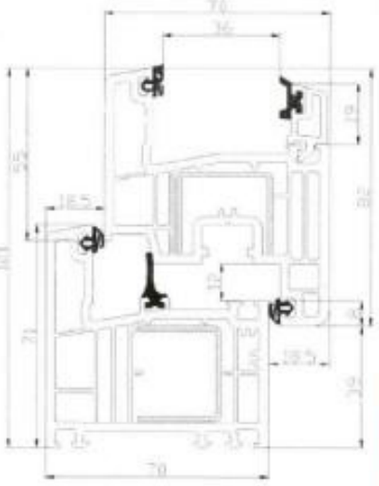
BLZ 711 500 00

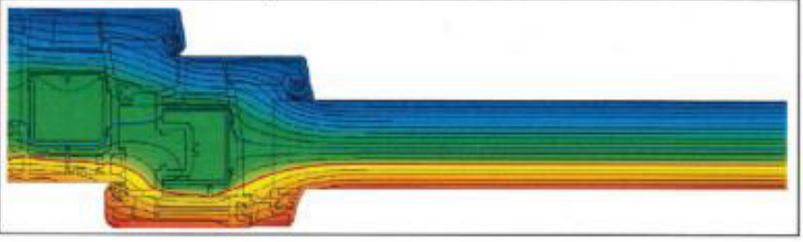
# Prüfbericht (Kurzfassung)

Nr.: 090603-02K

| | |
|---|---|
| **Ort, Datum der Prüfung:** | **ROSENHEIM, 2. Juli 2009** |
| **Prüfer:** | **BAUWERK – Ingenieurbüro für Bauphysik** |
| Prüfgegenstand: | Blendrahmen-Flügel-Kombination aus PVC |
| Geprüft nach: | DIN EN ISO 10077-2:2008 u. DIN EN ISO 10077-1:2006 |
| **Hersteller:** | **L.B. Profile – Am Schlirfer Weg 2-4, 36358 Herbstein** |
| **Produktbezeichnung:** | **System PCD (PCD-70/70-MD-14)** |



| | Blendrahmen | Flügel |
|---|---|---|
| Material Profil: | CLM 2-5 | CZ 2-5 |
| Material Dichtung: | EPDM | |
| Dämmung: | ohne | ohne |
| Armierung: | Stahl S12-15 | Stahl S12-15 |
| Glas: | Dicke 36 mm, Einstand 15 mm | |
| Bautiefe: | 70 mm | 70 mm |
| Ansichtsbreite: | 121 mm | |



**Ergebnisse:**

| $U_f$ in W/m²K<br>*nach DIN EN ISO 10077-2:2008* | $U_g$ in W/m²K<br>nach DIN EN 673 | $\Psi_g$ in W/mK<br>Aluminium-Abstandhalter<br>nach DIN EN ISO<br>10077-1:2006, Tab. E.1 | $U_w$ in W/m²K<br>*1,23 x 1,48 m*<br>*nach DIN EN ISO*<br>*10077-1:2006* |
|---|---|---|---|
| **1,3**<br>(1,349) | 1,2 | 0,080 | **1,4** |
| | 1,1 | | **1,4** |
| | 1,0 | | **1,3** |

**Dipl.-Ing. (FH) Roland Steinert**
**ROSENHEIM, 2. Juli 2009**

- Ingenieurbüro für Bauphysik - www.waermeschutz.cc

**BAUWERK**
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D-83026 Rosenheim
www.waermeschutz.cc

# Nachweis
## Luftschalldämmung von Bauteilen

Prüfbericht 161 35599 / 1.0

ift ROSENHEIM

| | |
|---|---|
| Auftraggeber | **L.B. Profile GmbH**<br>Am Schlirfer Weg 2 - 4<br><br>36358 Herbstein |
| Produkt | Einfachfenster, einflügelig |
| Bezeichnung | PCD-AD |
| Außenmaß (B x H) | 1230 mm × 1480 mm |
| Material | Kunststoff PVC-U weiß, mit Stahlarmierung |
| Öffnungsart | Drehkipp |
| Falzdichtungen | 1 Außendichtung, 1 Innendichtung |
| Füllung | Mehrscheiben-Isolierglas ,<br>4 mm Float - 16 - 4 mm Float |
| Besonderheiten | -/- |

Bewertetes Schalldämm-Maß $R_w$
Spektrum-Anpassungswerte C und $C_{tr}$

$$R_w\,(C;\,C_{tr}) = 34\ (-1;-4)\ \text{dB}$$

ift Rosenheim
08. August 2008

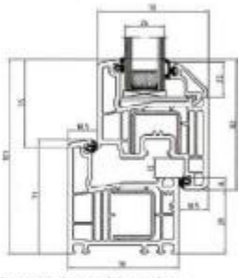
Andreas Preuss, Dipl.-Ing. (FH)
Geschäftsfeldleiter
ift Schallschutzzentrum

Bernd Saß, Dipl.-Ing. (FH)
Stv. Prüfstellenleiter
ift Schallschutzzentrum

**Grundlagen**

EN ISO 140-1:1997+A1:2004
EN 20140-3 :1995+A1:2004
EN ISO 717-1 : 1996+A1:2006

**Darstellung**



**Verwendungshinweise**

Dieser Prüfbericht dient zum Nachweis der Schalldämmung eines Bauteils.

Für Deutschland gilt

- $R_{w,R}$ nach DIN 4109: ($R_w$ entspricht $R_{w,P}$, $R_{w,R} = R_{w,P} - 2$ dB)
- $R_{w,R}$ für Bauregelliste

**Gültigkeit**

Die genannten Daten und Ergebnisse beziehen sich ausschließlich auf den geprüften und beschriebenen Probekörper.

Die Prüfung der Schalldämmung ermöglicht keine Aussage über weitere leistungs- und qualitätsbestimmenden Eigenschaften der vorliegenden Konstruktion.

**Veröffentlichungshinweise**

Es gilt das ift-Merkblatt „Bedingungen und Hinweise zur Verwendung von ift-Prüfdokumentationen".

Das Deckblatt kann als Kurzfassung verwendet werden.

**Inhalt**

Der Nachweis umfasst insgesamt 9 Seiten



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Geschäftsführer:
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Fax: +49 (0)8036/3006-33
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Notified Body Nr. 0757
Anerkannte PÜZ-Stelle: BAY 18
DAP-PL-0808.99
Sachverständige Prüfstelle Gruppe I
für Eignungs- und Güteprüfung DIN 4109

# Nachweis
## Luftschalldämmung von Bauteilen

Prüfbericht 161 35599 / 2.4

ift ROSENHEIM

| | |
|---|---|
| Auftraggeber | **L.B. Profile GmbH**<br>Am Schlirfer Weg 2 - 4<br><br>36358 Herbstein |
| Produkt | Einfachfenster, einflügelig |
| Bezeichnung | PCD-MD |
| Außenmaß (B x H) | 1230 mm × 1480 mm |
| Material | Kunststoff PVC-U weiß, mit Stahlarmierung |
| Öffnungsart | Drehkipp |
| Falzdichtungen | 1 Außendichtung, 1 Mitteldichtung, 1 Innendichtung |
| Füllung | Mehrscheiben-Isolierglas ,<br>4 mm Float - 16 - 4 mm Float |
| Besonderheiten | Prüfung mit erhöhter Schließkraft |

Bewertetes Schalldämm-Maß $R_w$
Spektrum-Anpassungswerte C und $C_{tr}$

$R_w\ (C;\ C_{tr})$ = 34 (-1;-4) dB

ift Rosenheim
22. Oktober 2008

J. Hessinger

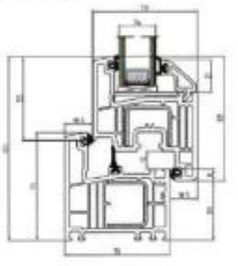
Dr. Joachim Hessinger, Dipl.-Phys.
Prüfstellenleiter
ift Schallschutzzentrum

Bernd Saß

Bernd Saß, Dipl.-Ing. (FH)
Stv. Prüfstellenleiter
ift Schallschutzzentrum

**Grundlagen**
EN ISO 140-1:1997+A1:2004
EN 20140-3 :1995+A1:2004
EN ISO 717-1 : 1996+A1:2006

**Darstellung**



**Verwendungshinweise**
Dieser Prüfbericht dient zum Nachweis der Schalldämmung eines Bauteils.

Für Deutschland gilt
- $R_{w,R}$ nach DIN 4109: ($R_w$ entspricht $R_{w,P}$, $R_{w,R} = R_{w,P} - 2$ dB)
- $R_{w,R}$ für Bauregelliste

**Gültigkeit**
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Die Prüfung der Schalldämmung ermöglicht keine Aussage über weitere leistungs- und qualitätsbestimmenden Eigenschaften der vorliegenden Konstruktion.

**Veröffentlichungshinweise**
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**Inhalt**
Der Nachweis umfasst insgesamt 10 Seiten





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Increaded energy efficiency

Excellent sound insulation

Solved thermal insulation

High degree of safety protection

# PCD82

SYSTEM WITH **7 CHAMBERS** AND INSTALLATION DEPTH OF

**82mm**

Napomena

# PCD 82 System Processing Guidelines

**PCD 82 System -** Seven-chamber system with middle gasket and installation depth of 82 mm.

**Material -** Basic and additional profiles are made of hard PVC in moulds shaped according to ISO 1163 PVC, EDLP, 081-55-T26.

**Gasket-**PCD 82 system is a system with an intermediate gasket, and the profiles can be delivered with or without installed gaskets. The gaskets are made of EPDM (APTK) and are delivered in good quality and protected from atmospheric influences. The gaskets are installed in the wings and frames by being fixed around the perimeter and glued in the middle of the upper side. The gaskets that are inserted into the profiles at the factory are welded to the profiles.

**Profile cutting -** It is very important that sharp tools are used when cutting profiles, and friction and excessive heat will be generated on the saw during cutting, which will have a bad effect on the quality of the cut and weld. When cutting, the profile must be firmly attached to the saw and it is necessary to avoid shearing of the profile during cutting. Window profiles are to be cut on a saw with an angular position of 45°.

**Drainage -** Drainage slots must be made after cutting, before welding the profile. Special attention should be paid to adequate drainage on the bottom window frame. A double-casement window requires four 5x30 mm slots, while a single-casement window requires two 5x30 mm slots.

**Reinforcement -** The steel reinforcement of the profile is galvanised according to DIN EN 10147. The wall thickness of all reinforcements should be at least 1.5 mm. Steel reinforcements are to be fastened with screws and the first screw for fastening reinforcements should be approximately 150-200 mm distant from corners or oblique cuts. The distance between the screws should be approx. 300 mm. Appropriate reinforcements for certain profiles are listed in the technical characteristics of the system. With coloured profiles, it is always necessary to have reinforcement.

**Welding -**a butt welding machine is used for welding, with a plate that heats the profiles with its both sides. The profile heating plate is coated with Teflon. The welding temperature measured on the profile heating plate is 245-250° C. Welding machines must have appropriate tools adapted to the shape of the profile, so as to be able to weld them. For optimal and regular welding, the following steps are indicated:

| | |
|---|---|
| 1. Welding temperature | 245-250° C, |
| 2. Melting time | approx 35 sec., |
| 3. Cooling time | approx 60 sec., |
| 4. Processing and storage temperature | room temperature, |
| 5. Clamping pressure | 6 Bar. |

**Installation of door/window fittings -** All standard fittings of the manufacturer can be used for LB profiles. All of the door/window fittings are to be fastened with screws. The permitted distance between locking points depends on the load group. The locking points should be at a distance ≤800 mm. For casements/wings with dimensions over 700 mm, additional locking should be in place, if possible. For doors and windows, the locking must not exceed a distance of more than 200 mm from the corners.

**Glass distance pads -** Since glass does not have to take over the carrying function, glass distance pads have the following tasks:

- Distribute the weight of the glass in the frame,
- Permanent setting of the frame,
- Ensure window controllability,
- Prevent direct contact between the glass and the frame.

**Glazing -** The glass thickness must be matched with the glass trim. The manufacturer of the LB profile offers special glass distance pads.

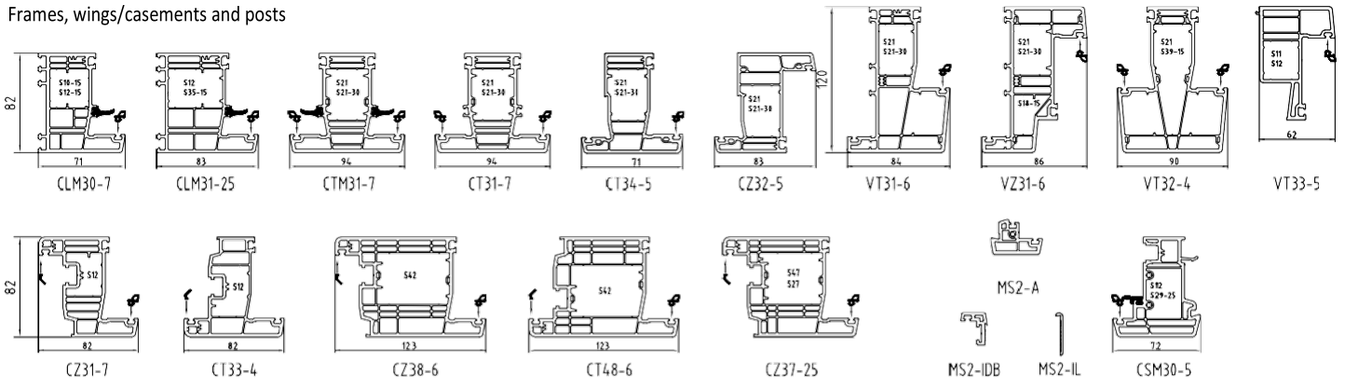
**Plastic windows -** In the case of white and coloured profiles, it is necessary to adhere to the regulations on stiffness, size ratio (width/height) and casement weight. PVC profiles must be reinforced with steel reinforcements during loading. The reinforcements inserted into the profiles are cut at 90° angle. The length of the reinforcement must be determined so that during welding the reinforcement does not interfere with the PVC profile welding process itself. The steel reinforcements must be shorter by 10-15 mm than the inner edge of the profile itself. With painted and coated window systems, for technical reasons, larger deviations in colour may appear than is the case with white profiles. It should be added that in the case of dark profiles, a small difference in the size of the colour may affect the level of gloss. Individual lengths of fixed frames for white profiles must not exceed 3500 mm, and for coloured profiles 2500 mm. Larger openings are divided into several windows that are connected by connecting elements.

**Transport and storage -** LB profiles with middle PCD 82 gasket are packed in pallets and covered with protective films. The quantities of profiles in pallets can be found in the price list, and the length of PVC profiles is 6 m and 6.5 m. Profiles should be stored in pallets or on shelves with a solid bottom to prevent the profile loosening and twisting. The profiles must not be pulled from the pallet or from the shelves in order to avoid scratching. Profile processing and storage is always done at the same temperature. The temperature must be at least 15° C. The profiles must have the same working temperature as the room where they are processed. If this is not possible, it is necessary to store the profiles in the working room for at least 8-10 hours before being processed. The profiles must be protected from the solar radiation, even if they are behind glass.

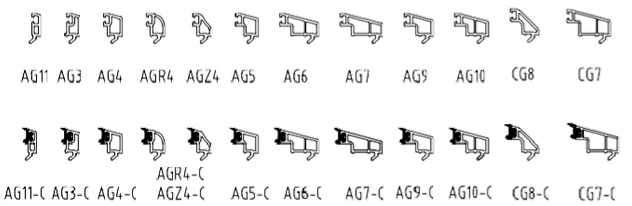
# LB. Profile PCD82 Concept

Februar 2019

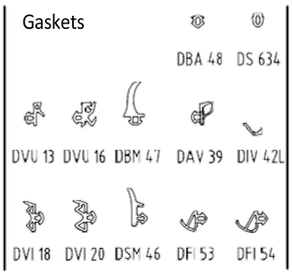
## Frames, wings/casements and posts



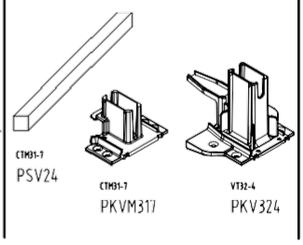

## Glass beads



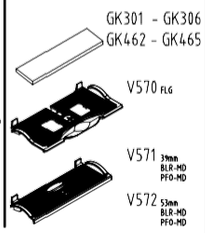

## Gaskets



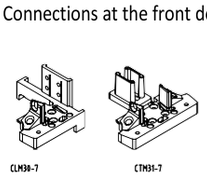

## Connectors



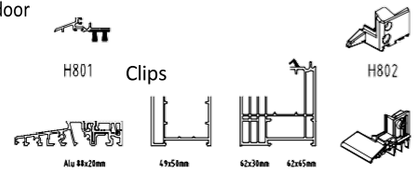

## Glazing sides

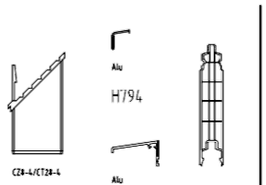



## Connections at the front door




## Clips

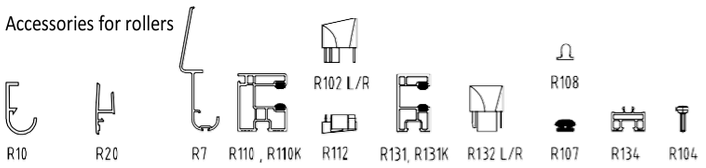



## Clips

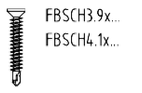

## Fragments


## Accessories for rollers

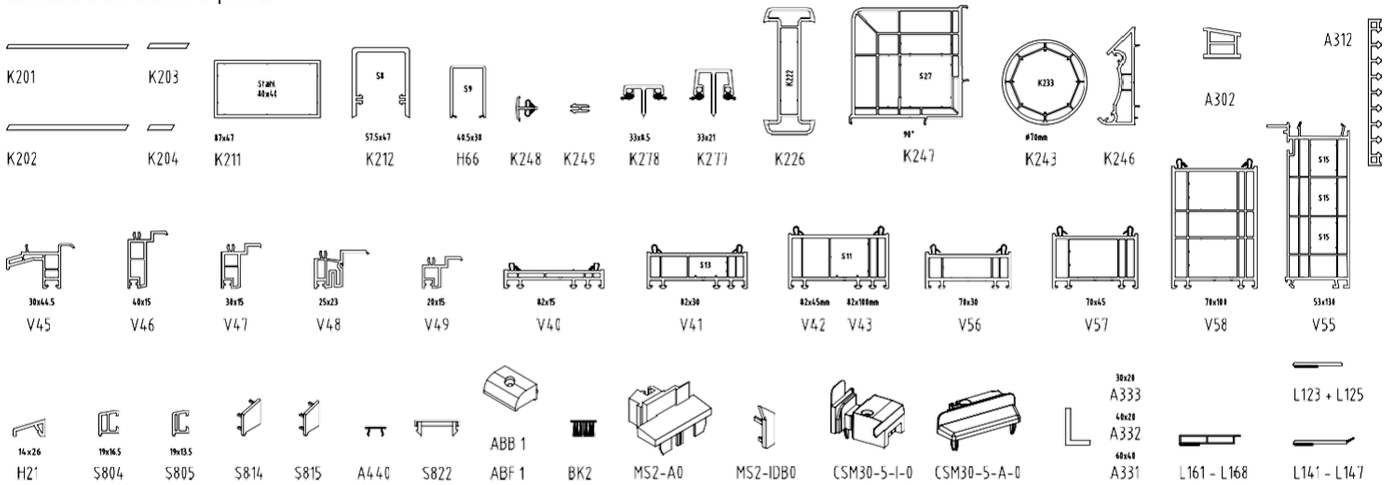



## Ornamental sprouts

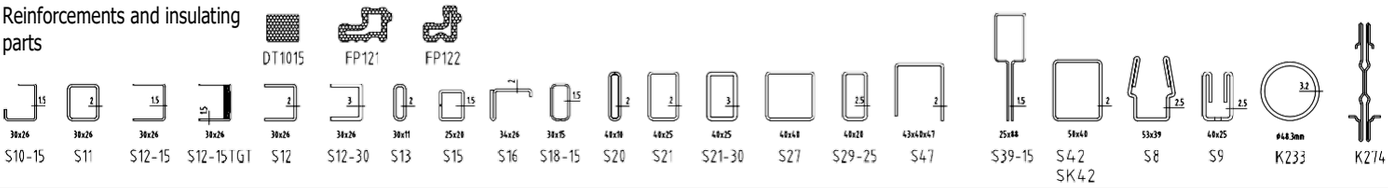

## Screws




## Connectors and additional profiles



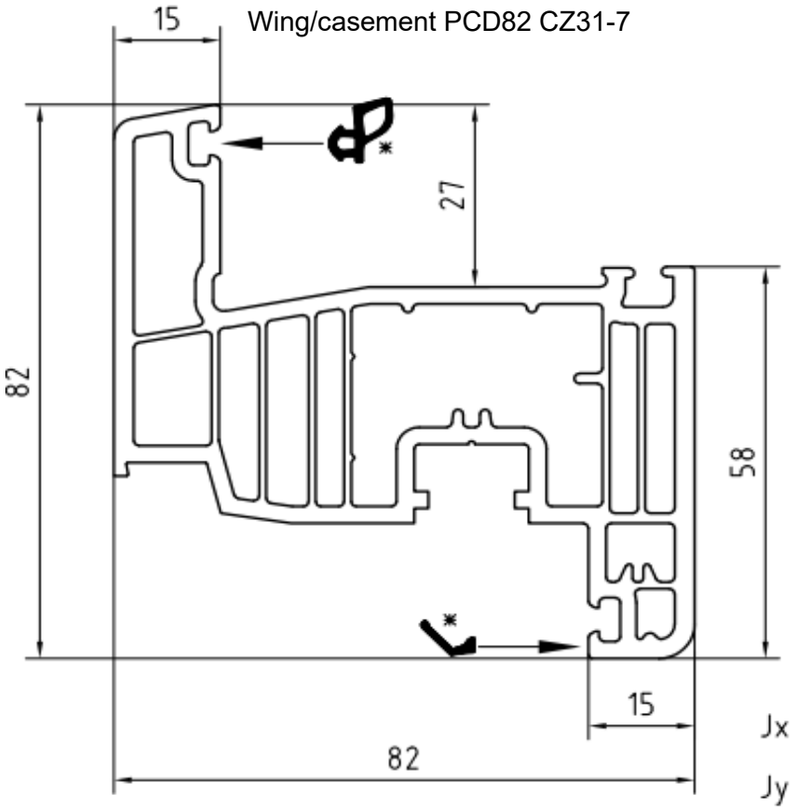

## Reinforcements and insulating parts



# Profiles - With middle gasket

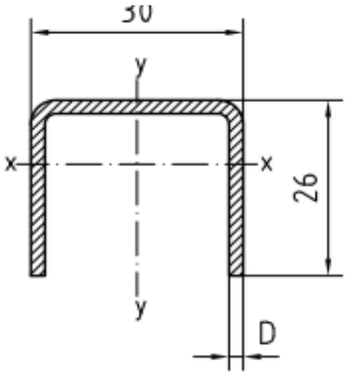
## LB. Profile

Wing/casement PCD82 CZ31-7




S 12-15 / S 12 / S 12-30

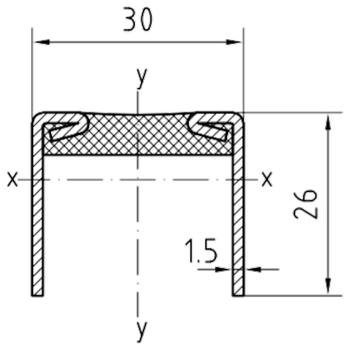
U-profile
Galvanised steel




| D=1.5 | D=2 | D=3 |
|---|---|---|
| $Jx=1.8cm^4$ | $Jx=2.2cm^4$ | $Jx=3.1cm^4$ |
| $Jy=0.8cm^4$ | $Jy=1.1cm^4$ | $Jy=1.5cm^4$ |

S 12-15 TGT **

Thermally insulated
galvanized steel

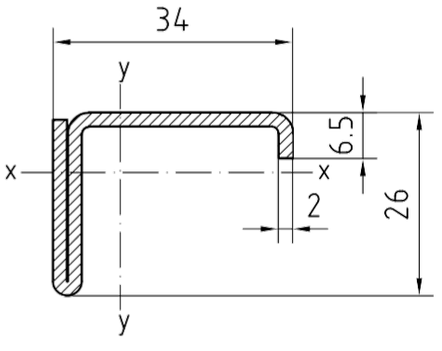



$Jx=1.9cm^4$

$Jy=0.74cm^4$

S 16 **

L - profile
Galvanized steel




$Jx=2.5cm^4$

$Jy=0.6cm^4$

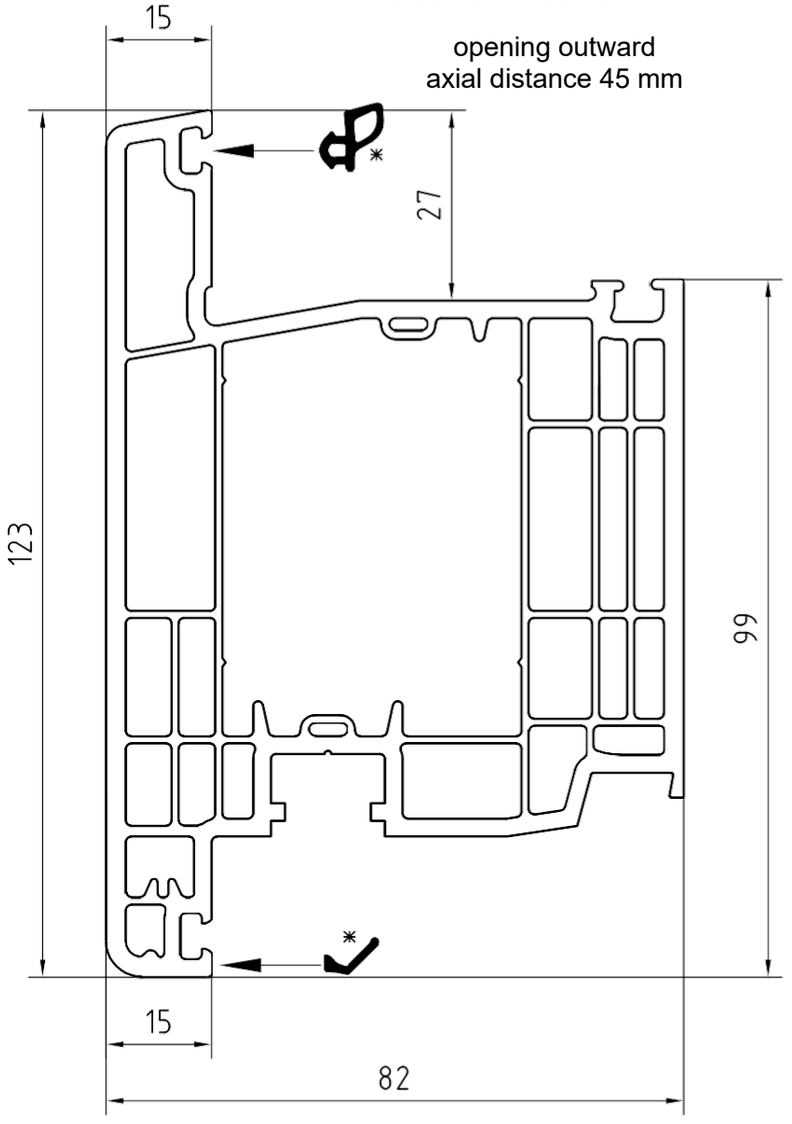
* factory installed gaskets

** profiles are delivered as ordered

# Profiles - With middle gasket

## LB. Profile

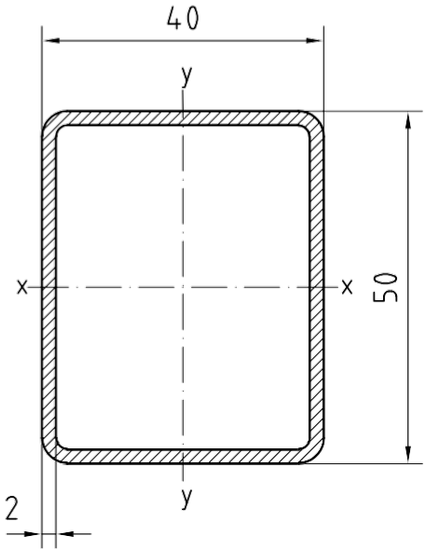
### Haustür PCD82 CT48-6




opening outward
axial distance 45 mm

S 42

4 kt - Profile
Galvanised steel

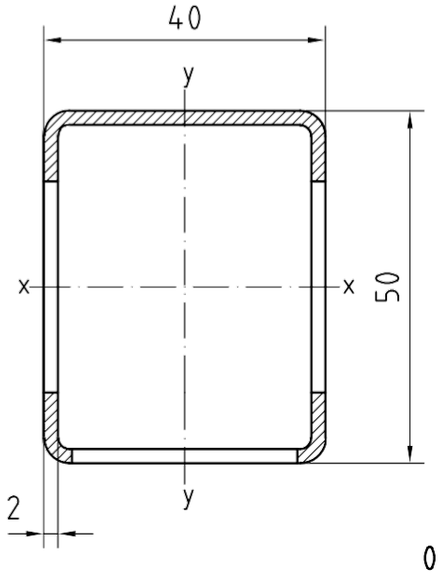



$Jx = 8.4 cm^4$

$Jy = 11.9 cm^4$

SK 42

pre-processed 4 kt - Profile
Galvanised steel




* factory installed gaskets

** profiles are delivered as ordered

02.16

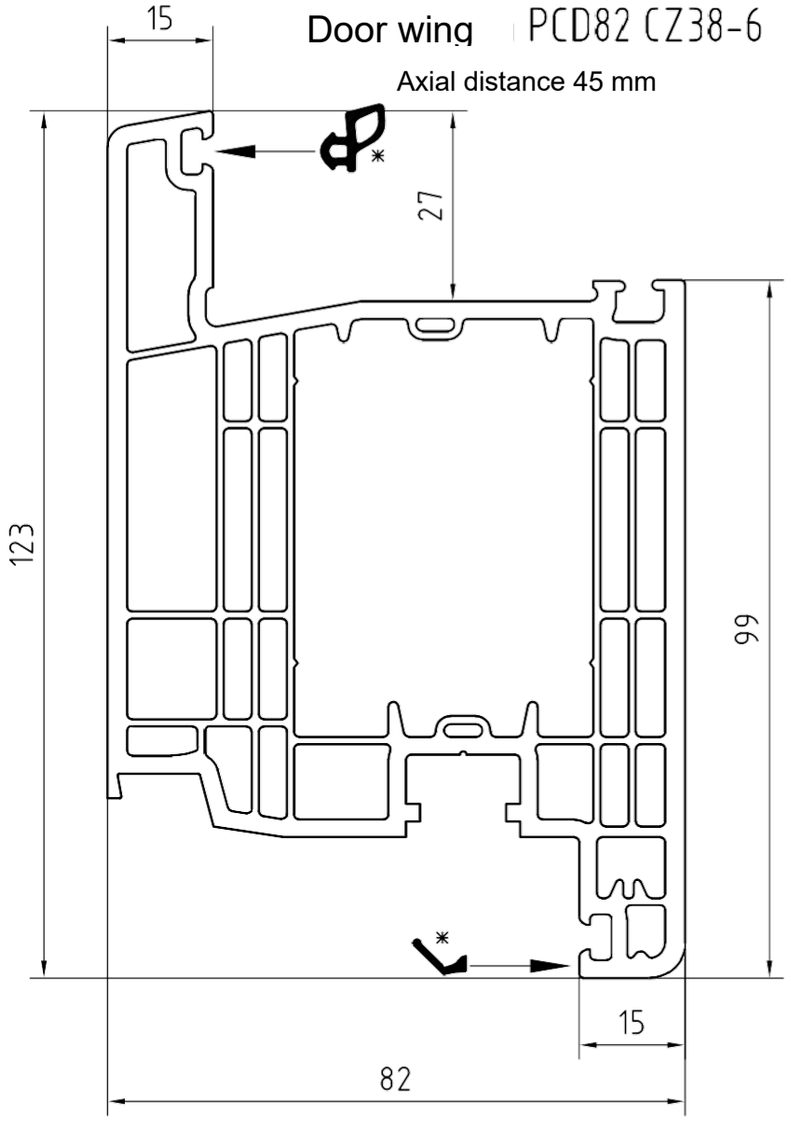
# Profiles - With middle gasket

## LB. Profile

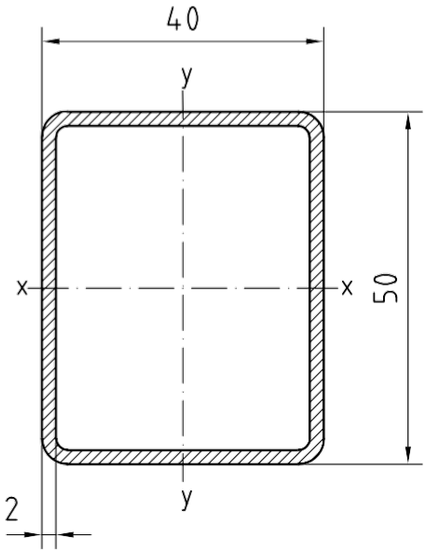
Door wing PCD82 CZ38-6

S 42

Axial distance 45 mm




4 kt - Profile
Galvanised steel

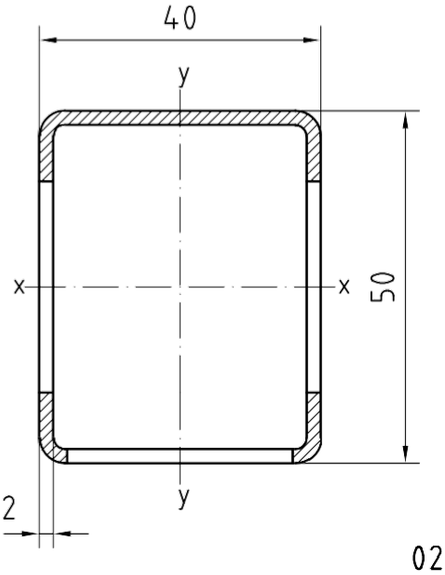



$Jx = 8.4 cm^4$

$Jy = 11.9 cm^4$

SK 42**

pre-processed 4 kt - Profile
Galvanised steel




* factory installed gaskets

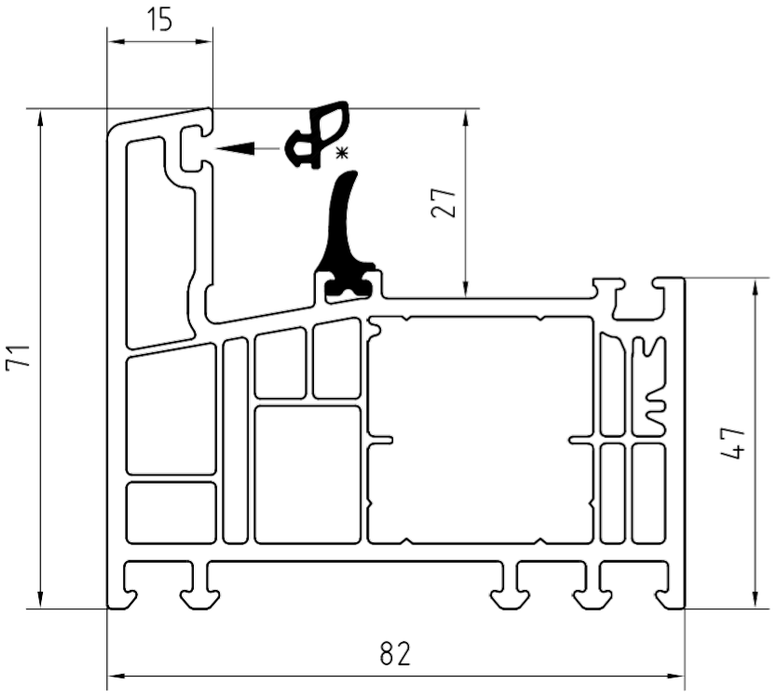
** profiles are delivered as ordered

02.14

# Profiles - With middle gasket

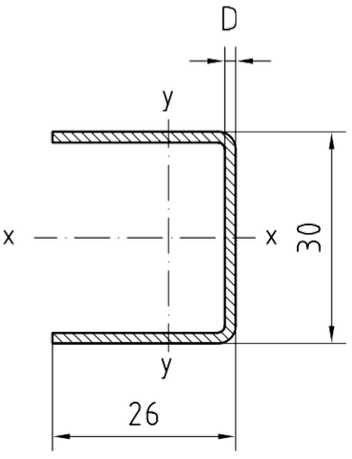
## LB. Profile

Door frame PCD82 CLM30-7




S 12-15 / S 12 / S 12-30

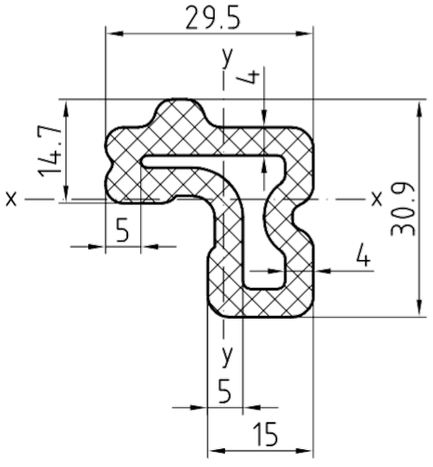
U - profile
Galvanised steel




| D=1.5 | D=2 | D=3 |
|---|---|---|
| $Jx=0.8cm^4$ | $Jx=1.1cm^4$ | $Jx=1.5cm^4$ |
| $Jy=1.8cm^4$ | $Jy=2.2cm^4$ | $Jy=3.1cm^4$ |

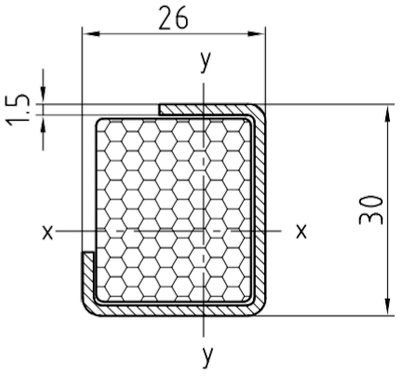
FP 122

R - Profile
insulation




S 10-15 + DT 1015

G - Profile
Galvanised steel
with insulation




$Jx=1.7cm^4$

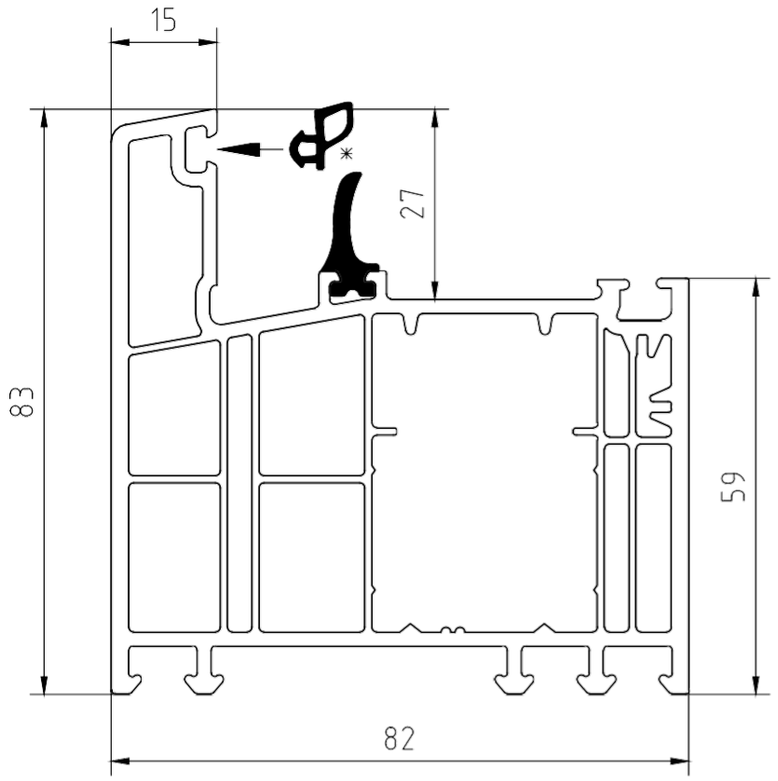
$Jy=0.8cm^4$

* factory installed gaskets

** profiles are delivered as ordered

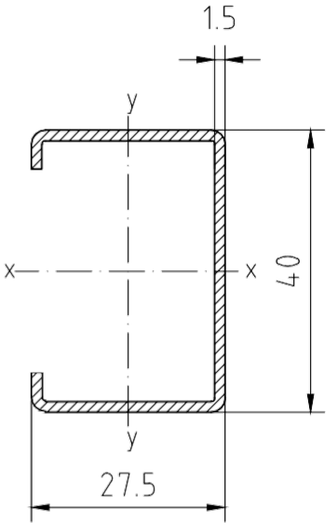
# Profiles - Mitteldichtung

## Door frame PCD82 CLM31-25




S 35-15

C - profile
Galvanised steel

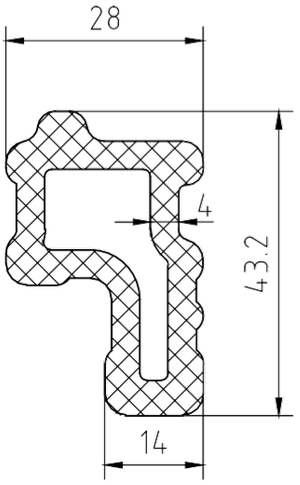



$Jx = 1.4 cm^4$

$Jy = 3.9 cm^4$

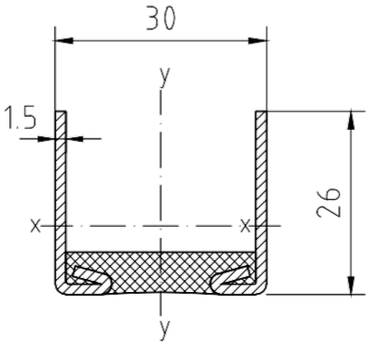
FP 121

R - Profile
PVC - Foam - Reinforcement




S 12-15 TGT

thermally separated
Galvanised steel

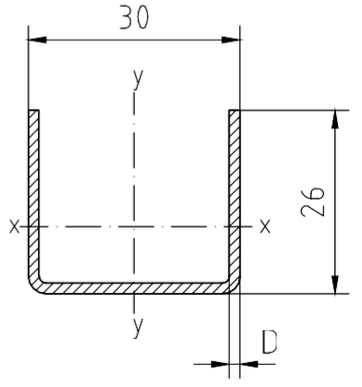



$Jx = 1.9 cm^4$

$Jy = 0.74 cm^4$

S 12 / S 12-15 / S 12-30

U profile
Galvanised steel




| D=1.5 | D=2 | D=3 |
|---|---|---|
| $Jx = 1.8 cm^4$ | $Jx = 2.2 cm^4$ | $Jx = 3.1 cm^4$ |
| $Jy = 0.8 cm^4$ | $Jy = 1.1 cm^4$ | $Jy = 1.5 cm^4$ |

*factory installed gaskets

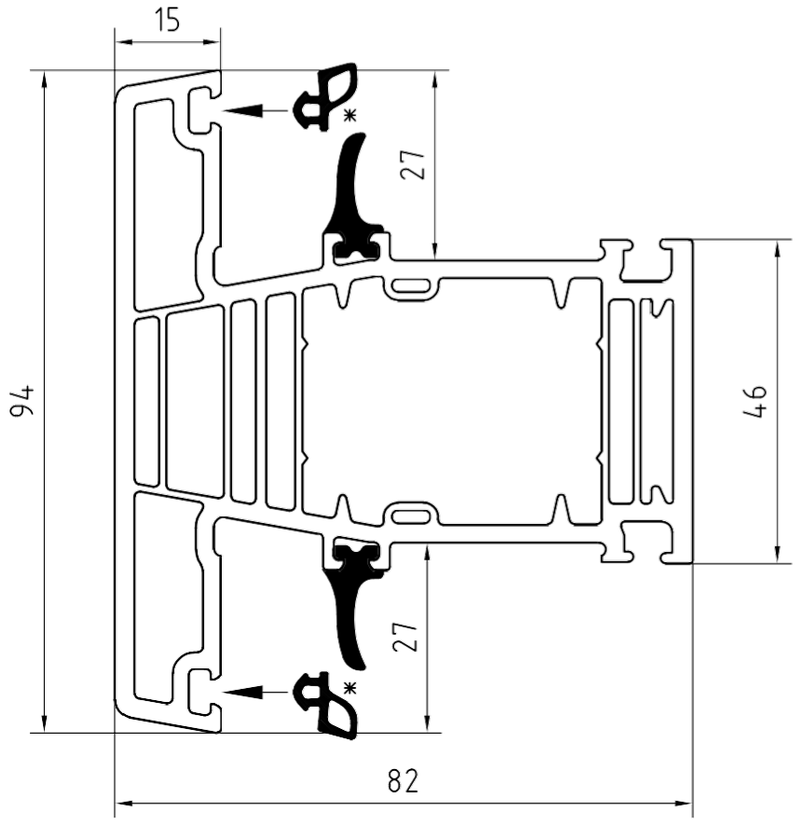
# Profiles - With middle gasket

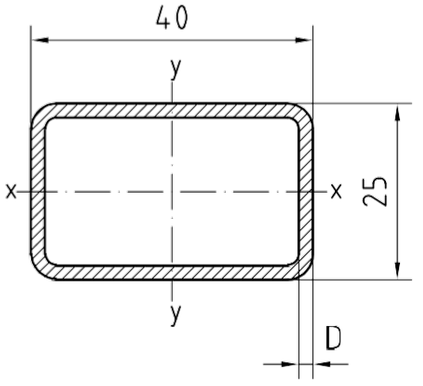
## LB. Profile

Bar PCD82 CTM31-7

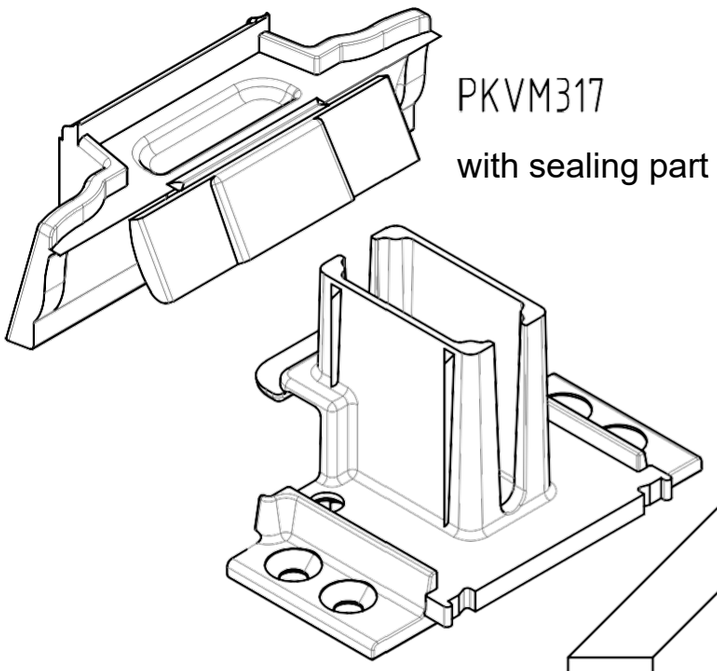
S 21 / S 21-30

4 kt - Profile
Galvanised steel



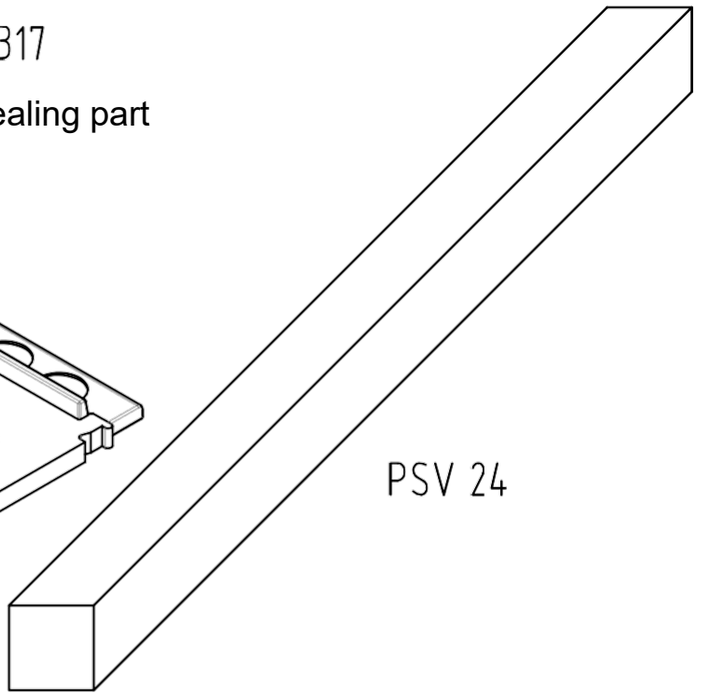




| D=2 | D=3 |
|---|---|
| $Jx=4.8cm^4$ | $Jx=6.7cm^4$ |
| $Jy=2.3cm^4$ | $Jy=3.1cm^4$ |



PKVM317

with sealing part



PSV 24

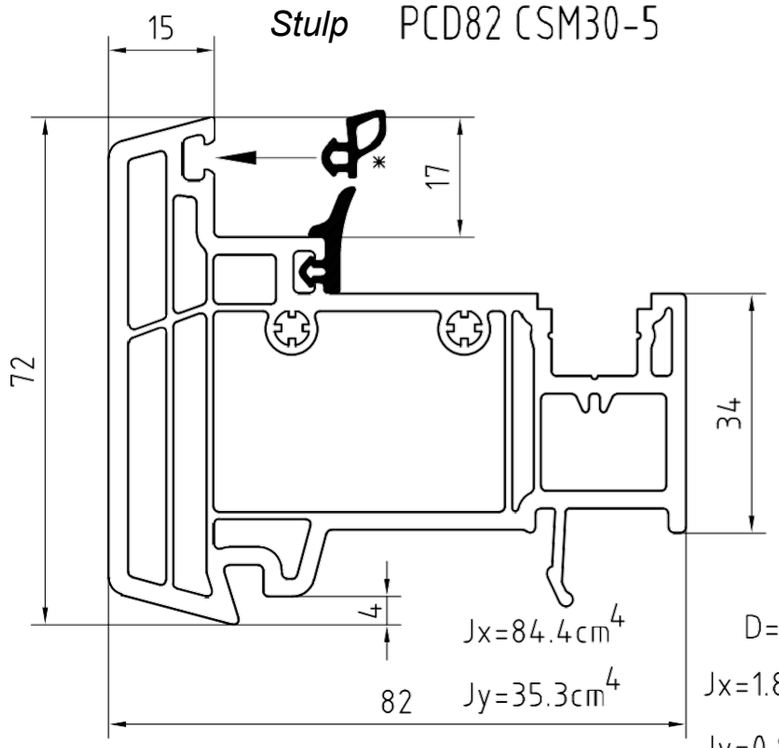
* factory installed gaskets

** profiles are delivered as ordered

# Profiles - With middle gasket

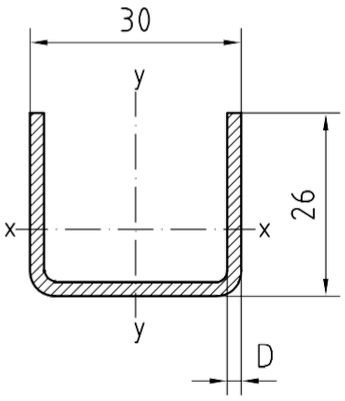
## LB. Profile

*Stulp* PCD82 CSM30-5



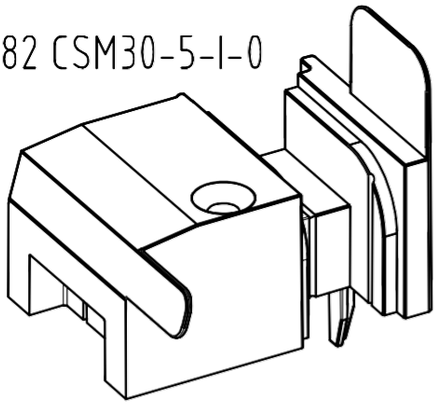

S 12-15 / S 12 / S12-30

U - profile
Galvanised steel




| D=1.5 | D=2 | D=3 |
|---|---|---|
| Jx=1.8cm4 | Jx=2.2cm4 | Jx=3.1cm4 |
| Jy=0.8cm4 | Jy=1.1cm4 | Jy=1.5cm4 |

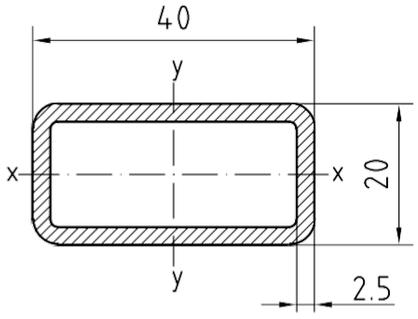
PCD82 CSM30-5-I-0



PCD82 DSM46KL

S 29-25 **

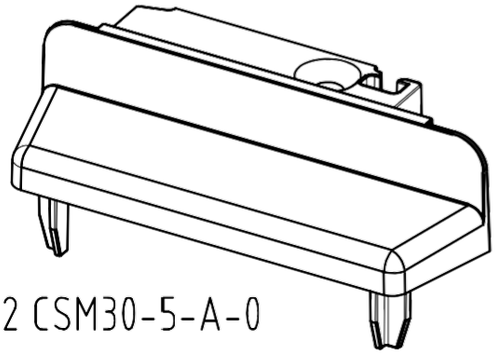
4 kt - Profile
Galvanised steel




Jx=4.9cm4

Jy=1.6cm4

PCD82 CSM30-5-A-0



PAD A440

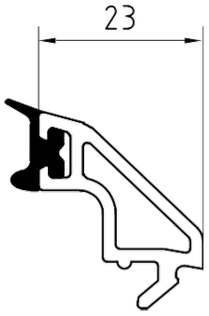
Cover of the Euro drain channel for the corner fittings mechanism

* factory installed gaskets

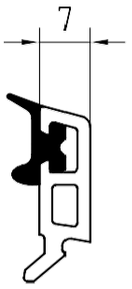
** profiles are delivered to order

# Glass trims

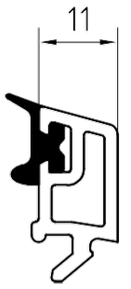




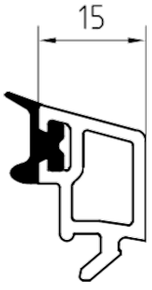

CG 8-C *



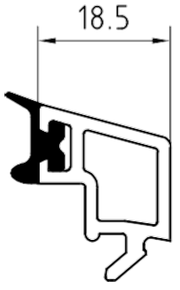

AG 11-C*



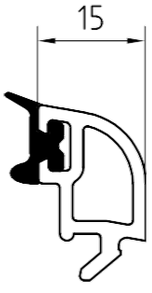

AG 3-C*



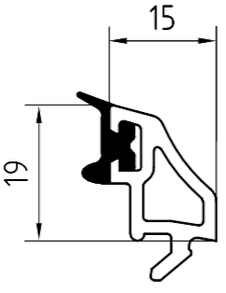

AG 4-C*



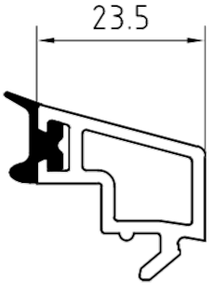

AG 5-C*



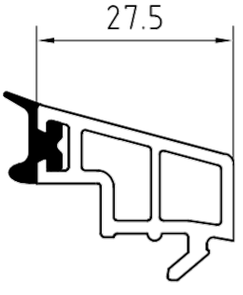

AGR 4-C*



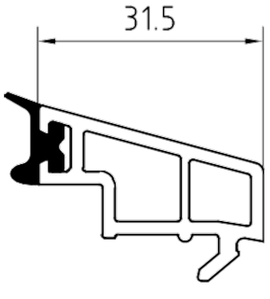

AGZ 4-C*



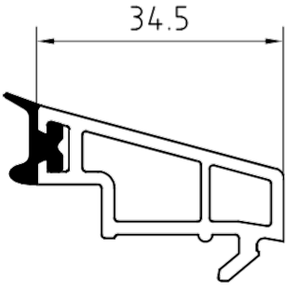

AG 9-C*




AG 10-C*




AG 6-C*

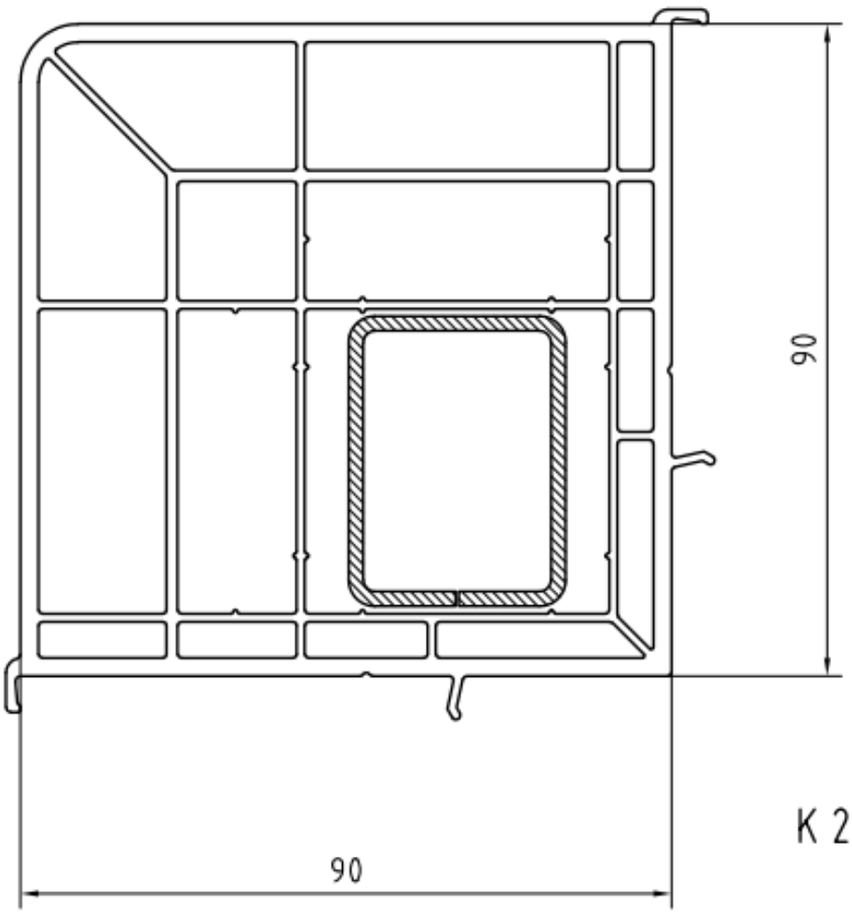


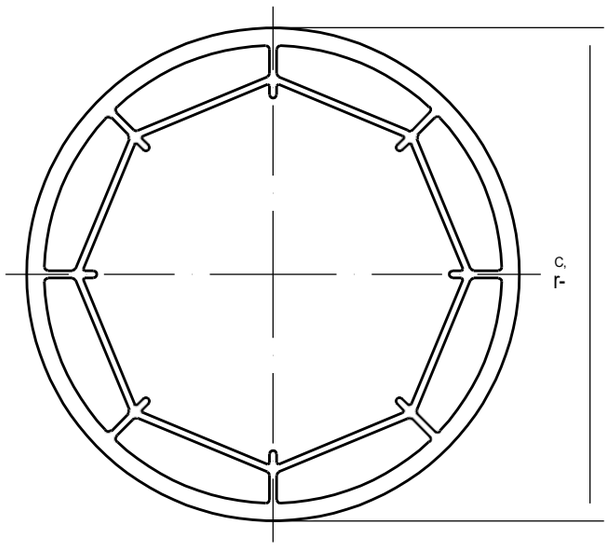

AG 7-C*

* trims can be delivered without gaskets

# Connection profiles

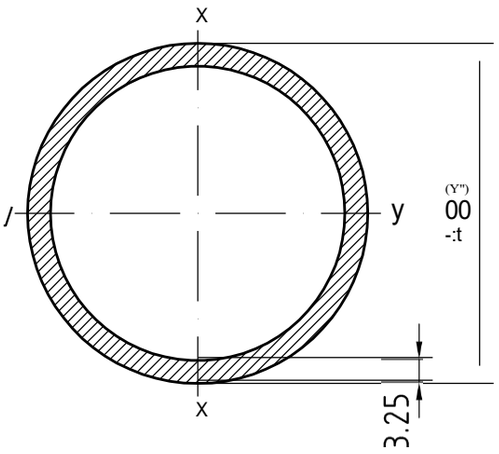
## LB. Profile





## K 243

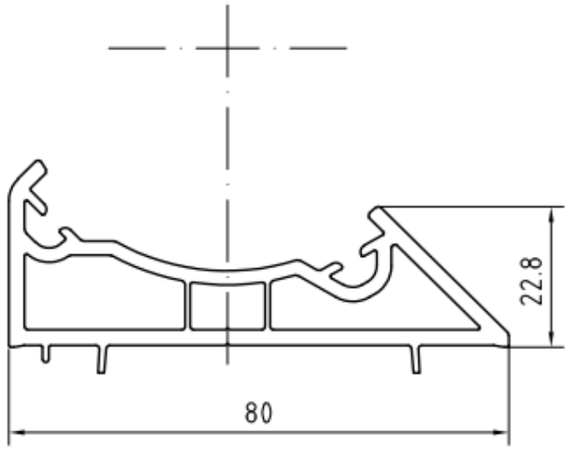
PVC
Variable round coupling




## K 233

Stahl
Reinforcement for K243

Jx= Jy=14.50cm$^4$

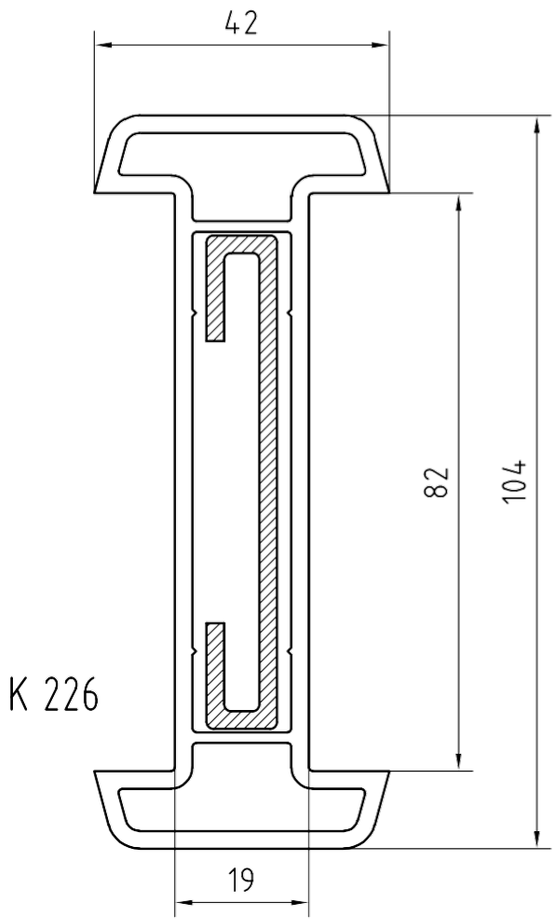



## K 246

PVC
Connection profile K243

# Connection profiles

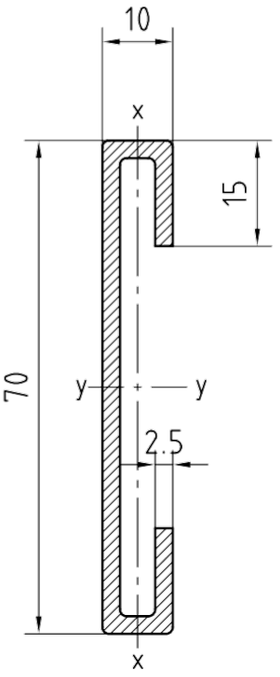
## LB. Profile




K 226

K 222

Steel

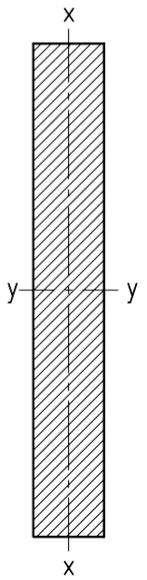



$Jx=15.807cm^4$

$Jy=0.319cm^4$

Steel*

70×10




$Jx=28.583cm^4$

$Jy=0.583cm^4$

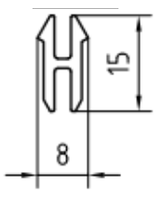
*profiles are delivered as ordered

# Connection profiles

## LB. Profile

K 248

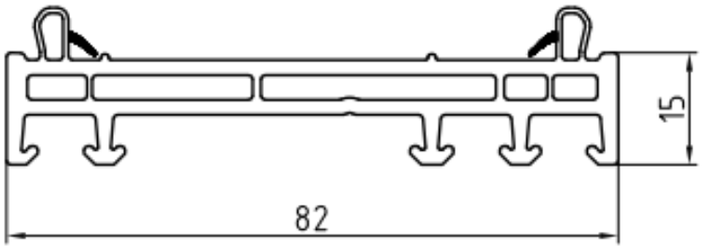

K 249 **



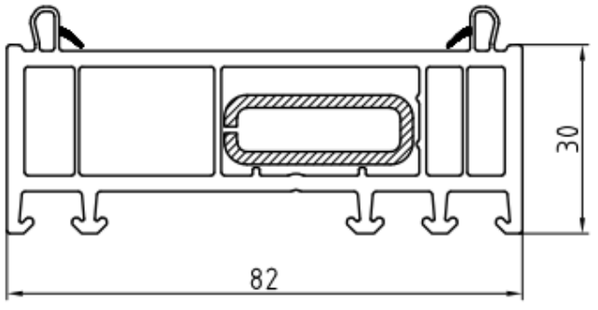

Attention: K249 allows only vertical installation!!!

** profiles are delivered as ordered

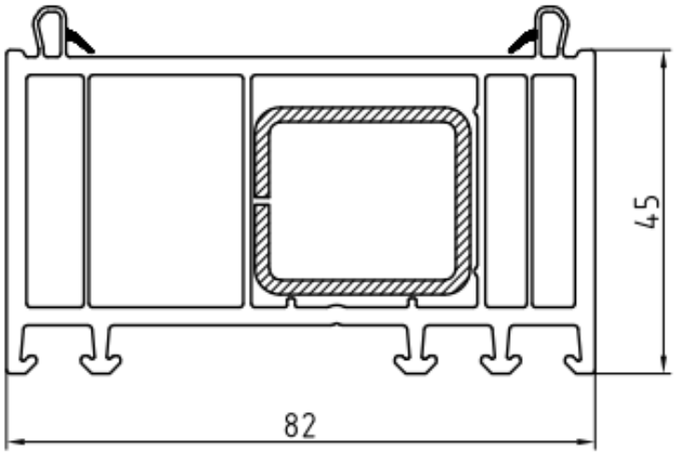
| Junction profiles | LB. Profile |
|---|---|




V 40**




V 41/s 13



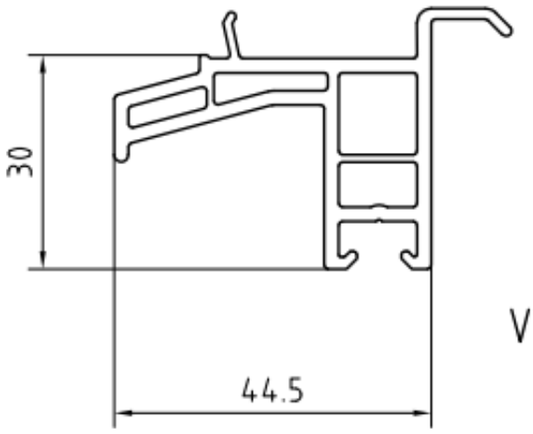

V 42/s11

**profiles are delivered as ordered

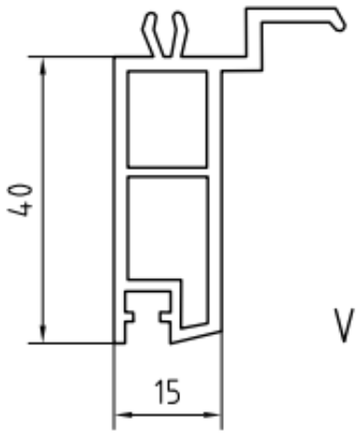
07.04

# Junction profiles

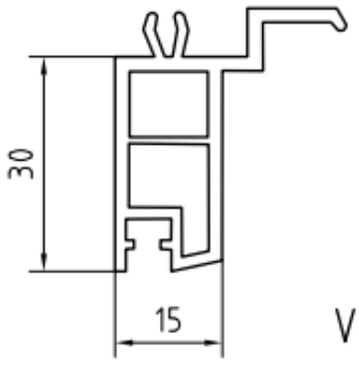





V 45**

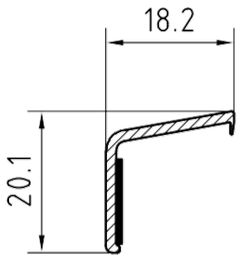



V 46**



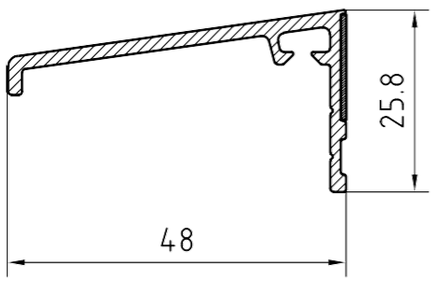

V 47**

** profiles are delivered as ordered



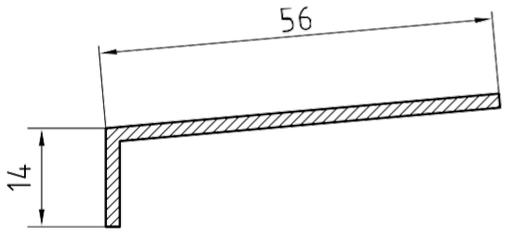

H 794

Alu
Protection at the entrance for the balcony door



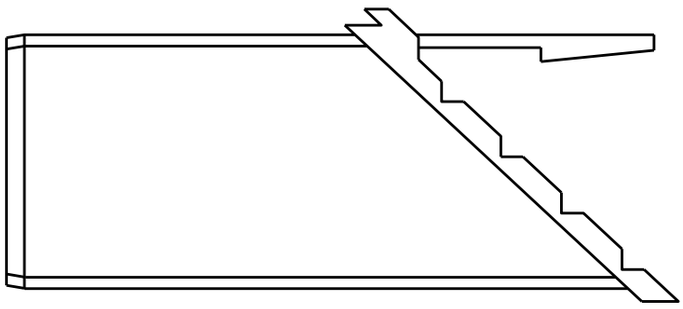

H 736

Alu
Balcony door rain drip



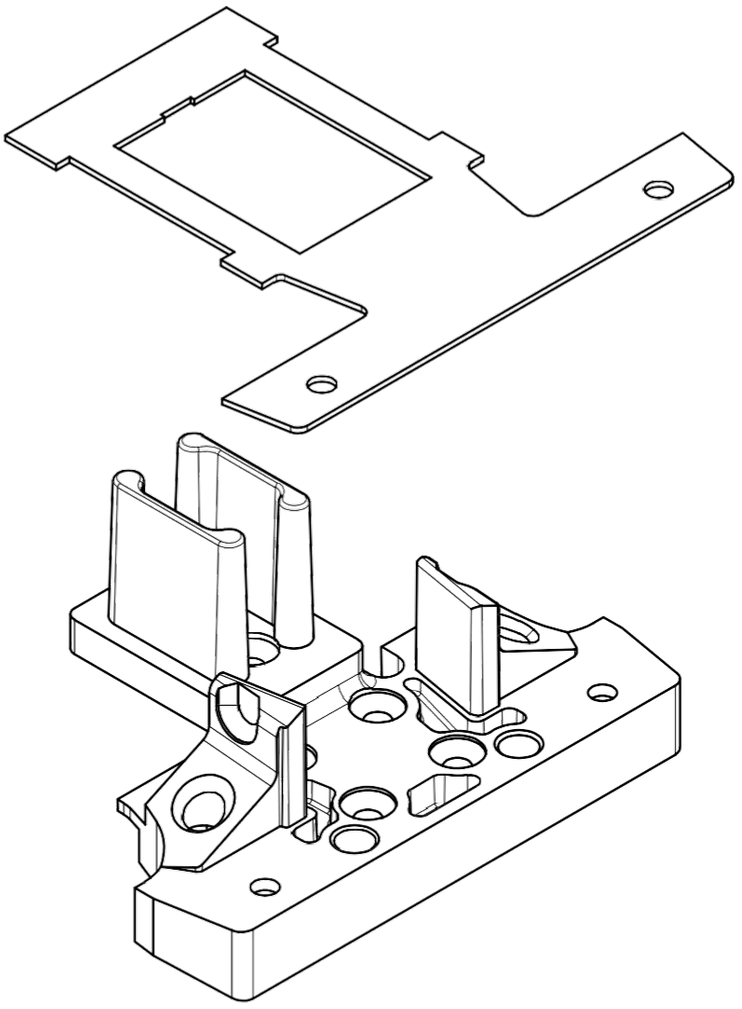

H 845

Alu
Protection at the entrance for XT - balcony door



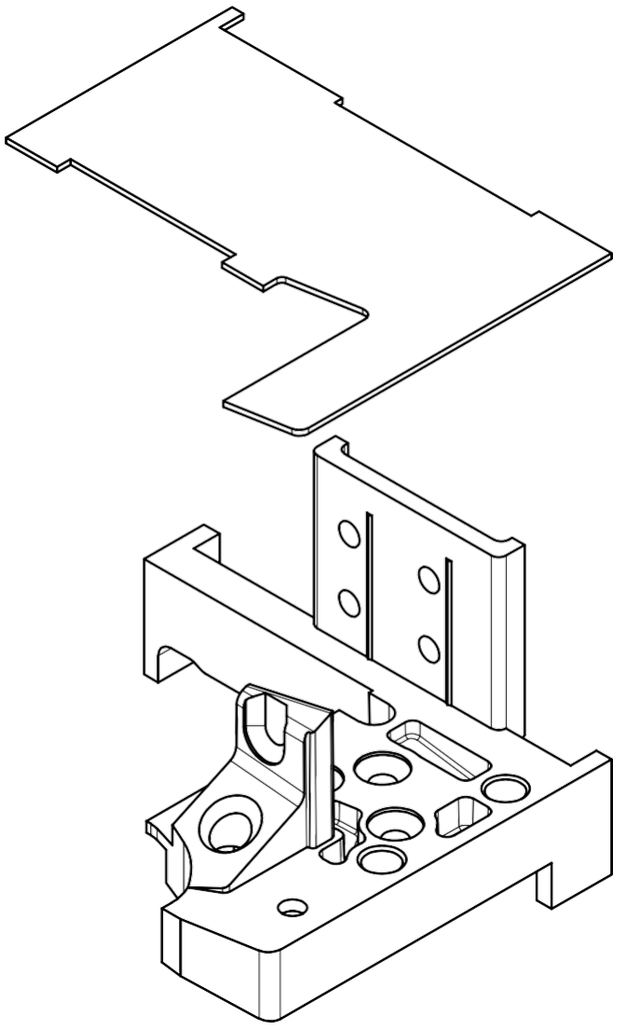
H 773

Corner connector - welded for CZ-38-6 with S42



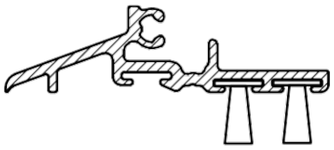
H 835

CTM31-7 bar holder
silver grey
with TPE - sealing part



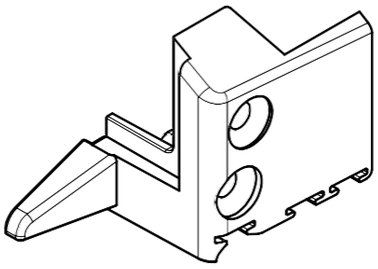
H 831

Threshold holder for CLM30-7
silver grey
with TPE - sealing part



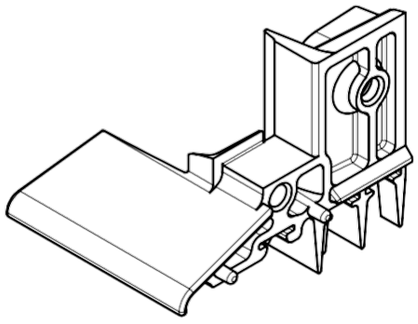
H 801

PVC
Molding with brushes



H 802

PVC - silver grey
End cap for H801



H 803

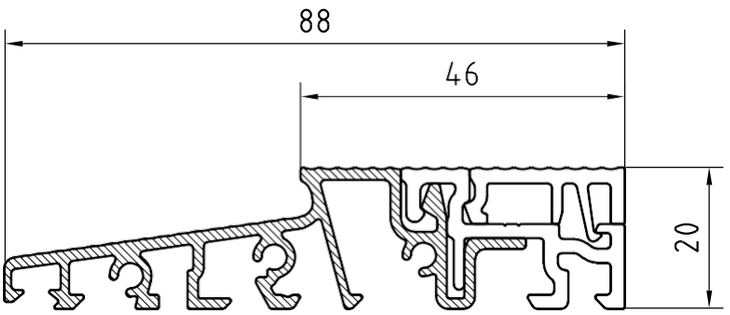
PVC - silver grey
End cap for *stulp* for H801

01

04.05

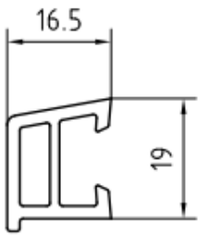
# Types of front door thresholds

## LB. Profile



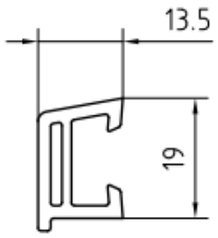

H 838

Alu/silver grey
thermally insulated
door threshold



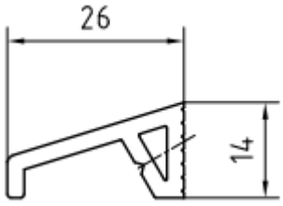

S 804

Drip channel
clipped




S 805

Drip channel
clipped

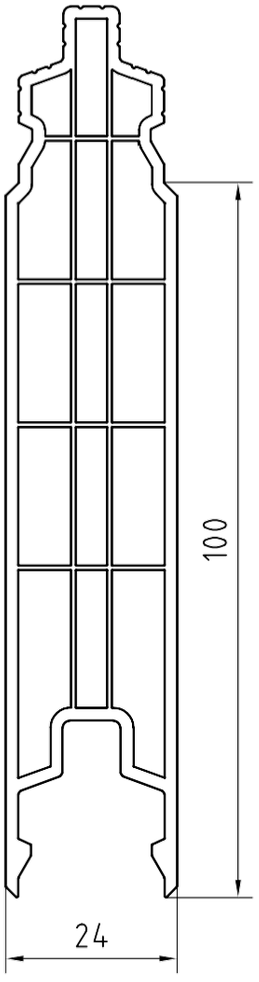



H 21

Drip channel
sAdhesive and
screw

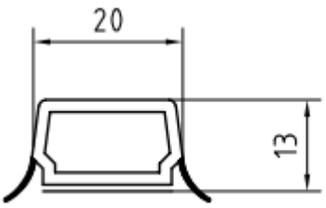
# Panels - door panel

## LB. Profile



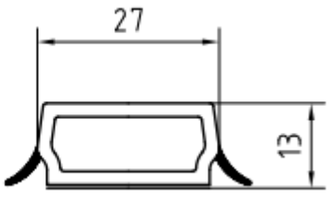

P 10-24

04.12



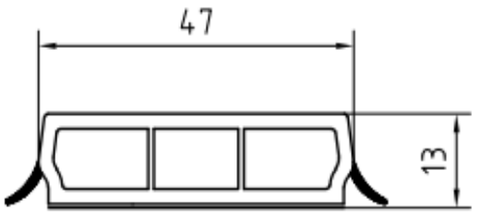

Z 410

self-adhesive trim



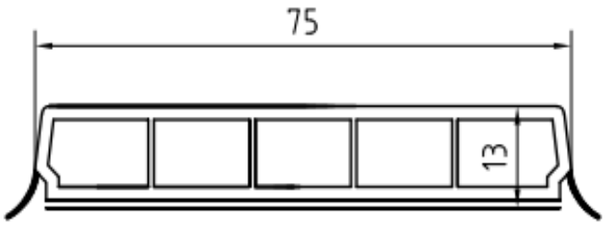

Z 411

self-adhesive trim



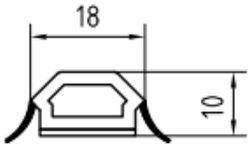

Z 421

self-adhesive trim



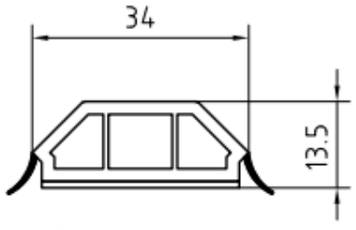

Z 422

self-adhesive trim



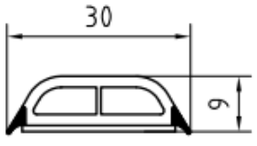

Z 431

self-adhesive
trapezoidal trim



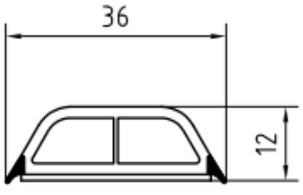

Z 432

self-adhesive
trapezoidal trim




Z 441

self-adhesive
rounded trim



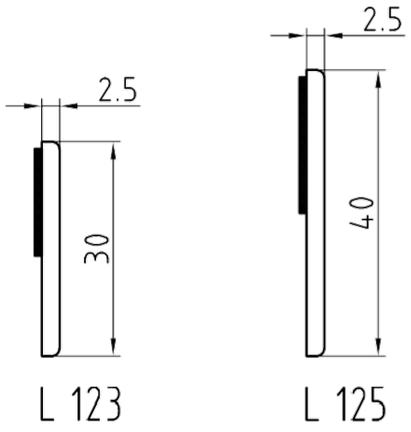

Z 442

self-adhesive
rounded trim

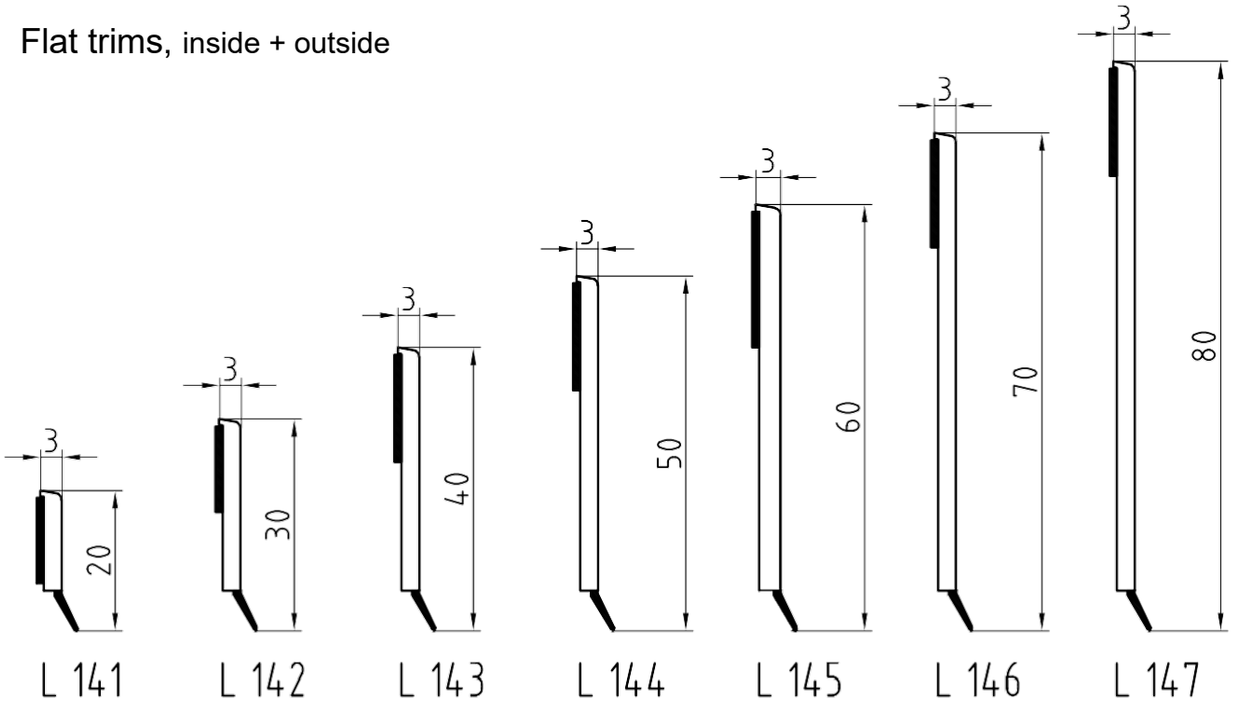
# Cover trims



## Flat trims, inside



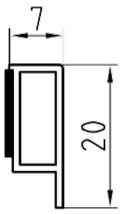

## Flat trims, inside + outside



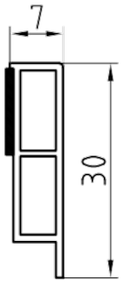
# Cover trims



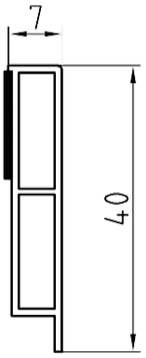
Cover trims, inside + outside



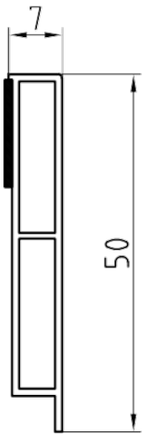

L 161



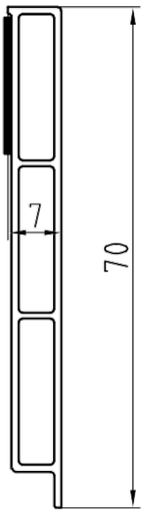

L 162



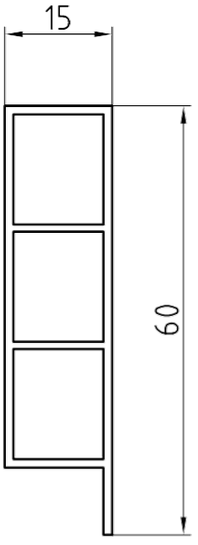

L 163




L 164




L 166




L 168

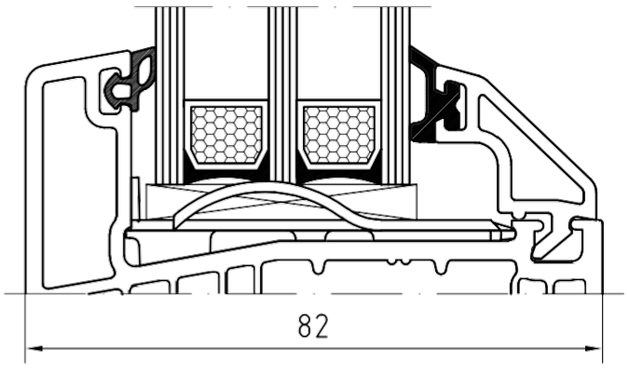
# Glazing - glass dimensions



Wing CZ31-7 CZ38-6 CT48-6

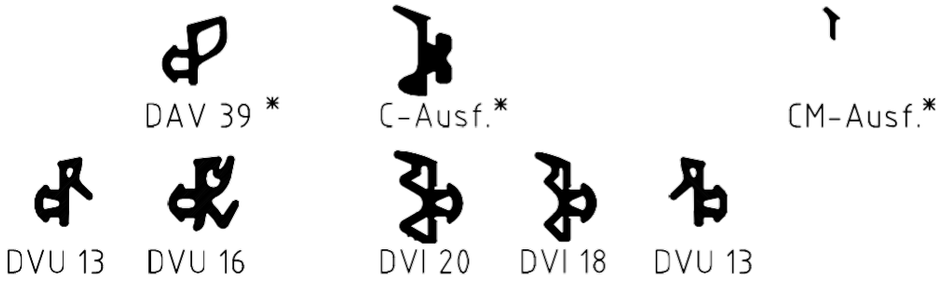
Door frame CLM30-7 VT31-6 VZ31-6

Bar CT31-7 CTM31-7 VT32-4

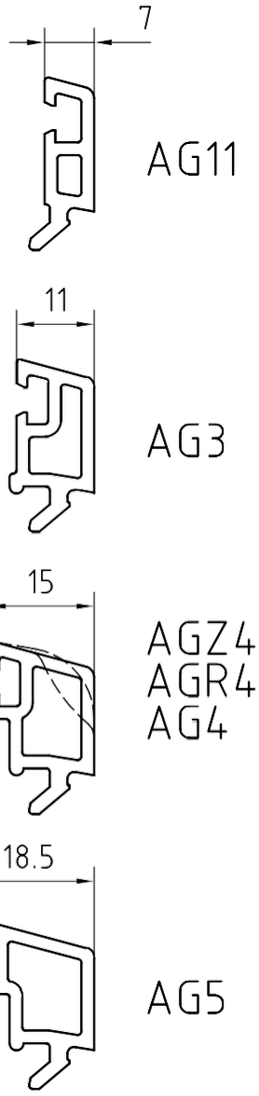



Outside

Inside




| | | | | | |
|---|---|---|---|---|---|
| DVU 13 | 52 | 53 | 54 | 54 | AG11 |
| DVU 16 | 53 | 54 | 56 | 56 | |
| DVU 13 | 48 | 49 | 50 | 50 | AG3 |
| DVU 16 | 49 | 50 | 52 | 52 | |
| DVU 13 | 44 | 45 | 46 | 46 | AGZ4 AGR4 AG4 |
| DVU 16 | 45 | 46 | 48 | 48 | |
| DVU 13 | 40 | 41 | 42 | 42 | AG5 |
| DVU 16 | 41 | 42 | 44 | 44 | |




* factory installed gasket

11.04

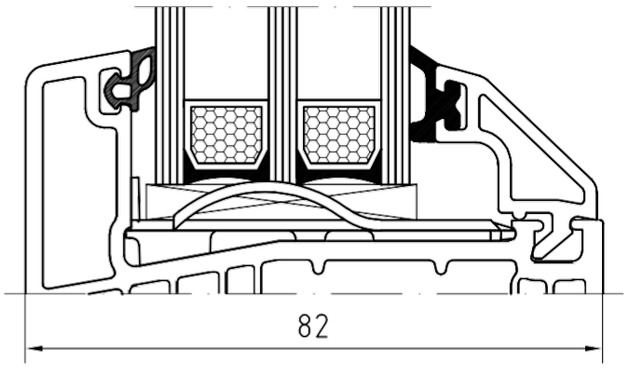
# Glazing - glass dimensions

## LB. Profile

Wing : CZ31-7
CZ38-6
CT48-6

Door frame CLM30-7
VT31-6
VZ31-6

Bar : CT31-7
CTM31-7
VT32-4




Outside

Inside



| | | | | | |
|---|---|---|---|---|---|
| 36 | 37 | 38 | 38 | 23.5 | AG9 |
| 37 | 38 | 40 | 40 | | |
| 32 | 33 | 34 | 34 | 27.5 | AG10 |
| 33 | 34 | 36 | 36 | | |
| 28 | 29 | 30 | 30 | 31.5 | AG6 |
| 29 | 30 | 32 | 32 | | |
| 24 | 25 | 26 | 26 | 34.5 | AG7 |
| 25 | 26 | 28 | 28 | | |

* factory installed gasket

11.05

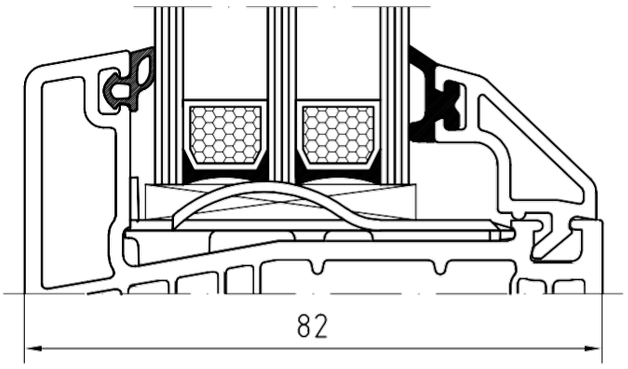
# Glazing - glass dimensions

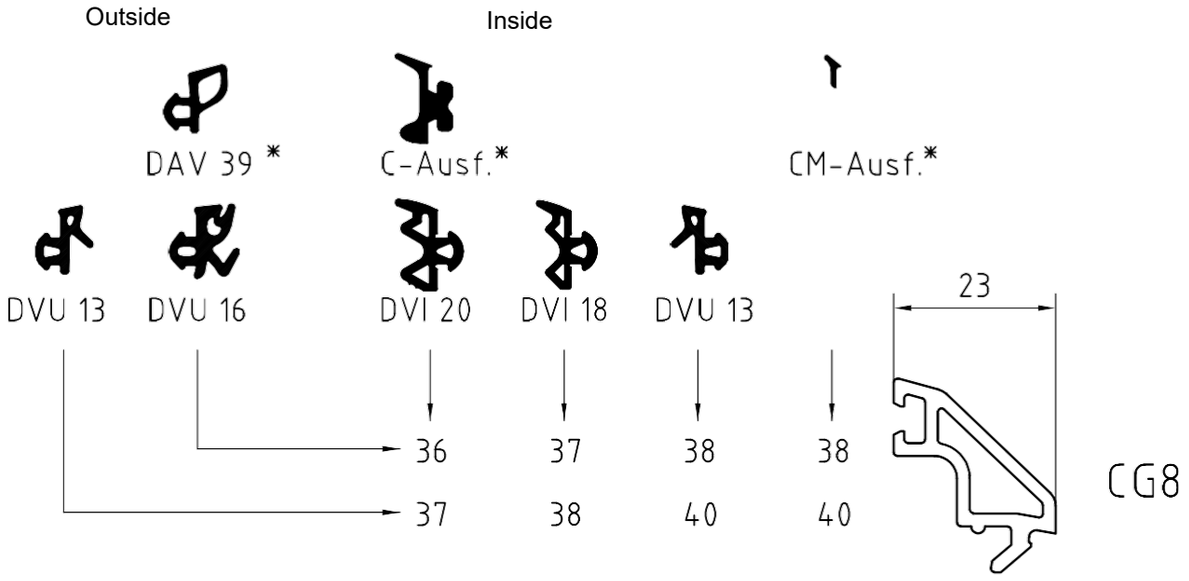


Wing : CZ31-7
CZ38-6
CT48-6

Door frame CLM30-7
VT31-6
VZ31-6

Bar : CT31-7
CTM31-7
VT32-4




*factory installed gasket

# Nachweis
## Wärmedurchgangskoeffizient

**Prüfbericht**
**Nr. 13-000597-PR01**
(PB-K20-06-de-01)

| | |
|---|---|
| **Auftraggeber** | L.B. Profile GmbH<br>Am Schlirfer Weg 2-4<br>36358 Herbstein<br>Deutschland |
| **Produkt** | Kunststoffprofil, Profilkombination: Flügelrahmen - Blendrahmen |
| Bezeichnung | CLM30-7/CZ31-7 |
| Leistungsrelevante Produktdetails | Material Kunststoff – PVC hart; Ansichtsbreite B in mm 121; Blendrahmen; Profilquerschnitt, Breite in mm 71; Profilquerschnitt, Dicke in mm 82; Aussteifung; Material Metall - Stahl verzinkt; Flügelrahmen; Profilquerschnitt, Breite in mm 82; Profilquerschnitt, Dicke in mm 82; Aussteifung; Material Metall - Stahl verzinkt; Ersatzpaneel; Dicke in mm 44; Einstand in mm 20 |
| Besonderheiten | -- |

**Ergebnis**

Wärmedurchgangskoeffizient

$U_f$ = 1,0 W/(m²K)

**ift** Rosenheim
21. Mai 2013

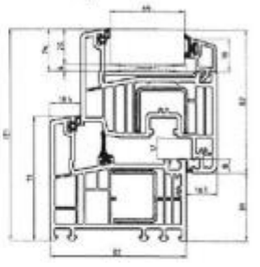
Konrad Huber, Dipl.-Ing. (FH)
Stv. Prüfstellenleiter
Bauphysik

Sebastian Unterholzner, Dipl.-Ing. (FH)
Prüfingenieur
Wärme & Klima

**Grundlagen** *)

EN 14351-1:2006+A1:2010
EN 12412-2:2003-07
*) und entsprechende nationale Fassungen (z.B. DIN EN)

**Darstellung**



**Verwendungshinweise**

Die ermittelten Ergebnisse können vom Hersteller als Grundlage für den herstellereigenen zusammenfassenden ITT-Bericht verwendet werden. Die Festlegungen der geltenden Produktnorm sind zu beachten.

**Gültigkeit**

Die genannten Daten und Einzelergebnisse beziehen sich ausschließlich auf den geprüften/ beschriebenen Probekörper. Diese Prüfung/Bewertung ermöglicht keine Aussage über weitere leistungs- /qualitätsbestimmende Eigenschaften des Produkts; insbesondere Witterungs- und Alterungseinflüsse wurden nicht berücksichtigt.

**Veröffentlichungshinweise**

Es gilt das "Merkblatt zur Benutzung von ift-Prüfdokumentationen". Das Deckblatt kann als Kurzfassung verwendet werden.

**Inhalt**

Der Nachweis umfasst insgesamt 5 Seiten und Anlage (1 Seite)



ift Rosenheim GmbH
Geschäftsführer:
Dr. Jochen Peichl
Prof. Ulrich Sieberath
Dr. Martin H. Spitzner

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Notified Body Nr.: 0757
Anerkannte PÜZ-Stelle: BAY 18
DAP-ZE-2293.00
DGA-IS-4295-00

DAkkS
D-PL-11349-03-00
D-ZM-11349-03-00

# Nachweis
## Luftschalldämmung von Bauteilen

**Prüfbericht**
**Nr. 13-001476-PR01**
**(PB Z1-A01-04-de-01)**

ift ROSENHEIM

| | |
|---|---|
| Auftraggeber | L.B. Profile GmbH<br>Am Schlirfer Weg 2-4<br>36358 Herbstein<br>Deutschland |
| Produkt | Einfachfenster, einflügelig |
| Bezeichnung | PCD82-MD |
| Außenmaß (B x H) | 1230 mm × 1480 mm |
| Material | Kunststoff PVC-U mit Aussteifungsprofil |
| Öffnungsart | Drehkipp |
| Falzdichtungen | 1 Außendichtung, 1 Mitteldichtung, 1 Innendichtung |
| Füllung | Mehrscheiben-Isolierglas , 4/16/4 |
| Besonderheiten | -/- |

Bewertetes Schalldämm-Maß $R_w$
Spektrum-Anpassungswerte C und $C_{tr}$

$$R_w\,(C;\,C_{tr}) = 33\ (-2;-6)\ \text{dB}$$

**ift** Rosenheim
18. Juni 2013

Dr. Joachim Hessinger, Dipl.-Phys.
Prüfstellenleiter
Bauphysik

Till Stübben, Dipl.-Ing. (FH)
Prüfingenieur
Bauakustik

**Grundlagen**

EN ISO 10140-1 : 2010
+A1:2012
EN ISO 10140-2 : 2010
EN ISO 717-1 : 1996+A1:2006

**Darstellung**

**Verwendungshinweise**

Dieser Prüfbericht dient zum Nachweis der Schalldämmung eines Bauteils.

Für Deutschland gilt:

- $R_{w,R}$ nach DIN 4109: ($R_w$ entspricht $R_{w,P}$, $R_{w,R} = R_{w,P} - 2$ dB)
- $R_{w,R}$ für Bauregelliste

**Gültigkeit**

Die genannten Daten und Ergebnisse beziehen sich ausschließlich auf den geprüften und beschriebenen Probekörper.

Die Prüfung der Schalldämmung ermöglicht keine Aussage über weitere leistungs- und qualitätsbestimmenden Eigenschaften der vorliegenden Konstruktion.

**Veröffentlichungshinweise**

Es gilt das **ift**-Merkblatt „Bedingungen und Hinweise zur Verwendung von ift-Prüfdokumentationen".

Das Deckblatt kann als Kurzfassung verwendet werden.

**Inhalt**

Der Nachweis umfasst insgesamt 9 Seiten






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Notified Body Nr.: 0757
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Napomena

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