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IDEAL 7000®

319428 | "IDEAL 7000" VM | en (English) Englisch | Issue 2020-11

VM

CL

Al

5-6 2

85 mm

01 General

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02 Main profiles: Overview

1) powerdur
3) bonding option = (M) multi

03 Main profiles: Combinations

Notes to chapter 03 Combinations:

Frame			1)
Chapter	03 D	03 E	
070x03	7	1	1.
170x02	7	1	2.
170x03	7	1	3.
170x81	7	1	4.
Pages	28	4	

Mullion			1)
Chapter	03 G	03 H	
170x41	7	7	1.
170x44	7	7	2.
Pages	14	14	

Mullions/Transoms		1)
Chapter	03 J	
170x41	1	1.
170x44	1	2.
180x46	1	3.
Pages	3	

False mullion		1)
Chapter	03 L	
170x64	7	1.
170x65	7	2.
Pages	14	

Sash	2)
070x20	1.
170x20	2.
170x30	3.
170x31	4.
170x33	5.
170x35	6.
170x39	7.

1) The profiles are sorted numerically within the chapters.
2) The sashes are sorted numerically within the profile chapters.

Abbreviations (not all necessarily used in all profile series):

Design / Style:	(CL) Classic-line / (SL) Soft-line / (RL) Round-line / (HL) Historik-line
Profile type:	(MB) Monoblock or block profile: Frame group(s) with integrated door case
Regional profiles:	(CH) Switzerland / (NL) Netherlands
Sash position in frame:	re. recessed / s.re. semi-recessed / fl. flush

Material properties

In compliance with the DIN EN ISO 1163 standard, aluplast uses the following uPVC molding compound as material for the profile systems:

ISO 1163 - PVC-U, EDLP, 082-50-T28

ISO standard DIN EN ...
PVC = Polyvinyl chloride
U = plasticiser-free (hard)
E = Extrusion
D = Powder (Dry-Blend)
L = Light and weathering stabilizer
P = Impact-resistant modified
082 = 80 - 84 °C = Vicat-softening temperature
50 = >40 kJ/m² = Impact strength
T28 = 2500 - 3000 N/mm² = Modulus of elasticity (tensile modulus = tension = T)

The formulation used is free of barium and cadmium.
Other versions / consignments according to system description or on request.

Characteristics CaZn (calcium zinc)

according to standard(s)	Description	Result	Unit
DIN EN ISO 306	Dimensional stability under heat Vicat-softening temperature VST/B 50	$80^{\pm 2}$	°C
DIN EN ISO 179-1 / 1eA / 1eC / 1fC	Double-v impact strength a_v (RAL-toughness) Charpy / test bar according to RAL	Ø ≥ 40 no value below 20	kJ/m² at + 23 °C
DIN EN ISO 178 / 527-1 + 527-2	Flexural modulus E / tensile modulus E	2800	N/mm²
DIN EN ISO 182-2 / DIN 53 381-1	Stability time t pH-measurement methods, oil bath / conductivity measurement methods	$40^{\pm 6}$	minutes at + 200 °C

General characteristics of uPVC

according to standard(s)	Description	Result	Unit
DIN 53752 Leitz-dilatometer	Coefficient of linear expansion from - 30 °C and + 50 °C	7 x 10^{-5}	1/K
DIN 52612-1/-2/-3 Guarded hot plate method	Thermal conductivity λ (Lambda)	0.16	W/mK
DIN 4102-1	Fire performance uPVC Flat profiles	B1	-
DIN 4102-1	Fire performance uPVC Hollow chamber profiles	B2	-
DIN EN 13501-1	Fire performance uPVC	E	-

1. Construction

1.1. Profile Design

The characteristic feature of the **aluplast** backstop gasket profile system **IDEAL 7000** with a profile depth of 85 mm is the design of all standard frame, sash, mullion and transom profiles as 5-6 chamber systems.

The multiple inner- and outermost hollow chambers guarantee optimal thermal insulation properties. Additionally, the outermost chambers allow for the concealed drainage and air equalisation of the rebates.

The large middle chambers are designed to accommodate the structurally required reinforcement profiles.

energeto® 7000: Profiles designed for the bonding-of-pane technology (bonding inside) and/or glass fibre reinforced profiles (powerdur inside) in part do not require additional reinforcement and allow for a slim visible frame/sash width.

1.2. Gasket Arrangement

Save for few exceptions, the main profiles come equipped with gaskets.
(See also paragraph 5. Gaskets)

The frame's outer backstop gasket and the sash's inner backstop gasket optimise heat and sound insulation values and prevent the formation of condensate in the area of the fittings.

Main profiles with pre-inserted TPE backstop and glazing gaskets can be welded.

Optional (repair) gaskets are available for main profiles without integrated gasket. Insert these (repair) gaskets circumferentially and in one plane. Do not break or cut the gasket in the mitre corner.

2. System Range

Design: Classic-line
(the valid product range according to Plan of Profiles IDEAL 7000)

- Frames

- Sashes (recessed)

- Door sashes for residential doors (opening in- and outwards)

- Patio door sash

- False mullion profiles

- Mullions / Transoms

energeto® 7000
- Fibre-reinforced frame (powerdur inside)
- Sash for bonding of pane (bonding inside)

aluskin (aluminium shells)

(Glazing beads available in Classic-line, Soft-line, and Round-line design)

3. Opening Types

The **aluplast** 5-6 chamber backstop gasket profile system **IDEAL 7000** offers the adequate way of opening for each application and purpose, e.g. for renovations and new buildings both in the residential housing sector and in the administrative and industrial building sector.

Regarding the profile depth, **IDEAL 7000** can be combined with the 5-6 chamber centre gasket system **IDEAL 8000**.

- Turn windows and doors
- Tilt-and-turn windows and doors
- Top-hung and bottom-hung windows
- French casement windows and doors
- Multi-sash windows and doors with mullion and transom
- Window walls
- Round-arched and segment-bow windows
- Fixed glazing

4. Hardware

All sash and frame profiles have the European standard hardware groove of 16 mm and a locking axis of 13 mm.

All fittings marked with the RAL quality label from any manufacturer can be used.

The locking units are system-related and available at hardware retailers.

The type and the material of the screws used to fix the hardware (screw type) are specified by the hardware manufacturer.

Use only stainless steel screws – minimum quality V2A – to fix the aluminium components.

5. Gaskets

aluplast profiles are also available with integrated gaskets (for further information please refer to the valid price list).

TPE: can be welded, thermoplastic elastomer according to RAL-GZ 716/1 paragraph II
Base profile colour / lamination / integrated gasket: see valid price list or plans of profiles

For main profiles that come **without** gaskets, (repair) glazing gaskets and (repair) backstop gaskets, made of weathering and aging resistant EPDM-material, are optionally available in papyrus white or black. They are made of aging and weather resistant EPDM (APTK) material.

EPDM: cannot be welded, moulding compound according to DIN 7863

Gaskets must be inserted circumferentially and butt-jointed in the upper cross-piece of the frame or sash. It is not necessary to cut the gasket in the mitre corner.

6. Glazing

All customary single-layer glasses, insulating glasses and door panels can be installed.

Install the glazing with pre-assembled sealing profiles (dry glazing).

Applicable theoretical glazing thickness:

Standard:	up to 52mm

7. Reinforcements and Aluminium Profiles

Depending on the window dimensions and structural requirements, cold-rolled, galvanised steel profiles must be inserted into frames, sashes, and mullions or transoms for reinforcement, provided that the profiles have suitable reinforcement chambers or another option for reinforcement.

Material:

Hollow profiles	Band EN 10142 DX51D+Z275 NA-C
Open profiles	Band EN 10142 DX51D+Z275 NA-C

Corrosion protection zinc coating according to DIN EN 10326
For inside reinforcements, the minimum zinc coating is 150g/m²
For outside reinforcements, the minimum zinc coating is 275g/m²

Aluminium profiles: AlMgSi

Use only stainless steel screws – minimum quality V2A – to fix the aluminium components.

8. Lamination and Colours

The profiles are available as laminated profiles. For further information on the available colour range, please refer to the valid price or lamination foil list.

The base profile colour is white, similar to RAL 9016, or brown (in case of laminated profiles), similar to RAL 8019.

9. Care and Maintenance

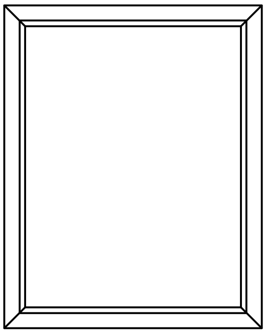
PVC window profiles can be cleaned easily using commercially-available mild cleansing agents. Do not use solvents or abrasive cleansing agents.

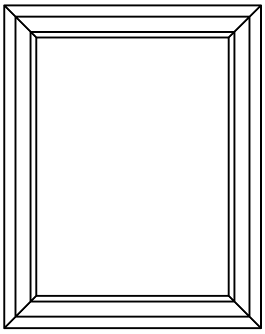
Lubricate the hardware parts as specified by the hardware manufacturer.

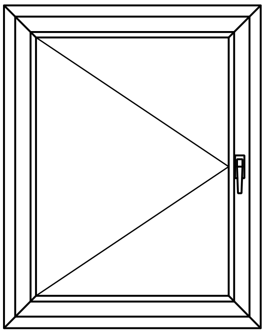
Refer also to **Chapter 10 R Cleaning, 10 S Maintenance, and 10 T Ventilation**.
Here you will find further information and cleaning agents recommended by aluplast.

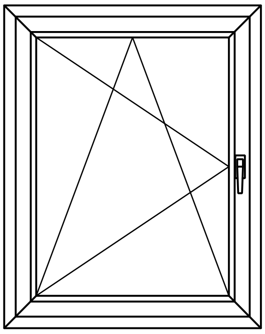
10. Window Material

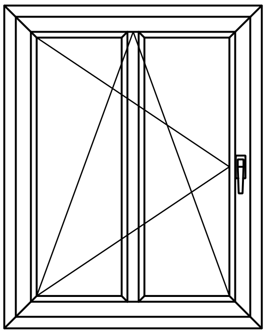
Refer to **Chapter 01 A Material Properties**

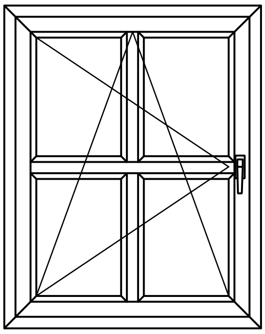

fixed glazing in frame

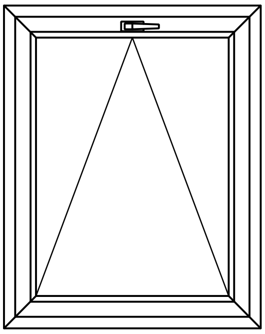

fixed glazing in sash

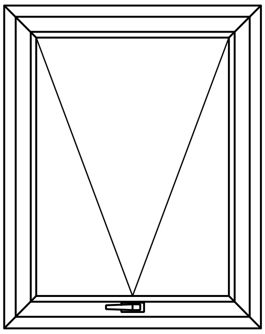

single opening window

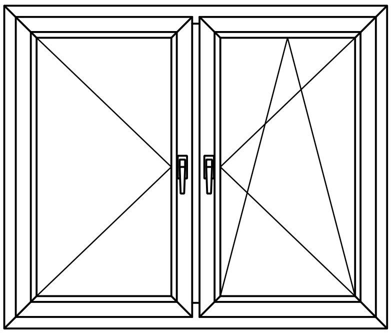

tilt + turn window

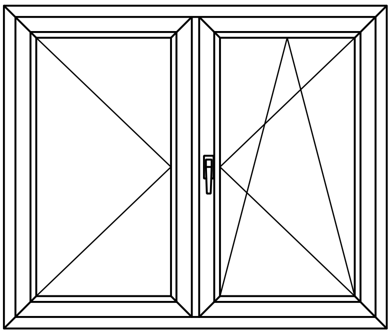

tilt + turn window with transom

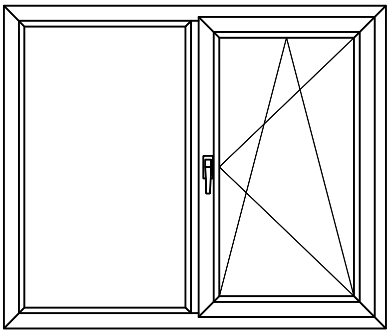

tilt + turn window with cross transom

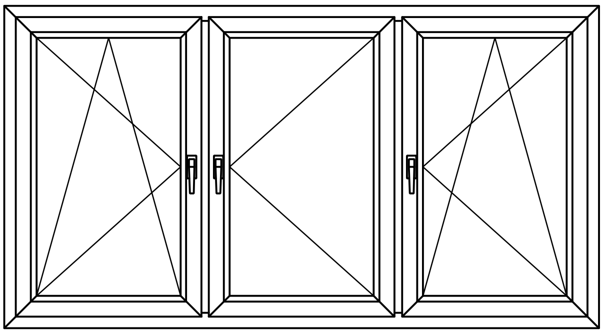

bottom-hung window

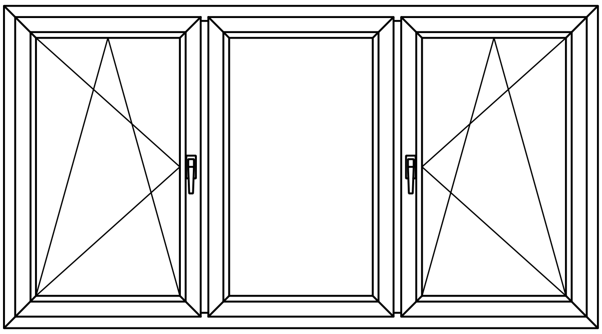

top-hung window


double sash window, single opening / tilt + turn

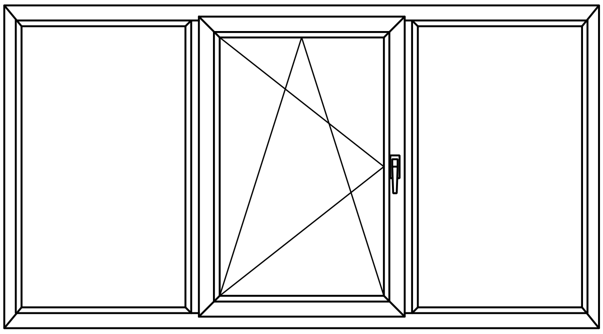

french casement window, single opening / tilt + turn


fixed glazing in frame / tilt + turn

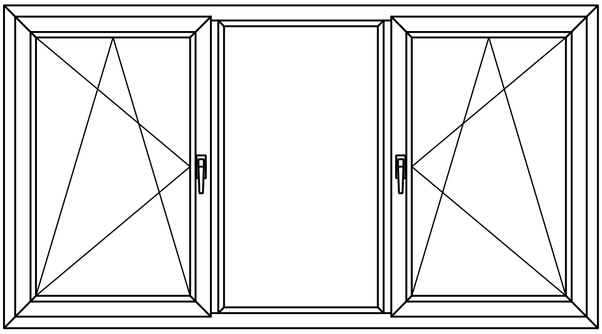

triple sash window, tilt + turn / single opening / tilt + turn


triple sash window, tilt + turn / fixed glazing in sash / tilt+ turn

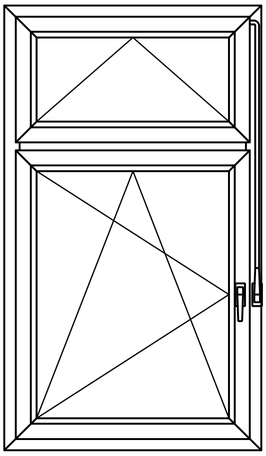
General Information
Overview Window Types



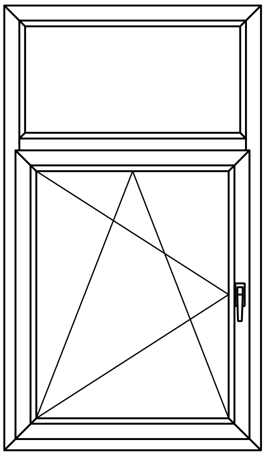
tripartite window, fixed glazing in frame / tilt + turn / fixed glazing in frame



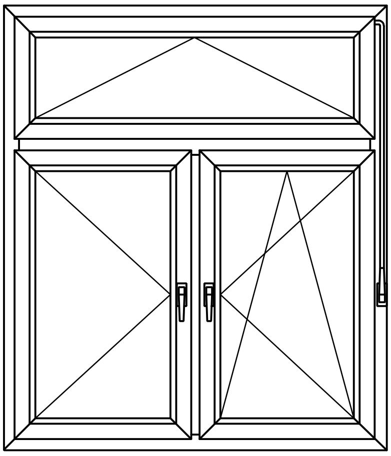
tripartite window, tilt + turn / fixed glazing in frame / tilt+ turn



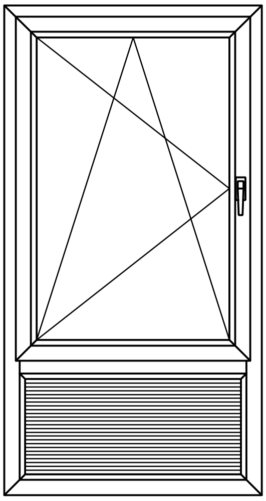
tilt + turn window with bottom-hung fanlight



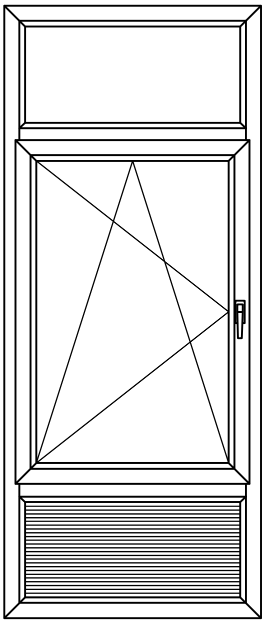
tilt + turn window with fixed fanlight



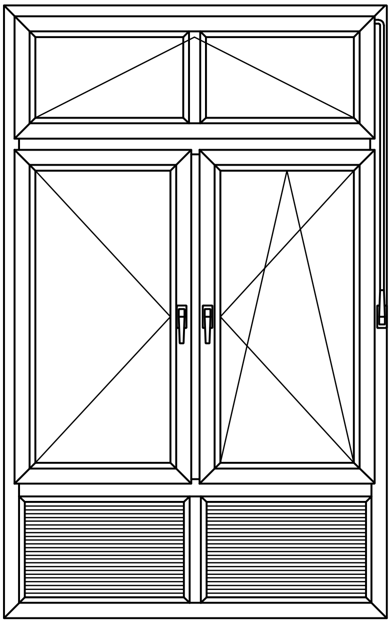
double sash window single opening / tilt + turn, bottom-hung fanlight



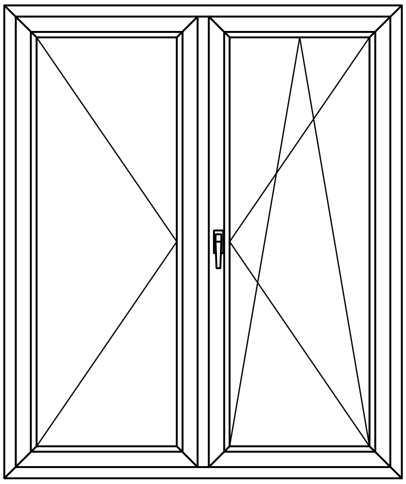
tilt + turn window with parapet



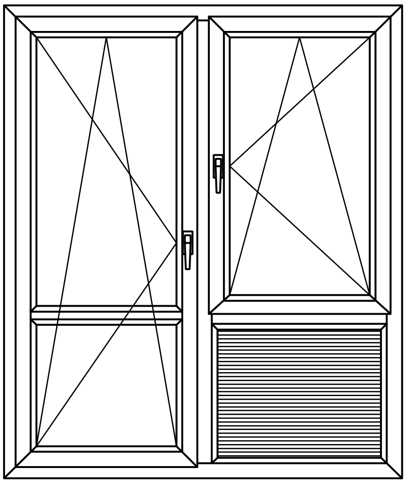
tilt + turn window with parapet and fixed fanlight



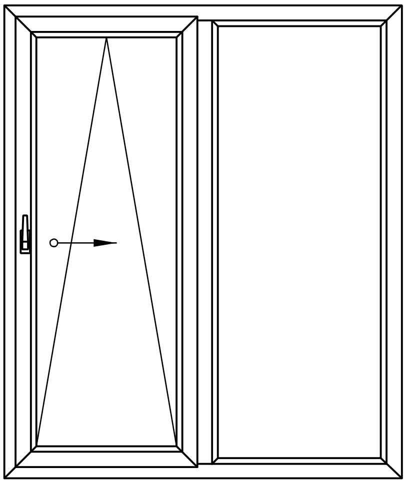
double sash window single opening / tilt + turn, bottom-hung fanlight with transom and parapet with transom



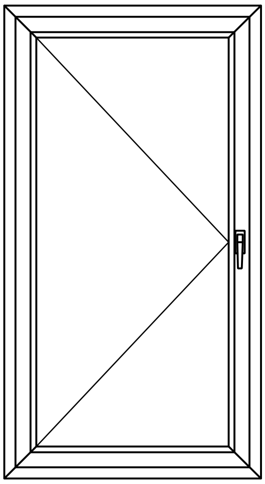
french casement door, single opening / tilt + turn



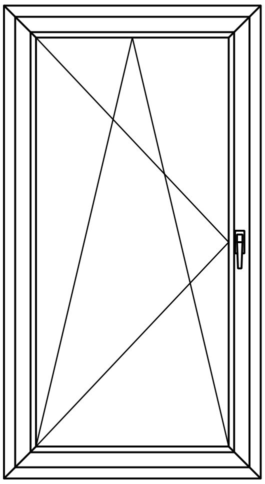
tilt + turn door with transom and tilt + turn window with parapet



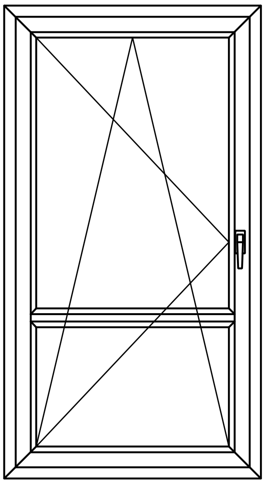
parallel tilt-/ lift + slide door with fixed glazing element



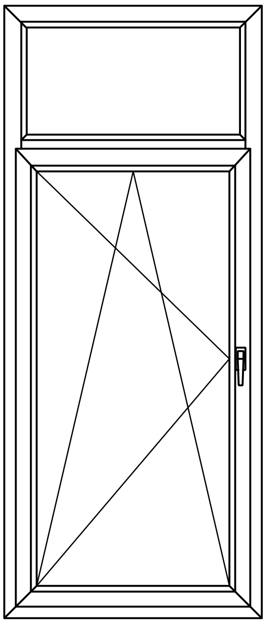
single opening door



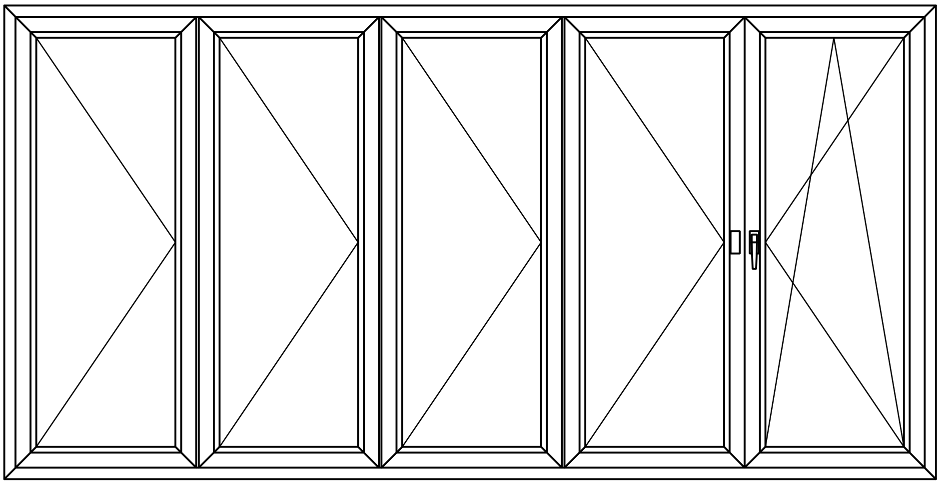
tilt + turn door



tilt + turn door with transom

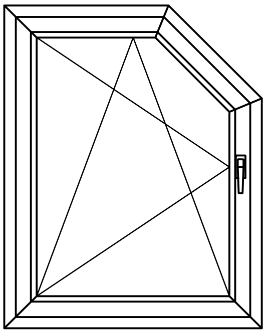


tilt + turn door with fanlight with fixed glazing

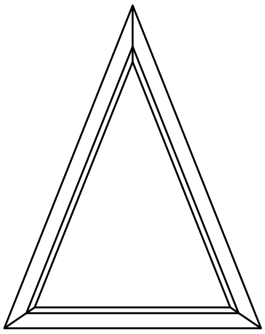


four sash fold + slide door: three folding sashes / one tilt + turn -> backstop gasket systems (hardware-dependent)

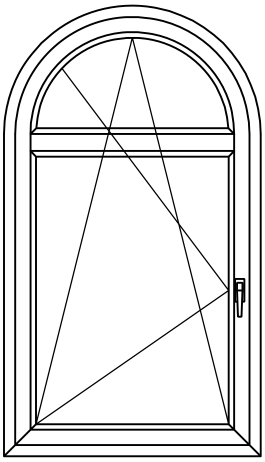
General Information
Overview Window Types



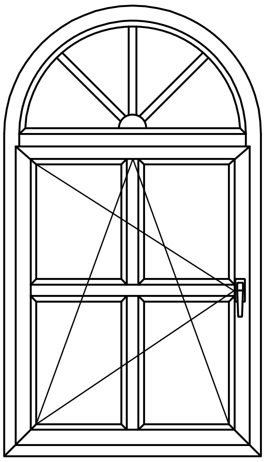
tilt + turn window with oblique corner



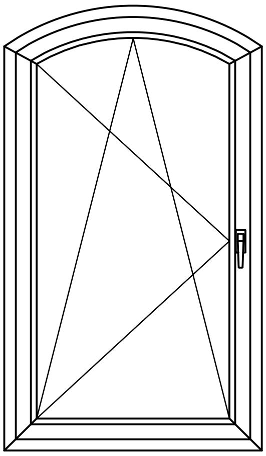
triangular window with fixed glazing



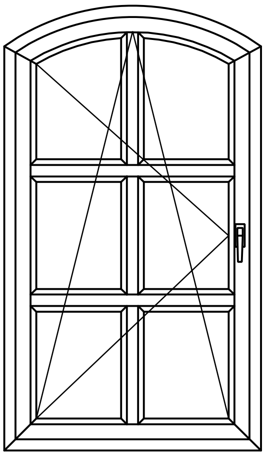
round arched window, tilt + turn with transom



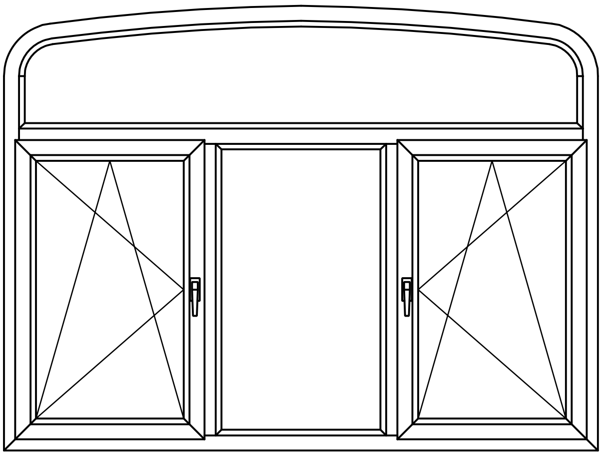
round arched window, tilt + turn with cross transom and fixed fanlight



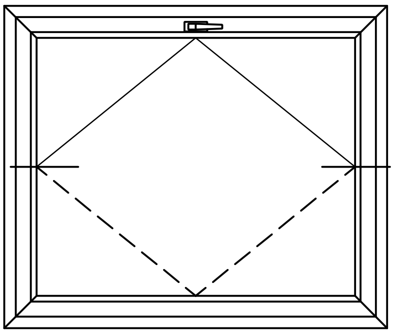
segment bow window tilt + turn



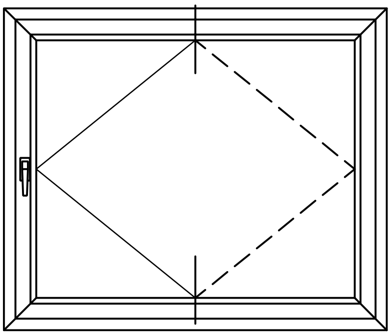
segment bow window tilt + turn with cross transom



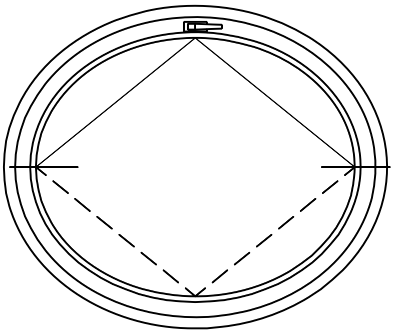
segment bow window with fixed fanlight: tilt + turn / fixed glazing in frame / tilt + turn



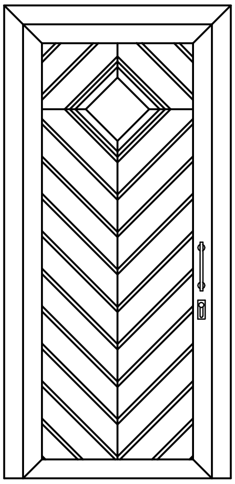
pivot window -> backstop gasket systems

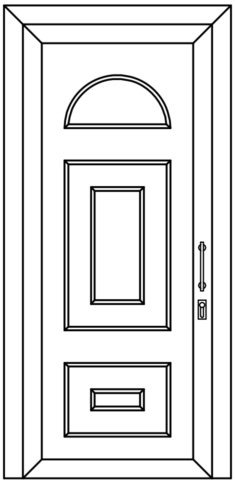


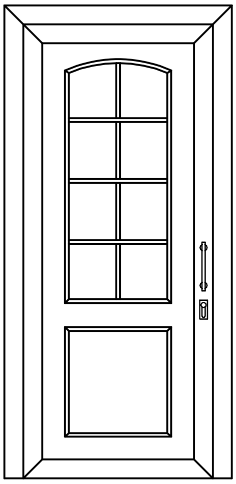
(vertical) pivot window -> backstop gasket systems

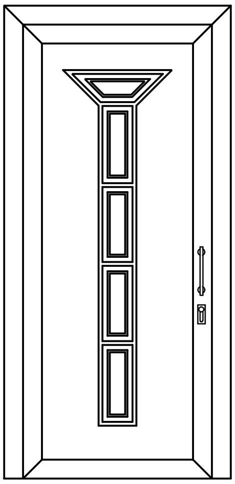


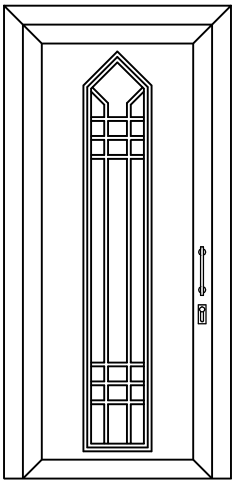
oval pivot window -> backstop gasket systems

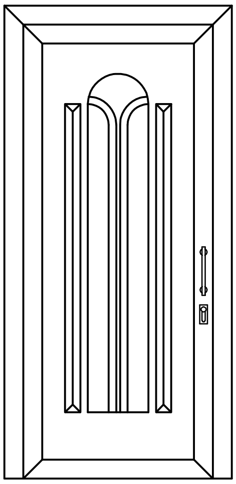


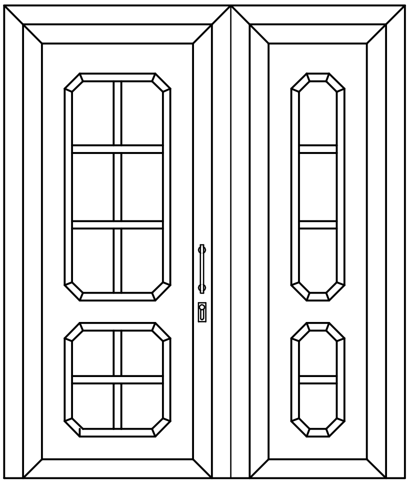


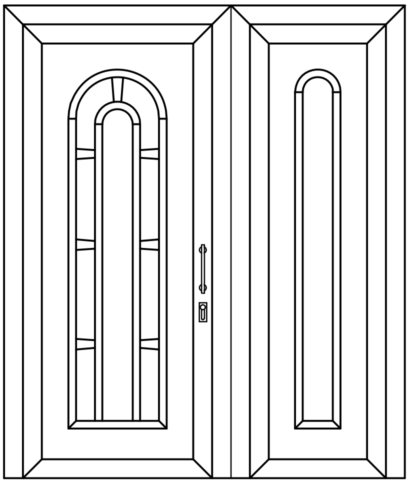












Note: The suitability as residential door depends on the system used.

Scale ~

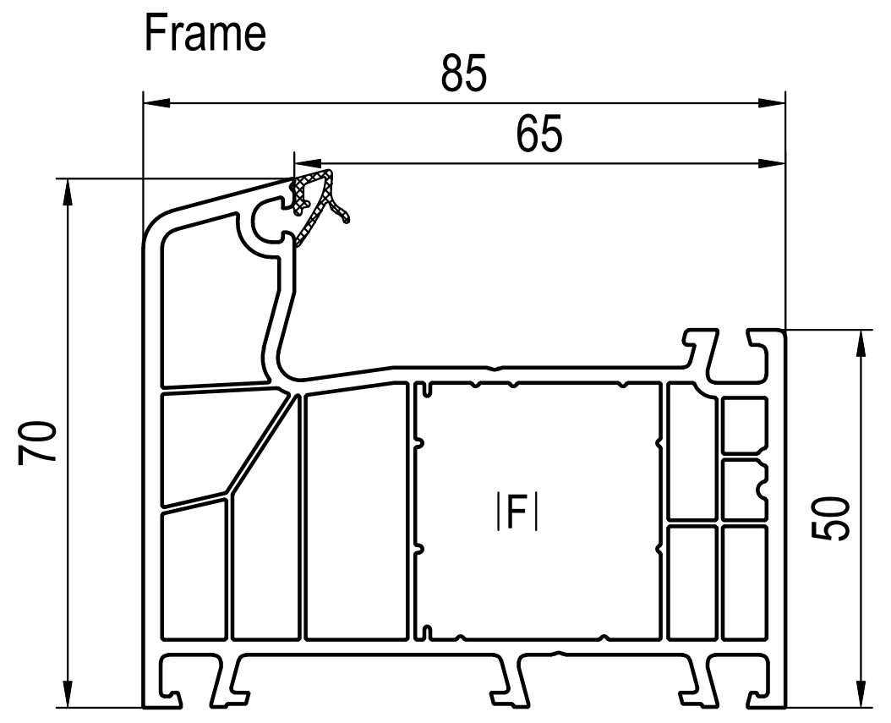
01_H_01_IDEAL*

en May be subject to change and errors excepted!

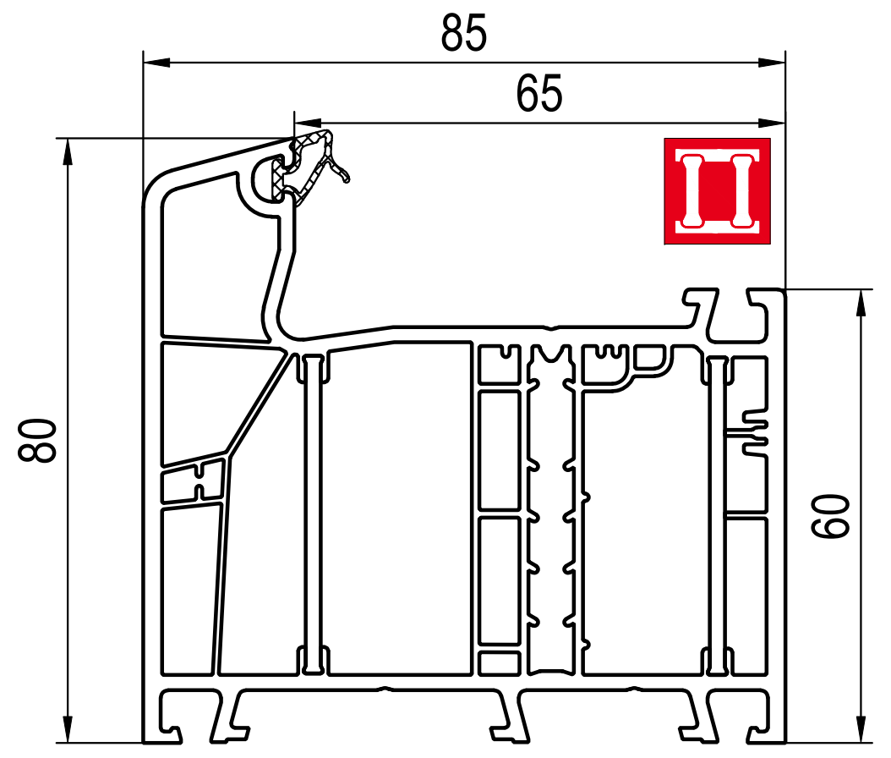
General Information
Overview Door Types

Main Profiles

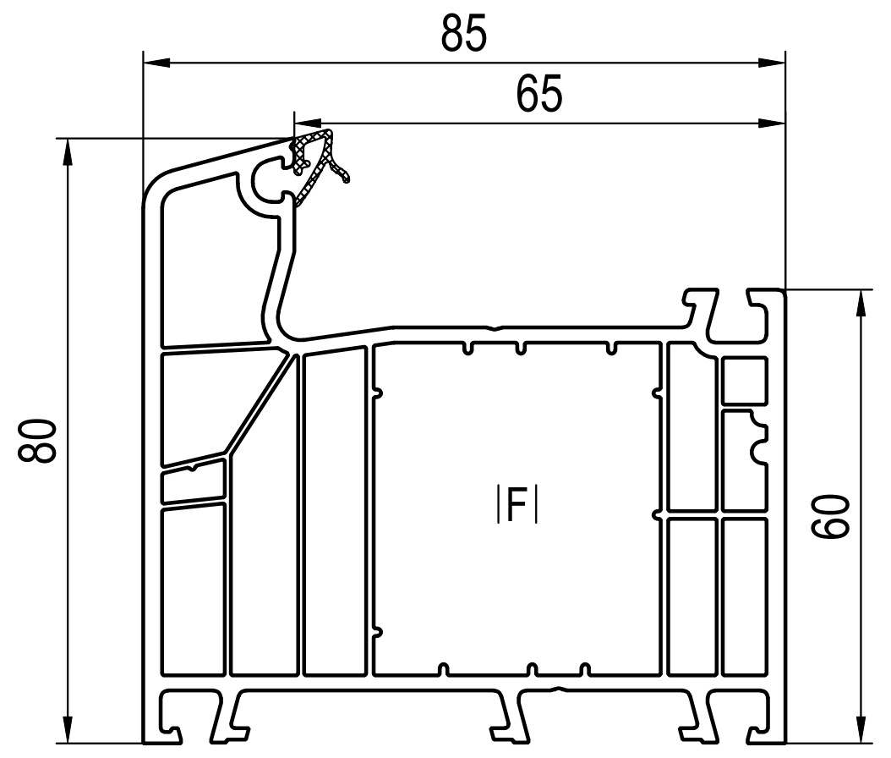
Frame



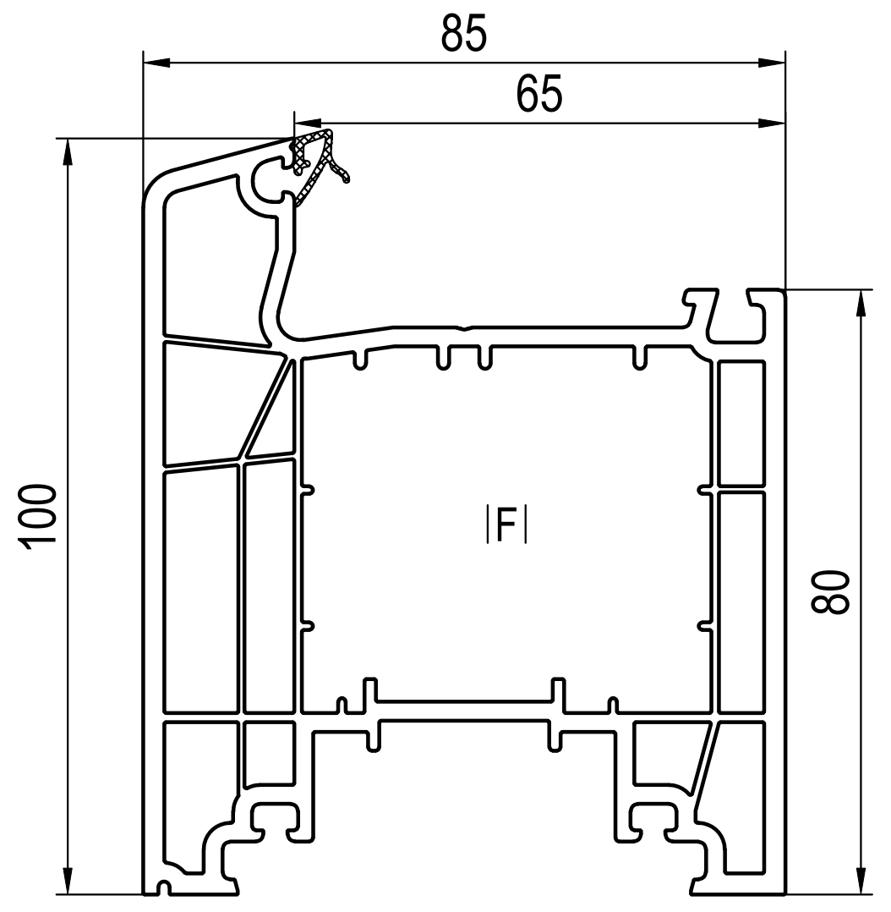
■ 170x020000098 (CL)
|A| 670301
|F| 249014, 249015, 249016, 259105, 259106, 259107
|P| 279402, 289304
|Q| 287301, 287303
|U| 249058, 269060
|V| 686475 + |X| 486071



■ 070x030000095 (CL)
|A| 670301
|P| 289304, 289313
|Q| 287301, 287303
|U| 249058, 269060
|V| 686471 + |X| 486071

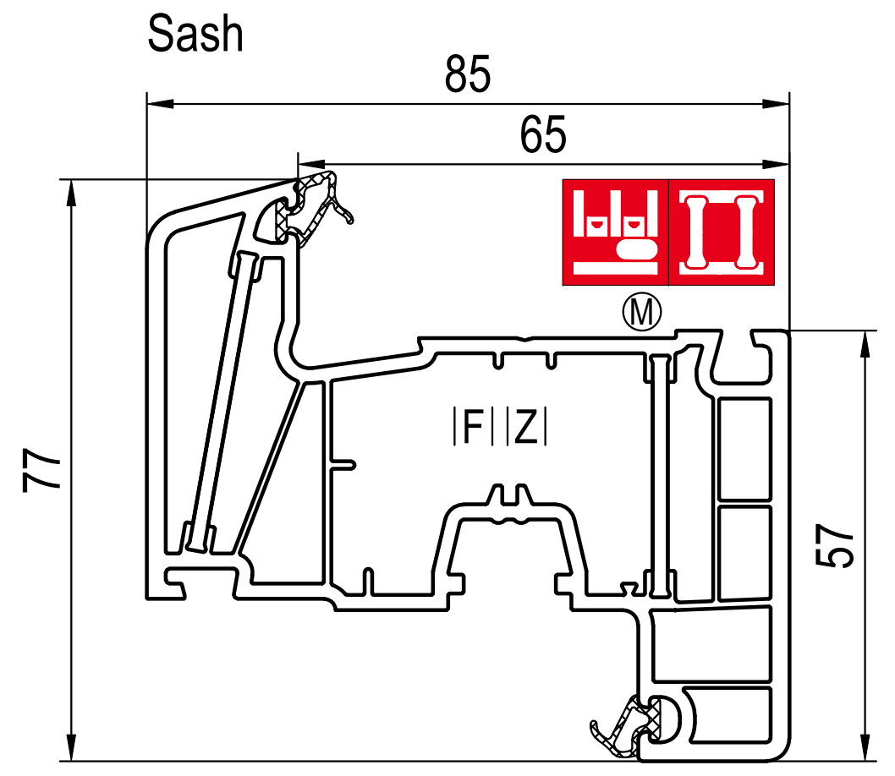


■ 170x03 (CL)
|A| 670301
|F| 229017, 229114, 229115, 229120
|P| 289304, 289313
|Q| 287301, 287303
|U| 249058, 269060
|V| 686471 + |X| 486071

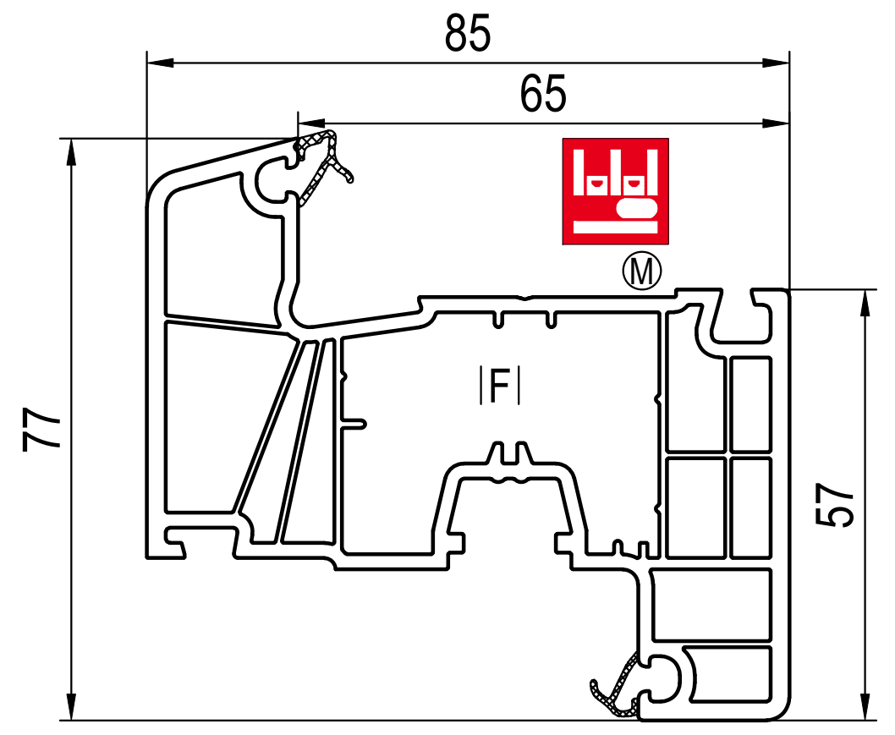


■ 170x81 (CL)
|A| 670301
|F| 229125, 229126
|P| 279381, 289304
|Q| 287301, 287303

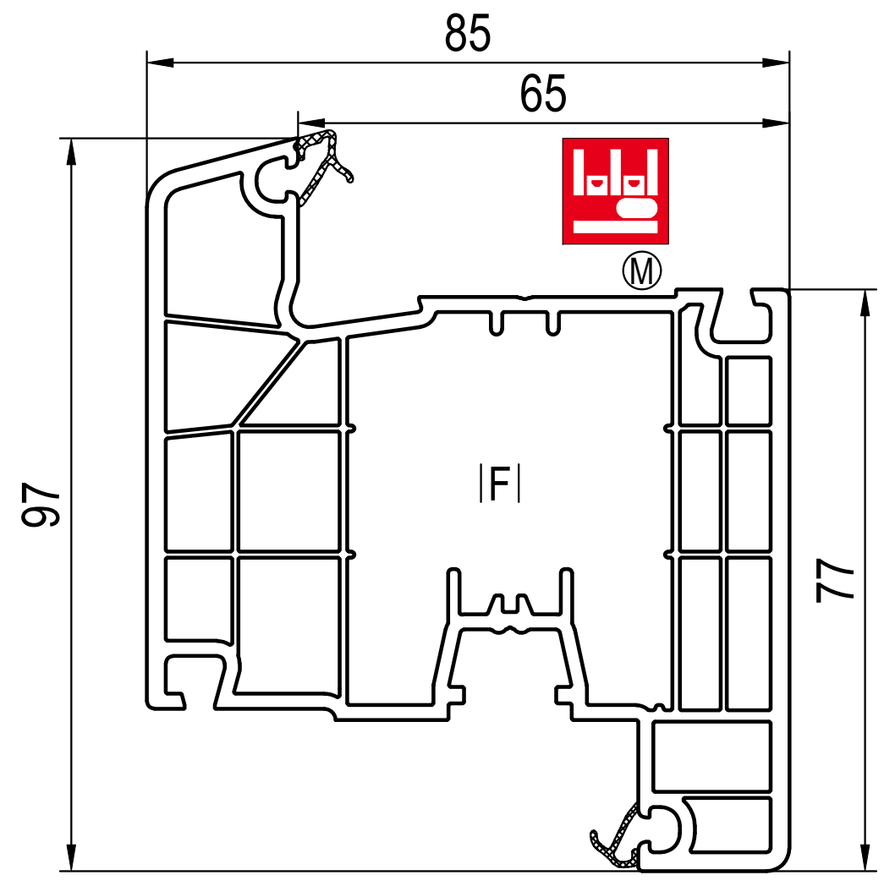
Sash



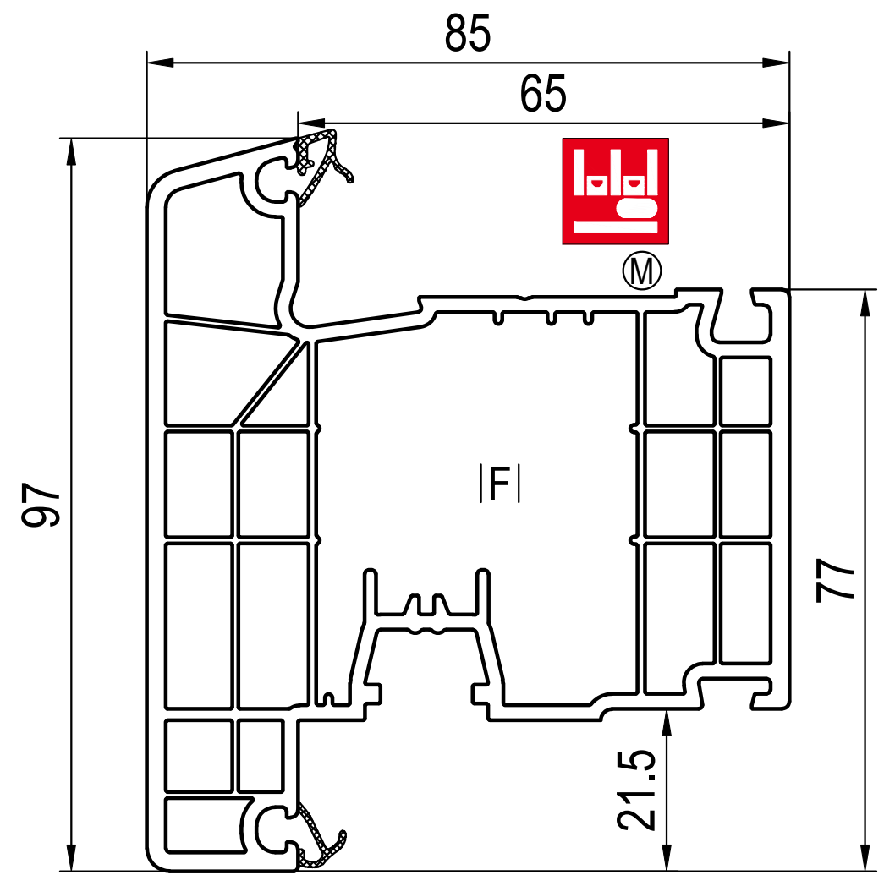
Ⓜ ■ 070x20 (CL)
Ⓜ |A| 685251, 680250, 655251, 650252, 620250, 650250
|F| 249016, 259020, 259021, 259026, 289021
Ⓜ |J| 642261, 642262, 642263, 646265, 646266
|P| 279420
|Z| 650295



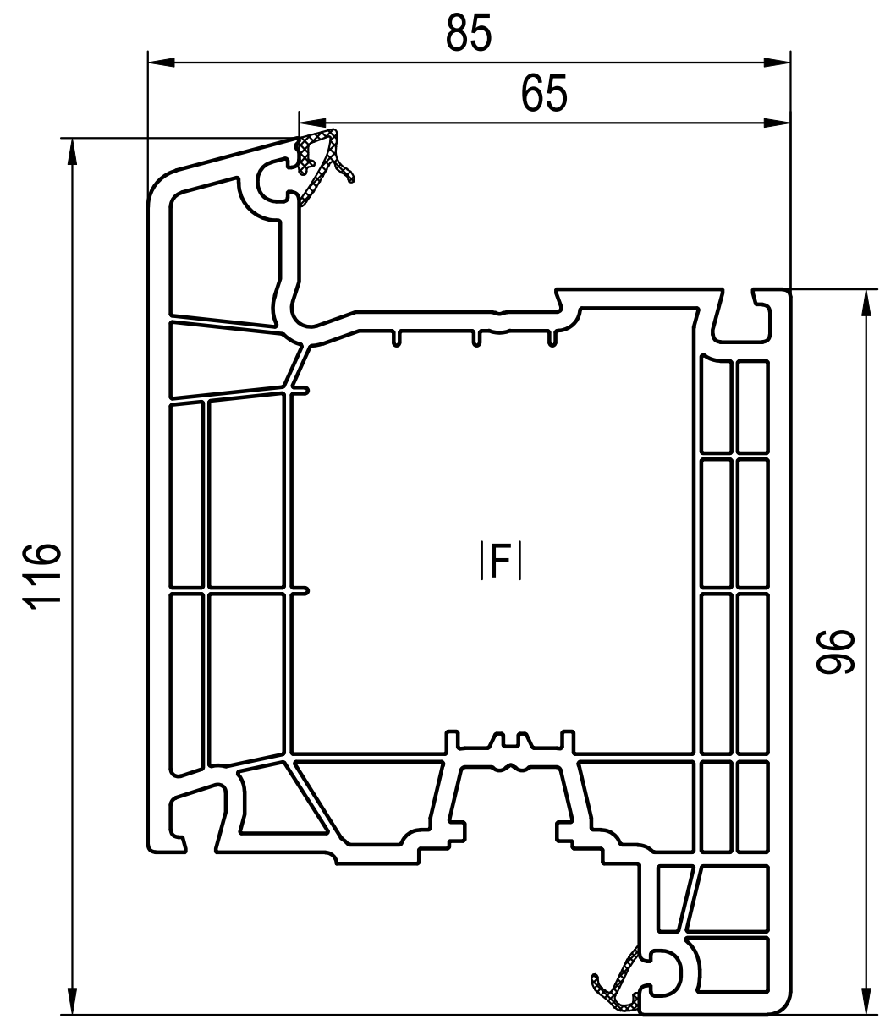
Ⓜ ■ 170x20 (CL)
Ⓜ |A| 685251, 680250, 655251, 650252, 620250, 650250
|F| 249016, 259020, 259021, 259026, 289021
Ⓜ |J| 642261, 642262, 642263, 646265, 646266
|P| 279420



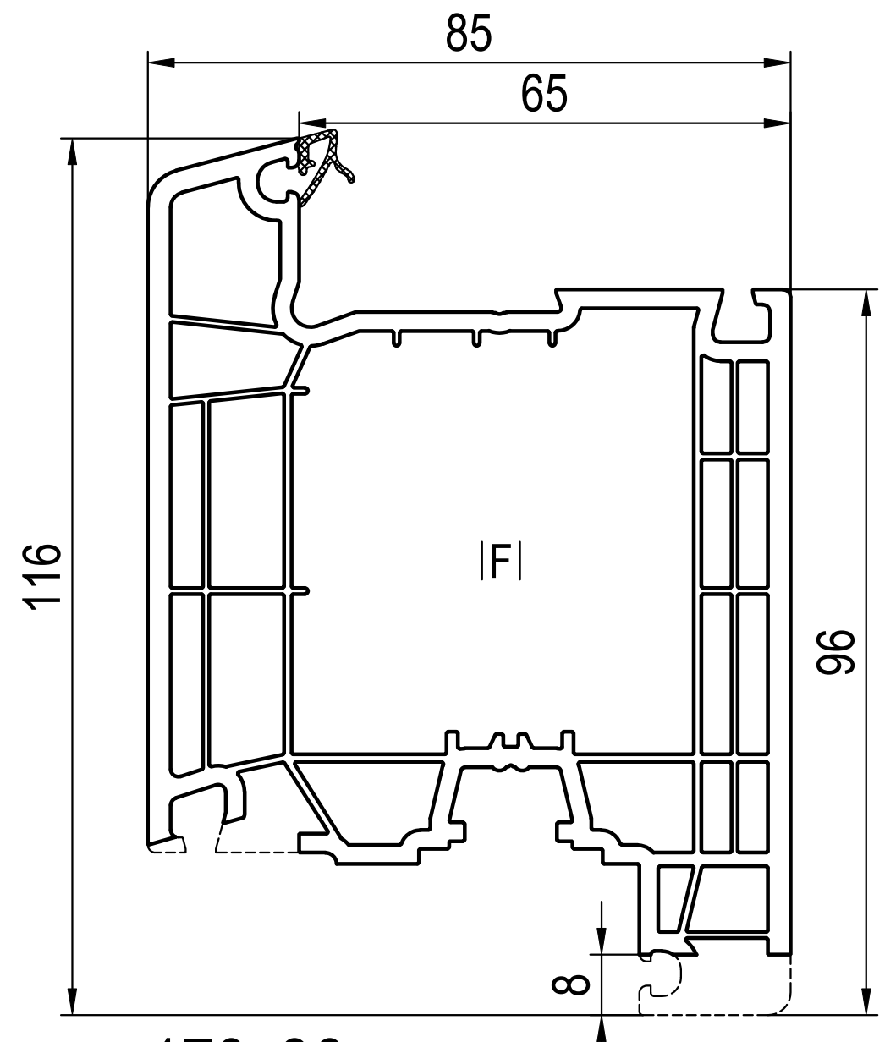
Ⓜ ■ 170x30 (CL)
Ⓜ |A| 685251, 680250, 655251, 650252, 620250, 650250
|F| 279028, 279029
Ⓜ |J| 642261, 642262, 642263, 646265, 646266
|P| 279430



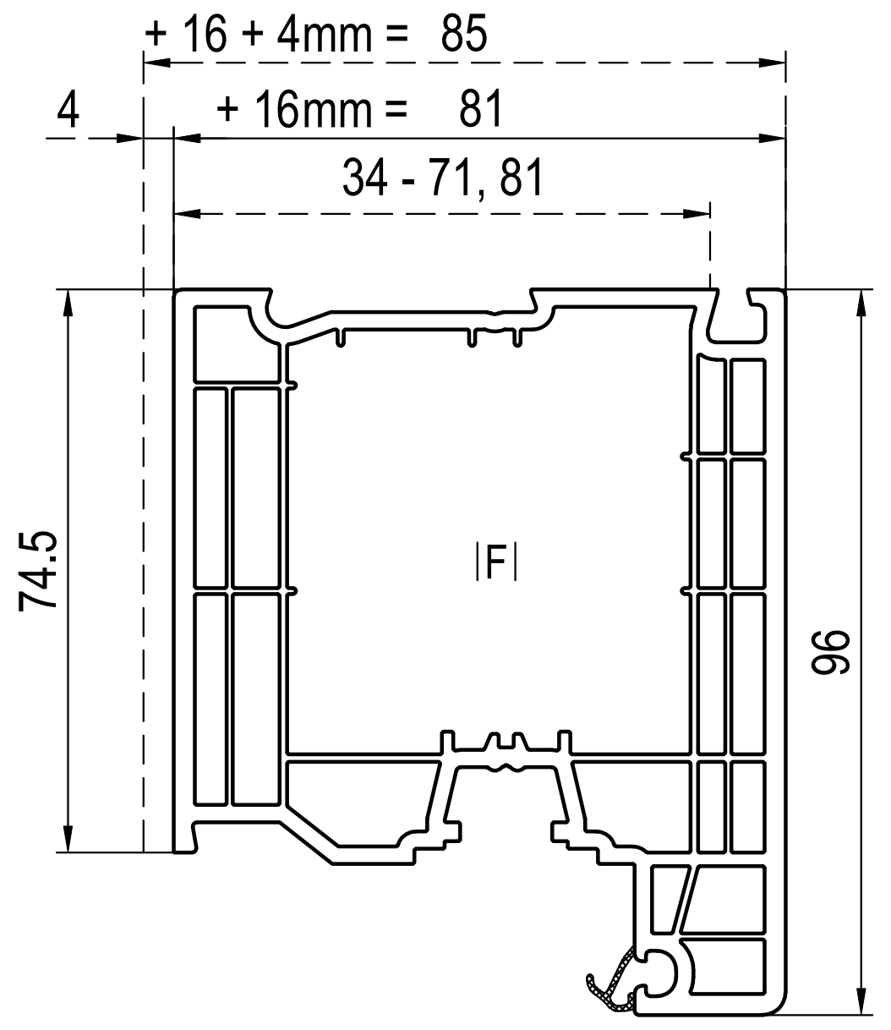
Ⓜ ■ 170x31 (CL)
Ⓜ |A| 685251, 680250, 655251, 650252, 620250, 650250
|F| 279028, 279029
Ⓜ |J| 642261, 642262, 642263, 646265, 646266



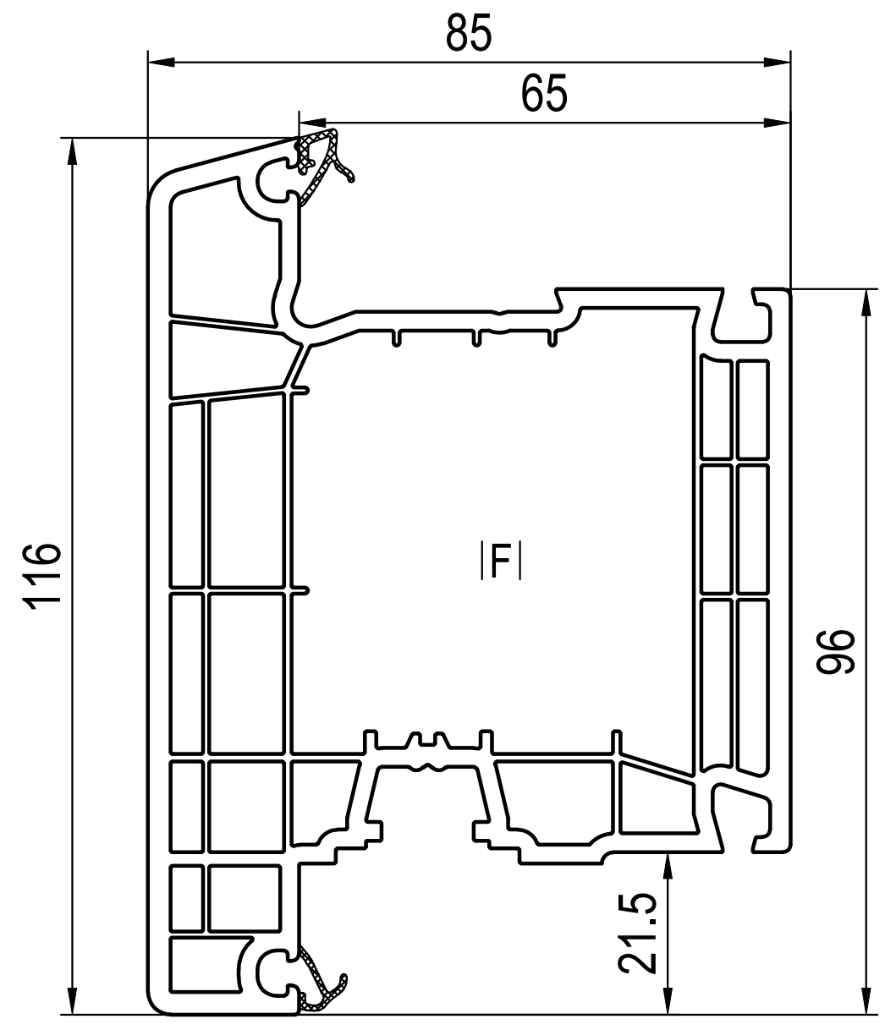
■ 170x33 (CL)
|A| 620301, 625305
|F| 229135, 229137
|P| 279433



■ 170x36 (CL)
= 170x33 cut
|A| 620301, 625305
|F| 229135, 229137

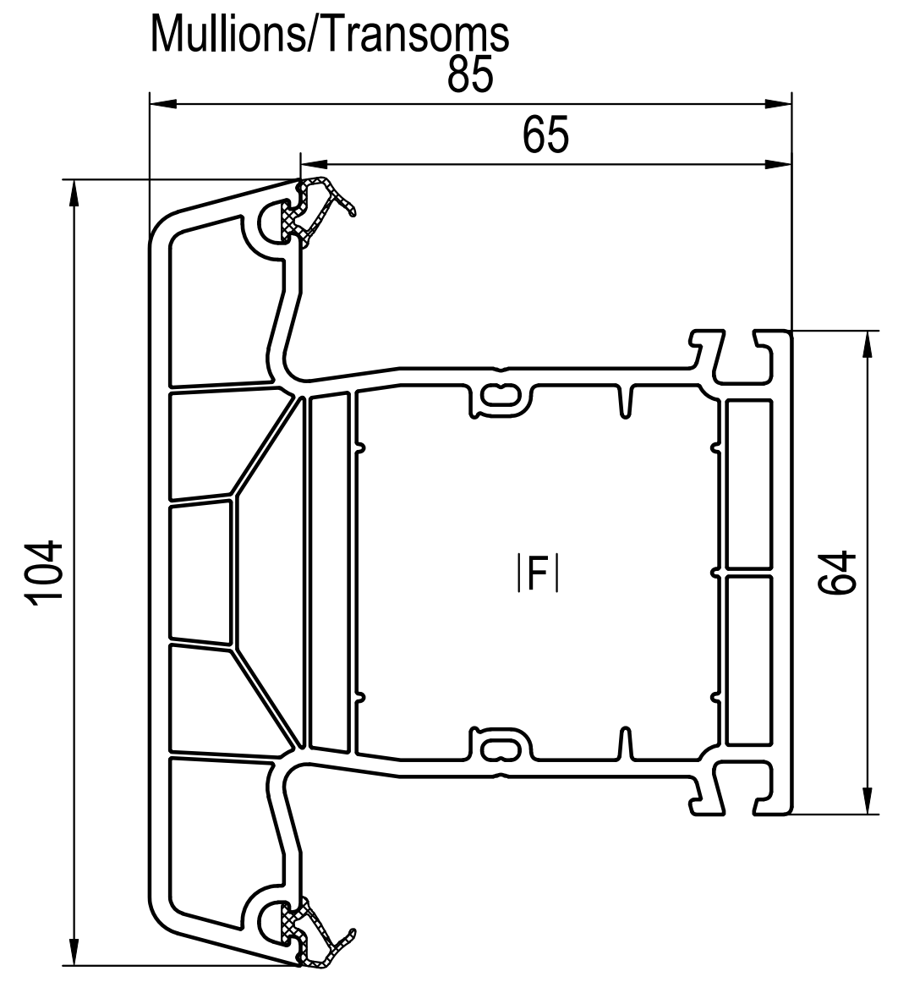


■ 170x39 (CL)
|A| 620301
|F| 229135, 229137

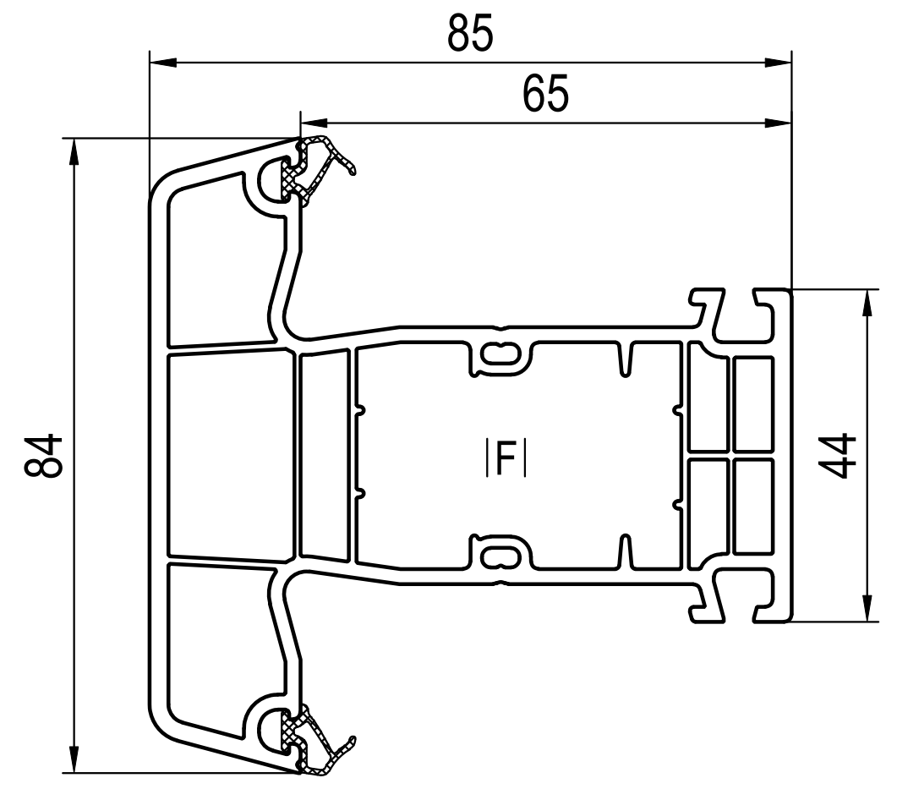


■ 170x35 (CL)
|A| 620301, 625305
|F| 229135, 229137

Mullions/Transoms

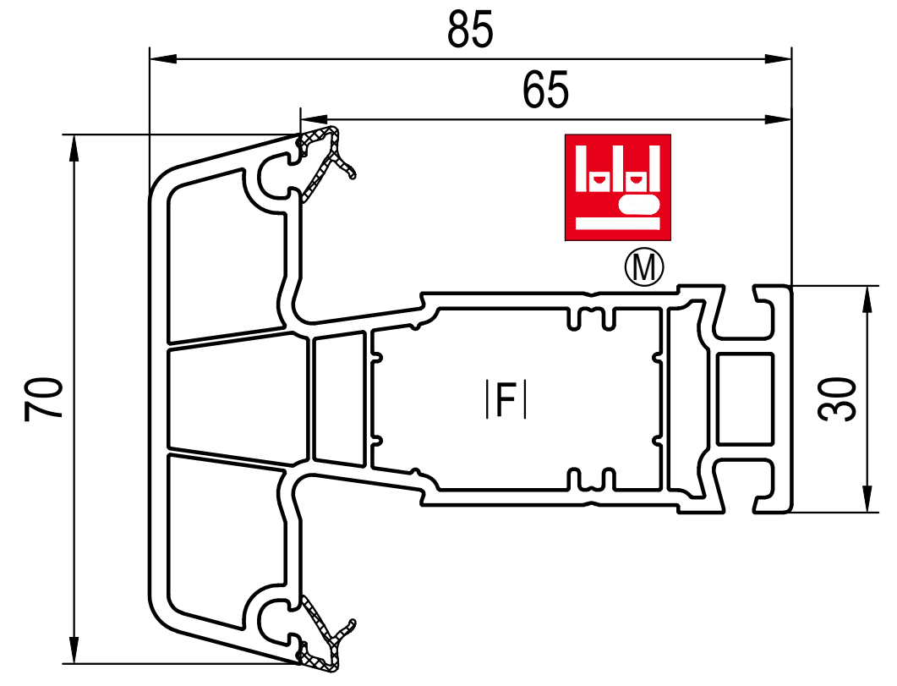


■ 170x44 (CL)
|A| 670301
Ⓜ |D̸| 677244 ~ Ⓜ ...
|D̸| 677145 |D| 677146 ~170x4x ...
|D̸| 677144 ~170x3x ...
|D̸| 640046 ~ universal
|F| 249034, 249035
|P| 289343
|U| 249058, 269060
|W| 686473



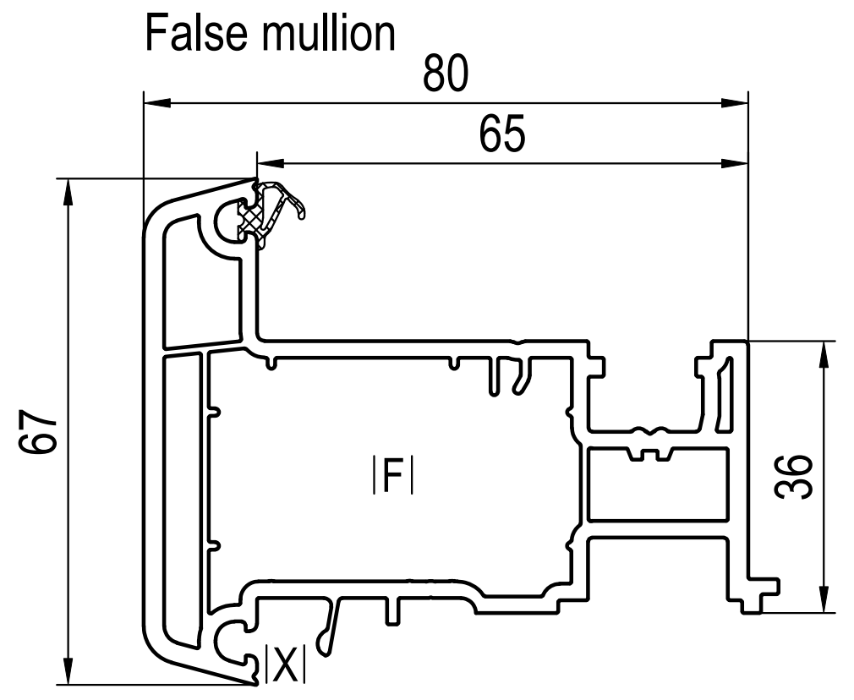
■ 170x41 (CL)
|A| 670301
Ⓜ |D̸| 677241 ~ Ⓜ ...
|D| 677101, 679141 ~170x4x ...
|D̸| 677142 ~170x3x ...
|D̸| 620046, 640046 ~ universal
|F| 259043, 259044
|P| 289341

Transoms

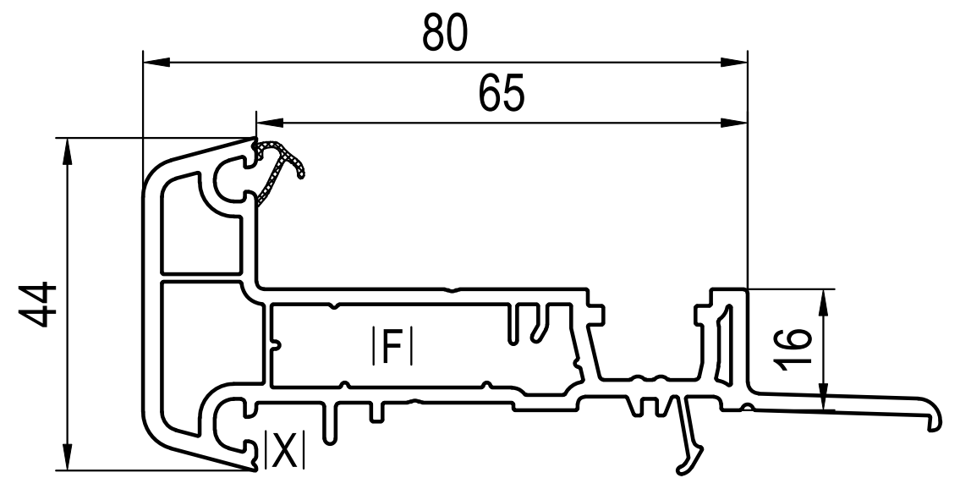


Ⓜ ■ 180x46 (CL)
Ⓜ |A| 685251, 680250, 655251, 650252, 620250, 650250
Ⓜ |D̸| 687246 ~ Ⓜ ...
|D̸| 680046 ~ universal
|F| 229037
Ⓜ |J| 642261, 642262, 642263, 646265, 646266
|P| 289346

False mullion



■ 170x64 (CL)
|C| 670064
|F| 229029, 229030, 289066
|P| 279364
|X| 447340, 449340, 447042, 449042



■ 170x65 (CL)
|C| 670365 + 670465
|F| 259080
|P| 249365
|X| 447340, 449340, 447042, 449042

Ⓜ Bonding of pane	Option

◪ not laminated
■ laminated

|A| Spacer
|C| End caps
|D| Connector
|D̸| Connector without sticks
|F| Reinforcements
|J| Bonding of pane
|P| **aluskin** Aluminium shells
|Q| Aluminium step protection
|U| Aluminium threshold
|V| Connection for threshold
|W| Mullion coupler
|X| Gaskets
|Z| Special accessories

-> for

(CL) Classic-line

GLAZING BEADS

aluplast GmbH | uPVC window profile systems
Auf der Breit 2 | DE - 76227 Karlsruhe
fon: +49 721 47171-0 | fax: -999
info.de@aluplast.net | www.aluplast.net

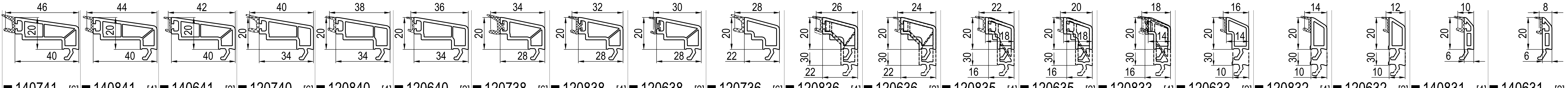
GLAZING BEADS

Glazing thickness

a	e.g. Profile serial	c 3)	46mm	44mm	42mm	40mm	38mm	36mm	34mm	32mm	30mm	28mm	26mm	24mm	22mm	20mm	18mm	16mm	14mm	12mm	10mm	8mm	[mm]
85mm	IDEAL 7000 + 16mm + 4mm protrusion ->170x39	-	38 - 39mm	40 - 41mm	42 - 43mm	44 - 45mm	46 - 47mm	48 - 49mm	50 - 51mm	52 - 53mm	54 - 55mm	56 - 57mm	58 - 59mm	60 - 61mm	62 - 63mm	64 - 65mm	66 - 67mm	68 - 69mm	70 - 71mm	72 - 73mm	74 - 75mm	-	38-75
81mm	IDEAL 7000 + 16mm + 0mm protrusion ->170x39	-	34 - 35mm	36 - 37mm	38 - 39mm	40 - 41mm	42 - 43mm	44 - 45mm	46 - 47mm	48 - 49mm	50 - 51mm	52 - 53mm	54 - 55mm	56 - 57mm	58 - 59mm	60 - 61mm	62 - 63mm	64 - 65mm	66 - 67mm	68 - 69mm	70 - 71mm	-	34-71
73mm	IDEAL 8000 + 8mm / 180250 ->180x26, 180x69	4mm	22 - 23mm	⚠➡|J| 24 - 25mm	26 - 27mm	28 - 29mm	30 - 31mm	32 - 33mm	34 - 35mm	36 - 37mm	38 - 39mm	40 - 41mm	42 - 43mm	44 - 45mm	46 - 47mm	48 - 49mm	50 - 51mm	52 - 53mm	54 - 55mm	56 - 57mm	58 - 59mm	-	22-59
67mm	energeto 5000 view Sash ->150x80	2mm	-	-	-	⚠➡|J| 24 - 25mm	26 - 27mm	28 - 29mm	30 - 31mm	32 - 33mm	34 - 35mm	36 - 37mm	38 - 39mm	40 - 41mm	42 - 43mm	44 - 45mm	46 - 47mm	48 - 49mm	50 - 51mm	52 - 53mm	54 - 55mm	-	24-55
65mm	IDEAL 7000, IDEAL 8000, Nord-line Frame, lift-slide 4)	4mm	14 - 15mm	16 - 17mm	18 - 19mm	20 - 21mm	22 - 23mm	⚠➡|J| 24 - 25mm	26 - 27mm	28 - 29mm	30 - 31mm	32 - 33mm	34 - 35mm	36 - 37mm	38 - 39mm	40 - 41mm	42 - 43mm	44 - 45mm	46 - 47mm	48 - 49mm	50 - 51mm	⚠ +0.0/-1.0 52mm	14-52
63mm	IDEAL 4000 + 8mm, IDEAL 5000 + 8mm / 180250 ->140x27, 140x48, 150x27	4mm	12 - 13mm	14 - 15mm	16 - 17mm	18 - 19mm	20 - 21mm	22 - 23mm	⚠➡|J| 24 - 25mm	26 - 27mm	28 - 29mm	30 - 31mm	32 - 33mm	34 - 35mm	36 - 37mm	38 - 39mm	40 - 41mm	42 - 43mm	44 - 45mm	46 - 47mm	48 - 49mm	-	12-49
55mm	IDEAL 4000, IDEAL 5000, Nord-line Sash, smart-slide 5) 6), Ⓜ IDEAL 2000 + 8mm ->120x26, 120x32, 120x82, 120x86, 140x46, 140x47	4mm	4 - 5mm	6 - 7mm	8 - 9mm	10 - 11mm	12 - 13mm	14 - 15mm	16 - 17mm	18 - 19mm	20 - 21mm	22 - 23mm	⚠➡|J| 24 - 25mm	26 - 27mm	28 - 29mm	30 - 31mm	32 - 33mm	34 - 35mm	36 - 37mm	38 - 39mm	40 - 41mm	⚠ +0.0/-1.0 42mm	4-42
47mm	Ⓜ IDEAL 2000 ->120x220000096, 120x300000096, 120x310000096	⚠ 4mm	-	-	-	-	3 - 4mm	5 - 6mm	7 - 8mm	9 - 10mm	11 - 12mm	13 - 14mm	15 - 16mm	17 - 18mm	19 - 20mm	21 - 22mm	⚠➡|J| 23 - 24mm	25 - 26mm	27 - 28mm	29 - 30mm	31 - 32mm	-	3-32
47mm	IDEAL 2000, multi-slide 5)	3mm	-	-	-	-	4 - 5mm	6 - 7mm	8 - 9mm	10 - 11mm	12 - 13mm	14 - 15mm	16 - 17mm	18 - 19mm	20 - 21mm	22 - 23mm	⚠➡|J| 24 - 25mm	26 - 27mm	28 - 29mm	30 - 31mm	32 - 33mm	-	4-33
38mm	vario-slide 5)	4mm	-	-	-	-	-	-	-	-	3 - 5mm	6 - 7mm	8 - 9mm	10 - 11mm	12 - 13 mm	14 - 15mm	16 - 17mm	18 - 19mm	20 - 21mm	22 - 23mm	⚠➡|J| 24 - 25mm	-	3-25
32mm	easy-slide 5) easy-slide 6) ->100078	3mm	-	-	-	-	-	-	-	-	-	-	-	3 - 5mm	6 - 7mm	8 - 9mm	10 - 11mm	12 - 13 mm	14 - 15mm	16 - 17mm	18 - 19mm	-	3-19
20/22mm	mono-slide 5) 6)	3/5mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3 - 4mm	6 - 8mm	-	3-8

b Glazing Beads

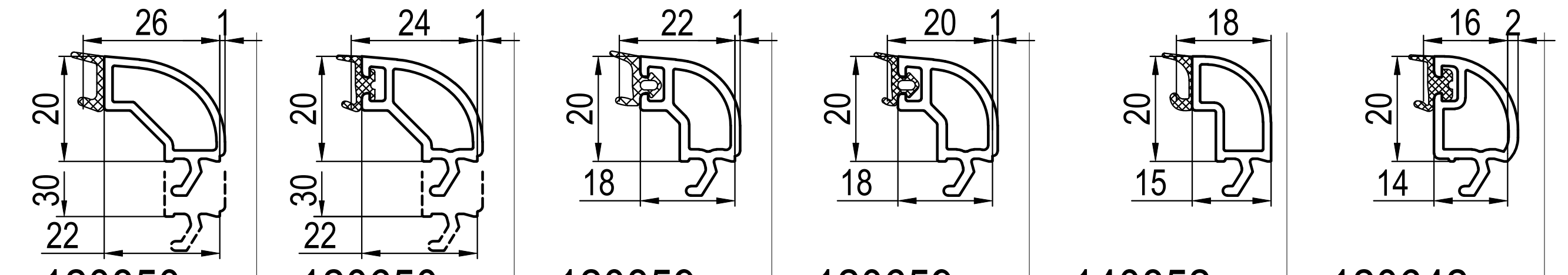
(CL) Classic-line



CL 8-46 mm

h	Gasket	compression	46mm	44mm	42mm	40mm	38mm	36mm	34mm	32mm	30mm	28mm	26mm	24mm	22mm	20mm	18mm	16mm	14mm	12mm	10mm	8mm
h = 20mm 1) 2)	black	[mm]	■ 140741 [6]	■ 140841 [4]	■ 140641 [2]	■ 120740 [6]	■ 120840 [4]	■ 120640 [2]	■ 120738 [6]	■ 120838 [4]	■ 120638 [2]	■ 120736 [6]	■ 120836 [4]	■ 120636 [2]	■ 120835 [4]	■ 120635 [2]	■ 120833 [4]	■ 120633 [2]	■ 120832 [4]	■ 120632 [2]	■ 140831 [4]	■ 140631 [2]
	papyrus-white	[mm]	⧄ 140771 [6]	⧄ 140871 [4]	⧄ 140671 [2]	⧄ 120770 [6]	⧄ 120870 [4]	⧄ 120670 [2]	⧄ 120768 [6]	⧄ 120868 [4]	⧄ 120668 [2]	⧄ 120766 [6]	⧄ 120866 [4]	⧄ 120666 [2]	⧄ 120865 [4]	⧄ 120665 [2]	⧄ 120863 [4]	⧄ 120663 [2]	⧄ 120862 [4]	⧄ 120662 [2]	⧄ 140861 [4]	⧄ 140661 [2]
h = 30mm 2)	black	[mm]	-	-	-	-	-	-	-	-	-	-	■ 130836 [4]	■ 130636 [2]	■ 130754 [6]	■ 130854 [4]	■ 130654 [2]	■ 130753 [6]	■ 130853 [4]	■ 130653 [2]	-	-
	papyrus-white	[mm]	-	-	-	-	-	-	-	-	-	-	⧄ 130866 [4]	⧄ 130666 [2]	⧄ 130784 [6]	⧄ 130884 [4]	⧄ 130684 [2]	⧄ 130783 [6]	⧄ 130883 [4]	⧄ 130683 [2]	-	-

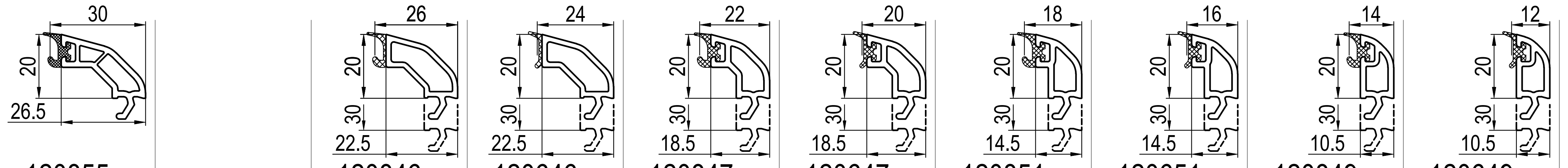
(RL) Round-line



RL 16-26 mm

h	Gasket	compression	26mm	24mm	22mm	20mm	18mm	16mm
h = 20mm 1) 2)	black	[mm]	■ 120850 [4]	■ 120650 [2]	■ 120859 [3-4]	■ 120659 [2-3]	■ 140852 [3-4]	⧄ 120642 [2-3]
	papyrus-white	[mm]	⧄ 120880 [4]	⧄ 120680 [2]	⧄ 120889 [3-4]	⧄ 120689 [2-3]	⧄ 140882 [3-4]	⧄ 120672 [2-3]
h = 30mm 2)	black	[mm]	■ 130850 [4]	■ 130650 [2]	-	-	-	-
	papyrus-white	[mm]	⧄ 130880 [4]	⧄ 130680 [2]	-	-	-	-

(SL) Soft-line

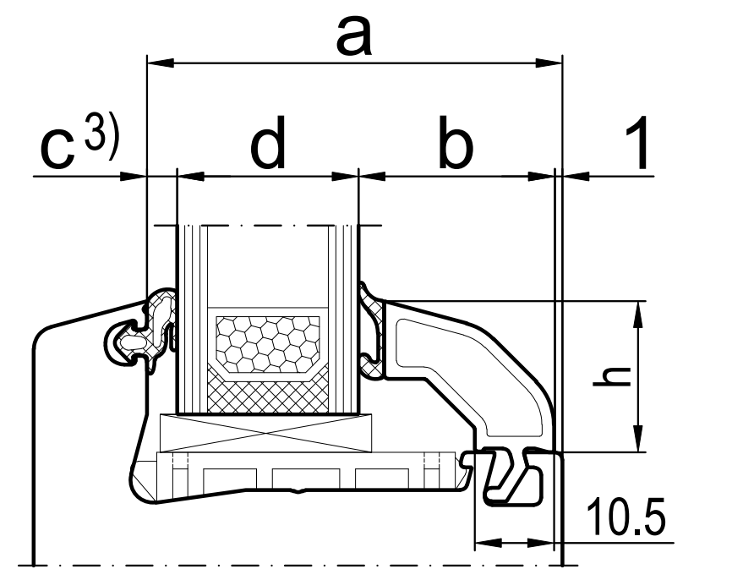


SL 12-26 mm 30 mm

h	Gasket	compression	30mm	28mm	26mm	24mm	22mm	20mm	18mm	16mm	14mm	12mm
h = 20mm 1) 2)	black	[mm]	■ 120855 [4]		■ 120846 [4]	■ 120646 [2]	■ 120847 [4]	■ 120647 [2]	■ 120851 [4]	■ 120651 [2]	■ 120849 [4]	■ 120649 [2]
	papyrus-white	[mm]	⧄ 120885 [4]		⧄ 120876 [4]	⧄ 120676 [2]	⧄ 120877 [4]	⧄ 120677 [2]	⧄ 120881 [4]	⧄ 120681 [2]	⧄ 120879 [4]	⧄ 120679 [2]
h = 30mm 2)	black	[mm]	-		■ 130856 [4]	■ 130656 [2]	■ 130857 [4]	■ 130657 [2]	■ 130858 [4]	■ 130658 [2]	■ 130859 [4]	■ 130659 [2]
	papyrus-white	[mm]	-		⧄ 130886 [4]	⧄ 130686 [2]	⧄ 130887 [4]	⧄ 130687 [2]	⧄ 130888 [4]	⧄ 130688 [2]	⧄ 130889 [4]	⧄ 130689 [2]

Choose glazing bead

b = a - c - d - 1



a = Glazing rebate
b = Glazing bead + Gasket*
c 3) = Repair gaskets*
d = Glazing thickness
1 = 1mm protrusion

⚠➡|J| Bonding of pane
d ≥ 24 mm
Ⓜ|J| Ⓝ|J| Ⓥ|J|

* compressed gasket

1) for backstop gasket systems
2) for centre gasket systems
3) or profile with gasket
4) Sash (Lift-and-slide door)
5) Sash (Sliding window)
6) Frame (Sliding window)

⧄ not laminated
■ laminated
|P| **aluskin** Aluminium shells

-> for

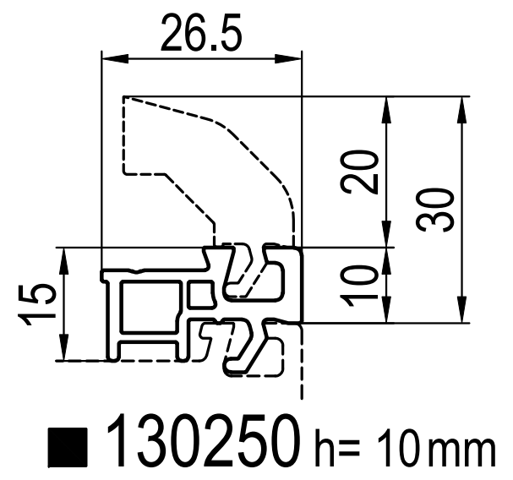
(CL) Classic-line
(RL) Round-line
(SL) Soft-line

bl black ~ RAL 9005
pw papyrus-white ~ RAL 9018

Additional Profiles

for centre gasket systems
for frame and mullion
with glazing beads h= 20mm

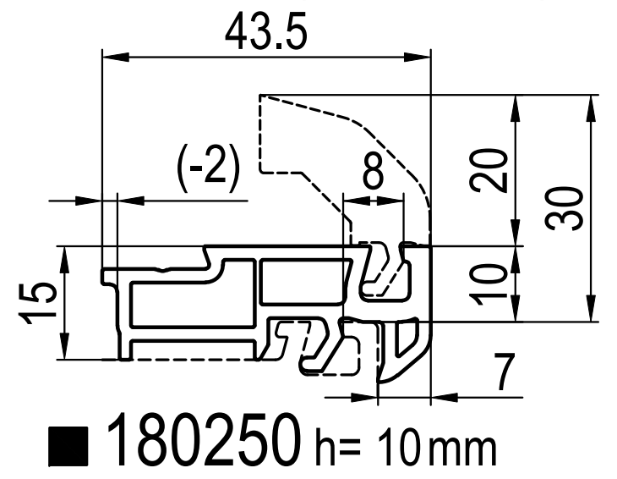
Glazing bead adapter
IDEAL 5000/8000



■ 130250 h= 10mm
|A| 650321, 680321
Spacer

= d
= a

Glazing rebate extension
IDEAL 8000 (IDEAL 5000)

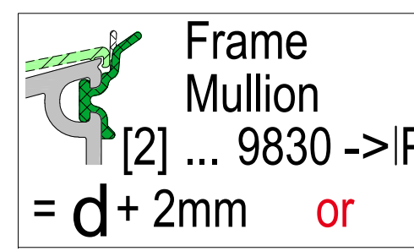


■ 180250 h= 10mm
|A| 650321, 680321 = cut
Spacer

= d + 8mm
= a + 8mm

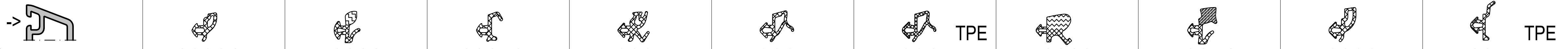
(...) 180250 = cut

Repair gaskets

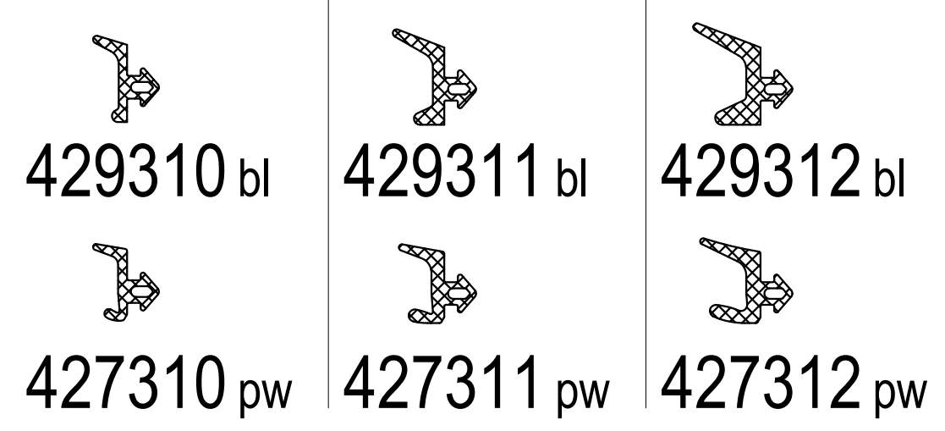


= d + 2mm or b + 2mm

|X| Gaskets -> Main Profiles	Glazing thickness							|P| aluskin	|P| aluskin	|P| aluskin
IDEAL 4000, IDEAL 5000, IDEAL 7000, IDEAL 8000, Nord-line, lift-slide 4), smart-slide 5) 6), vario-slide 5), ⓂIDEAL 2000	-	= d + 1mm	= d + 1mm	= d + 1mm	= d Standard	= d Option	= d - 1mm	= d	= d	= d + 2mm
IDEAL 2000, multi-slide 5)	= d Standard	= d Option	= d Option	= d Option	-	-	= d - 2mm	-	-	-
easy-slide 5)	-	= d Standard	= d Option	= d Option	= d - 1mm	= d - 1mm	= d - 2mm	-	-	-
mono-slide 5)	-	= d + 2mm	= d + 2mm	= d + 2mm	= d + 1mm	= d + 1mm	= d Standard	-	-	-
easy-slide 6), mono-slide 6)	-	= d Option	= d Standard	= d Option	= d - 1mm	= d - 1mm	= d - 2mm	-	-	-
compression [mm]	[2.5-3.5]	[2.5-3.5]	[3-3.5]	[3-5]	[4-4.5]	[4-4.5]	[4.5-7.0]	[4]	[4]	⚠ [2]
|X| Gaskets -> Glazing Beads	429921 bl 427921 pw	459922 bl - pw	409076 bl - pw	459925 bl 450925 pw	479025 bl 477025 pw	TPE 479015 bl 477015 pw	459923 bl - pw	459951 bl - pw	449986 bl 447986 pw	TPE 449347 bl 447347 pw
	C = 3mm	C = 3mm	C = 3mm	C = 3mm	C = 4mm	C = 4mm	C = 5mm	C = 4mm	C = 4mm	C = 2mm
								Standard ->|P|	Option ->|P|	Option ->|P| ⚠ -> Frame -> Mullion



xxx6xx [2]	xxx8xx [3-4]	xxx7xx [6]
429310 bl	429311 bl	429312 bl
427310 pw	427311 pw	427312 pw

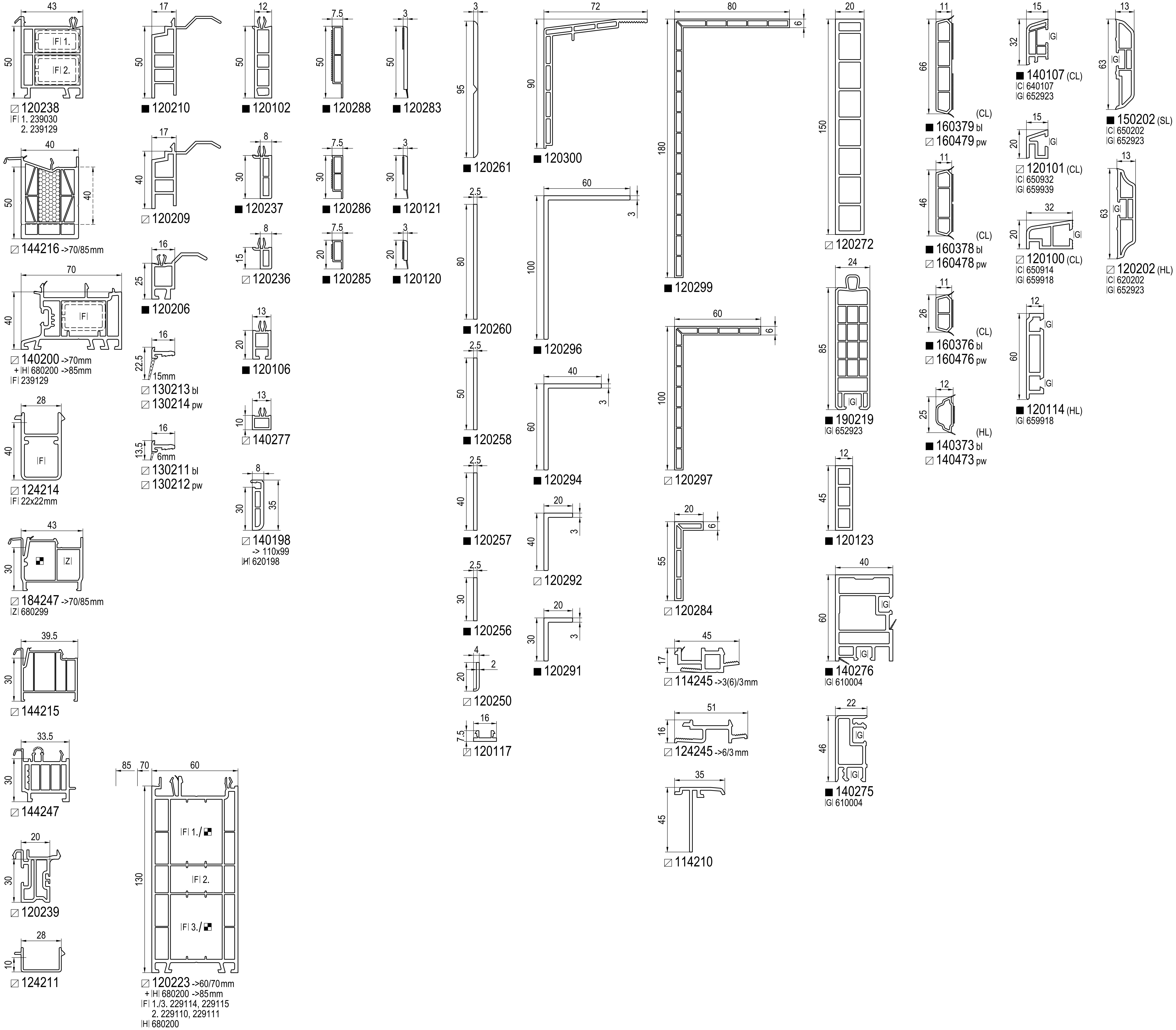


May be subject to change and errors excepted!

Laminated profiles and profiles with gasket: see price list!

DIN A0->DIN A3 Draughtsman: RTH Filename: *Glasleisten* Issued: 2020-11 Language: en (English) / Englisch

General

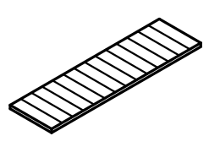


Accessories

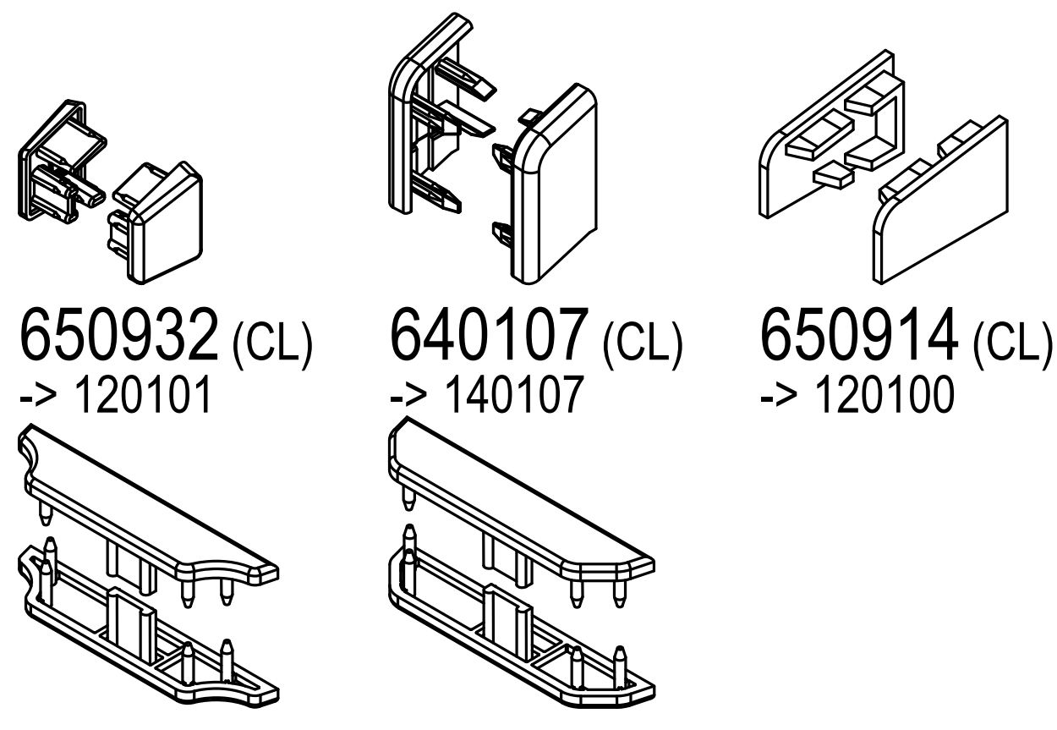
|A| Spacer

660911	2x12x100mm
669922	3x12x100mm
669944	5x12x100mm
660916	2x20x100mm
669919	3x20x100mm
669920	4x20x100mm
660900	4x22x100mm
659905	1x25x 90 mm
659906	2x25x 90 mm
659907	5x25x 90 mm
669912	2x28x100mm
669911	3x28x100mm
669910	4x28x100mm
659908	5x28x100mm
660901	2x30x100mm
660902	3x30x100mm
660903	4x30x100mm
659935	2x34x100mm
659936	3x34x100mm
659937	4x34x100mm
659938	5x34x100mm
659942	2x46x100mm
659943	3x46x100mm
659944	5x46x100mm

2 mm ~ blue
3 mm ~ red
4 mm ~ yellow
5 mm ~ green



|C| End caps



650932 (CL)
-> 120101

640107 (CL)
-> 140107

650914 (CL)
-> 120100

620202 (HL)
-> 120202

650202 (SL)
-> 150202

|F| see plan:
Reinforcements

|G| Nipple screw / Clip

652923
-> uPVC

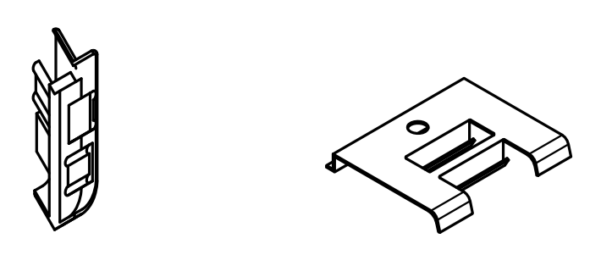
659918

610004

659923
-> aluminium

659939

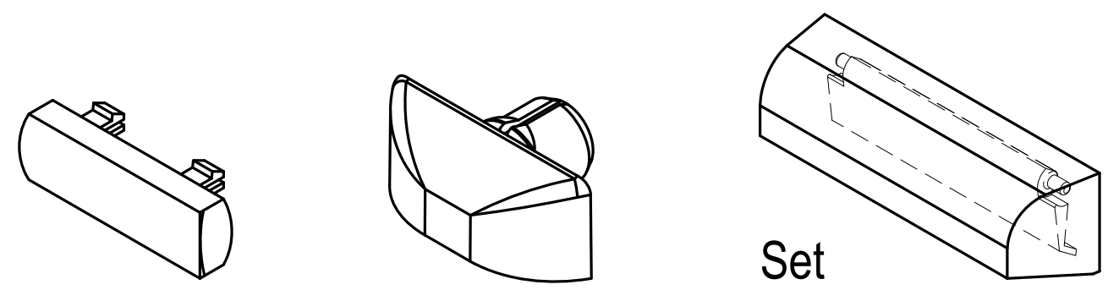
|H| Installation / mounting anchor



620198
-> 140198

680200
->85mm +
120221, 120223,
120242, 140209,
140200

|K| Drain slot caps / Drainage profile

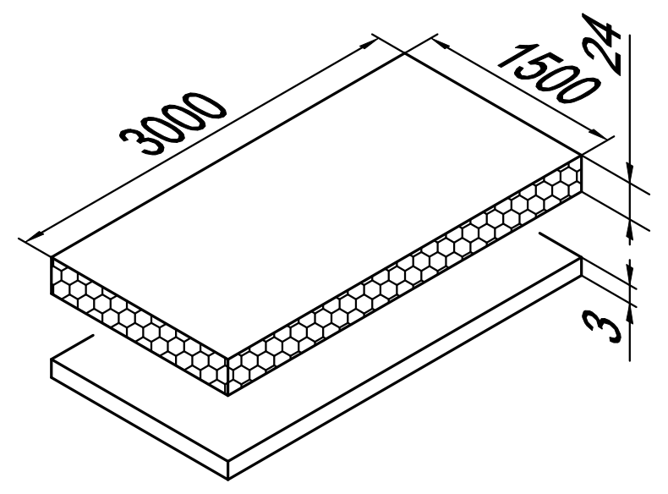


690923
~ Ø5x25mm

620014
Ø10x11mm

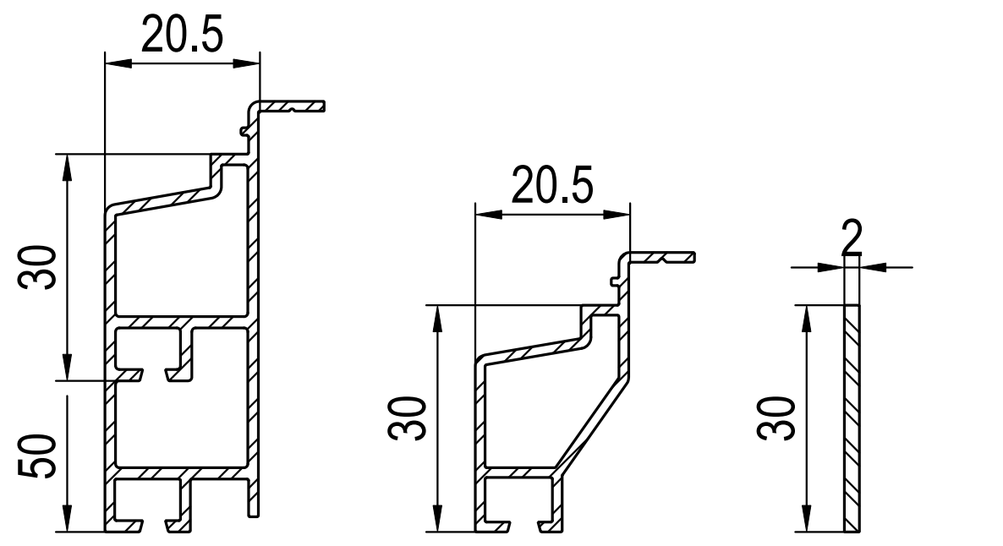
Set
600292
~ Ø5x30mm

|M| Panels (uPVC / Sandwich)



620320 24mm
620321 3mm

|S| Aluminium profiles

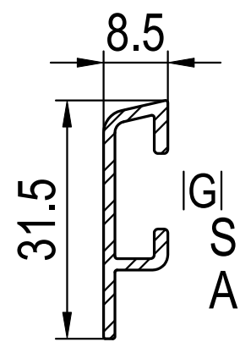


▨ 229080
SL 63mm
AU 205mm
GU 371mm

▨ 259308
SL 41mm
AU 148mm
GU 215mm

▨ 249301
SL 34mm
AU 64mm

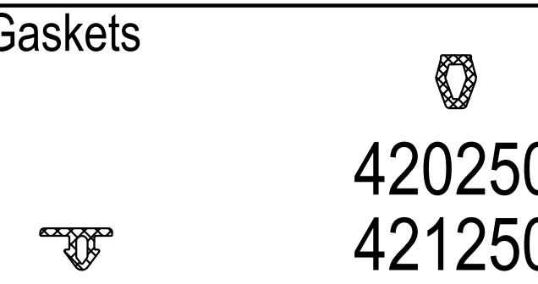
|T| Aluminium weather bar



SL 40mm
AU 106mm

▨ 259082 (CL)
|G| 659923

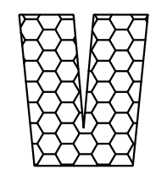
|X| Gaskets



429334 bl
427334 pw

420250 wh
421250 br
423250 oc
429250 bl

|Z| Special accessories



680299
~13/17x20x1000mm
-> 184247

▨ not laminated
■ laminated
▩ **foam inside** -> ▨

-> for

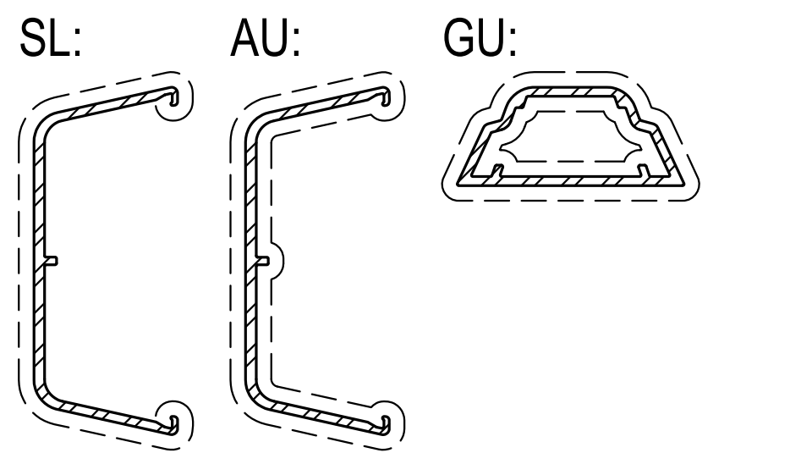
(CL) Classic-line
(RL) Round-line
(SL) Soft-line
(HL) Historik-line

br	brown
gr	grey
oc	ochre
bl	black
pw	papyrus-white
wh	white

Construction depth

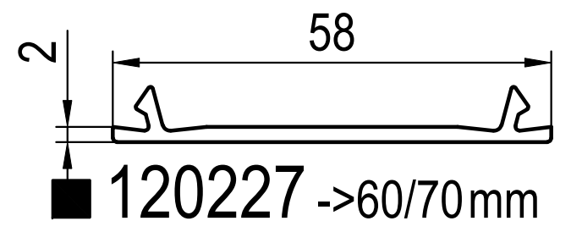
->60mm	->IDEAL 2000
->70mm	->IDEAL 4000 / 5000
->85mm	->IDEAL 7000 / 8000
...	->IDEAL 2000 - 8000

SL visible length
AU exterior perimeter
GU overall perimeter

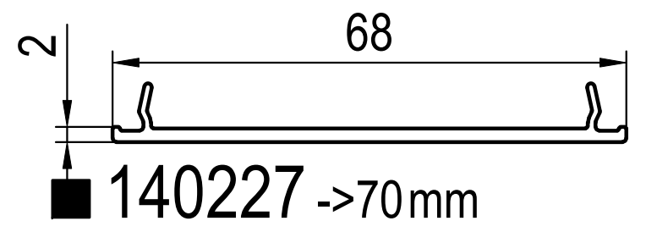


Extensions
Couplings
Structural profiles

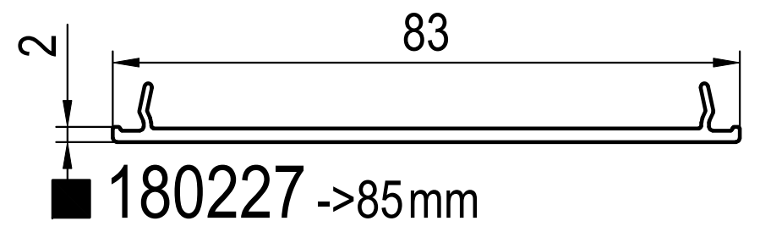
Extensions



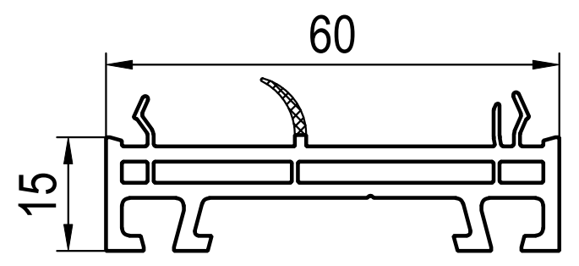
■ 120227 ->60/70mm



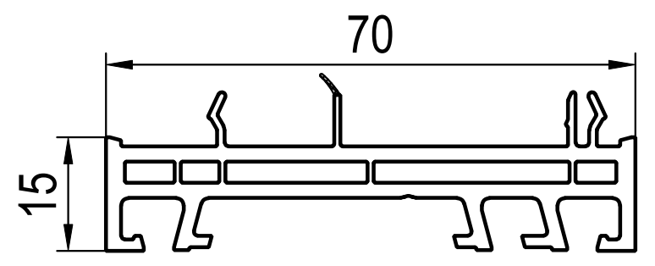
■ 140227 ->70mm



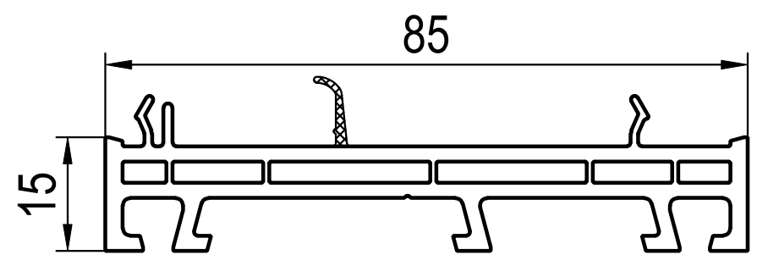
■ 180227 ->85mm



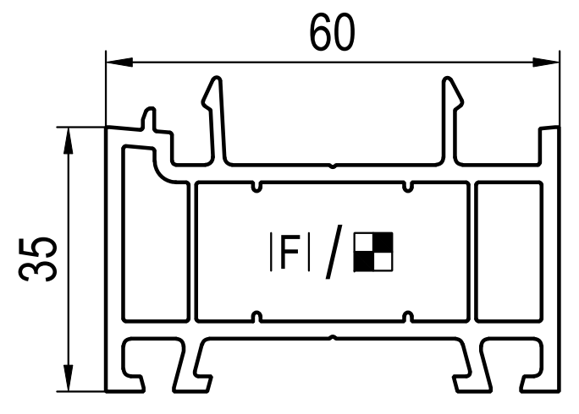
■ 120220 ->60/70mm



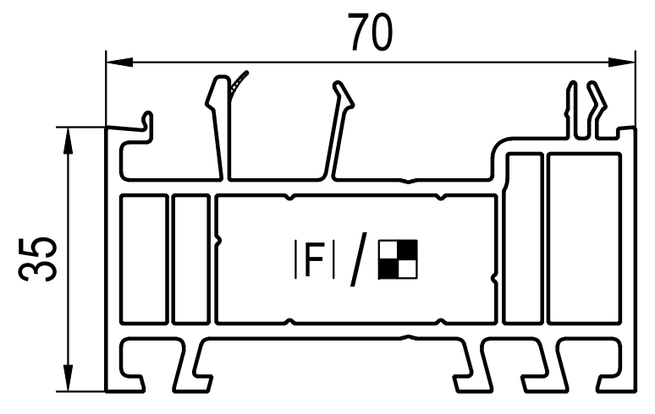
■ 140209 ->70mm
+ |H| 680200 ->85mm



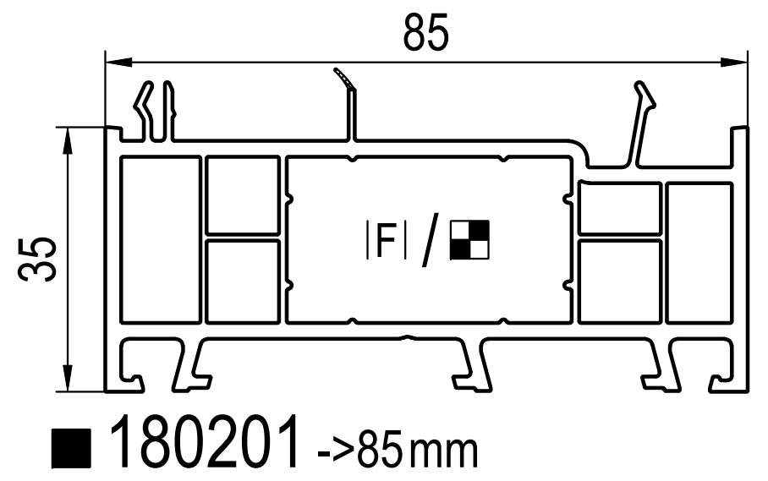
■ 180209 ->85mm



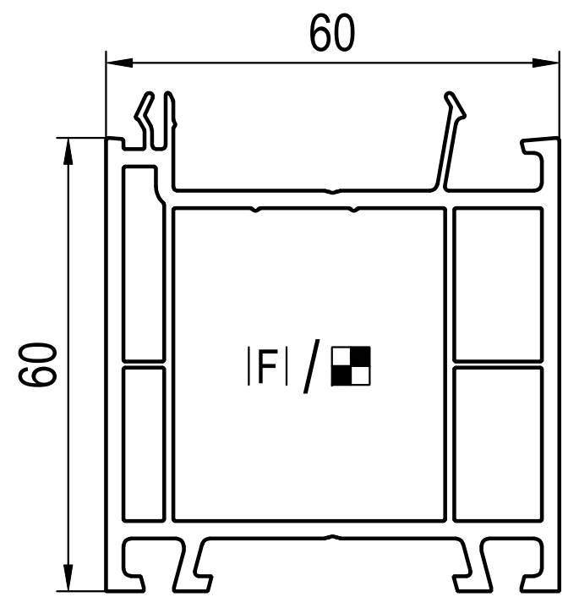
■ 120242 ->60/70mm
+ |H| 680200 ->85mm
|F| 229110, 229111
|P| 249335



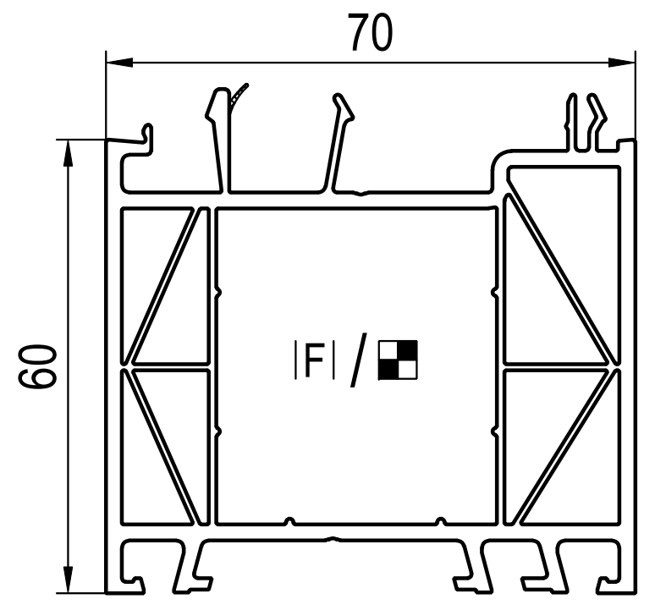
■ 140205 ->70/85mm
|F| 229110, 229111
|P| 249335



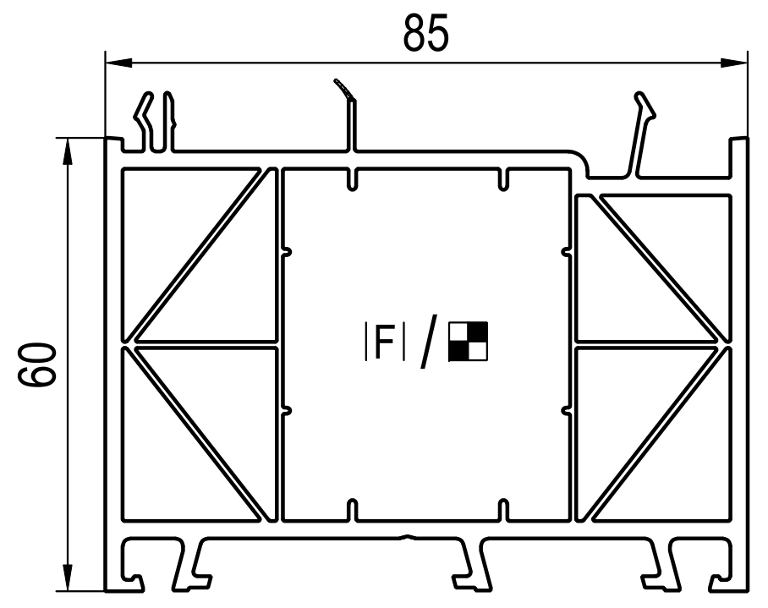
■ 180201 ->85mm
|F| 229098, 229100, 229101
|P| 249335



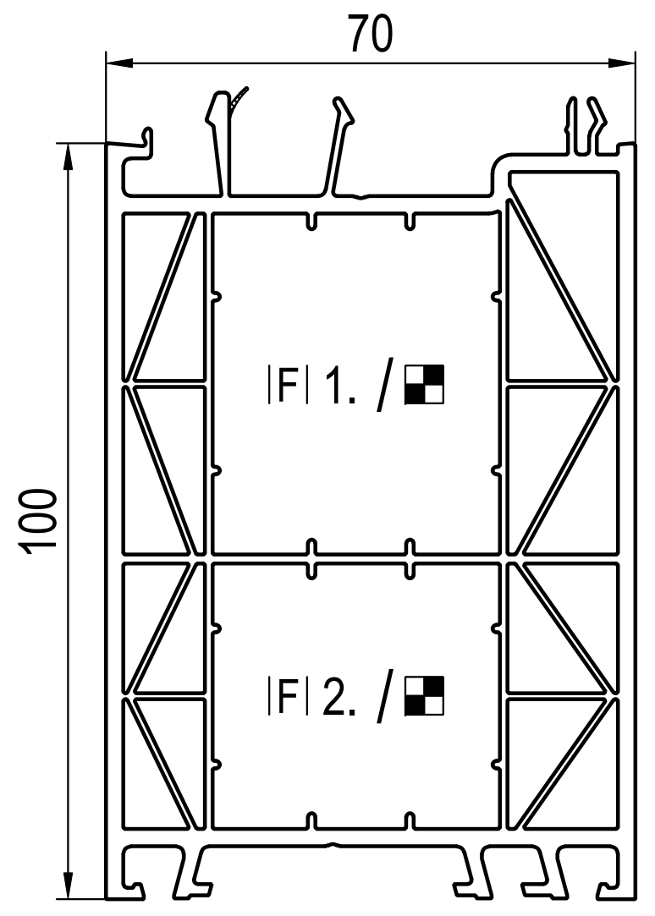
■ 120221 ->60/70mm
+ |H| 680200 ->85mm
|F| 229114, 229115
|P| 249360



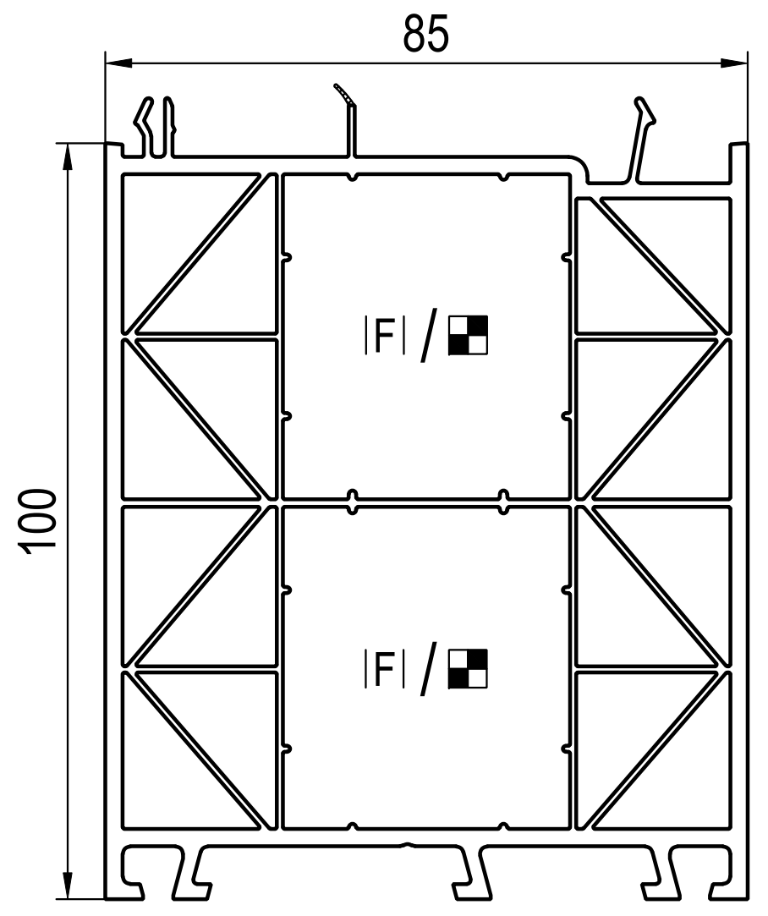
■ 140207 ->70/85mm
|F| 229017, 229114, 229115
|P| 249360



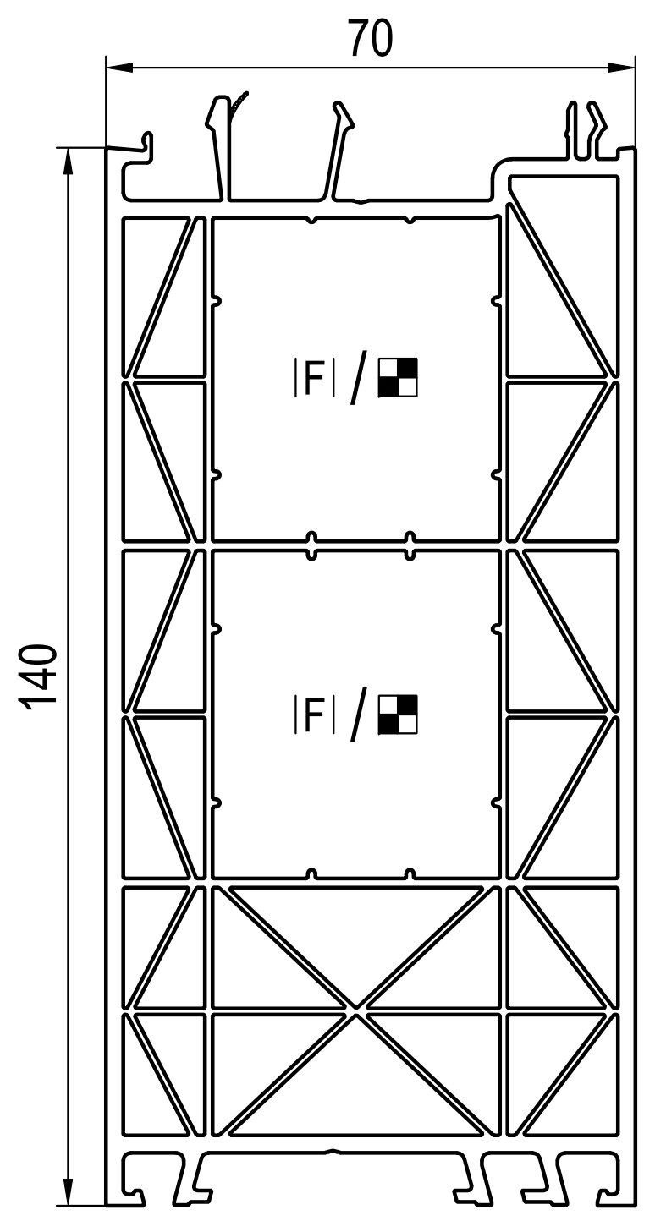
■ 180203 ->85mm
|F| 229114, 229115
|P| 249360



■ 140208 ->70/85mm
|F| 1. 229114, 229115
2. 259010, 259011
|P| 249310

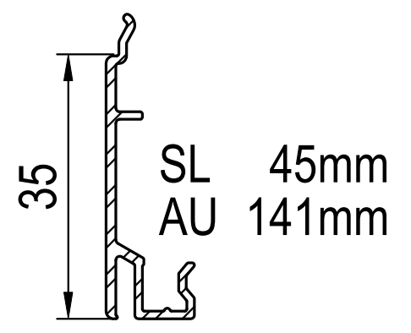


■ 180204 ->85mm
|F| 229114, 229115
|P| 249310

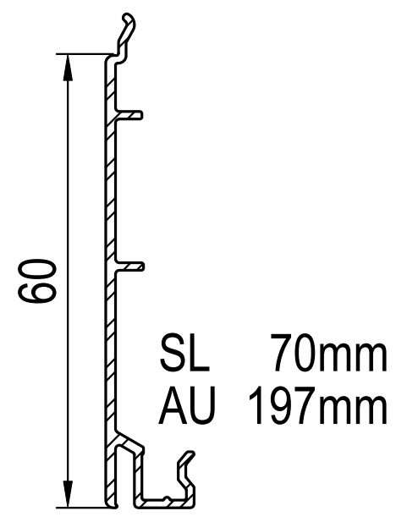


■ 140206 ->70/85mm
|F| 229114, 229115

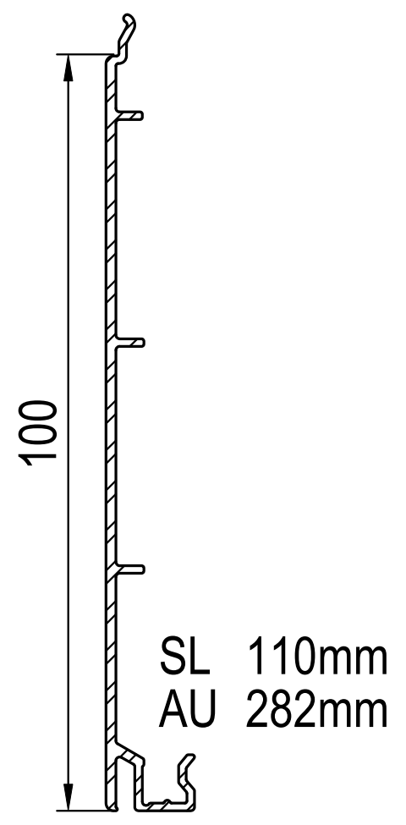
|P| -> Extension profile



⧄ 249335 (CL)
-> 120242,
140205,
180201

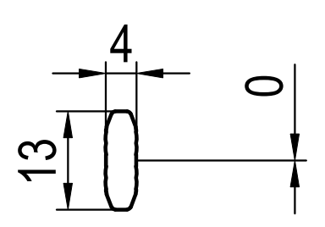


⧄ 249360 (CL)
-> 120221,
140207,
180203

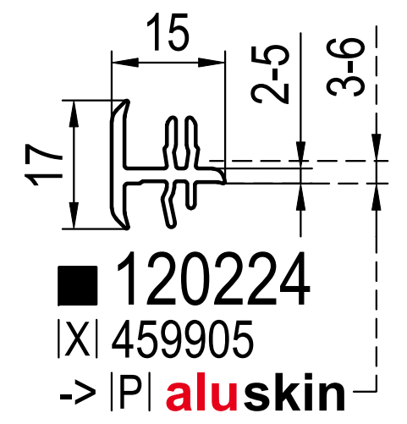


⧄ 249310 (CL)
-> 140208,
180204

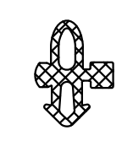
Couplings



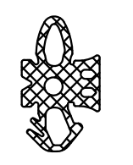
⧄ 120116



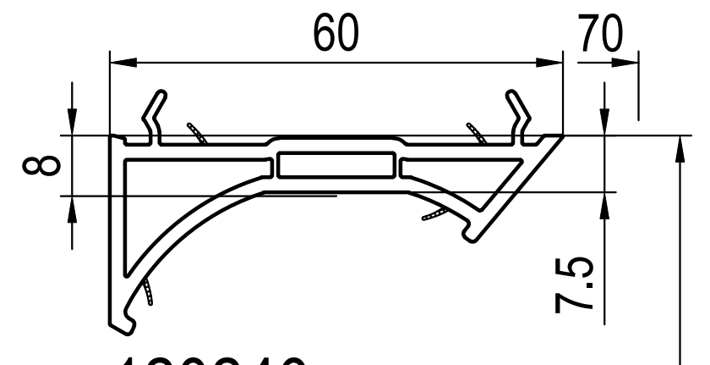
■ 120224
|X| 459905
-> |P| **aluskin**



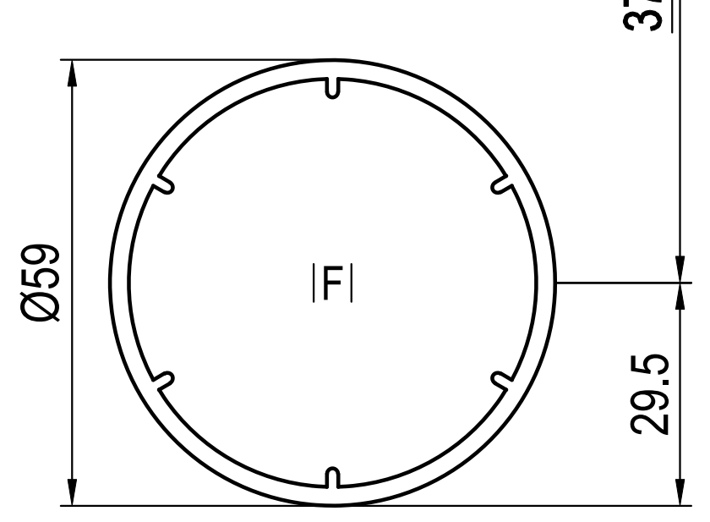
449140 bl
447140 pw
= |X| Gaskets



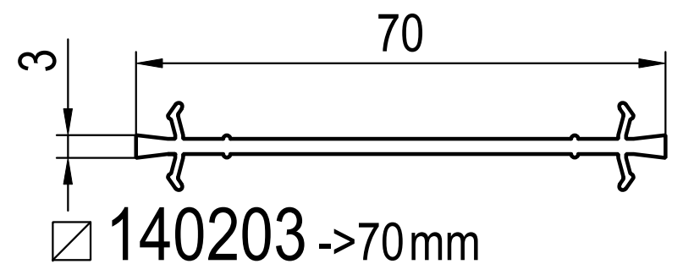
449141 bl
447141 pw
= |X| Gaskets



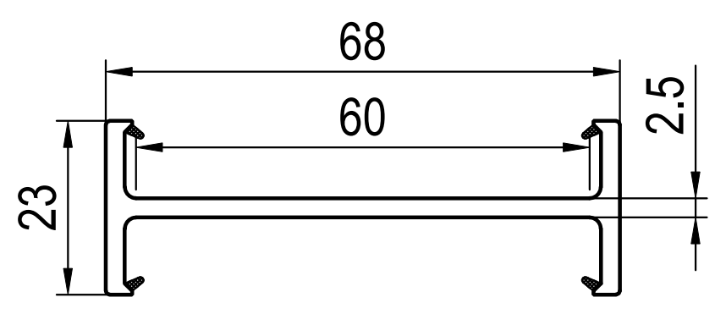
■ 120240 ->60/70mm



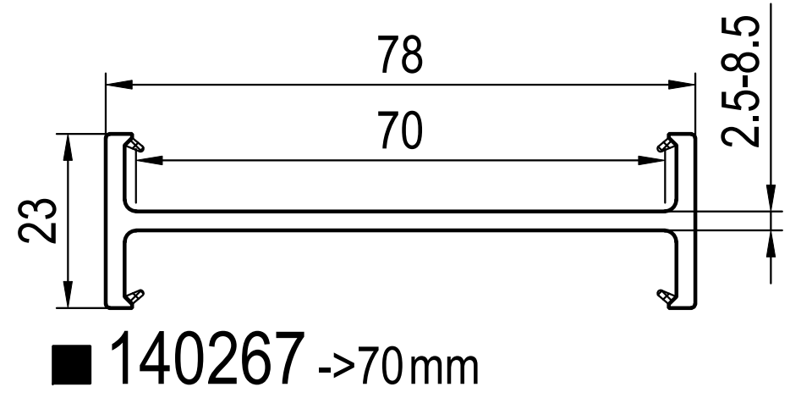
■ 120241 ->60/70mm
|F| 229140 s=3.25mm, Ix=11.7cm⁴
|H| 622140



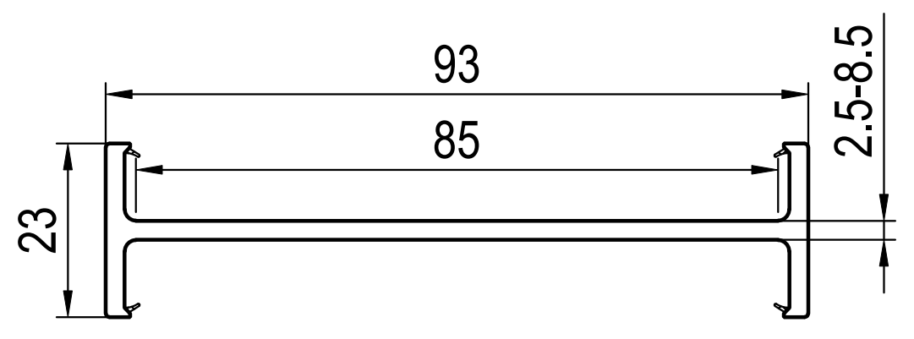
⧄ 140203 ->70mm



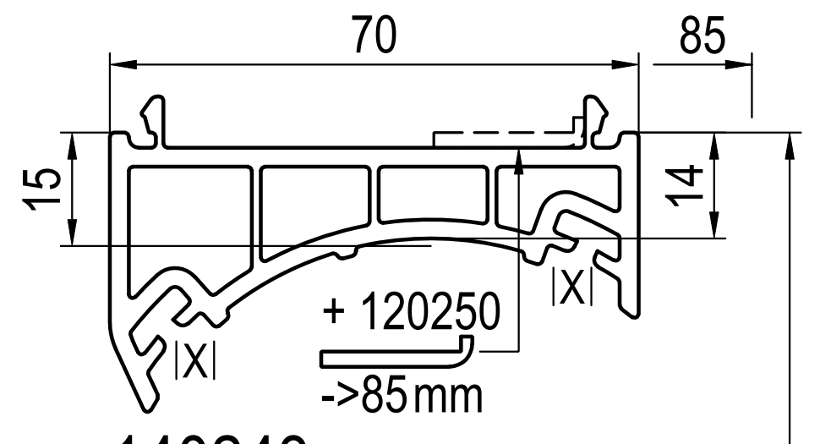
■ 120217 ->60mm



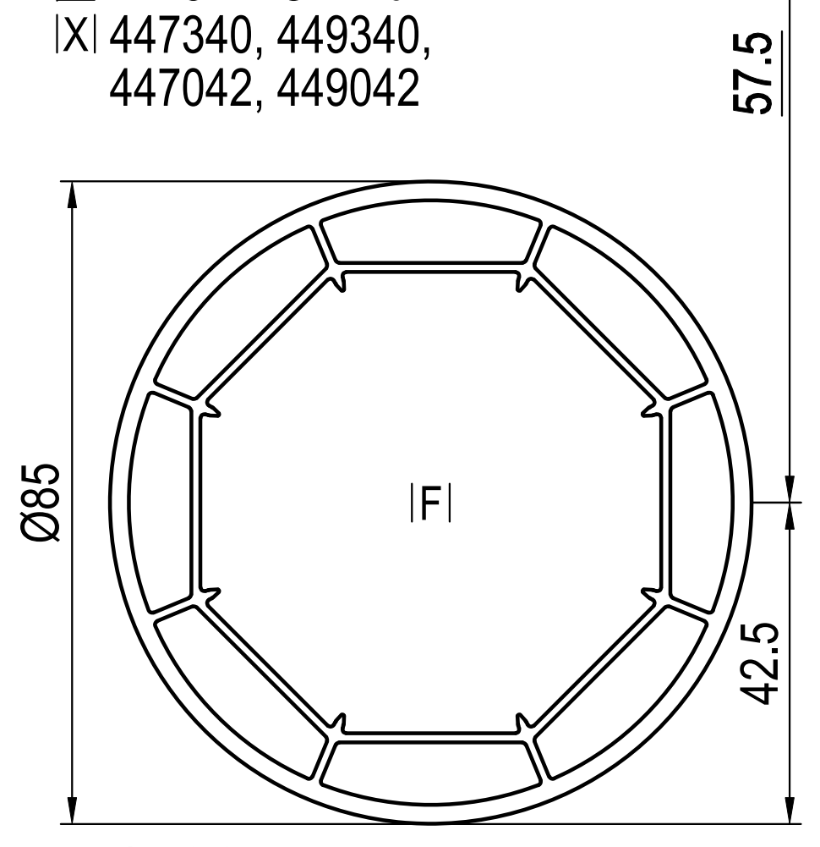
■ 140267 ->70mm



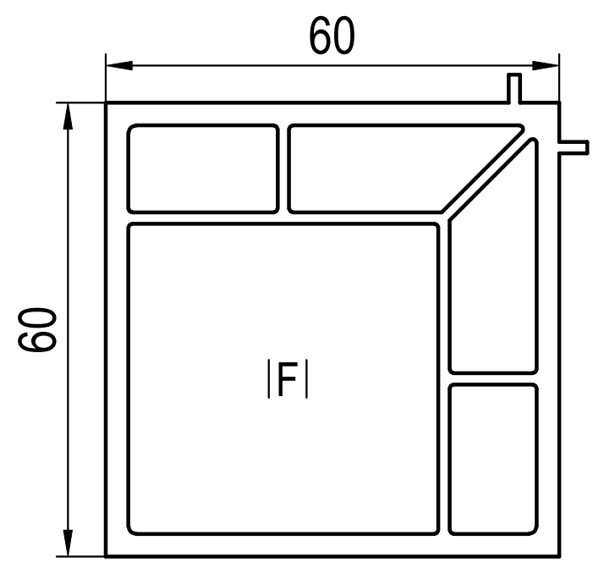
■ 180267 ->85mm



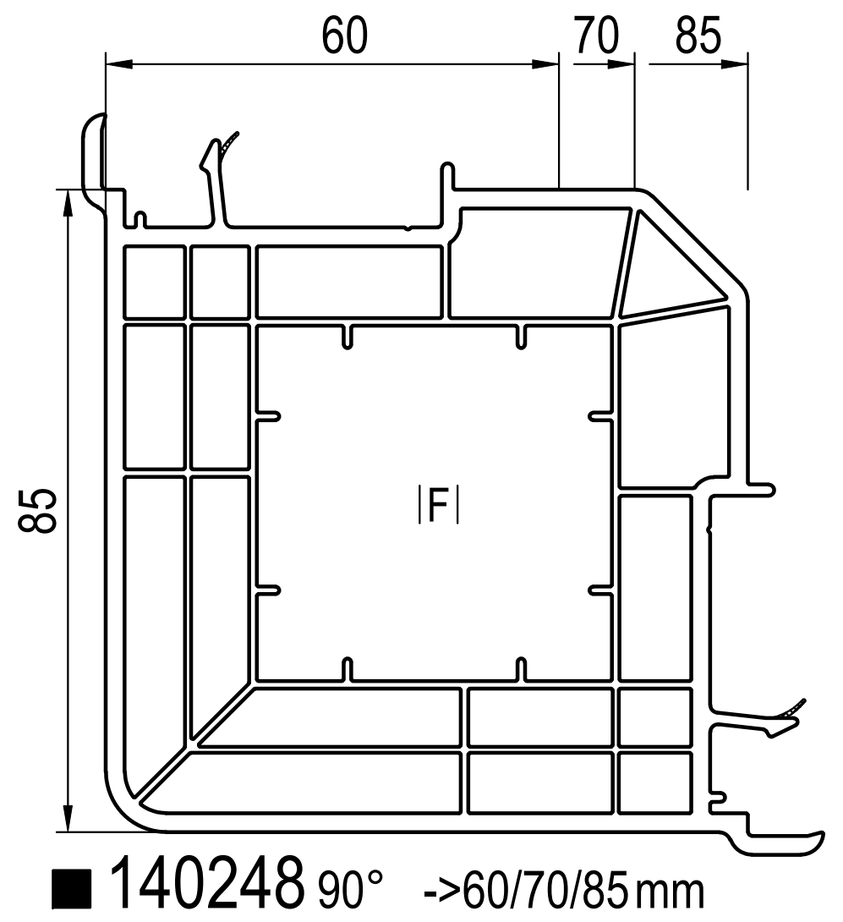
■ 140243 ->70mm
|X| 447340, 449340,
447042, 449042



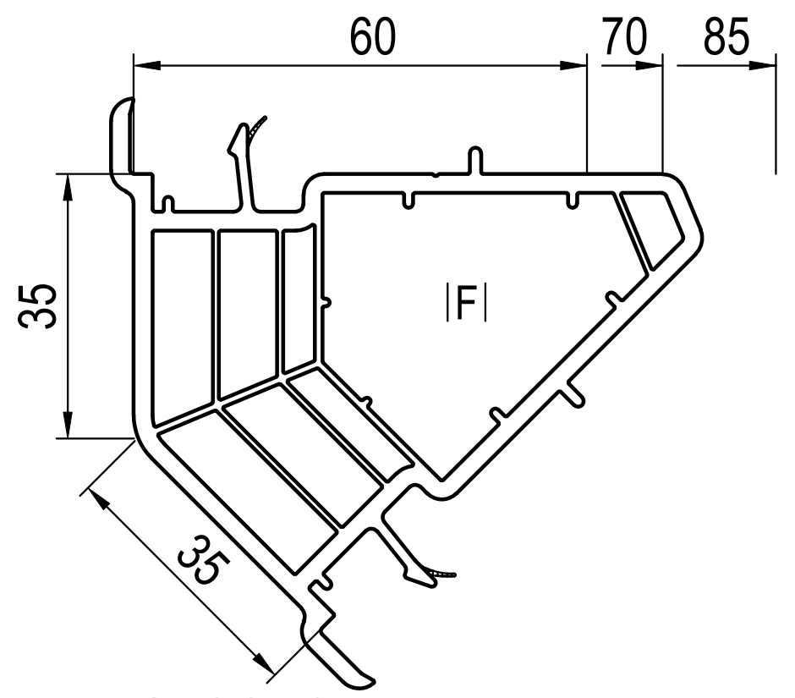
■ 140244 ->70/85mm
|F| 249244 s=3.2mm, Ix=23.5cm⁴
|H| 622333



■ 120275 90° ->60mm
|F| 229040 s=2.0mm, Ix=7.0cm⁴
|H| 622041

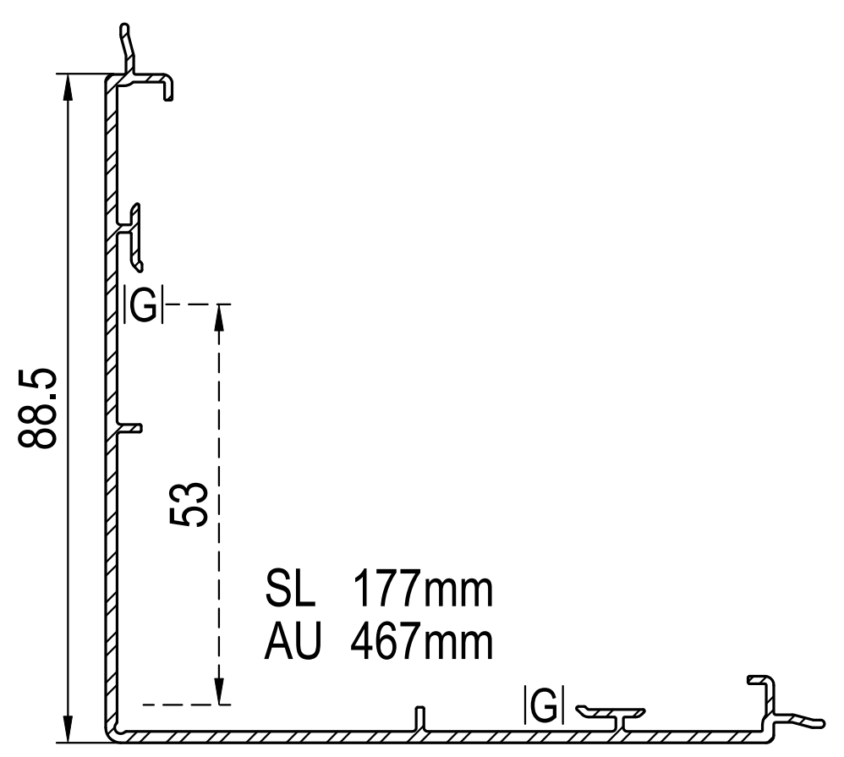


■ 140248 90° ->60/70/85mm
|F| 229040 s=2.0mm, Ix=7.0cm⁴
|H| 622041
|P| 249448



⧄ 140249 135° ->60/70/85mm
|F| 249242 s=2.0mm, Ix=2.9cm⁴
|H| 622902

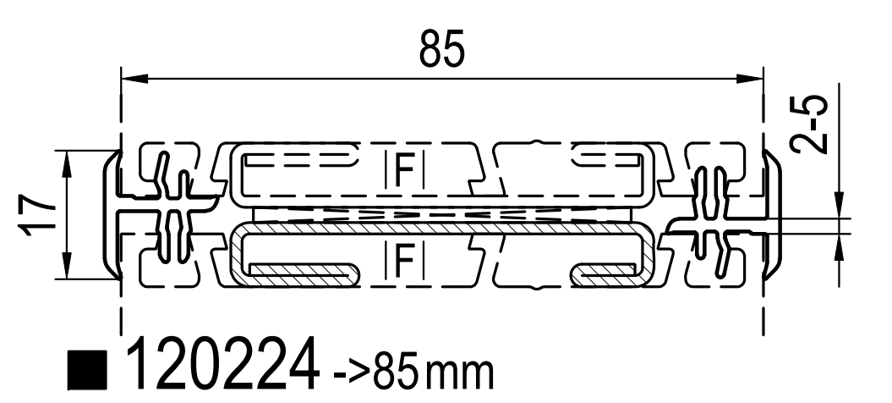
|P| -> Couplings



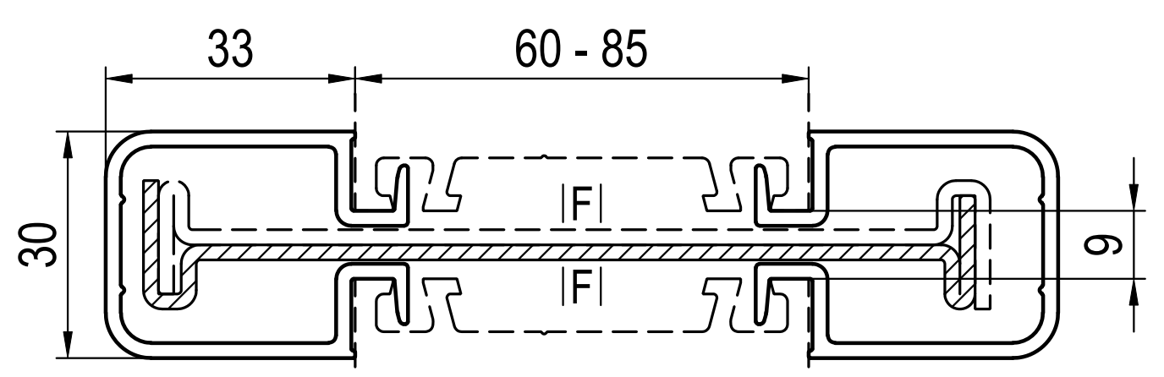
⧄ 249448 (CL)
|G| 654930
-> 140248

Structural profiles

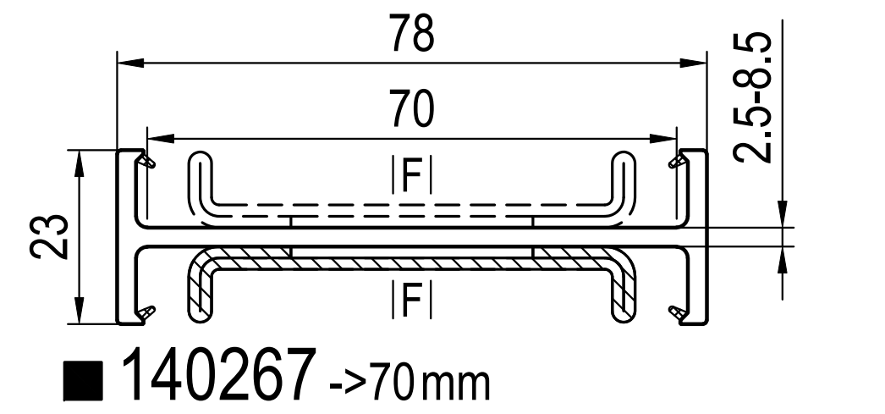
Couplings



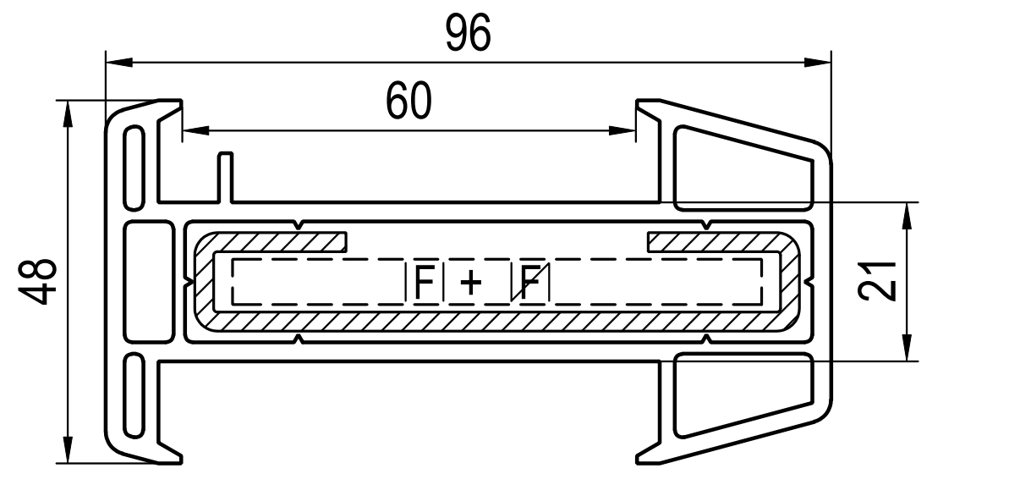
■ 120224 ->85mm
|F| 1x 289018 s=1.5mm, Ix=6.2cm⁴
2x 289018 s=1.5mm, Ix=12.4cm⁴
|H| 682331



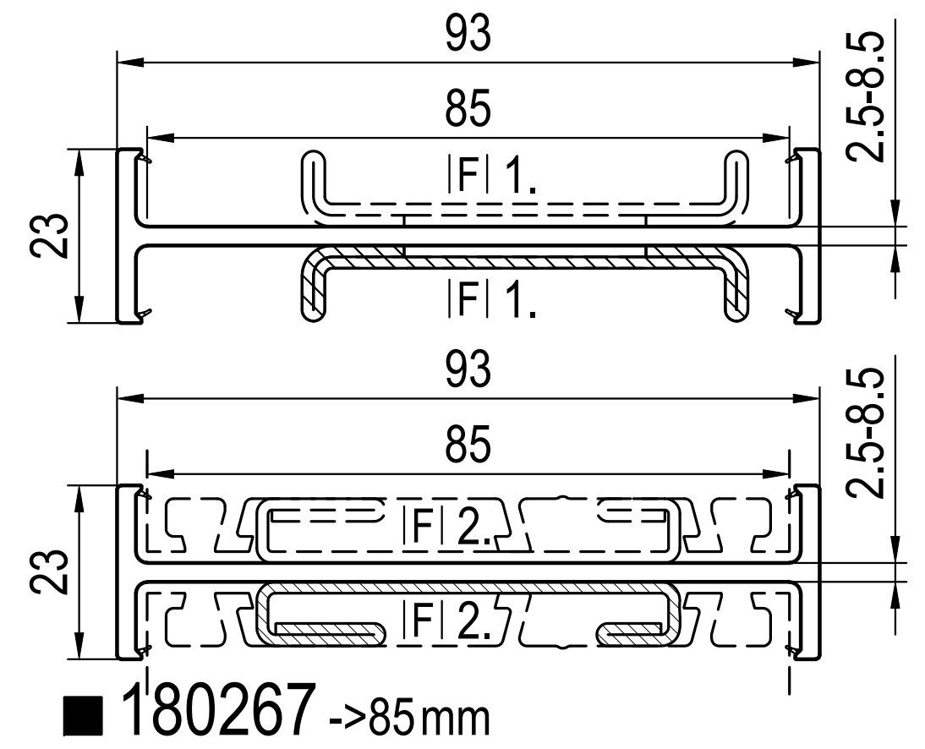
■ 120219 ->60/70/85mm
|F| 1x 229019 s=2.0mm, Ix=43.3cm⁴, punched out
2x 229019 s=2.0mm, Ix=86.6cm⁴, punched out
|H| 622019, 642025, 645050



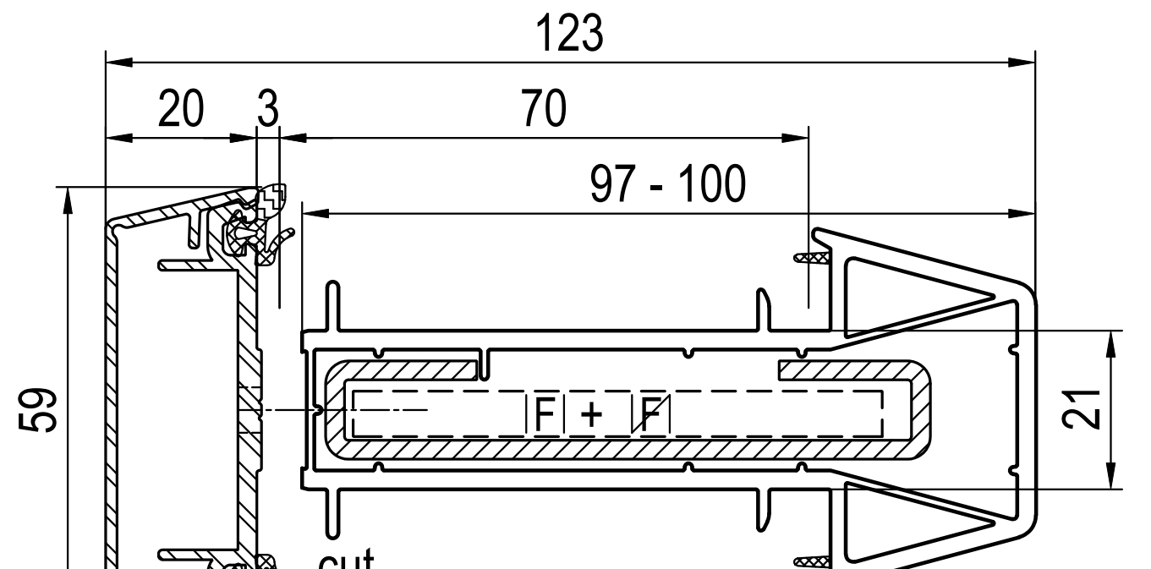
■ 140267 ->70mm
|F| 1x 209900 s=1.5mm, Ix=7.3cm⁴
2x 209900 s=1.5mm, Ix=14.6cm⁴
|H| 682331



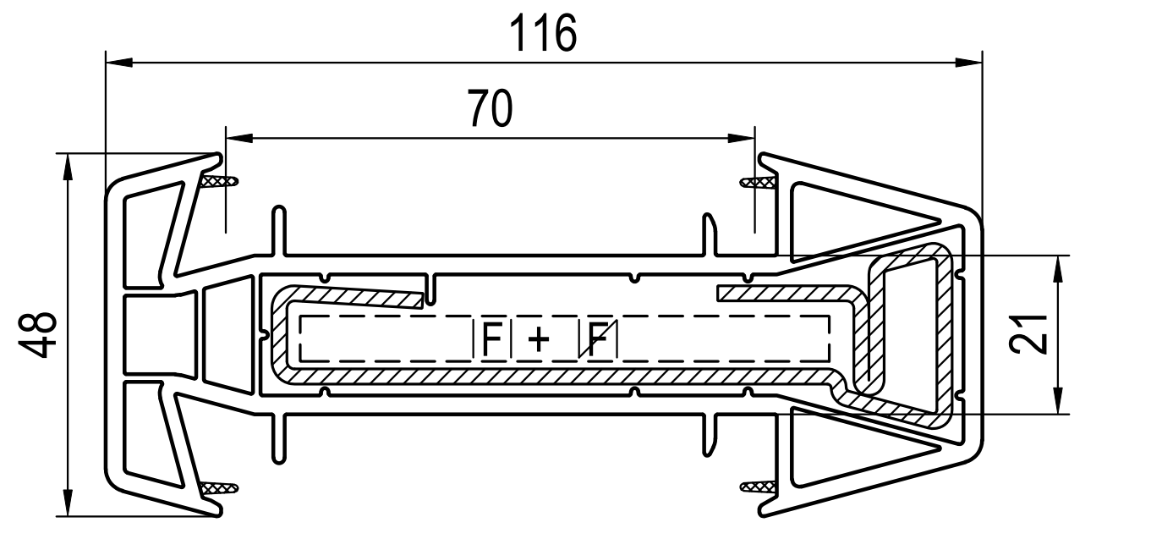
■ 120218 ->60mm ⓘ T-01
|F| 229018 s=2.5mm, Ix=24.8cm⁴
|F| 229010 s=3.0mm, Ix=9.9cm⁴
|F| steel 70mm s=6.0mm, Ix=17.1cm⁴
|H| 622338, 622354, 682332, 682335



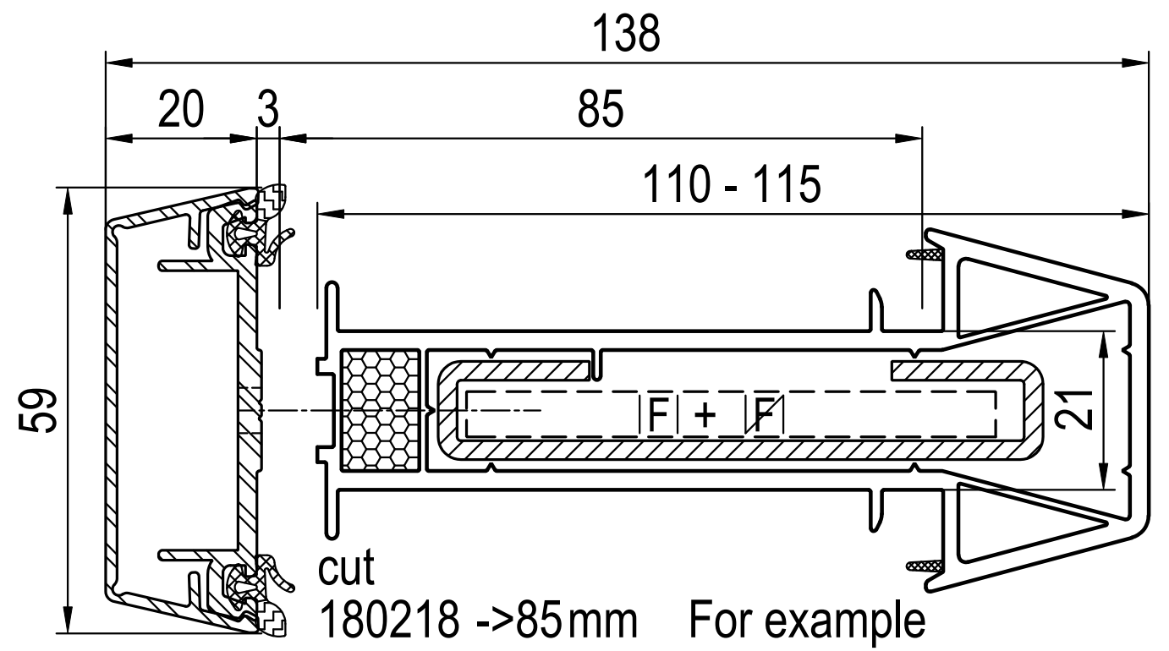
■ 180267 ->85mm
|F| 1. 1x 209900 s=1.5mm, Ix=7.3cm⁴
1. 2x 209900 s=1.5mm, Ix=14.6cm⁴
2. 1x 289018 s=1.5mm, Ix=6.2cm⁴
2. 2x 289018 s=1.5mm, Ix=12.4cm⁴
|H| 682331



cut
140218 ->70mm For example
+ |S| 289210 + |S| 289211 + |X| 459922

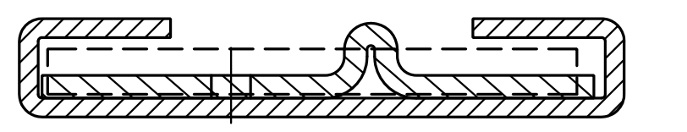


■ 140218 ->70mm ⓘ T-01
|F| 229018 s=2.5mm, Ix=24.8cm⁴
|F| 289218 s=2.0mm, Ix=37.0cm⁴
|F| 229010 s=3.0mm, Ix=9.9cm⁴
|F| steel 70mm s=6.0mm, Ix=17.1cm⁴
|H| 622338, 622354, 682332, 682335

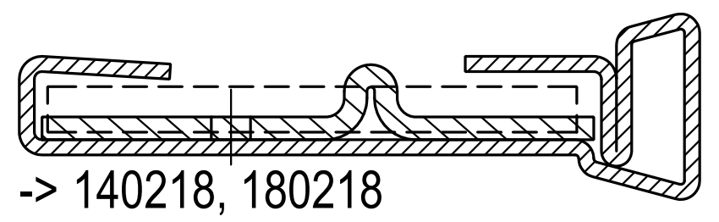


cut
180218 ->85mm For example
+ |S| 289210 + |S| 289211 + |X| 459922

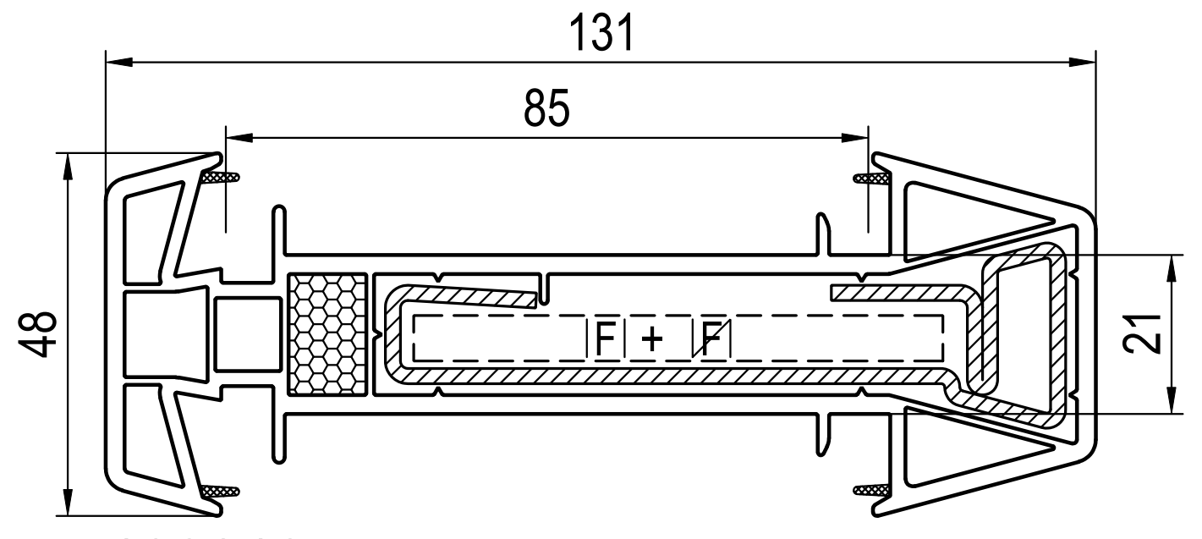
ⓘ T-01 Ix [cm⁴]



-> 120218, 140218, 180218
|F| 229018 = 24.8cm⁴
|F| 229018 + |F| 229010 = 34.7cm⁴
|F| 229018 + |F| steel 70x6 = 41.9cm⁴

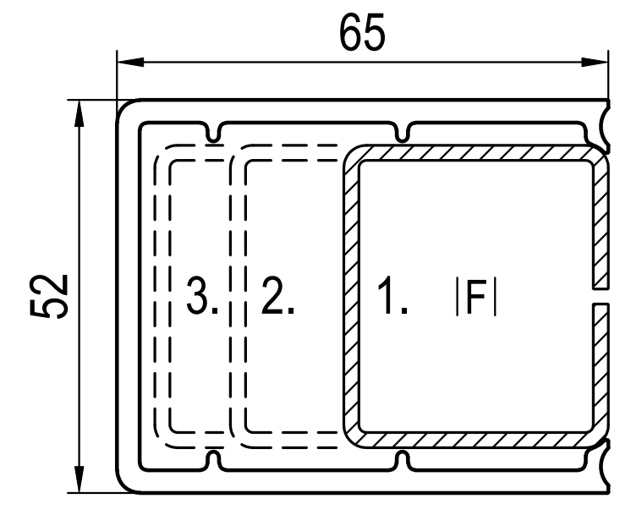


-> 140218, 180218
|F| 289218 = 37.0cm⁴
|F| 289218 + |F| 229010 = 46.9cm⁴
|F| 289218 + |F| steel 70x6 = 54.1cm⁴



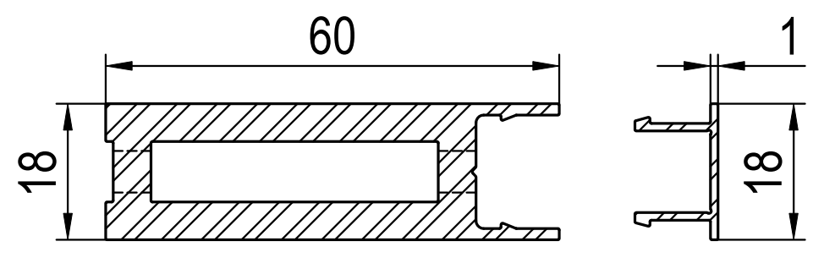
■ 180218 ->85mm ⓘ T-01
|F| 229018 s=2.5mm, Ix=24.8cm⁴
|F| 289218 s=2.0mm, Ix=37.0cm⁴
|F| 229010 s=3.0mm, Ix=9.9cm⁴
|F| steel 70mm s=6.0mm, Ix=17.1cm⁴
|H| 622338, 622354, 682332, 682335

Structural profiles

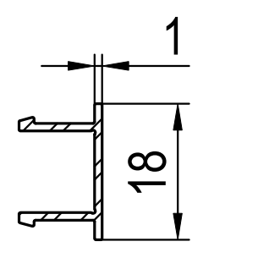


■ 120109
|F| 1. 229114 s=1.5mm, Ix=4.0cm⁴
1. 229115 s=2.0mm, Ix=5.0cm⁴
2. 229125 s=2.0mm, Ix=12.1cm⁴
2. 229126 s=3.0mm, Ix=16.8cm⁴
3. 259926 s=2.0mm, Ix=18.7cm⁴
|H| 622104 -> |F| 229125, 259926

|S| -> Structural profiles



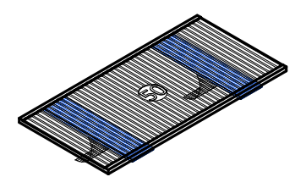
270044 wh +
279044 aluminium +
|S| 270045, 279045
SL 123mm
AU 180mm
GU 272mm
Ø5.5, a=250mm pierced hole
Ix/Iy=5.5/0.8cm⁴ steel



270045 wh
279045 aluminium
|S| 270044, 279044
SL 22mm
AU 80mm
~16.5/2.5cm⁴ aluminium

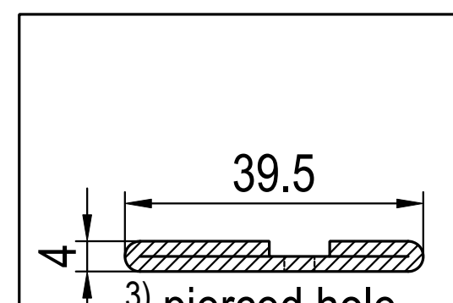
Accessories

|A| Spacer

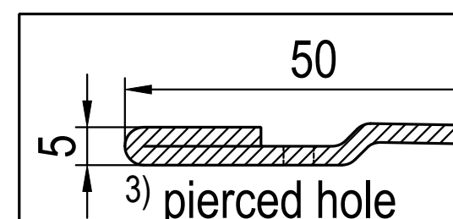


640302 2x50x100mm
-> Couplings

|F| Reinforcements s Ix Iy
...

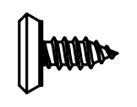


-> Sash
Ⓜ IDEAL 2000+8,
IDEAL 4000,
IDEAL 5000,
Ⓜ IDEAL 7000,
Ⓜ IDEAL 8000
³⁾ pierced hole
|F| 259023 ³⁾ 2.0mm 1.9 0.02 2.4m
...



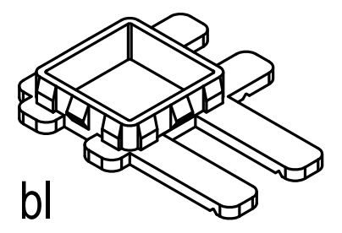
-> Sash
IDEAL 7000,
IDEAL 8000
³⁾ pierced hole
|F| 289027 ³⁾ 2.5mm 3.5 0.04 2.4m
...
see plan: Reinforcements

|G| Nipple screw / Clip

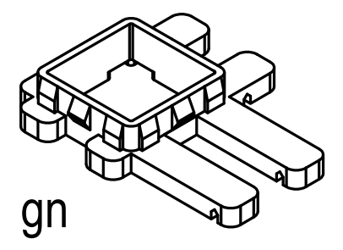


654930
-> aluminium
-> |P| ... e.g. 249448

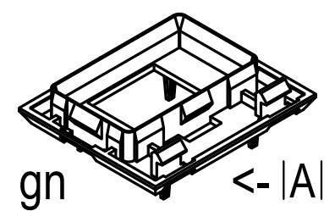
|H| Installation / mounting anchor



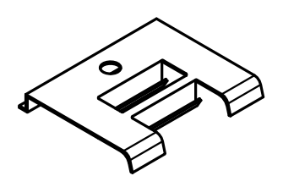
bl
642025 3mm
General
-> Couplings



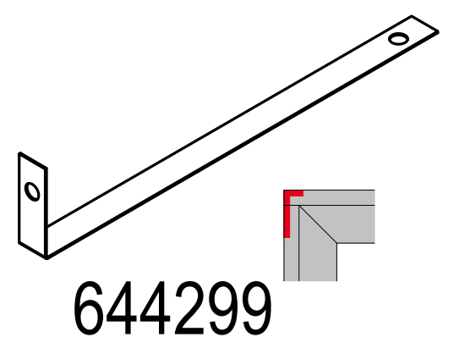
gn
645050 5mm
General
-> Couplings



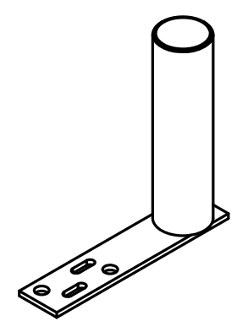
gn
685058
-> 050x04
-> 080x04, 180x04
* see plan:
1/4



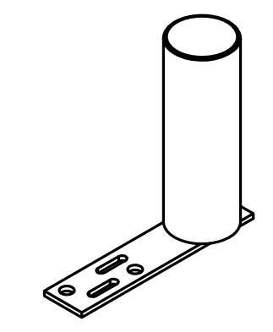
680200
->85mm +
120221, 120223,
120242, 140209,
140200



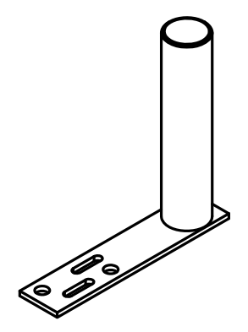
644299
|X| 742299,
782299
-> Extension profile



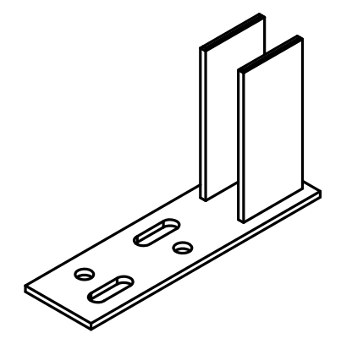
622140
|F| 229140
-> 120241



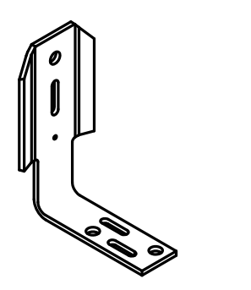
622333
|F| 249244
-> 140244



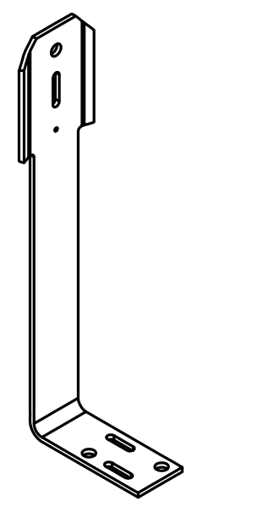
622041
|F| 229040
-> 120275,
140248



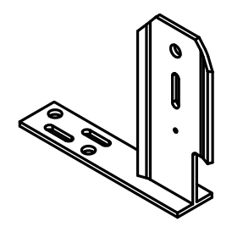
622104
|F| 229125,
259926
-> 120109



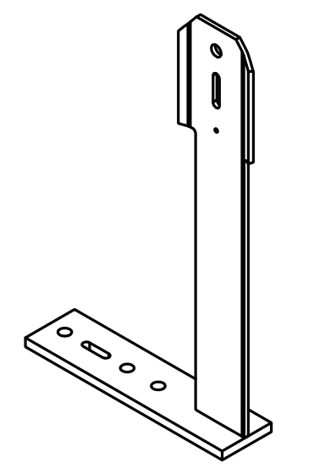
622338
|F| 229018,
289218
-> 120218,
140218,
180218



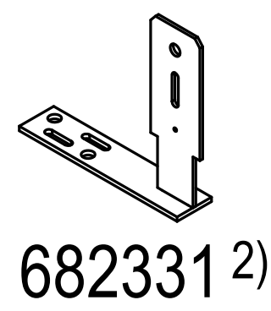
622354 1)
|F| 229018,
289218
-> 120218,
140218,
180218



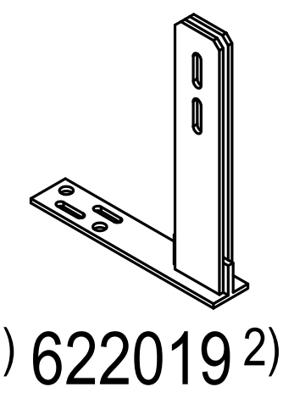
682332
|F| 229018,
289218
-> 120218,
140218,
180218



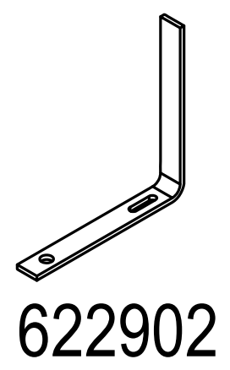
682335 1)
|F| 229018,
289218
-> 120218,
140218,
180218



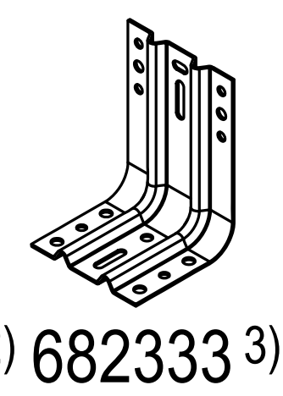
682331 2)
|F| 209900,
289018
-> 120224,
140267,
180267



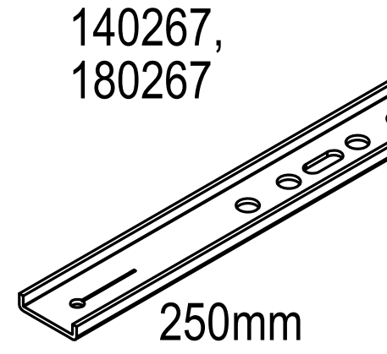
622019 2)
|F| 229019
-> 120219



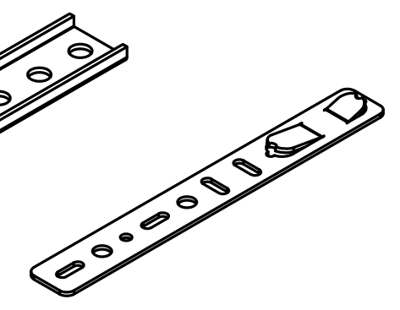
622902 2)
|F| 249242
-> 140249



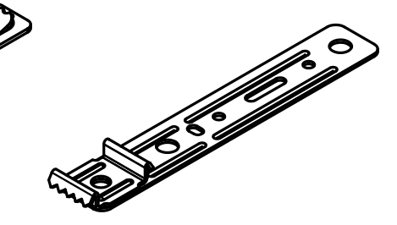
682333 3)



640331
protrusion
30mm ->100kg
50mm ->60kg
70mm ->30kg



680414
-> 080x04,
180x04



620410
-> General

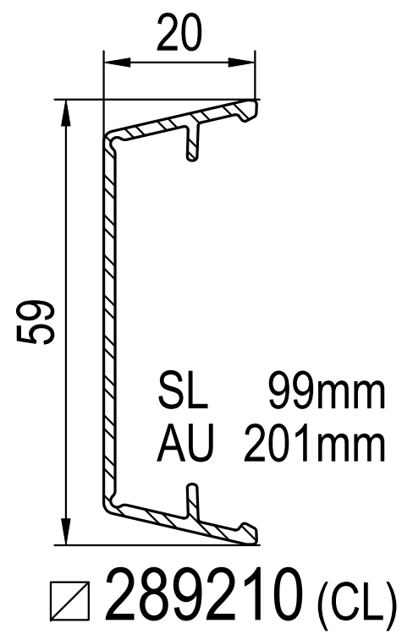
1) General e.g. -> Roller shutter box
2) General e.g. -> Couplings
3) General e.g. -> Extension profile

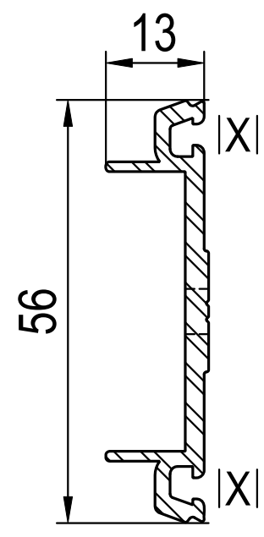
|P| **aluskin** Aluminium shells

|P| -> Extension profile
see
Extension profile

|P| -> Couplings
see
Couplings

|S| Aluminium profiles





Ø6.0, a=400mm
pierced hole

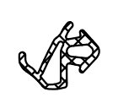
SL 102mm
AU 181mm

⧄ 289210 (CL) + ⧄ 289211 (CL)
|S| 289211 |S| 289210
|X| 459922
-> e.g. 140218, 180218

|S| -> Structural profiles
see
Structural profiles

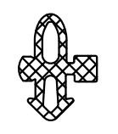
|X| Gaskets

449340 bl
447340 pw
Standard
-> 140243

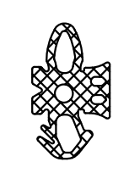


TPE
449042 bl
447042 pw
-> 140243

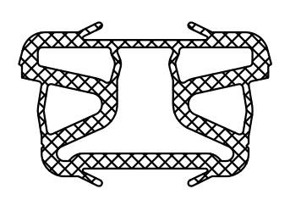
459922 bl
- pw
|S| 289211



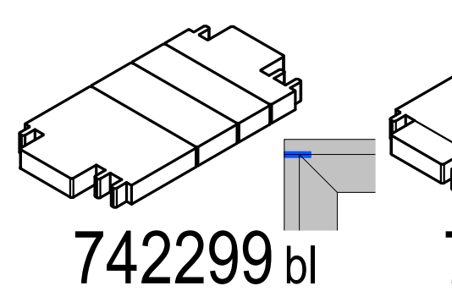
3mm
449140 bl
447140 pw
= Couplings



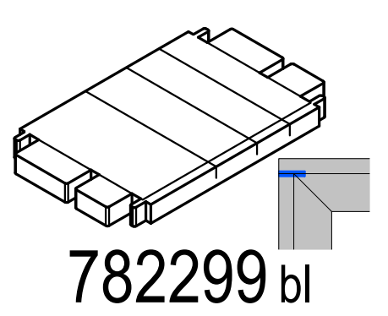
6mm
449141 bl
447141 pw
= Couplings



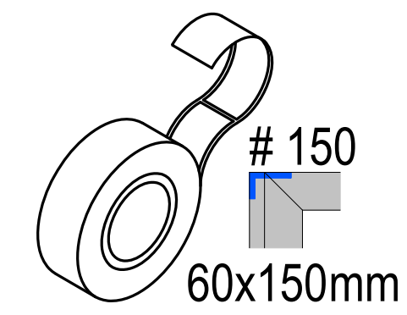
459905 bl
-> 120224



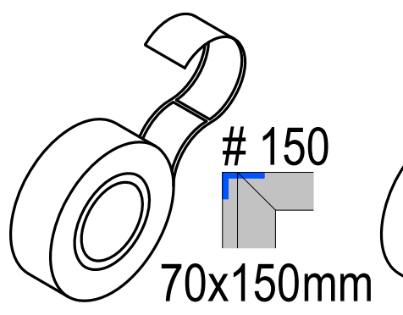
742299 bl
->70mm
-> Extension profile
|H| 644299



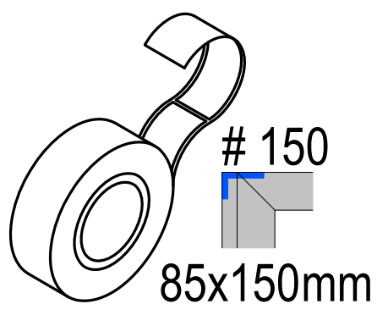
782299 bl
->85mm
-> Extension profile
|H| 644299



690060 l~24m
->60mm
-> Extension profile



690070 l=24m
->70mm
-> Extension profile



690085 l=24m
->85mm
-> Extension profile

⧄ not laminated
■ laminated
▚ **foam inside** -> ⧄

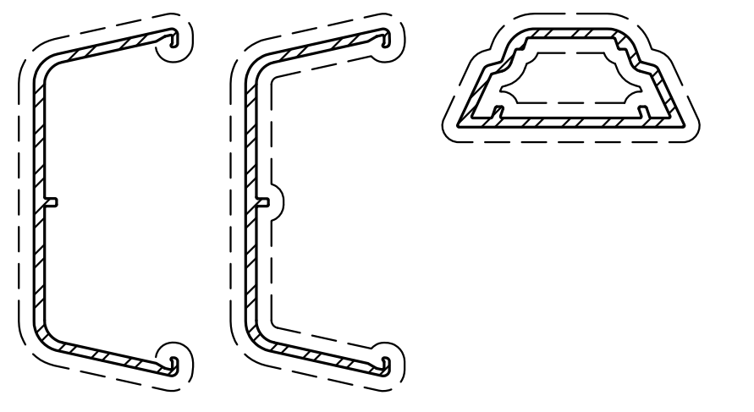
-> for

gn	green
bl	black
pw	papyrus-white
wh	white

Construction depth

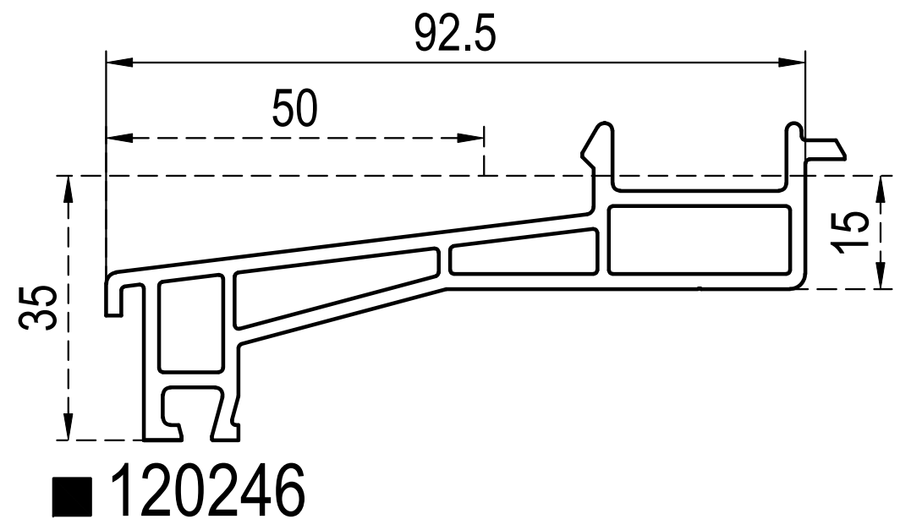
->60mm	->IDEAL 2000
->70mm	->IDEAL 4000 / 5000
->85mm	->IDEAL 7000 / 8000
...	->IDEAL 2000 - 8000

SL	visible length
AU	exterior perimeter
GU	overall perimeter

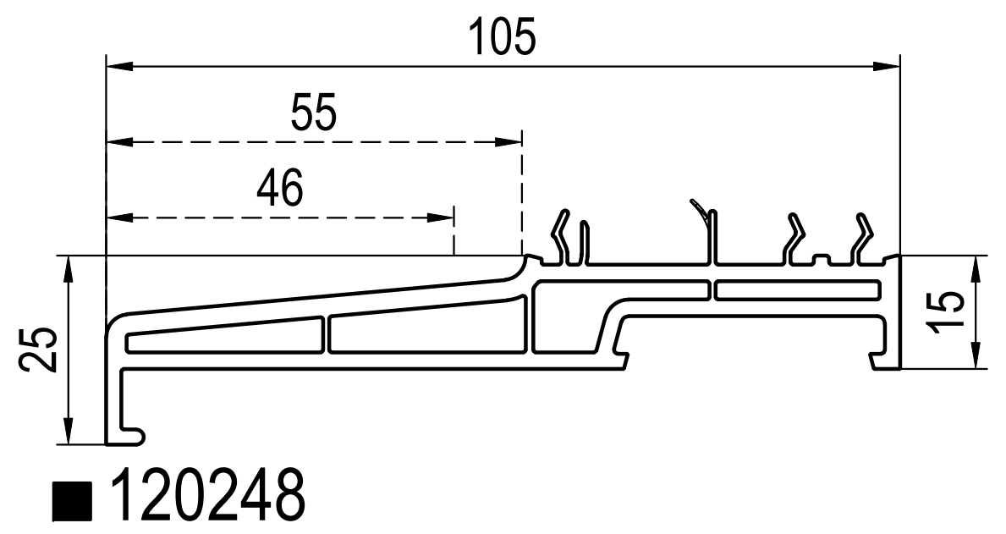


Exterior window sills
Interior window sills
Frames

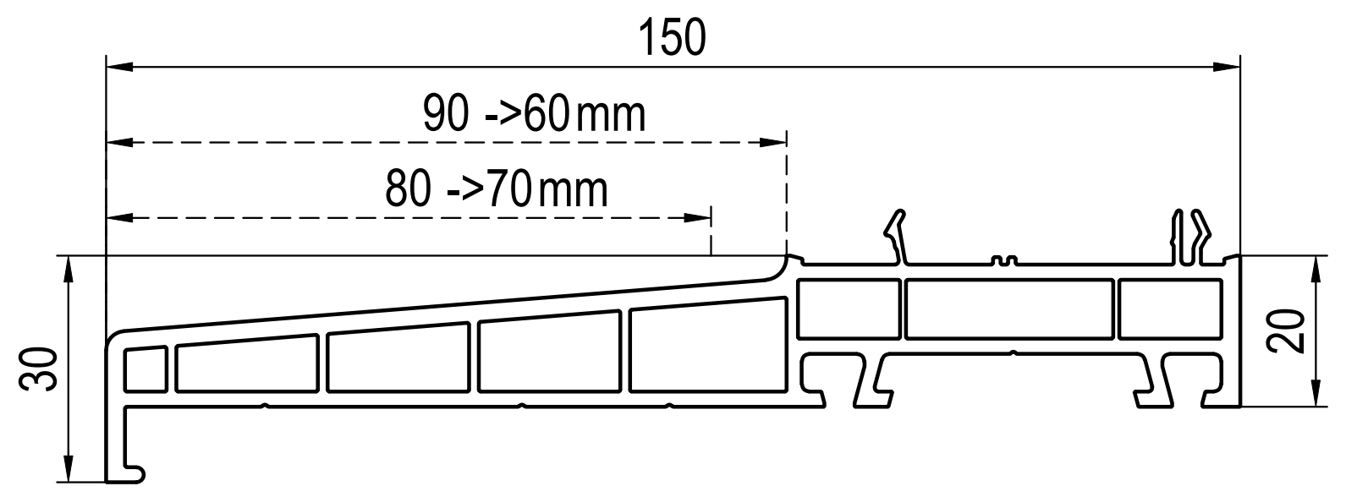
Exterior window sills



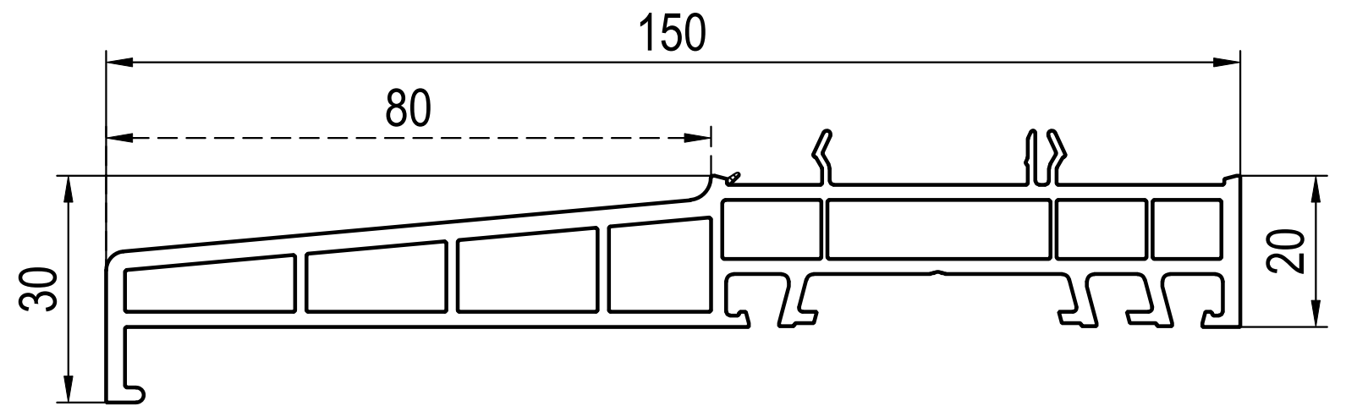
■ 120246
|C| 650921



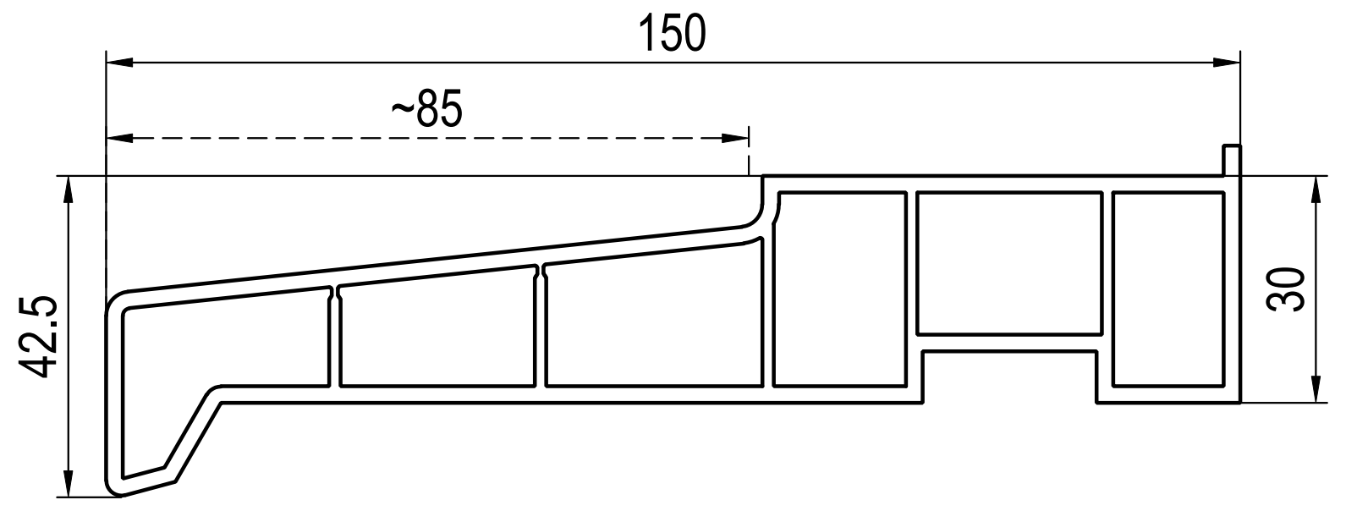
■ 120248
|C| 620249, 640238



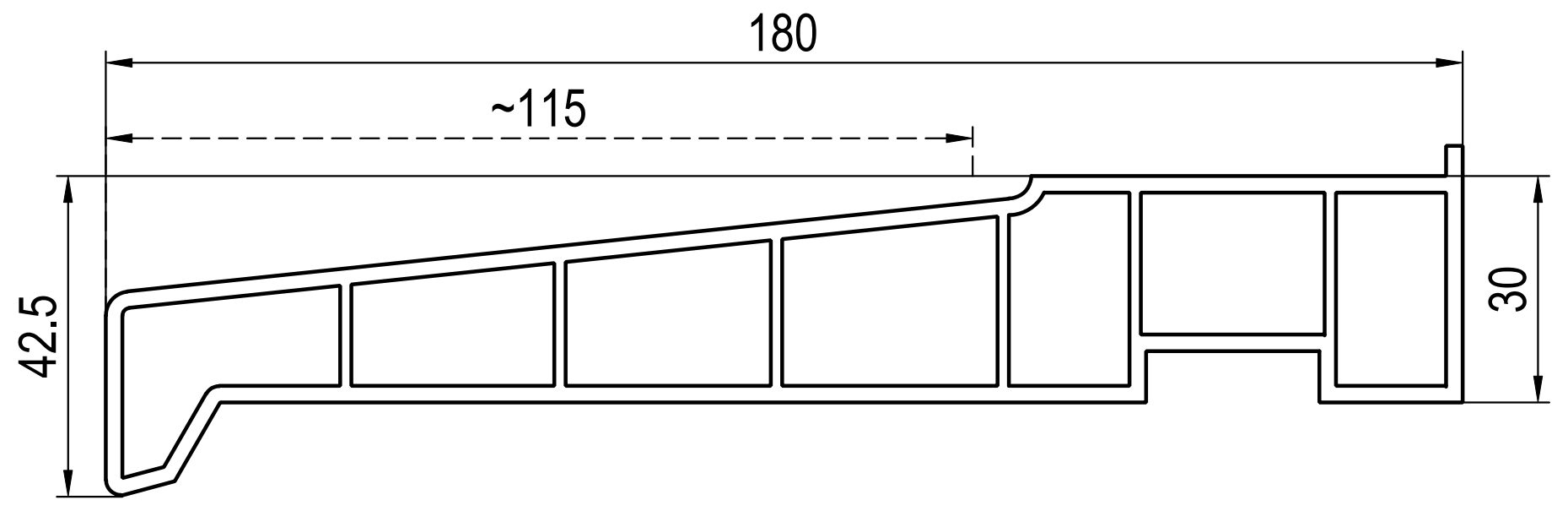
■ 120249
->60/70mm
|C| 640238
|P| 249449 ->70mm



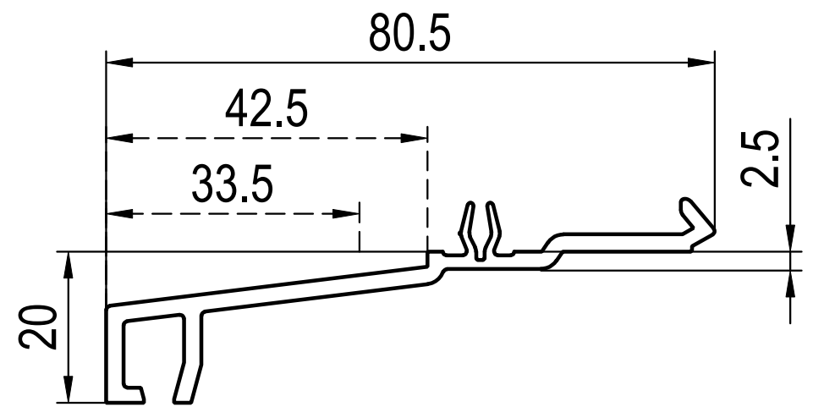
■ 140238
->70 mm
|C| 640238



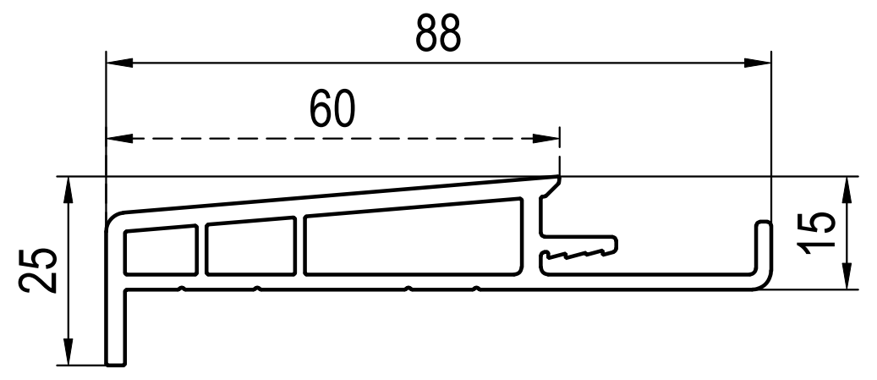
▨ 100220
|C| 600220



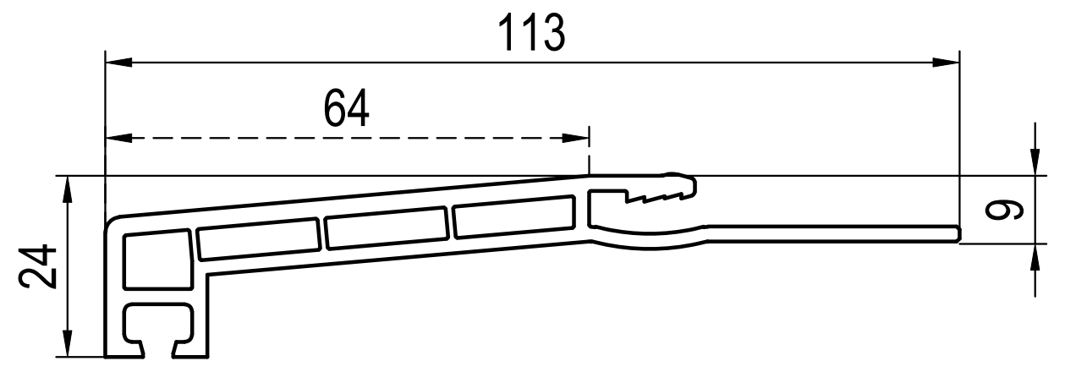
▨ 120108
|C| 650902



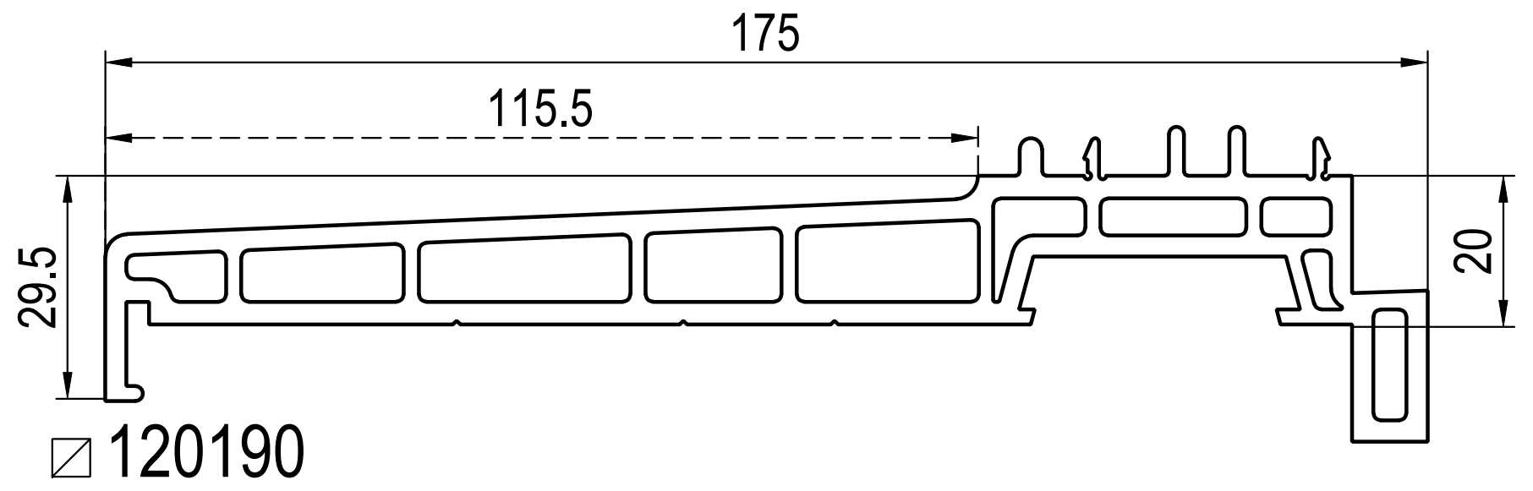
▨ 140229



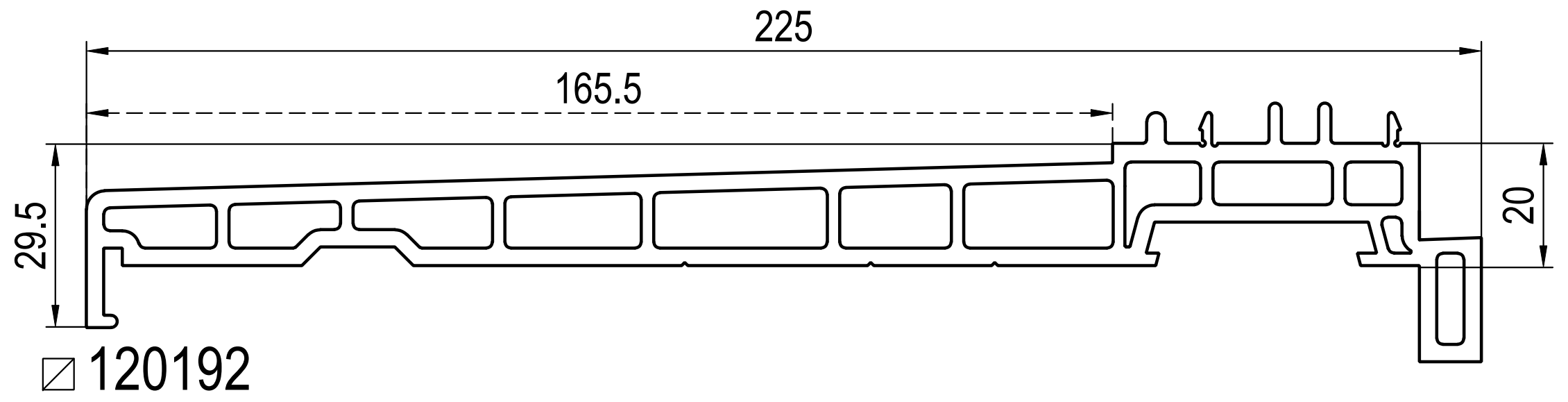
▨ 110200
-> 110x99, 120x59
|C| 640238



■ 140219
-> 120x39, 120x91, 140x17, 140x090000011, 150x110000011
|C| 640238

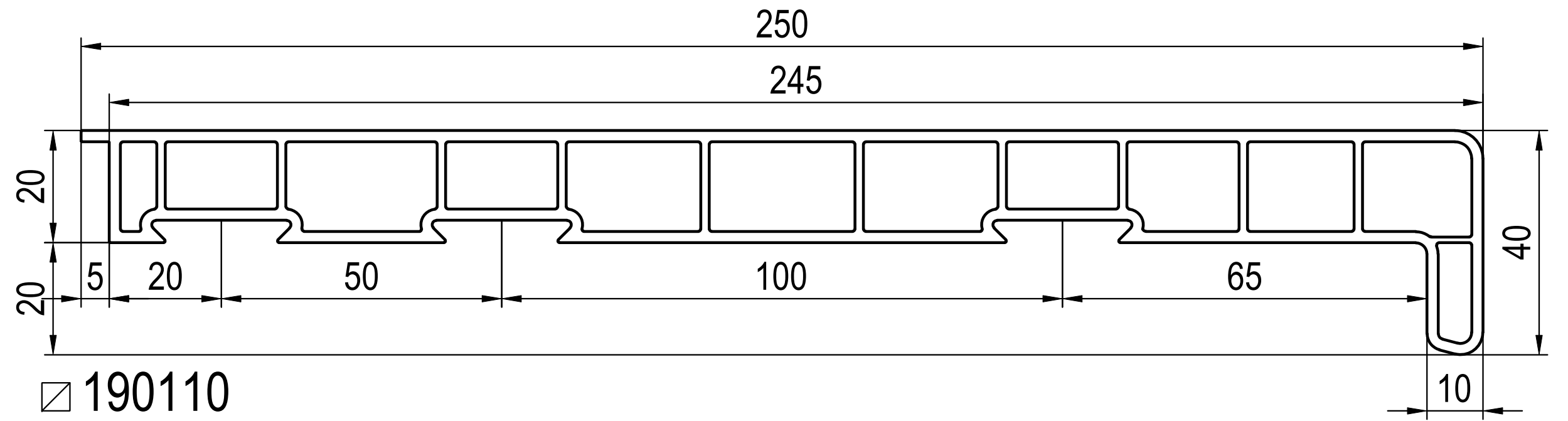


▨ 120190

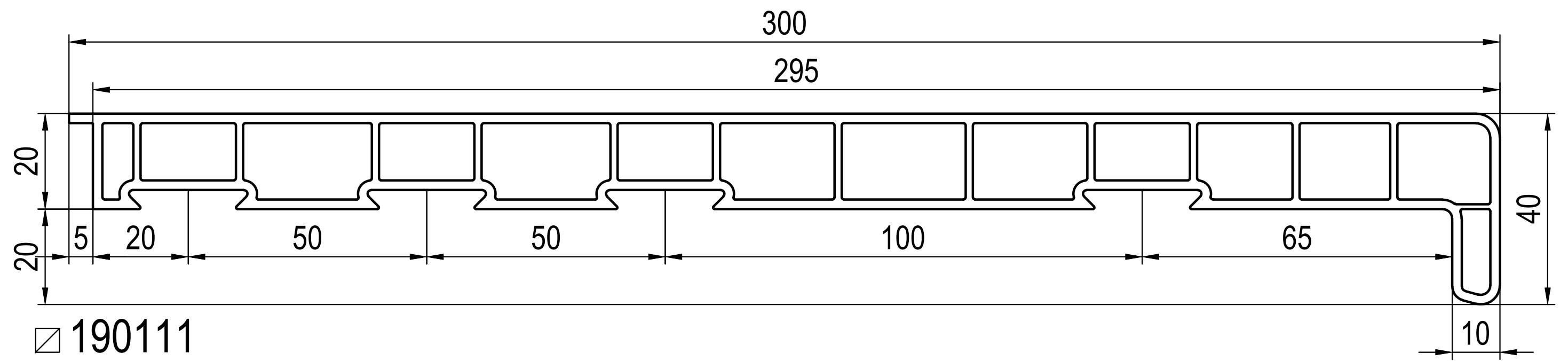


▨ 120192

Interior window sills

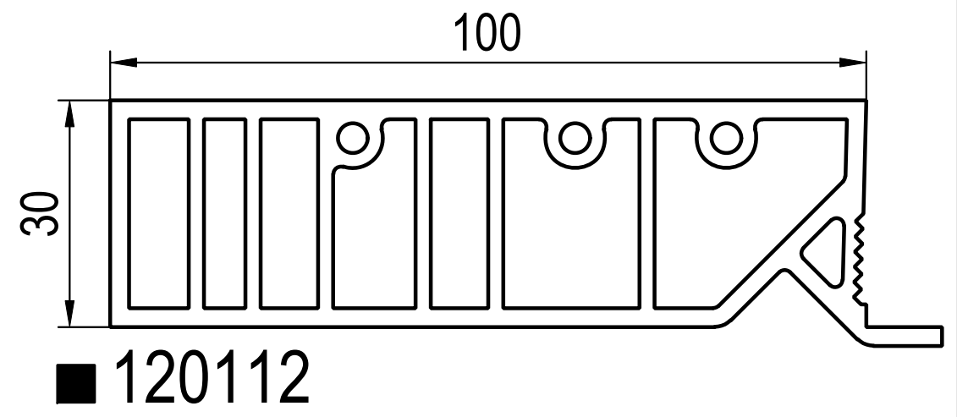


▨ 190110
|C| 610911 cut

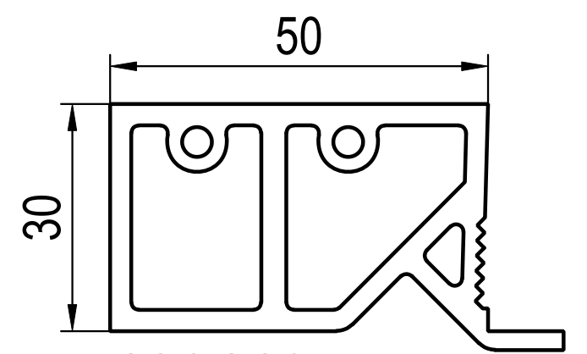


▨ 190111
|C| 610911

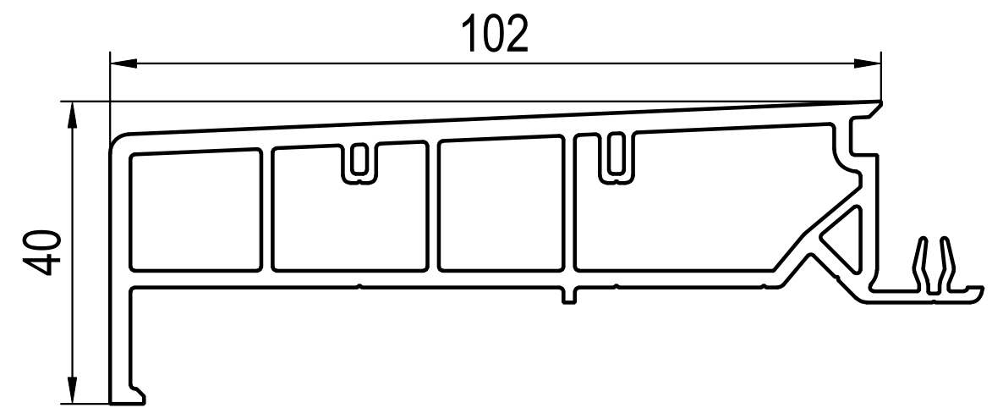
Frames



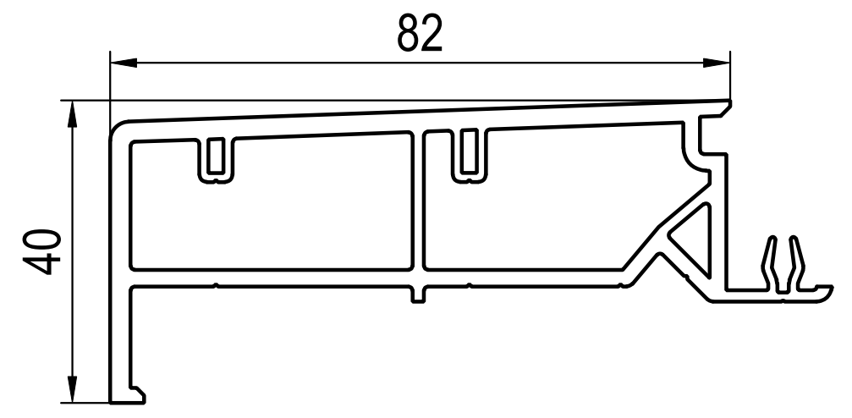
■ 120112



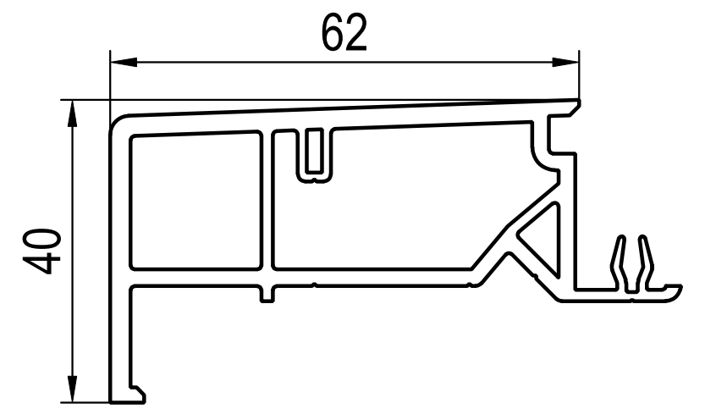
▨ 120113



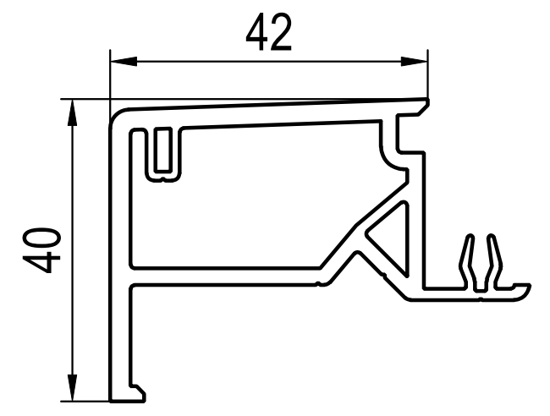
▨ 120196



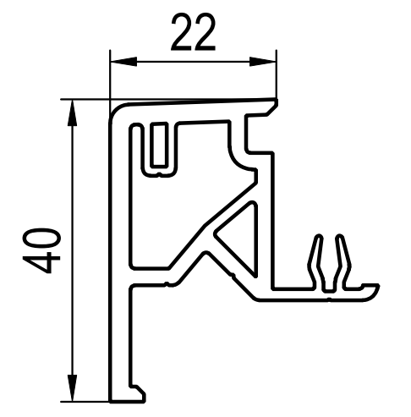
■ 120270



▨ 120195



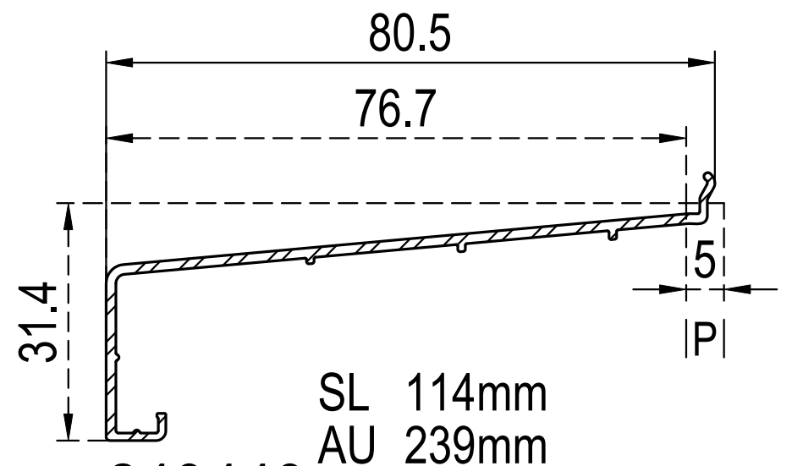
▨ 120194



▨ 120193

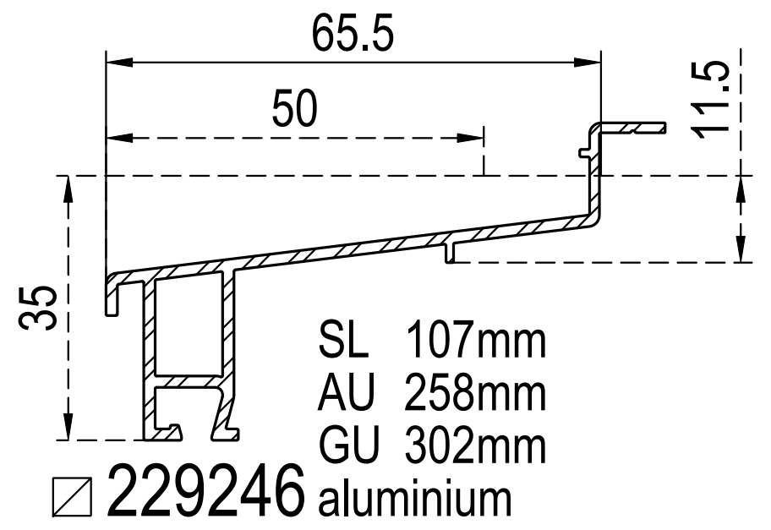
aluminium

|P| **aluskin** Aluminium shells



SL 114mm
AU 239mm
▨ 249449 aluminium
-> 120249 ->70mm

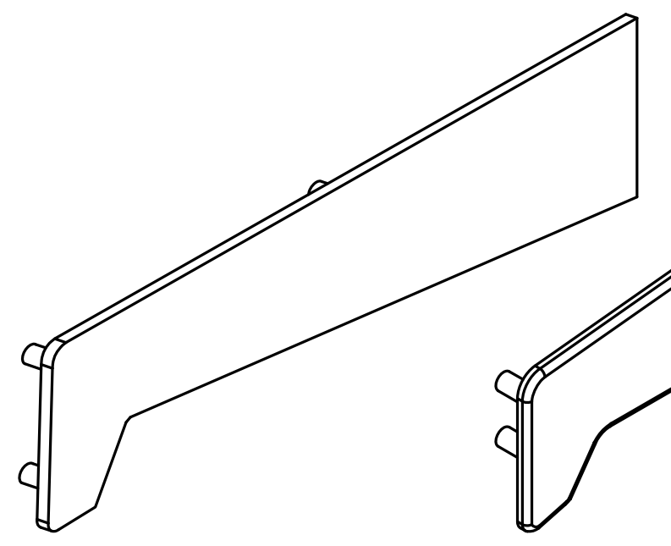
|S| Aluminium profiles



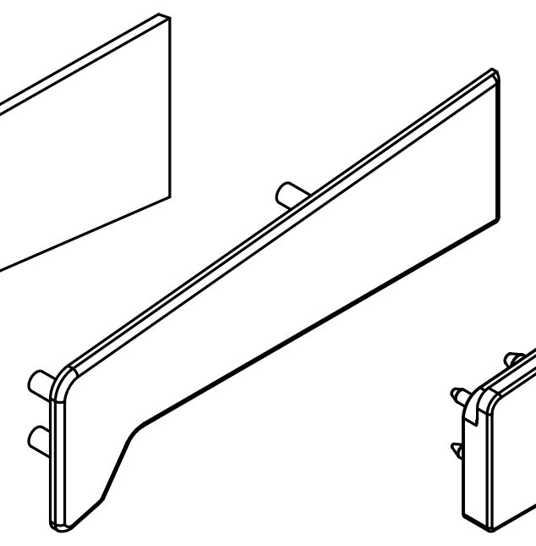
SL 107mm
AU 258mm
GU 302mm
▨ 229246 aluminium

Accessories

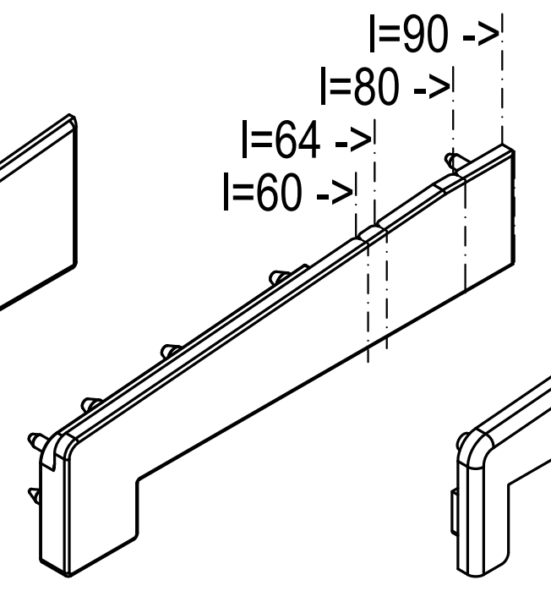
|C| End caps



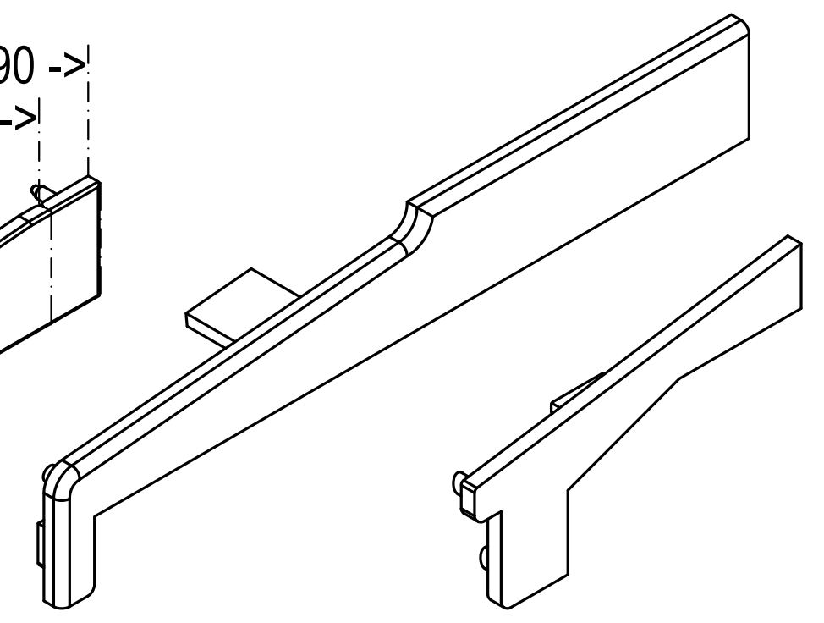
650902
-> 120108



600220
-> 100220



640238
-> 110200,
120248,
120249,
140219,
140238

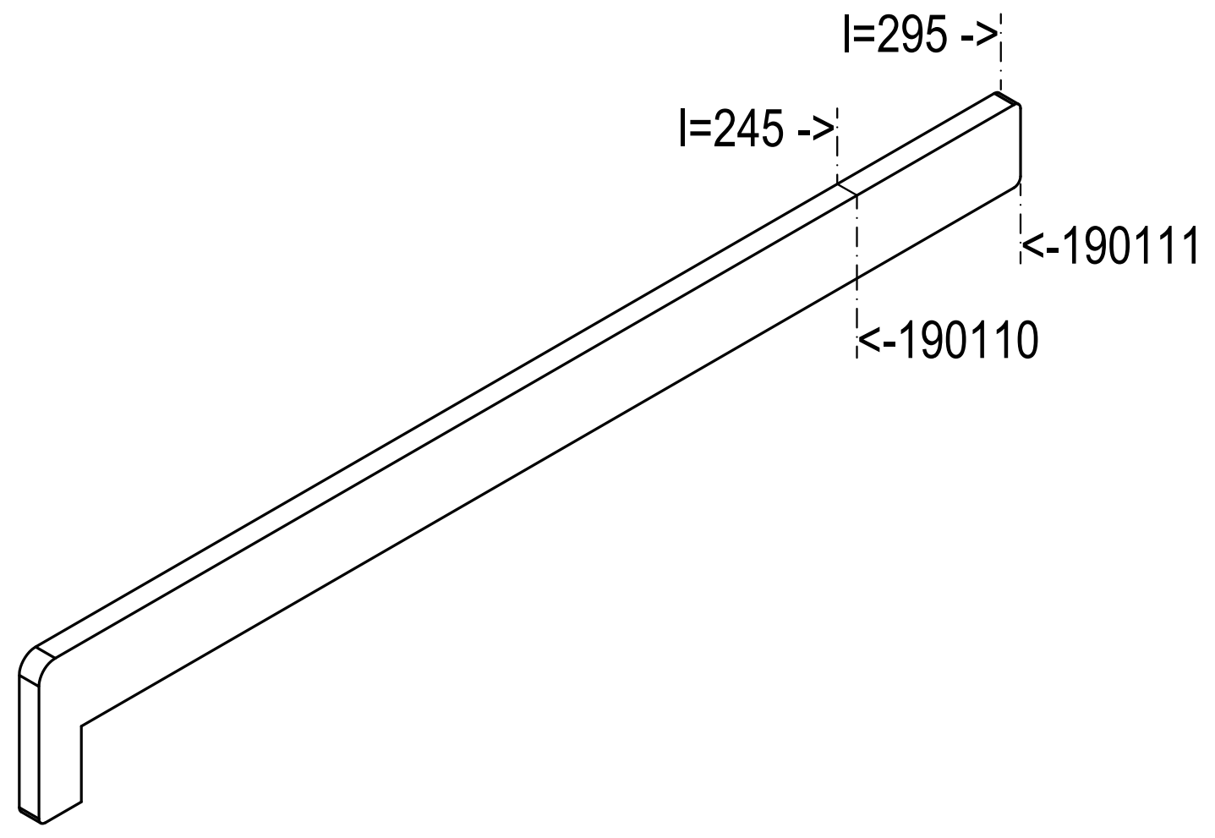


620249
-> 120248

650921
-> 120246

Accessories

|C| End caps



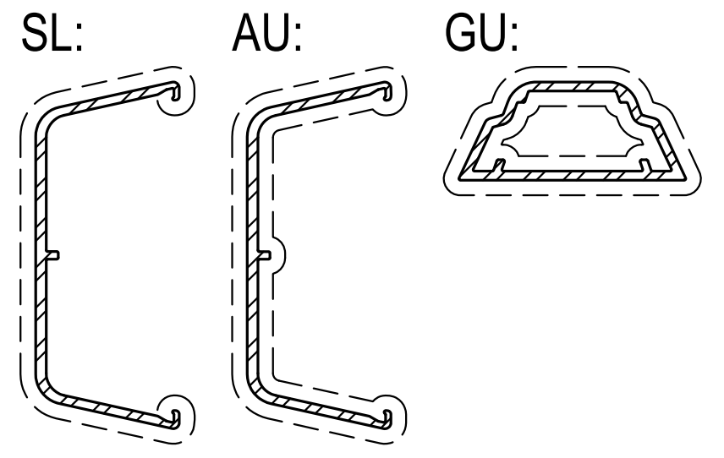
610911
-> 190110, 190111

▨ not laminated
■ laminated

-> for

Construction depth
->60mm ->IDEAL 2000
->70mm ->IDEAL 4000 / 5000
->85mm ->IDEAL 7000 / 8000
... ->IDEAL 2000 - 8000

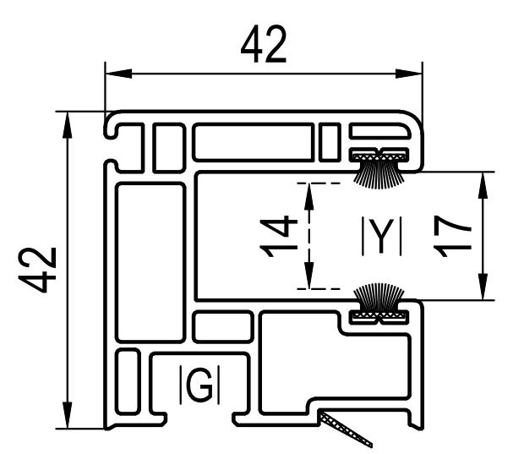
SL visible length
AU exterior perimeter
GU overall perimeter



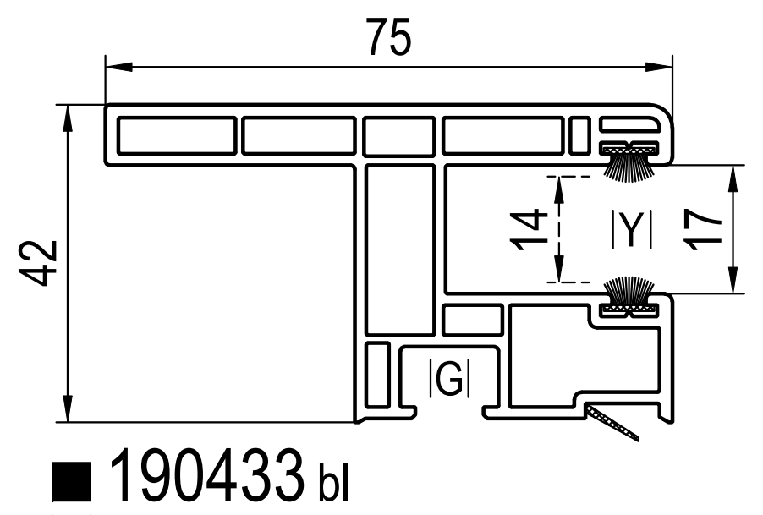
Roller shutter guides

-> max.-L

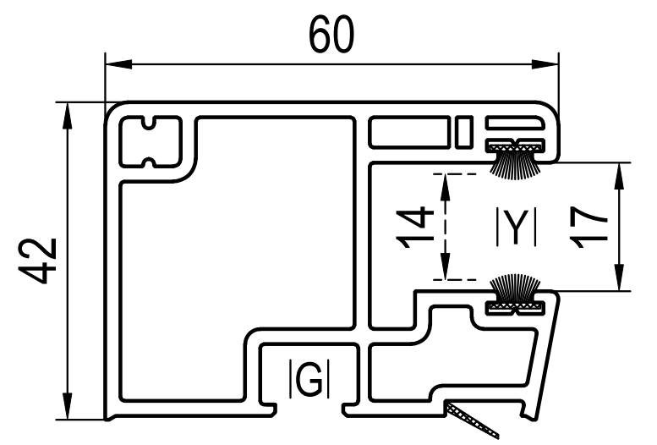
Roller shutter guides



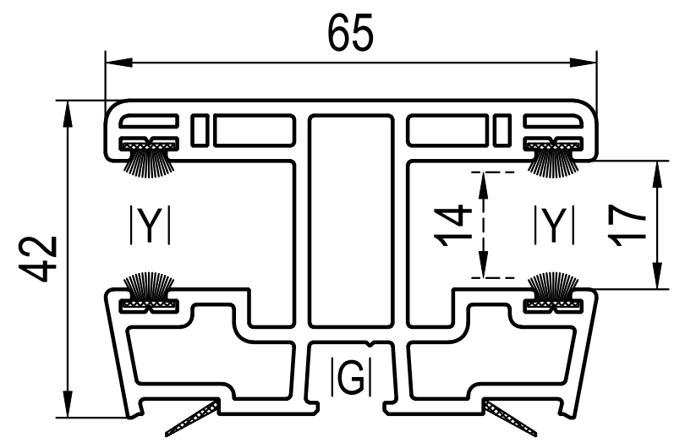
■ 120429 bl
|B| 620042, 620044
|C| 620032
|G| 652923
|Y| 459930 -> max.-L Standard
|Y| 459932 -> mini-L Option



■ 190433 bl
|B| 620042, 620044
|C| -
|G| 652923
|Y| 459930 -> max.-L Standard
|Y| 459932 -> mini-L Option



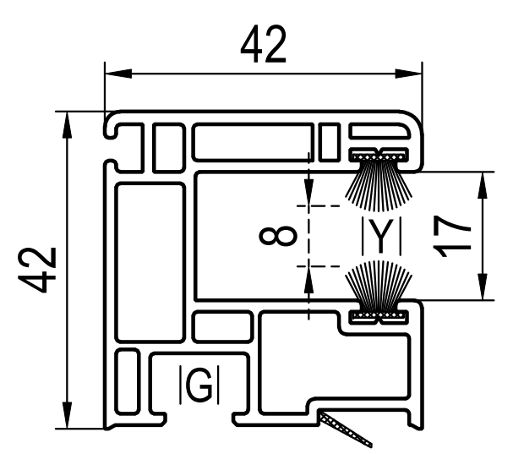
■ 190430 bl
|B| 620038
|C| 690030
|G| 652923
|Y| 459930 -> max.-L Standard
|Y| 459932 -> mini-L Option



■ 190435 bl
|B| 620038
|C| 690035
|G| 652923
|Y| 459930 -> max.-L Standard
|Y| 459932 -> mini-L Option

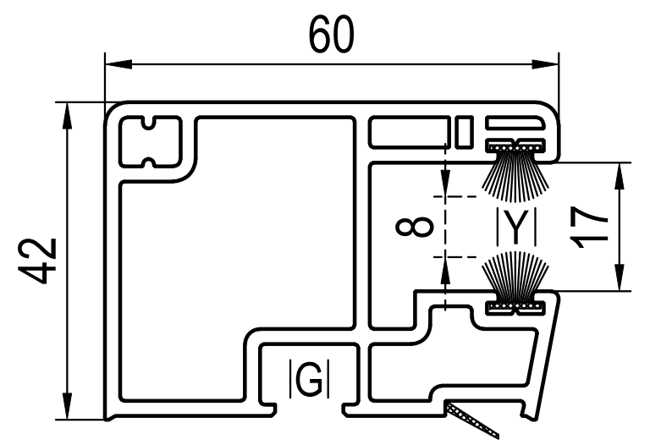
-> mini-L

Roller shutter guides

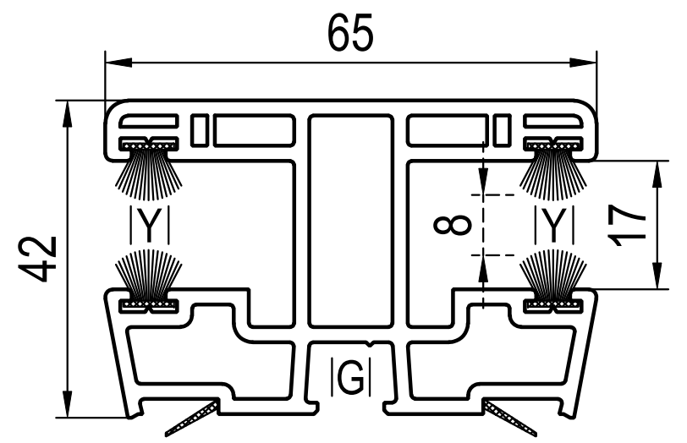


■ 120929 bl
|B| 620042, 620044
|C| 620032
|G| 652923
|Y| 459930 -> max.-L Option
|Y| 459932 -> mini-L Standard

see
190433
\+ Option



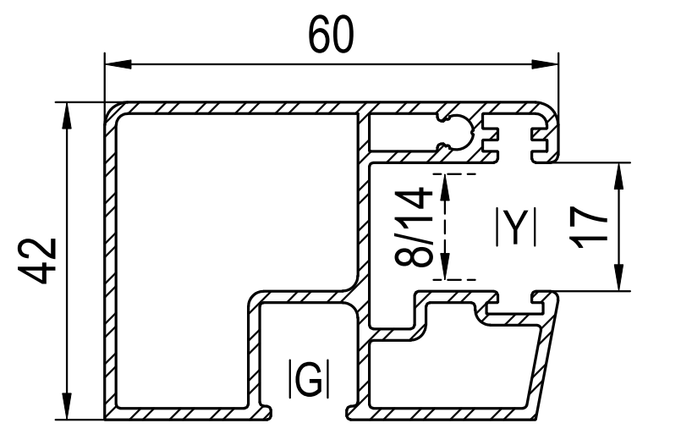
■ 190930 bl
|B| 620038
|C| 690030
|G| 652923
|Y| 459930 -> max.-L Option
|Y| 459932 -> mini-L Standard



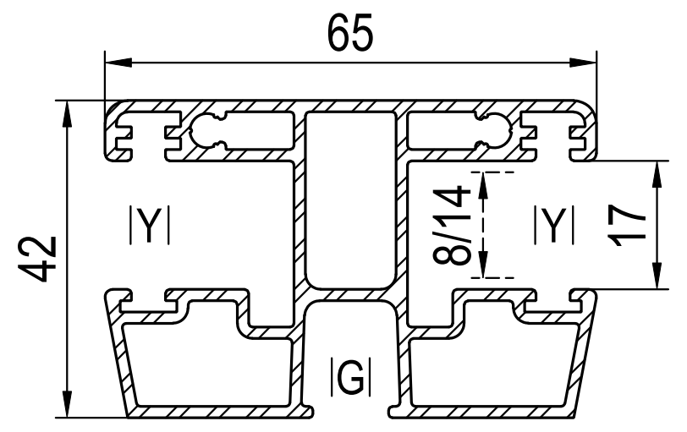
■ 190935 bl
|B| 620038
|C| 690035
|G| 652923
|Y| 459930 -> max.-L Option
|Y| 459932 -> mini-L Standard

aluminium

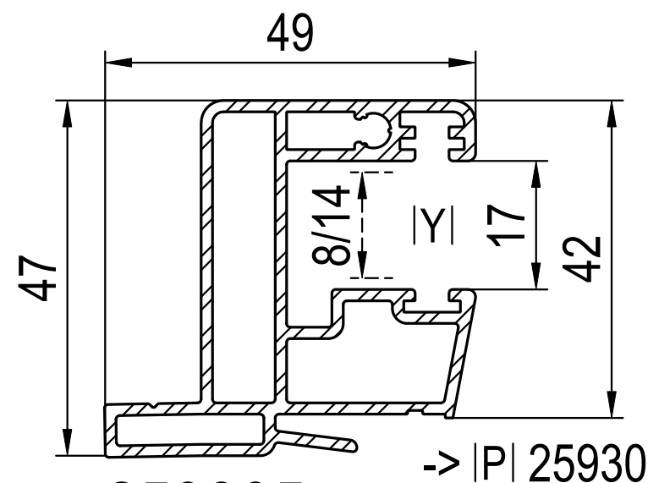
|R| Aluminium roller shutter guides
without brush seals



▨ 260406 SL 100mm
|B| 620038 AU 333mm
|C| - GU 579mm
|G| 659923
|Y| 459930 -> max.-L
|Y| 459932 -> mini-L



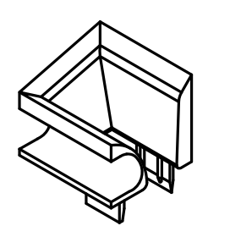
▨ 260407 SL 131mm
|B| 620038 AU 435mm
|C| - GU 715mm
|G| 659923
|Y| 459930 -> max.-L
|Y| 459932 -> mini-L



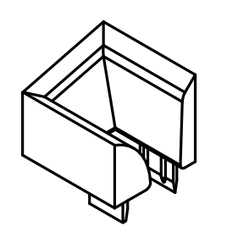
▨ 259305
-> |P| **aluskin**
-> |P| 259304
-> |P| 259404
-> |P| 289304
|B| 620038 SL 124mm
|C| - AU 306mm
|G| - GU 550mm
|Y| 459930 -> max.-L
|Y| 459932 -> mini-L

Accessories

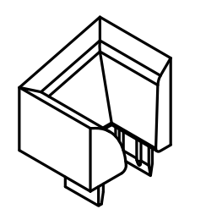
|B| Inlet funnel



620044
-> 120429, 120929,
190433
-> Roller shutter traverses
120230
|S| 257306

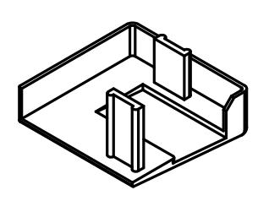


620042
-> 120429, 120929,
190433

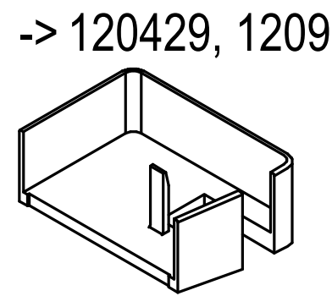


620038
-> 190430, 190930,
190435, 190935
|R| 259305,
260406, 260407

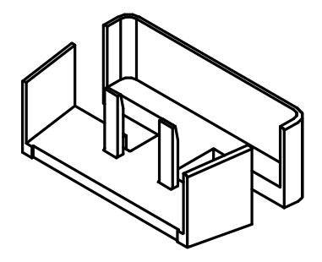
|C| End caps



620032
-> 120429, 120929

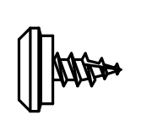


690030
-> 190430, 190930

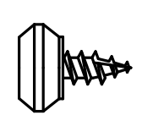


690035
-> 190435, 190935

|G| Nipple screw / Clip



652923
-> uPVC
-> 120429, 120929,
190430, 190930,
190433,
190435, 190935



659923
-> aluminium
|R| 260406,
260407

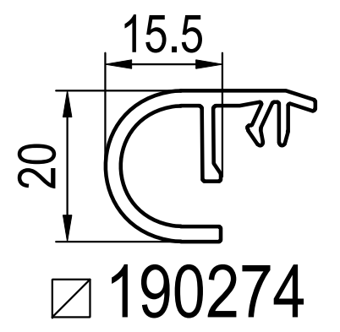
|Y| Brush seals

459930 bl
-> max.-L
-> 120429, 120929,
190430, 190930,
190433,
190435, 190935
|R| 259305,
260406, 260407

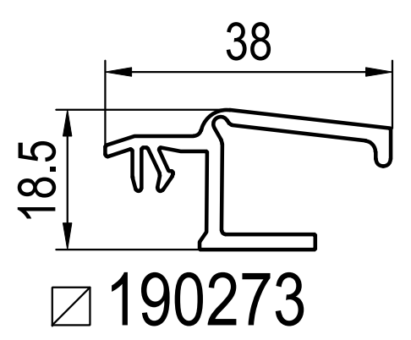
459932 bl
-> mini-L
-> 120429, 120929,
190430, 190930,
190433,
190435, 190935
|R| 259305,
260406, 260407

Roller shutter

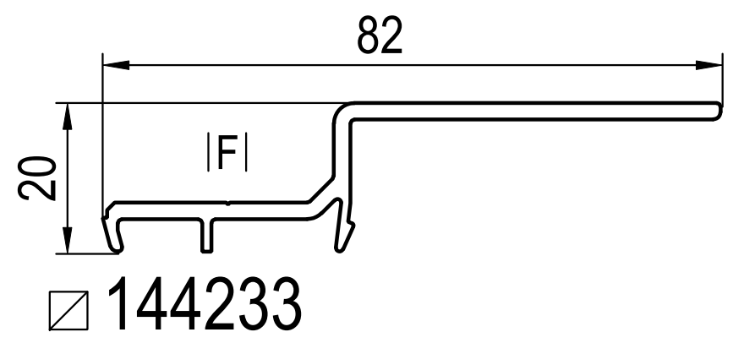
Roller shutter traverses



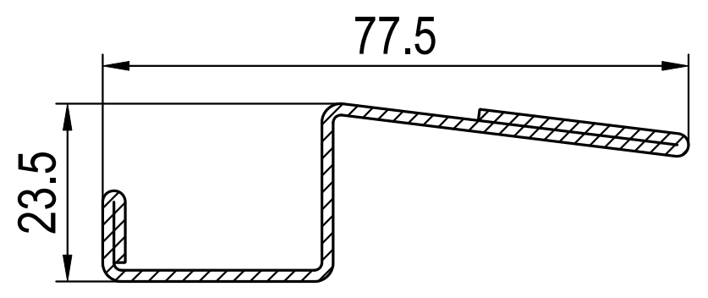
▨ 190274



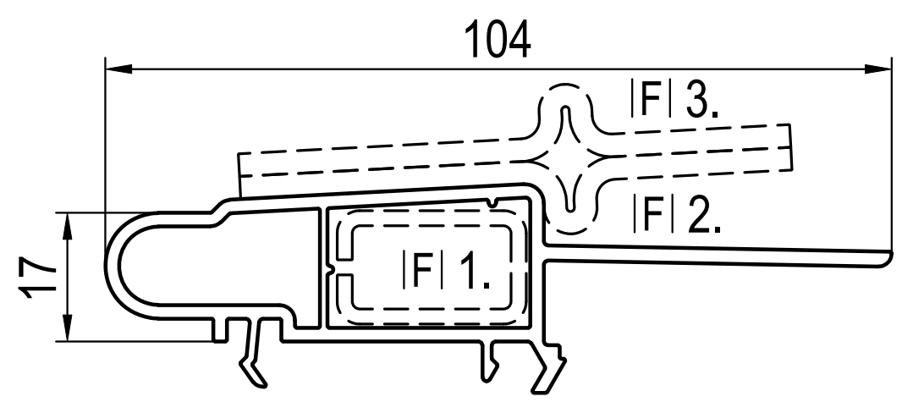
▨ 190273



▨ 144233
|F| 249234



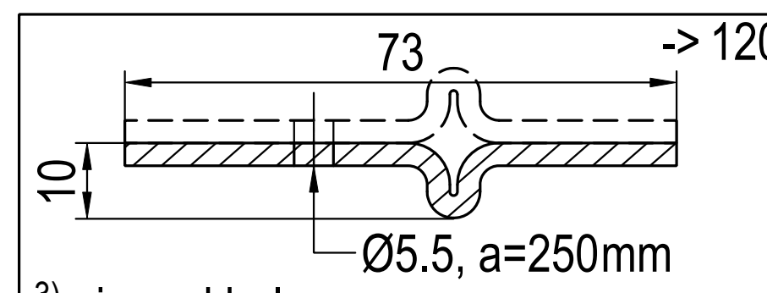
|F| 249234 s=1.5mm, lx=12.6cm[4]



▨ 120230
|F| 1. 229107 s=2.0mm, lx=1.0cm[4]
2. 229010 s=3.0mm, lx=9.9cm[4]
3. 2x 229010 s=3.0mm, lx=19.7cm[4]

Accessories

|F| Reinforcements	s	lx	ly	
...				

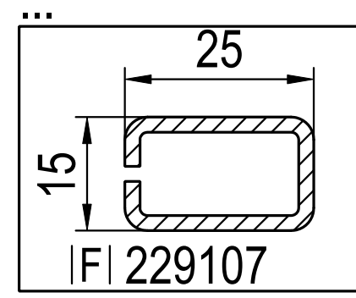


-> 120230

3) pierced hole

|F| 229010 3)	3.0mm	9.9	0.1	
|F| 229010 3)	2x 3.0mm	19.7	0.2	

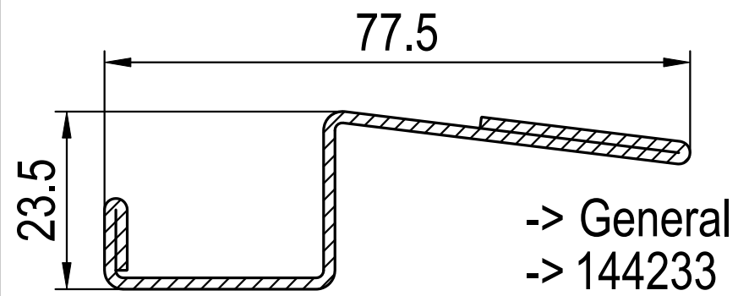
...



-> 100x73, 100x78,
120230, 150x65,
190298

|F| 229107	2.0mm	1.0	0.4	+90°

...

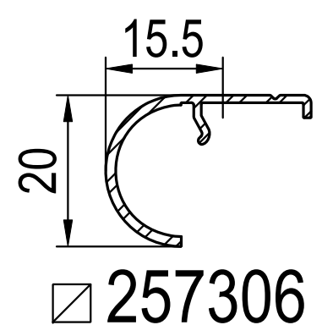


-> General
-> 144233

|F| 249234	1.5mm	12.6	1.5	

...
see plan: Reinforcements

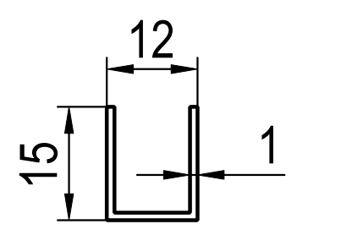
|S| Aluminium profiles



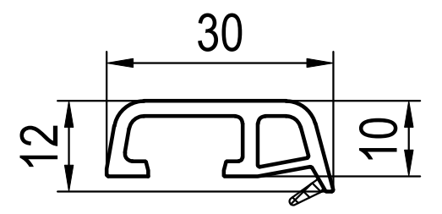
▨ 257306
-> |P| **aluskin**
SL - - - mm
AU 111mm

Renovation box

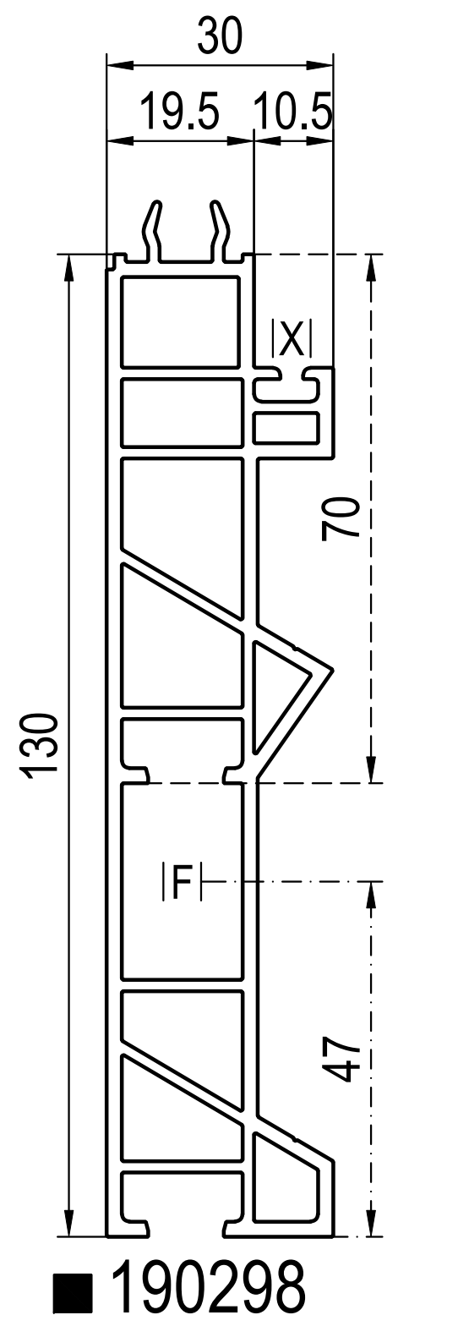
Renovation box



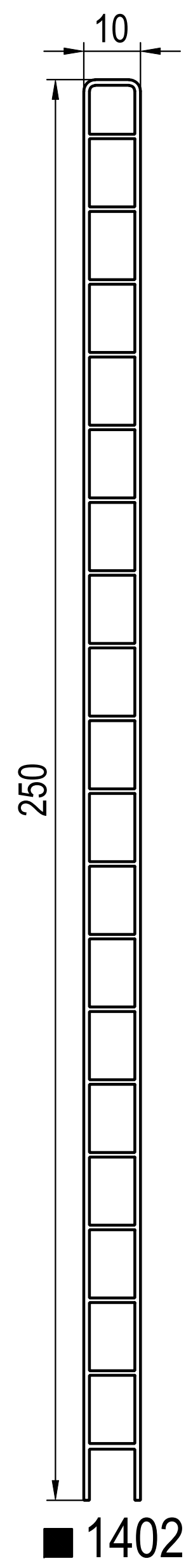
■ 140240
-> 140235



■ 190299
-> 190298



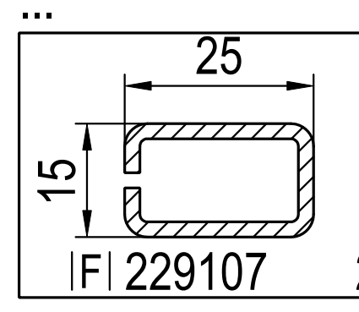
■ 190298
|F| 229107
|X| 429320



■ 140235

Accessories

|F| Reinforcements	s	lx	ly	
...				



-> 100x73, 100x78,
120230, 150x65,
190298

|F| 229107	2.0mm	1.0	0.4	+90°

...
see plan: Reinforcements

|X| Gaskets

429320 bl
-> 190298

▨ not laminated
■ laminated
▚ **foam inside** -> ▨

|P| **aluskin** Aluminium shells

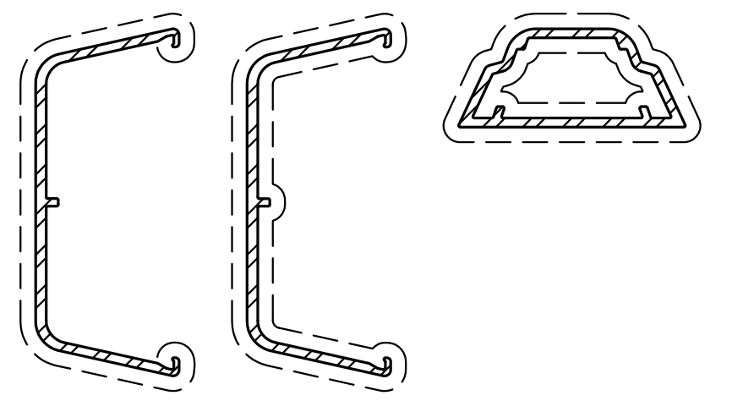
-> for

Roller shutter slats
mini-L ~ 8x37mm
max.-L ~ 14x52mm

Brush seals
bl black

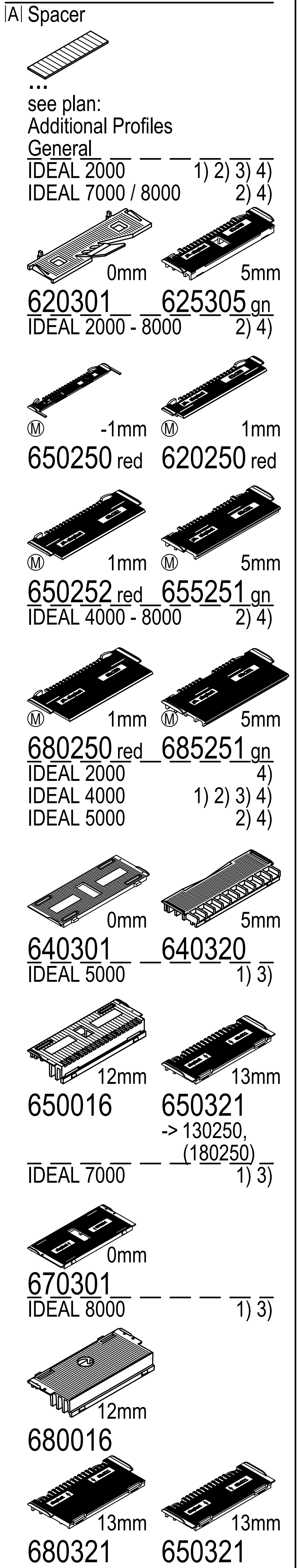
SL visible length
AU exterior perimeter
GU overall perimeter

SL: AU: GU:



IDEAL 2000 / 4000 / 5000 / 7000 / 8000 / NL

|A| Spacer



...
see plan:
Additional Profiles
General

IDEAL 2000 1) 2) 3) 4)
IDEAL 7000 / 8000 2) 4)

0mm 620301
5mm 625305 gn
IDEAL 2000 - 8000 2) 4)

Ⓜ -1mm 650250 red
Ⓜ 1mm 620250 red

Ⓜ 1mm 650252 red
Ⓜ 5mm 655251 gn
IDEAL 4000 - 8000 2) 4)

Ⓜ 1mm 680250 red
Ⓜ 5mm 685251 gn
IDEAL 2000 4)
IDEAL 4000 1) 2) 3) 4)
IDEAL 5000 2) 4)

0mm 640301
5mm 640320
IDEAL 5000 1) 3)

12mm 650016
13mm 650321 -> 130250, (180250)
IDEAL 7000 1) 3)

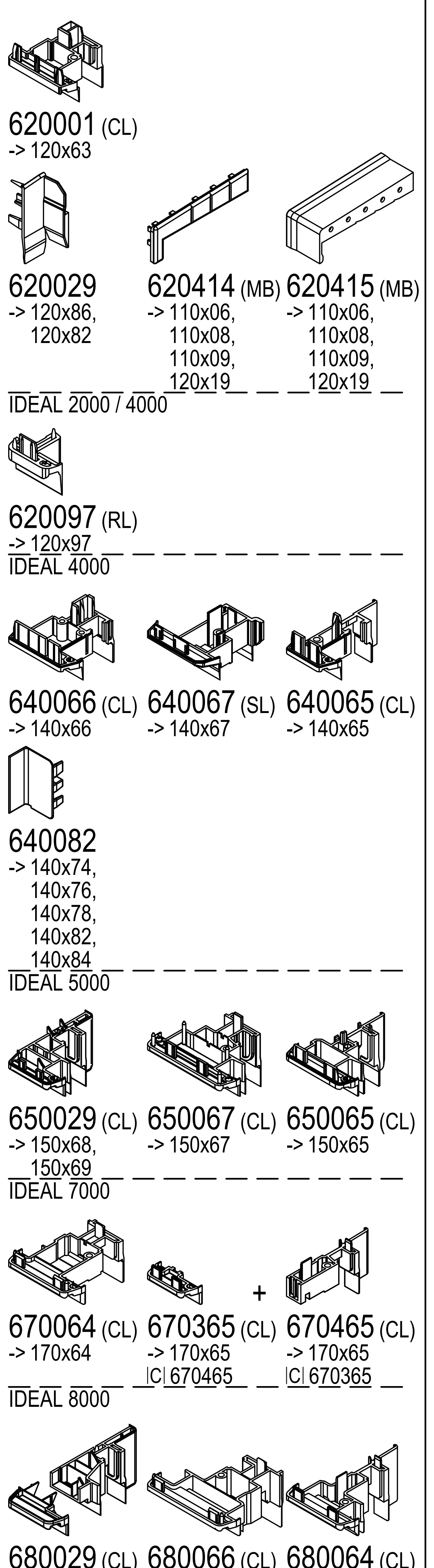
0mm 670301
IDEAL 8000 1) 3)

12mm 680016

13mm 680321 -> 130250
13mm 650321 -> 180250

1) Frame
2) Sash / False mullion sash
3) Mullion
4) Transoms

|C| End caps



IDEAL 2000

620001 (CL) -> 120x63

620029 -> 120x86, 120x82
620414 (MB) -> 110x06, 110x08, 110x09, 120x19
620415 (MB) -> 110x06, 110x08, 110x09, 120x19

IDEAL 2000 / 4000

620097 (RL) -> 120x97

IDEAL 4000

640066 (CL) -> 140x66
640067 (SL) -> 140x67
640065 (CL) -> 140x65

640082 -> 140x74, 140x76, 140x78, 140x82, 140x84

IDEAL 5000

650029 (CL) -> 150x68, 150x69
650067 (CL) -> 150x67
650065 (CL) -> 150x65

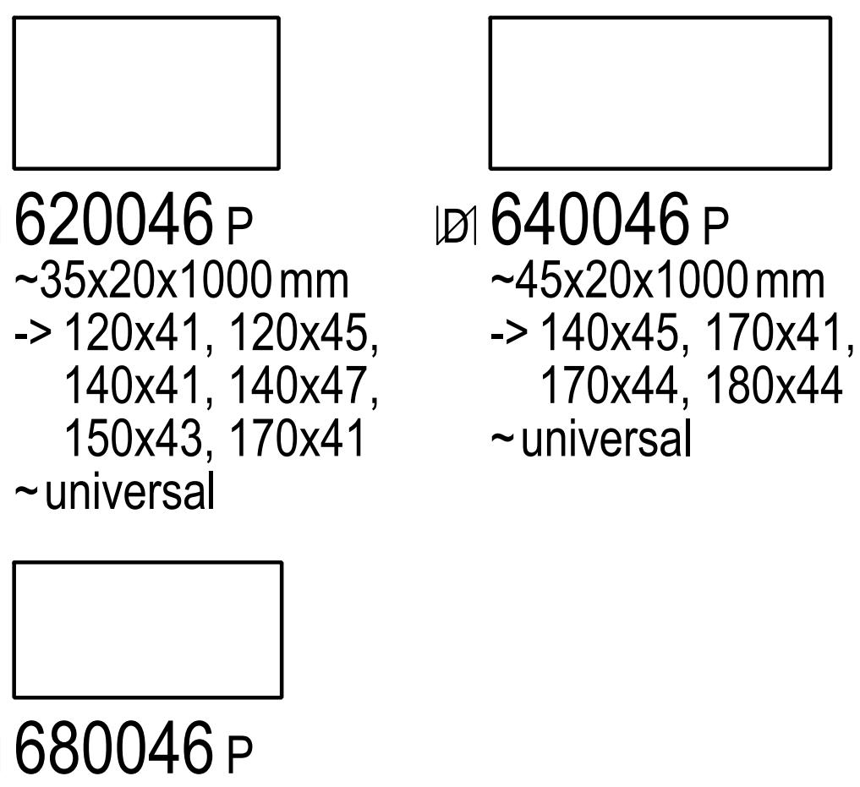
IDEAL 7000

670064 (CL) -> 170x64
670365 (CL) -> 170x65 |C| 670465
+
670465 (CL) -> 170x65 |C| 670365

IDEAL 8000

680029 (CL) Set -> 080x89, 180x69
680066 (CL) -> 180x66
680064 (CL) -> 180x64

|D| Connector P~Plastic
|D̸| Connector without sticks



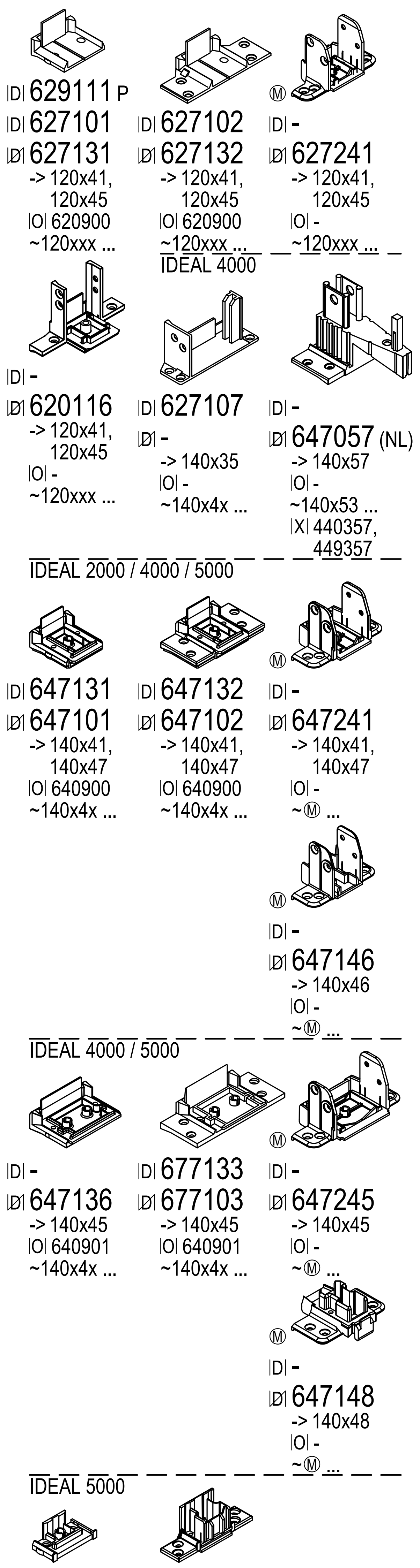
|D̸| 620046 P
~35x20x1000 mm
-> 120x41, 120x45, 140x41, 140x47, 150x43, 170x41
~universal

|D̸| 640046 P
~45x20x1000 mm
-> 140x45, 170x41, 170x44, 180x44
~universal

|D̸| 680046 P
~35.4x17.9x1000 mm
-> 180x46
~universal

|D| Connector P~Plastic
|D̸| Connector without sticks

IDEAL 2000



|D| 629111 P
|D| 627101
|D̸| 627131
-> 120x41, 120x45
|O| 620900
~120xxx ...

|D| 627102
|D̸| 627132
-> 120x41, 120x45
|O| 620900
~120xxx ...

Ⓜ
|D| -
|D̸| 627241
-> 120x41, 120x45
|O| -
~120xxx ...

IDEAL 4000

|D| -
|D̸| 620116
-> 120x41, 120x45
|O| -
~120xxx ...

|D| 627107
|D̸| -
-> 140x35
|O| -
~140x4x ...

|D| -
|D̸| 647057 (NL)
-> 140x57
|O| -
~140x53 ...
|X| 440357, 449357

IDEAL 2000 / 4000 / 5000

|D| 647131
|D̸| 647101
-> 140x41, 140x47
|O| 640900
~140x4x ...

|D| 647132
|D̸| 647102
-> 140x41, 140x47
|O| 640900
~140x4x ...

Ⓜ
|D| -
|D̸| 647241
-> 140x41, 140x47
|O| -
~Ⓜ ...

Ⓜ
|D| -
|D̸| 647146
-> 140x46
|O| -
~Ⓜ ...

IDEAL 4000 / 5000

|D| -
|D̸| 647136
-> 140x45
|O| 640901
~140x4x ...

|D| 677133
|D̸| 677103
-> 140x45
|O| 640901
~140x4x ...

Ⓜ
|D| -
|D̸| 647245
-> 140x45
|O| -
~Ⓜ ...

Ⓜ
|D| -
|D̸| 647148
-> 140x48
|O| -
~Ⓜ ...

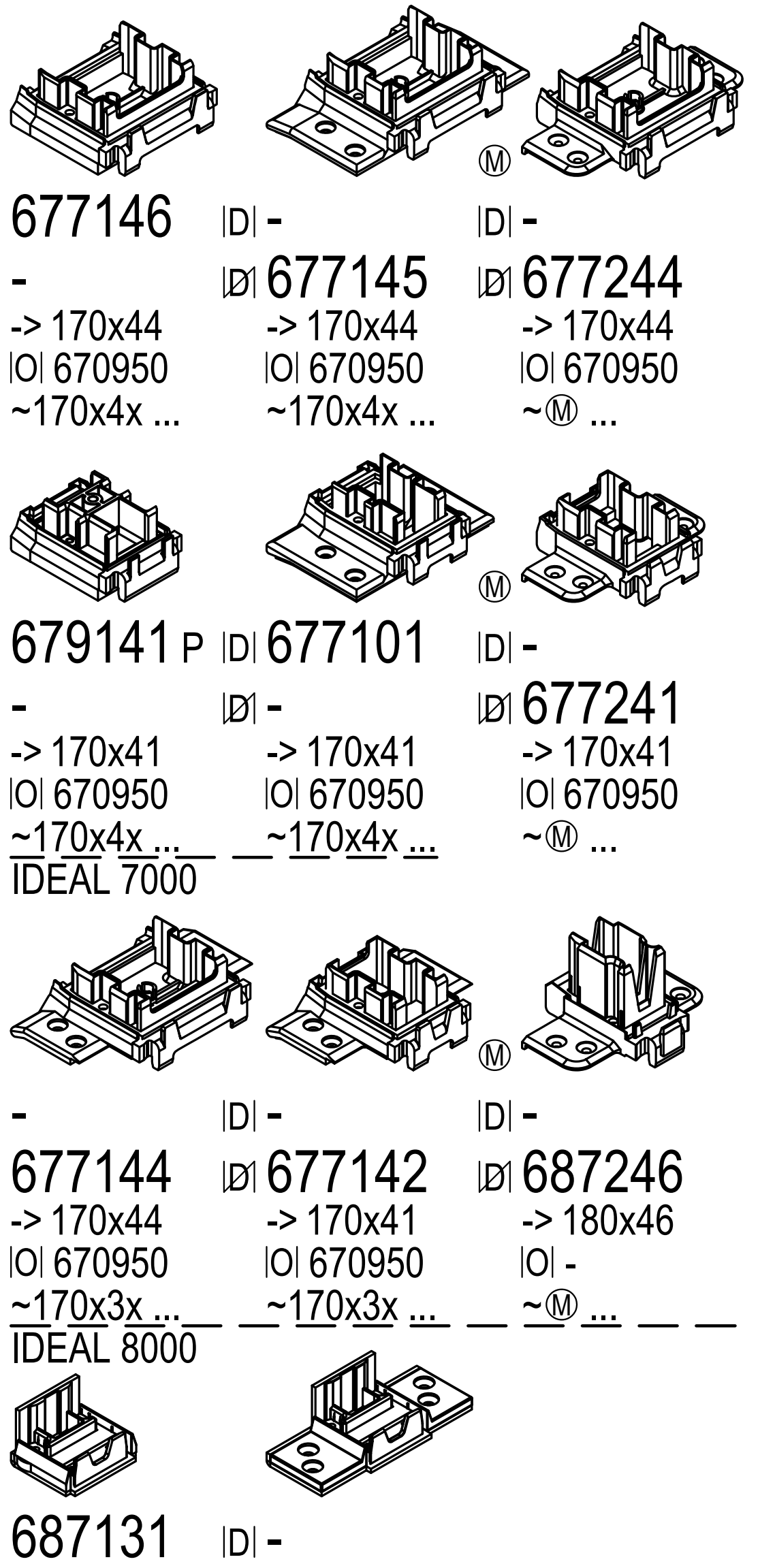
IDEAL 5000

|D| 657130
|D̸| 657030
-> 150x43
|O| 650950
~150x0x ...
|X| 650032, 659032, 650033, 659033

|D| 657134
|D̸| -
-> 150x43
|O| 650950
~150x0x ...
|X| 650032, 659032, 650033, 659033

|D| Connector P~Plastic
|D̸| Connector without sticks

IDEAL 7000 / 8000



|D| 677146
|D̸| -
-> 170x44
|O| 670950
~170x4x ...

|D| -
|D̸| 677145
-> 170x44
|O| 670950
~170x4x ...

Ⓜ
|D| -
|D̸| 677244
-> 170x44
|O| 670950
~Ⓜ ...

|D| 679141 P
|D̸| -
-> 170x41
|O| 670950
~170x4x ...

|D| 677101
|D̸| -
-> 170x41
|O| 670950
~170x4x ...

Ⓜ
|D| -
|D̸| 677241
-> 170x41
|O| 670950
~Ⓜ ...

IDEAL 7000

|D| -
|D̸| 677144
-> 170x44
|O| 670950
~170x3x ...

|D| -
|D̸| 677142
-> 170x41
|O| 670950
~170x3x ...

Ⓜ
|D| -
|D̸| 687246
-> 180x46
|O| -
~Ⓜ ...

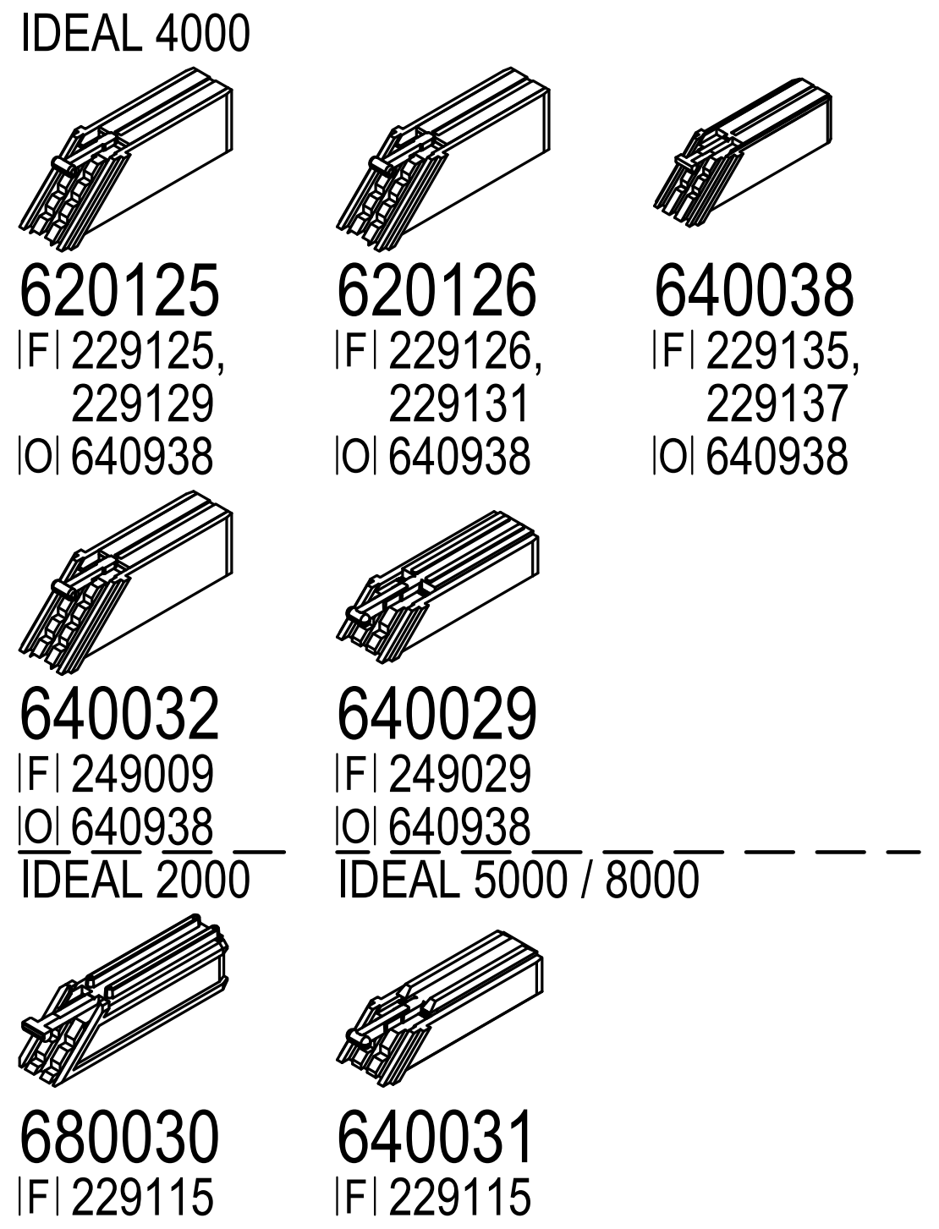
IDEAL 8000

|D| 687131
|D̸| -
-> 180x44
|O| 680950
~180x0x ...
|X| 650032, 659032, 650033, 659033

|D| -
|D̸| 687102
-> 180x44
|O| 680950
~180x0x ...
|X| 650032, 659032, 650033, 659033

|E| Corner connector

IDEAL 4000



620125
|F| 229125, 229129
|O| 640938

620126
|F| 229126, 229131
|O| 640938

640038
|F| 229135, 229137
|O| 640938

640032
|F| 249009
|O| 640938
IDEAL 2000

640029
|F| 249029
|O| 640938
IDEAL 5000 / 8000

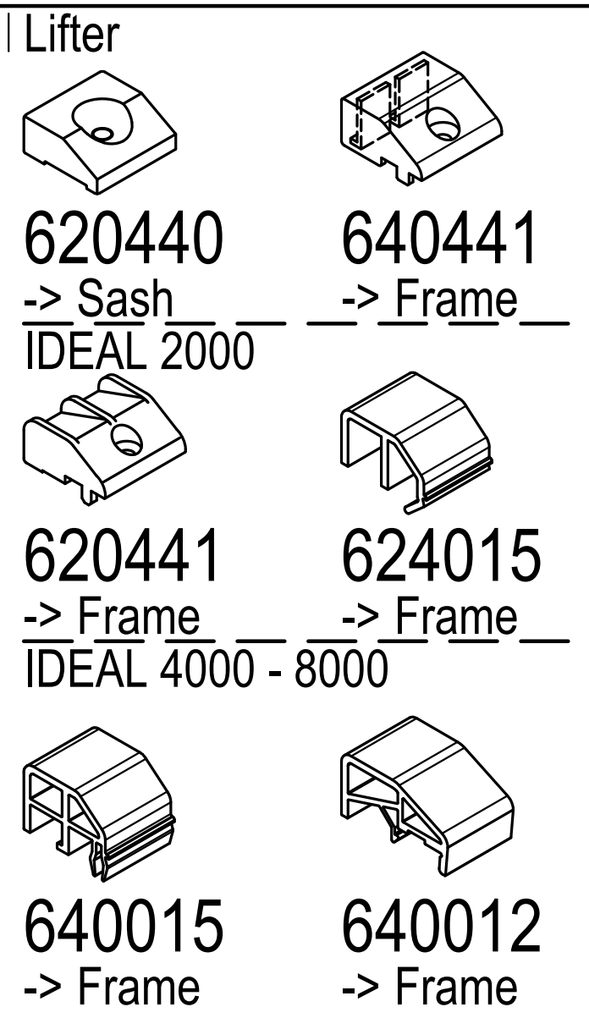
680030
|F| 229115
|O| 640938

640031
|F| 229115
|O| 640938

|F| see plan:
Reinforcements

|H| Installation / mounting anchor
see plan:
Additional Profiles
Structural profiles

|I| Lifter

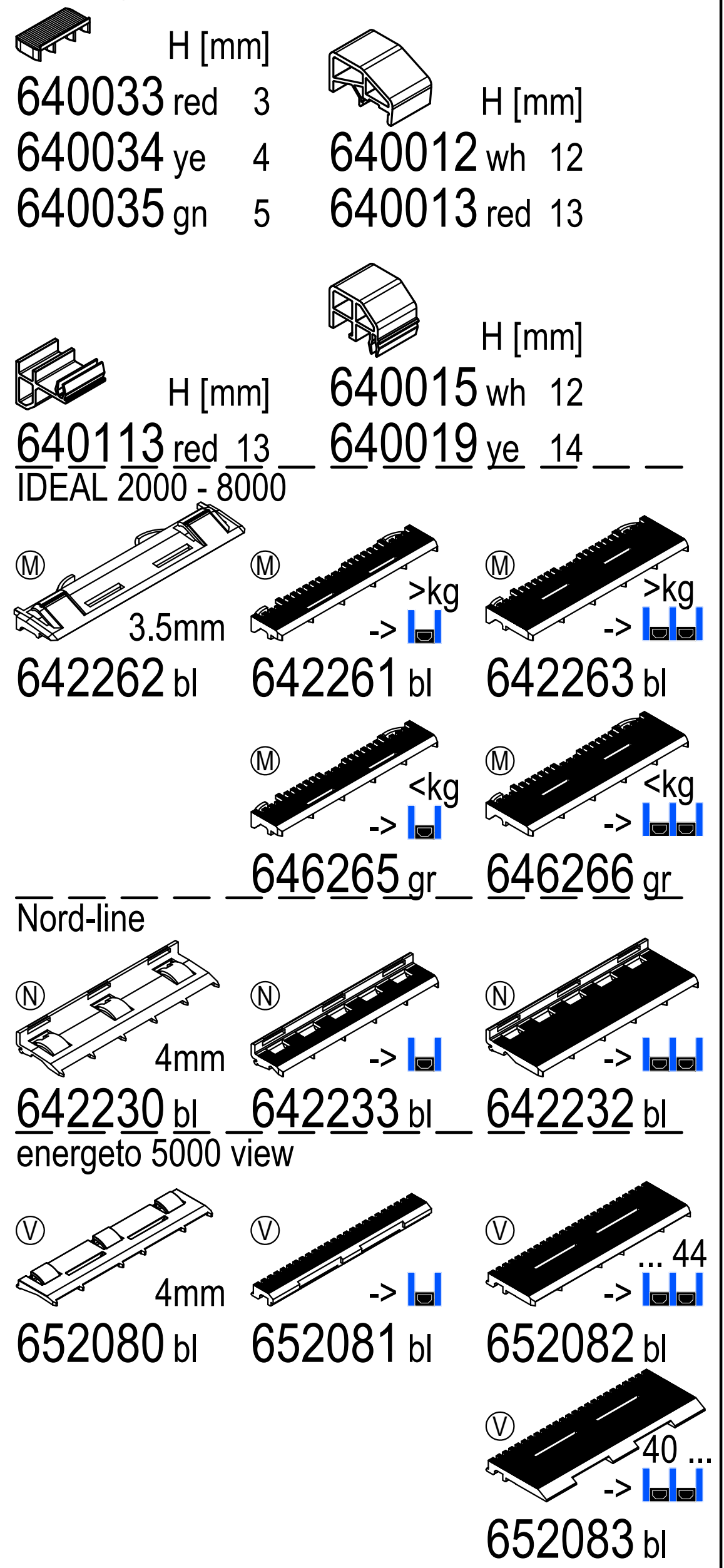


620440 -> Sash
640441 -> Frame
IDEAL 2000

620441 -> Frame
624015 -> Frame
IDEAL 4000 - 8000

640015 -> Frame
640012 -> Frame

|J| Bonding of pane



	H [mm]
640033 red	3
640034 ye	4
640035 gn	5

	H [mm]
640012 wh	12
640013 red	13

	H [mm]
640113 red	13

	H [mm]
640015 wh	12
640019 ye	14

IDEAL 2000 - 8000

Ⓜ 3.5mm 642262 bl
Ⓜ >kg -> 642261 bl
Ⓜ >kg -> 642263 bl
Ⓜ <kg -> 646265 gr
Ⓜ <kg -> 646266 gr

Nord-line

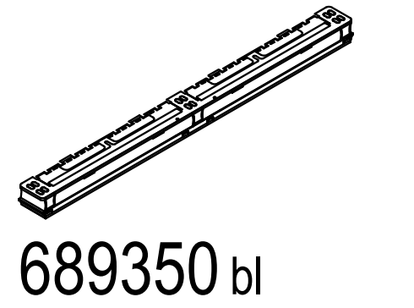
Ⓝ 4mm 642230 bl
Ⓝ -> 642233 bl
Ⓝ -> 642232 bl

energeto 5000 view

Ⓥ 4mm 652080 bl
Ⓥ -> 652081 bl
Ⓥ ... 44 -> 652082 bl
Ⓥ 40 ... -> 652083 bl

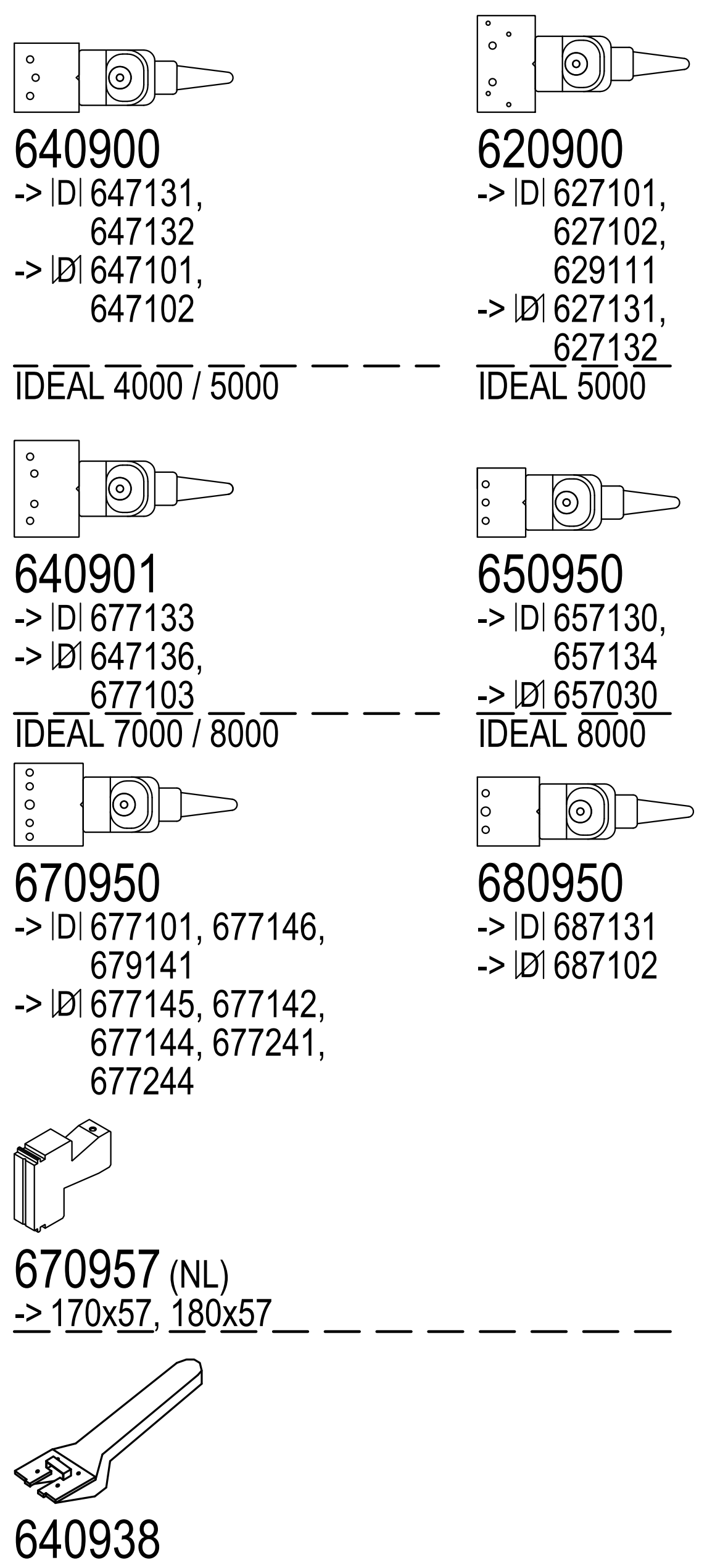
|L| Basic ventilation system

IDEAL 2000 - 8000



689350 bl
687350 pw
Basic Air max

|O| Mounting accessories



IDEAL 2000 / 4000 / 5000

640900
-> |D| 647131, 647132
-> |D̸| 647101, 647102

IDEAL 4000 / 5000

640901
-> |D| 677133
-> |D̸| 647136, 677103

IDEAL 7000 / 8000

670950
-> |D| 677101, 677146, 679141
-> |D̸| 677145, 677142, 677144, 677241, 677244

670957 (NL)
-> 170x57, 180x57

640938
-> |E| 620125, 620126, 640029, 640031, 640032, 640038, 680030, 690226, 690227

IDEAL 2000

620900
-> |D| 627101, 627102, 629111
-> |D̸| 627131, 627132

IDEAL 5000

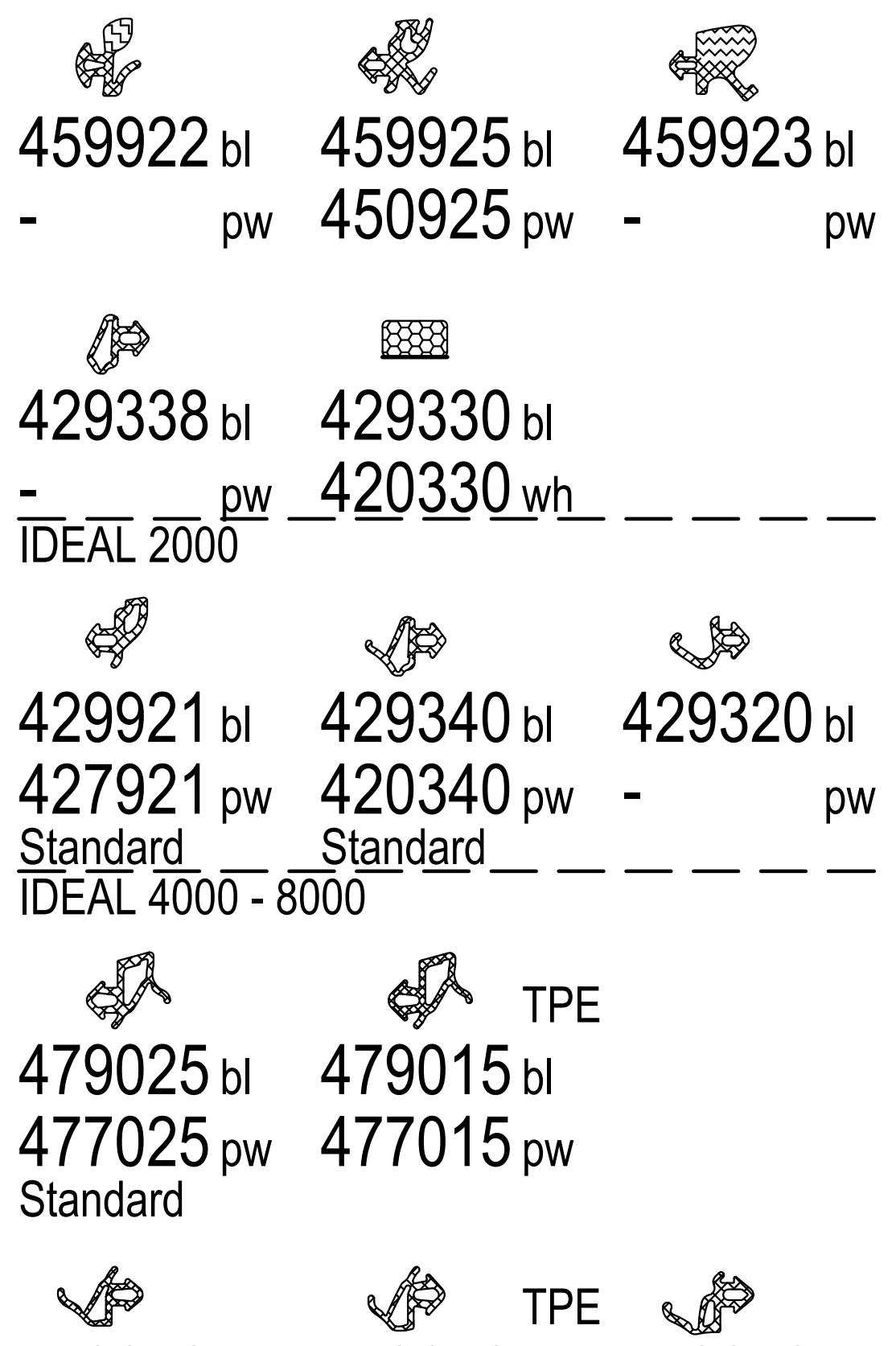
650950
-> |D| 657130, 657134
-> |D̸| 657030

IDEAL 8000

680950
-> |D| 687131
-> |D̸| 687102

|P| see plan:
aluskin
Aluminium shells
IDEAL 4000 - 8000

|X| Gaskets



459922 bl
\- pw

459925 bl
450925 pw

459923 bl
\- pw

429338 bl
\- pw

429330 bl
420330 wh

IDEAL 2000

429921 bl
427921 pw
Standard

429340 bl
420340 pw
Standard

429320 bl
\- pw

IDEAL 4000 - 8000

479025 bl
477025 pw
Standard

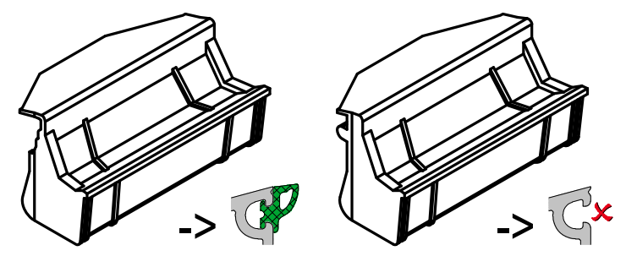
TPE
479015 bl
477015 pw

449340 bl
447340 pw
Standard

TPE
449042 bl
447042 pw

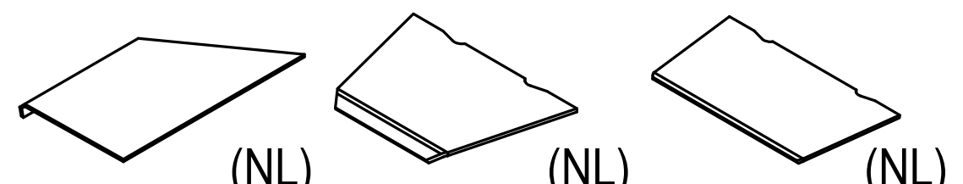
449343 bl
447343 pw

IDEAL 5000 / 8000



650032 wh
659032 bl
-> 150x43, 180x44
|D| 657130, 657134, 687131
|D̸| 657030, 687102

650033 wh
659033 bl
-> 150x43, 180x44
|D| 657130, 657134, 687131
|D̸| 657030, 687102



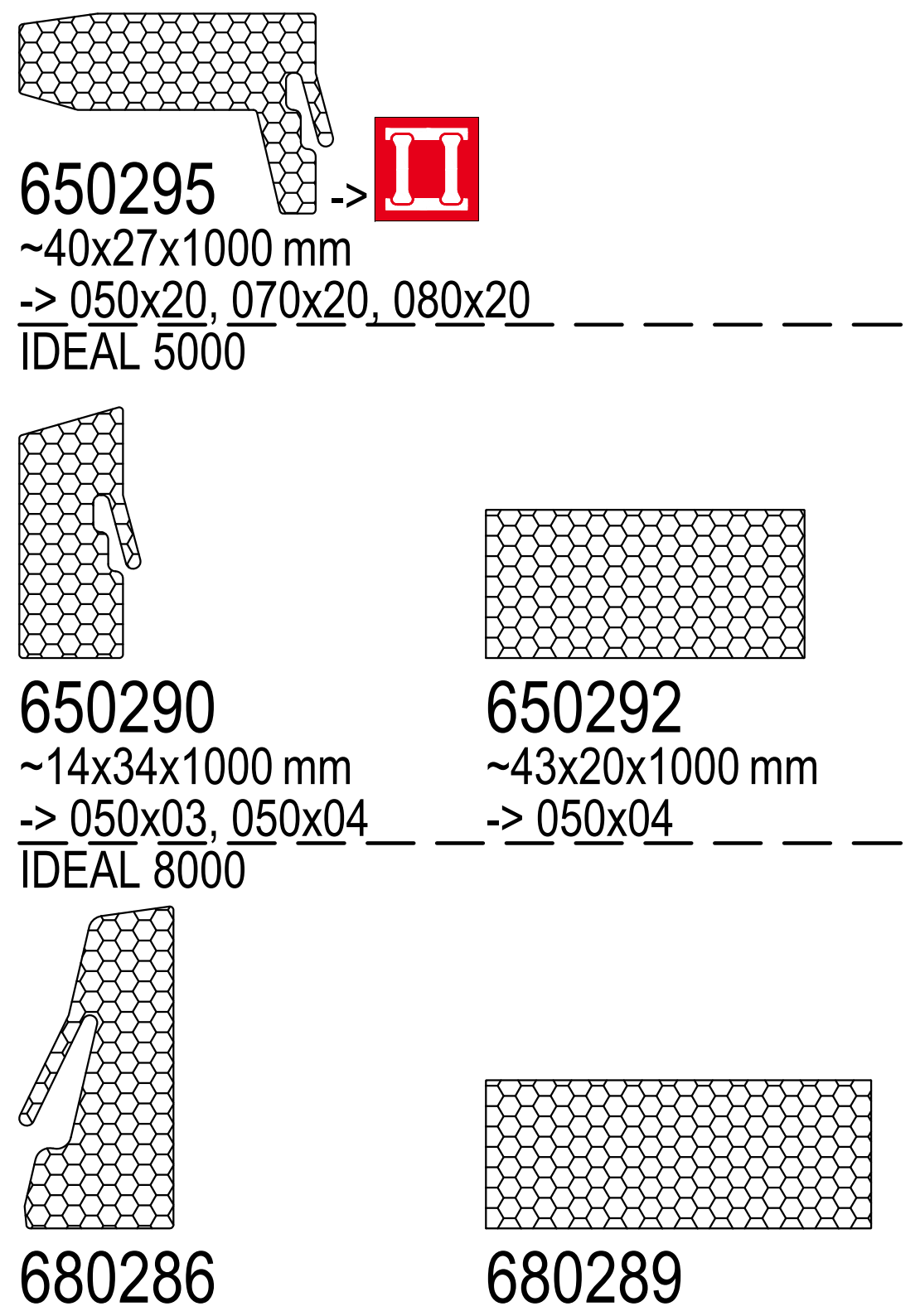
IDEAL 4000
449357 bl (NL)
440357 wh
|D̸| 647057

IDEAL 7000
479057 bl (NL)
470057 wh
|D| 677101, 679141

IDEAL 8000
489057 bl (NL)
480057 wh
|D| 687131
|D̸| 687102

|Z| Special accessories

IDEAL 5000 / 7000 / 8000



650295 ->
~40x27x1000 mm
-> 050x20, 070x20, 080x20

IDEAL 5000

650290
~14x34x1000 mm
-> 050x03, 050x04

650292
~43x20x1000 mm
-> 050x04

IDEAL 8000

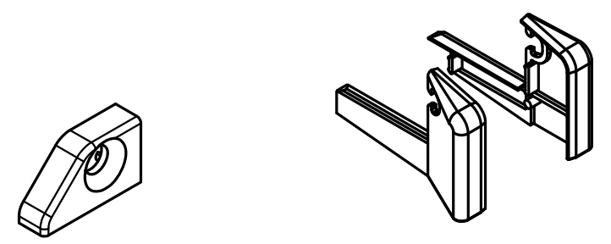
680286
~21x43.5x1000 mm
-> 080x04, 080x05

680289
~52x20x1000 mm
-> 080x04, 180x04

Aluminium threshold / Aluminium step protection

|C| End caps

IDEAL 4000

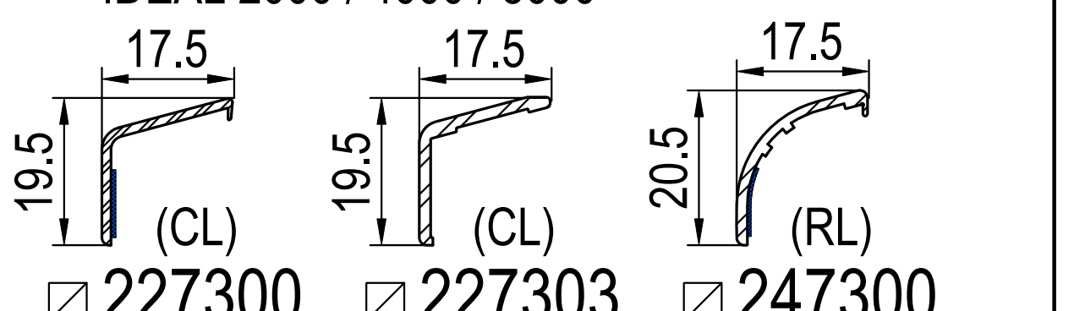


646052 gr
|T| 247052

646062 gr
|U| 249062

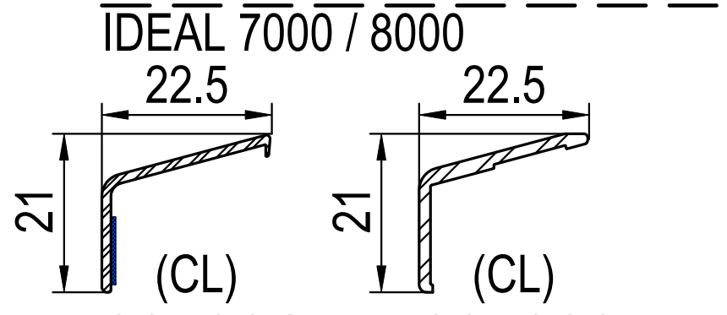
|Q| Aluminium step protection

IDEAL 2000 / 4000 / 5000



(CL) ☐ 227300
(CL) ☐ 227303
(RL) ☐ 247300

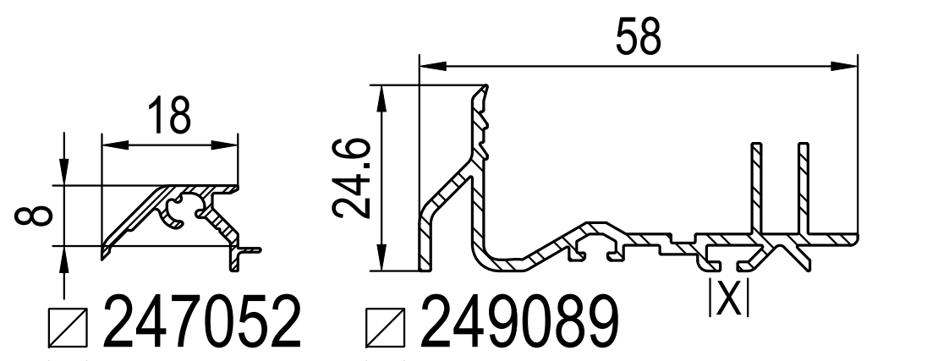
IDEAL 7000 / 8000



(CL) ☐ 287301
(CL) ☐ 287303

|T| Aluminium weather bar

IDEAL 4000 / 5000

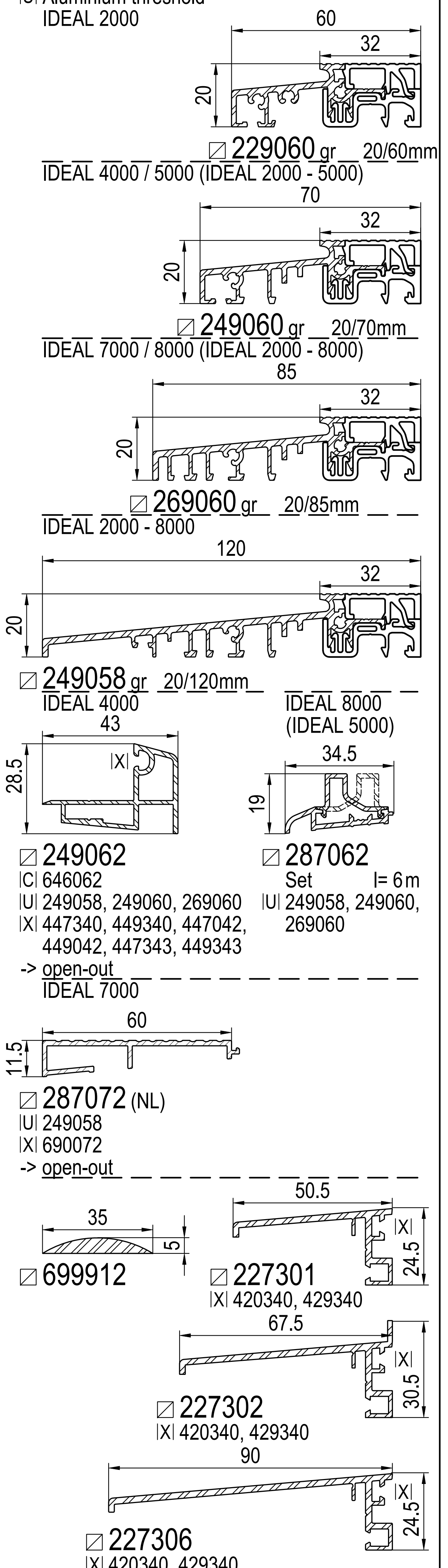


☐ 247052
|C| 646052

☐ 249089
|X| 440036

|U| Aluminium threshold

IDEAL 2000



☐ 229060 gr 20/60mm

IDEAL 4000 / 5000 (IDEAL 2000 - 5000)

☐ 249060 gr 20/70mm

IDEAL 7000 / 8000 (IDEAL 2000 - 8000)

☐ 269060 gr 20/85mm

IDEAL 2000 - 8000

☐ 249058 gr 20/120mm

IDEAL 4000

☐ 249062
|C| 646062
|U| 249058, 249060, 269060
|X| 447340, 449340, 447042, 449042, 447343, 449343
-> open-out

IDEAL 8000
(IDEAL 5000)

☐ 287062
Set l= 6 m
|U| 249058, 249060, 269060

IDEAL 7000

☐ 287072 (NL)
|U| 249058
|X| 690072
-> open-out

☐ 699912

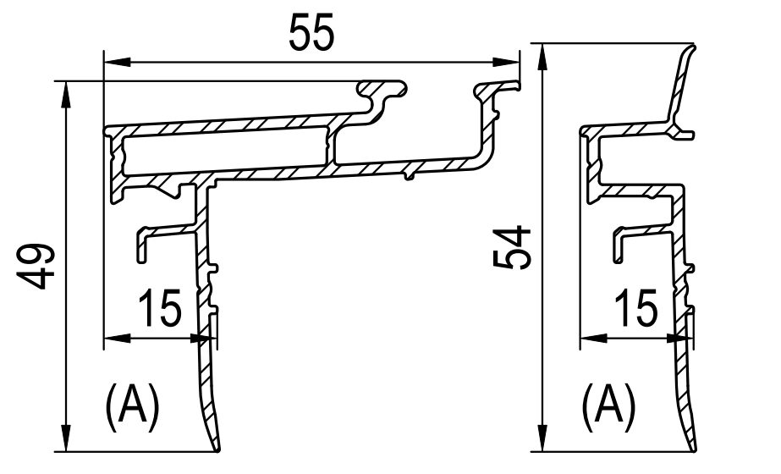
☐ 227301
|X| 420340, 429340

☐ 227302
|X| 420340, 429340

☐ 227306
|X| 420340, 429340

|U| Aluminium threshold

IDEAL 8000

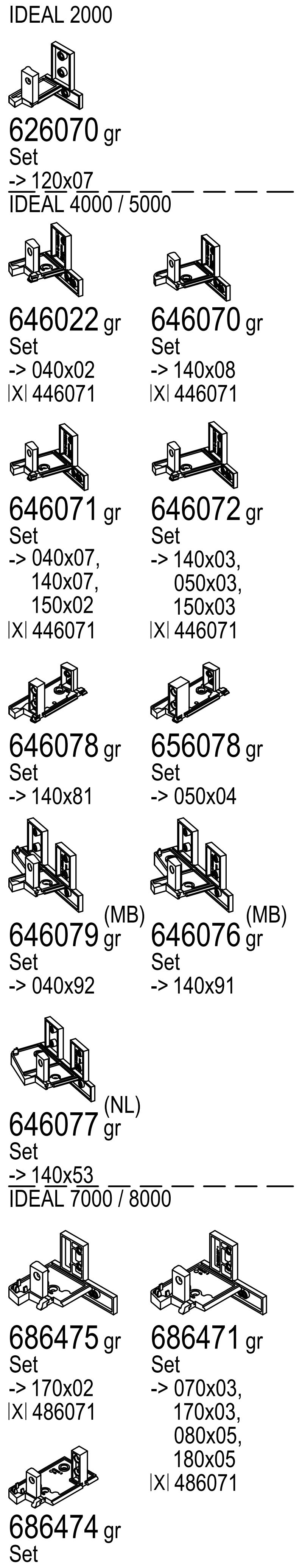


☐ 287060
|U| 287061
|X| 689360

☐ 287061
|U| 287060

|V| Connection for threshold

IDEAL 2000



626070 gr
Set
-> 120x07

IDEAL 4000 / 5000

646022 gr
Set
-> 040x02
|X| 446071

646070 gr
Set
-> 140x08
|X| 446071

646071 gr
Set
-> 040x07, 140x07, 150x02
|X| 446071

646072 gr
Set
-> 140x03, 050x03, 150x03
|X| 446071

646078 gr
Set
-> 140x81

656078 gr
Set
-> 050x04

646079 gr (MB)
Set
-> 040x92

646076 gr (MB)
Set
-> 140x91

646077 gr (NL)
Set
-> 140x53

IDEAL 7000 / 8000

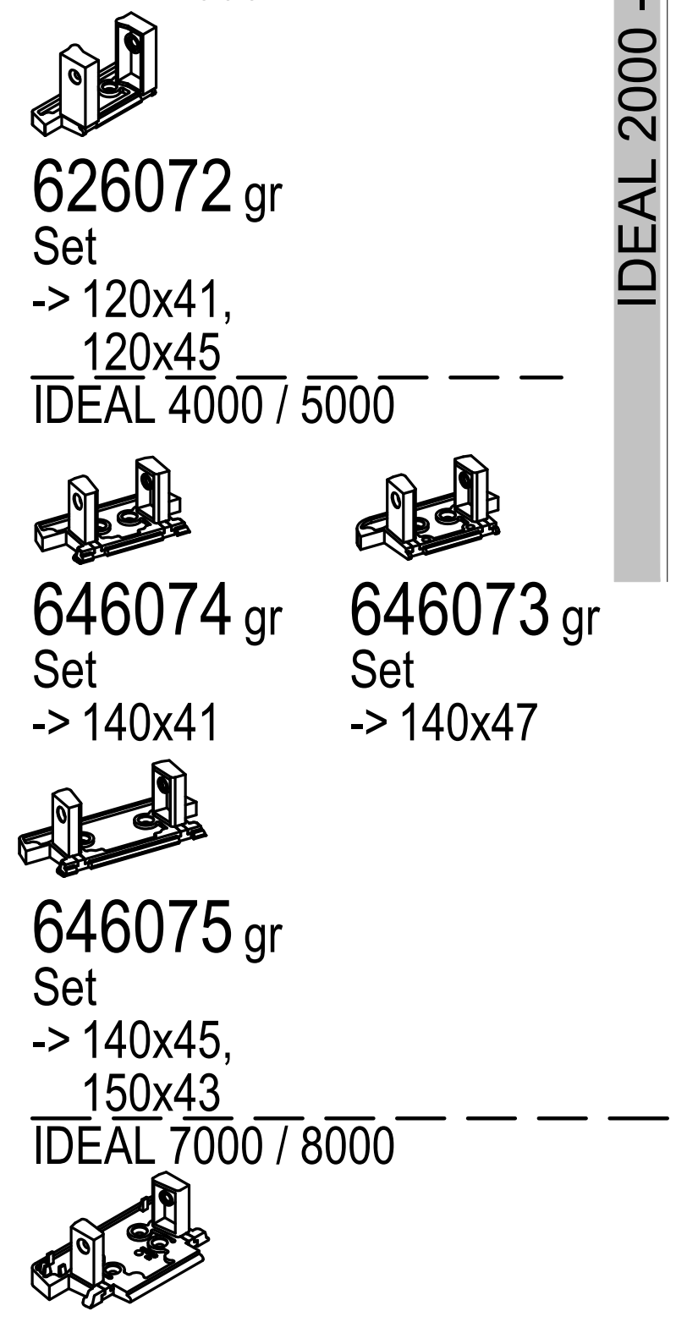
686475 gr
Set
-> 170x02
|X| 486071

686471 gr
Set
-> 070x03, 170x03, 080x05, 180x05
|X| 486071

686474 gr
Set
-> 080x04, 180x04
|X| 486071

|W| Mullion coupler

IDEAL 2000



626072 gr
Set
-> 120x41, 120x45

IDEAL 4000 / 5000

646074 gr
Set
-> 140x41

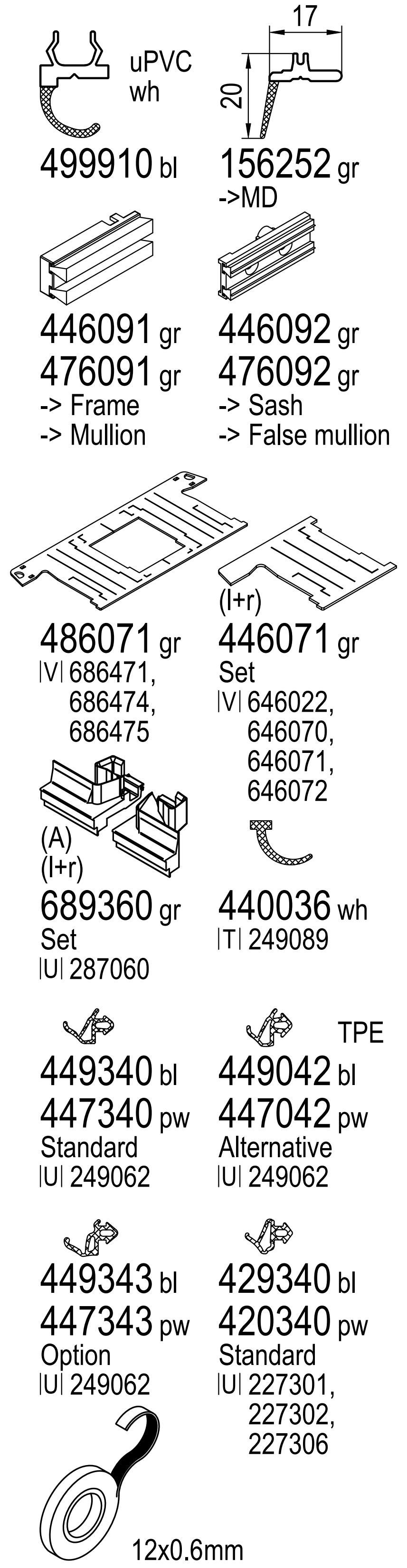
646073 gr
Set
-> 140x47

646075 gr
Set
-> 140x45, 150x43

IDEAL 7000 / 8000

686473 gr
Set
-> 170x44, 180x44

|X| Gaskets



uPVC wh
499910 bl

17
20
156252 gr
->MD

446091 gr
476091 gr
-> Frame
-> Mullion

446092 gr
476092 gr
-> Sash
-> False mullion

486071 gr
|V| 686471, 686474, 686475

(l+r)
446071 gr
Set
|V| 646022, 646070, 646071, 646072

(A)
(l+r)
689360 gr
Set
|U| 287060

440036 wh
|T| 249089

449340 bl
447340 pw
Standard
|U| 249062

TPE
449042 bl
447042 pw
Alternative
|U| 249062

449343 bl
447343 pw
Option
|U| 249062

429340 bl
420340 pw
Standard
|U| 227301, 227302, 227306

12x0.6mm
690072 l~50 m
|U| 287072

☐ not laminated	(CL) Classic-line	ye	yellow	Construction depth	
■ laminated	(RL) Round-line	gn	green	->60mm	->IDEAL 2000
		gr	grey	->70mm	->IDEAL 4000 / 5000
-> for	(MB) Monobloc	oc	ochre	->85mm	->IDEAL 7000 / 8000
		red	red	->120mm	->IDEAL x000 NL / (MB)
Glazing rebate	(NL) IDEAL x000 NL	bl	black		
Ⓜ -> |A| or |J| =Option		pw	papyrus-white	->AD	for backstop gasket systems ->IDEAL 2000 / 4000 / 7000
Ⓝ -> |J| -> Nord-line	(A) aluplast austria	wh	white		
Ⓥ -> |J| -> energeto 5000 view				->MD	for centre gasket systems ->IDEAL 5000 / 8000

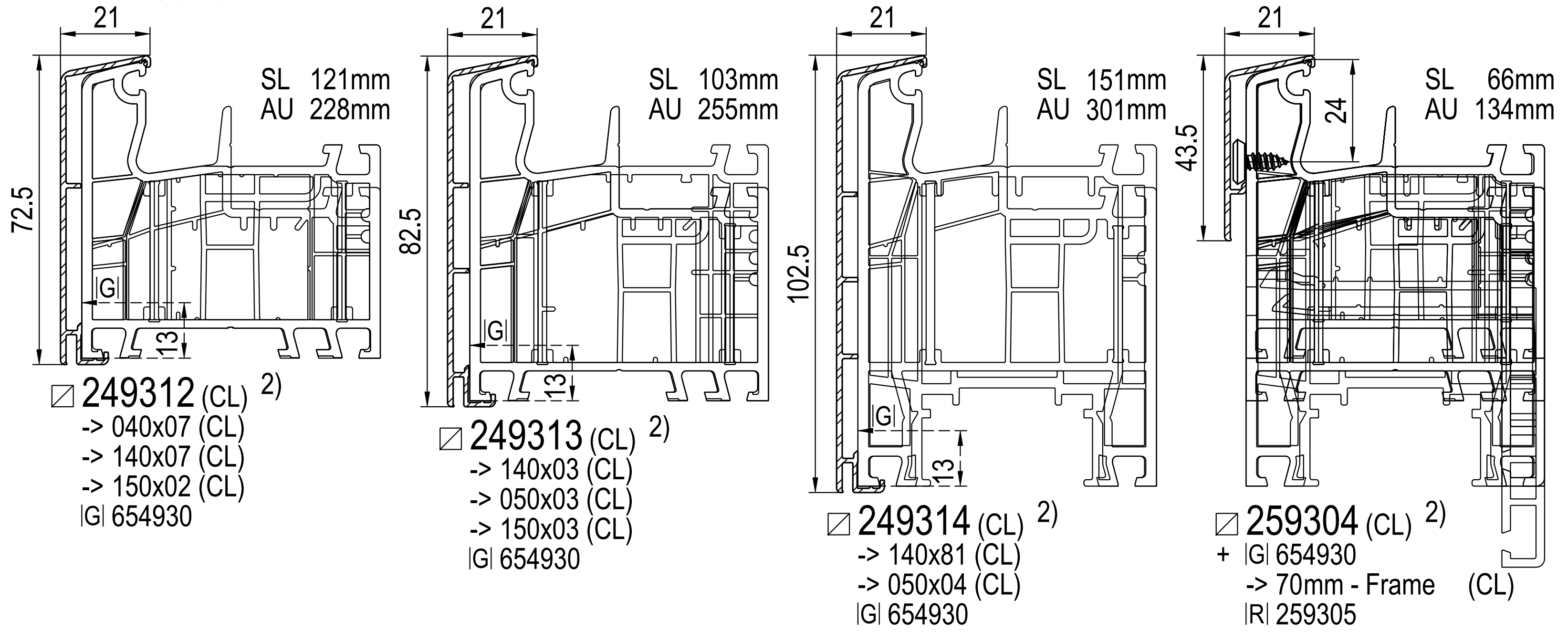
May be subject to change and errors excepted!
Laminated profiles and profiles with gasket: see price list!

IDEAL 4000 - 8000®
aluskin

|P| **aluskin** Aluminium shells

|P| -> Frame

IDEAL 4000 / 5000



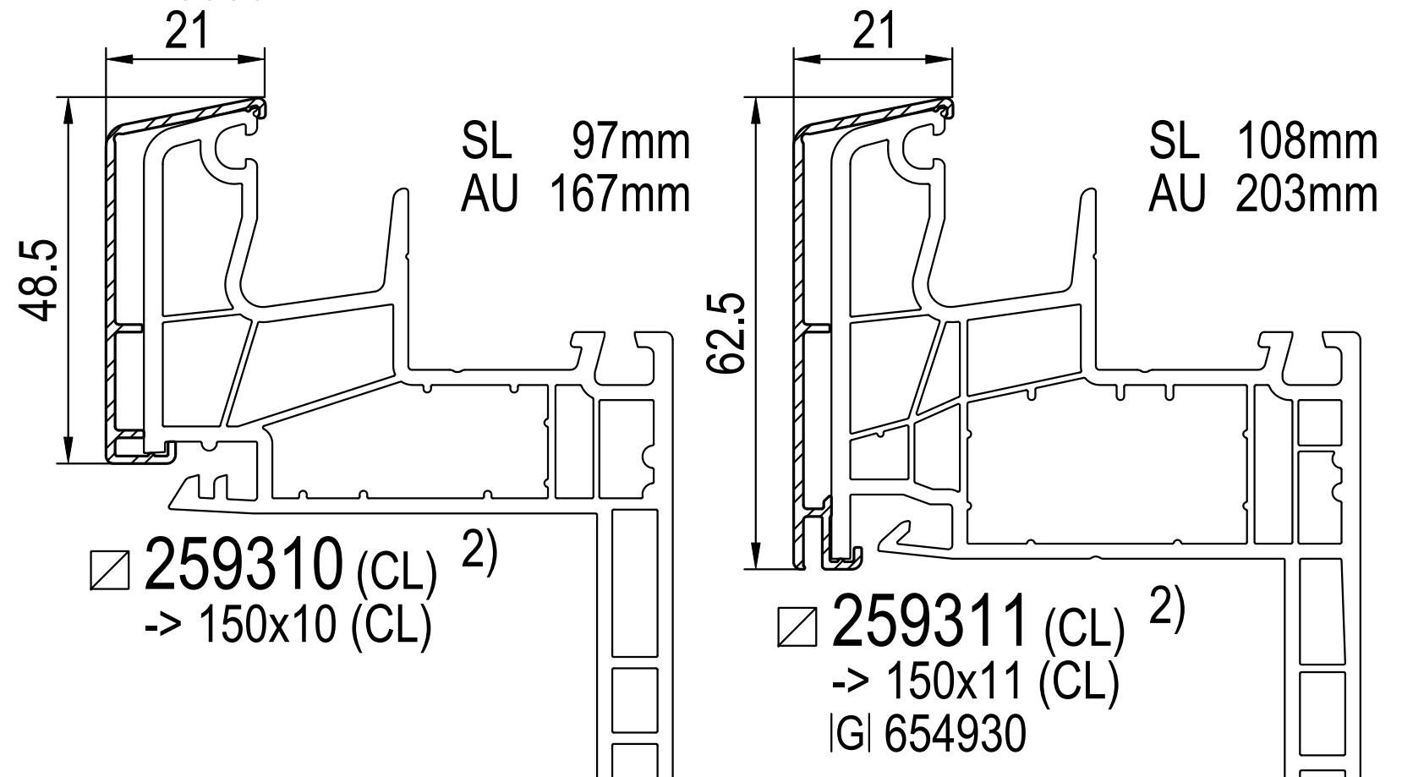
☐ 249312 (CL) 2)
-> 040x07 (CL)
-> 140x07 (CL)
-> 150x02 (CL)
|G| 654930

☐ 249313 (CL) 2)
-> 140x03 (CL)
-> 050x03 (CL)
-> 150x03 (CL)
|G| 654930

☐ 249314 (CL) 2)
-> 140x81 (CL)
-> 050x04 (CL)
|G| 654930

☐ 259304 (CL) 2)
+ |G| 654930
-> 70mm - Frame (CL)
|R| 259305

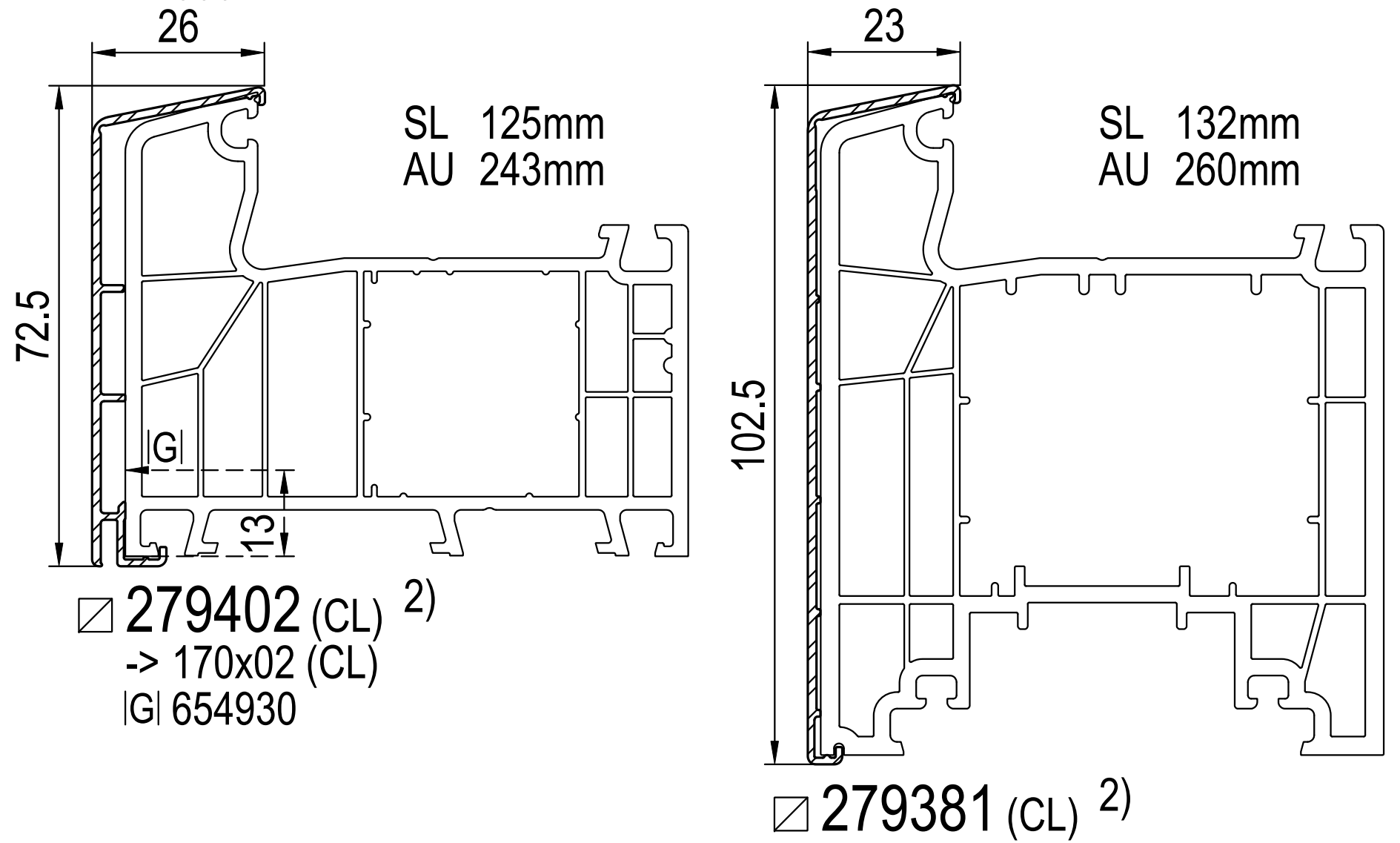
IDEAL 5000



☐ 259310 (CL) 2)
-> 150x10 (CL)

☐ 259311 (CL) 2)
-> 150x11 (CL)
|G| 654930

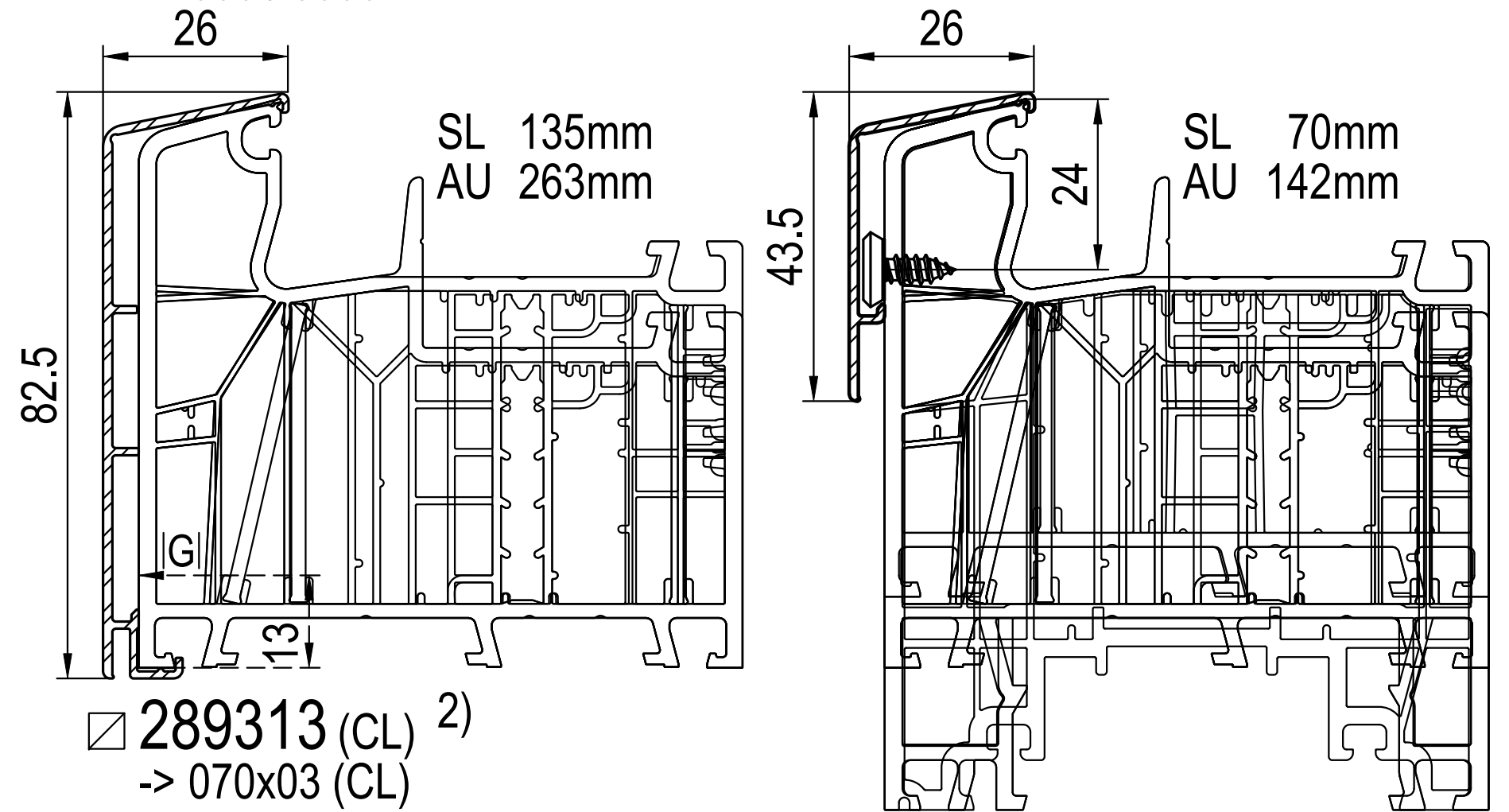
IDEAL 7000



☐ 279402 (CL) 2)
-> 170x02 (CL)
|G| 654930

☐ 279381 (CL) 2)
-> 170x81 (CL)

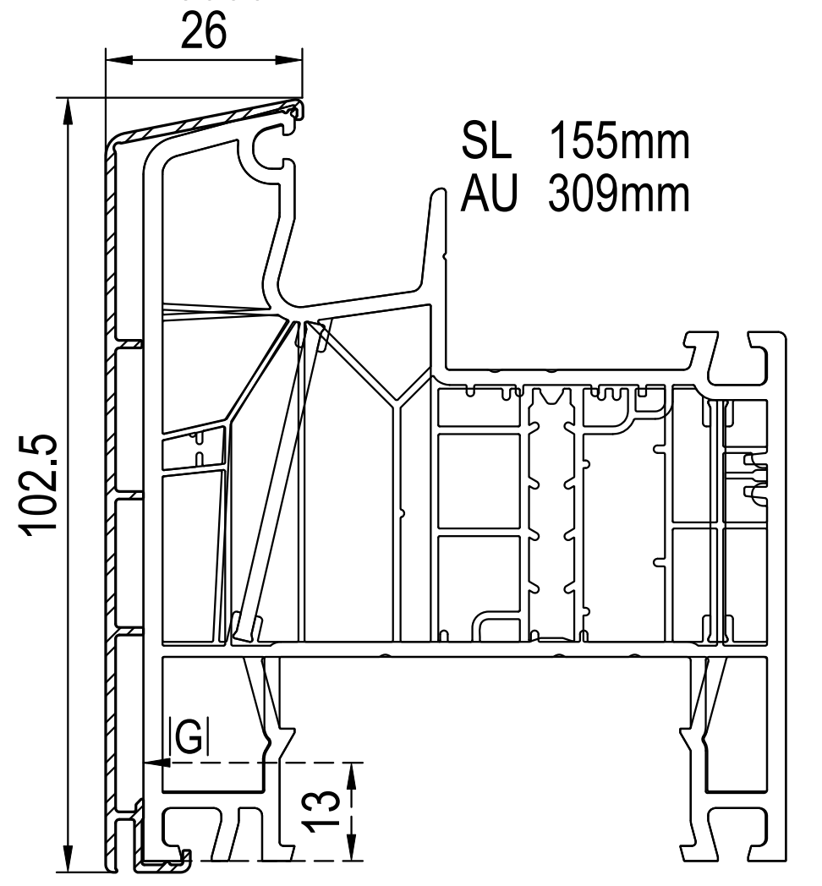
IDEAL 7000 / 8000



☐ 289313 (CL) 2)
-> 070x03 (CL)
-> 170x03 (CL)
-> 080x05 (CL)
-> 180x05 (CL)
|G| 654930

☐ 289304 (CL) 2)
+ |G| 654930
-> 85mm - Frame (CL)
|R| 259305

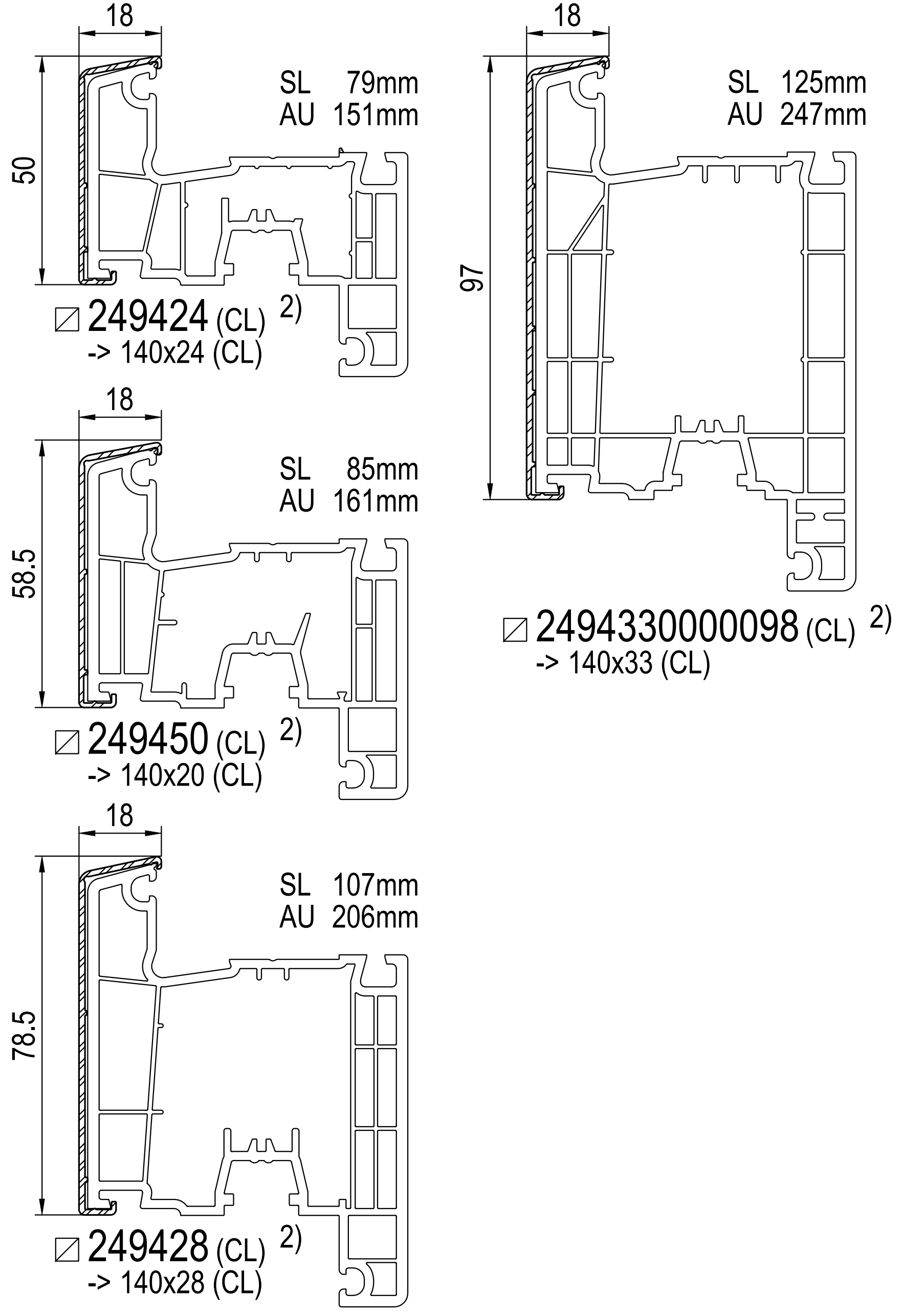
IDEAL 8000



☐ 289314 (CL) 2)
-> 080x04 (CL)
-> 180x04 (CL)
|G| 654930

|P| -> Sash

IDEAL 4000



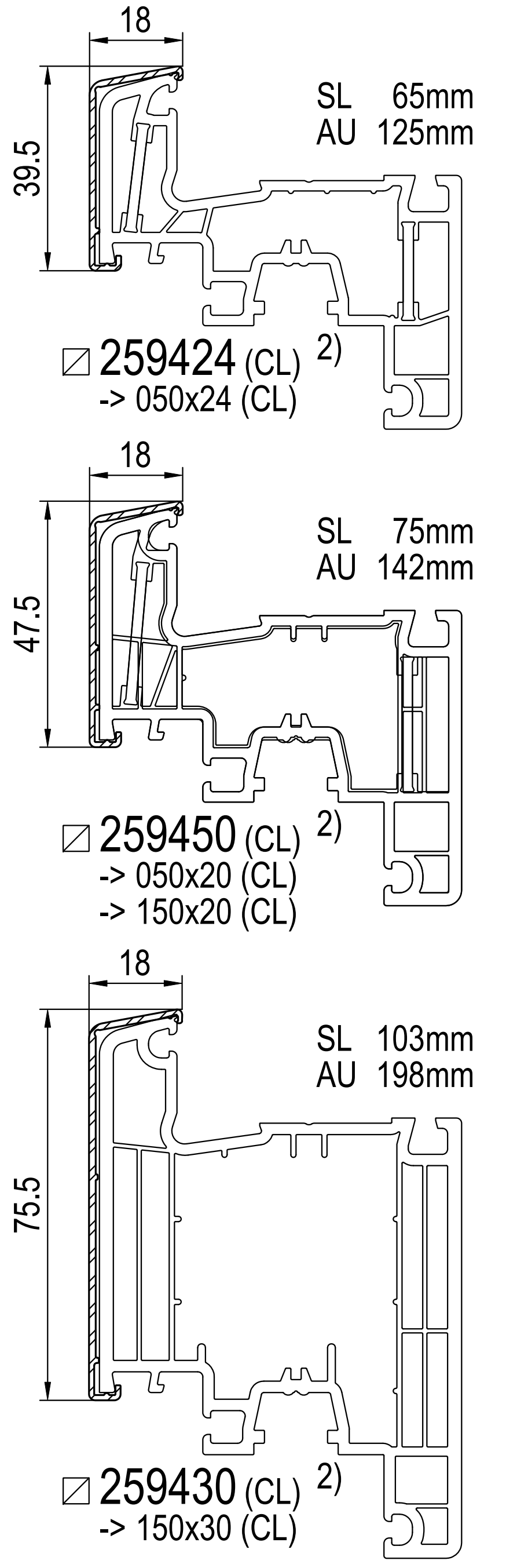
☐ 249424 (CL) 2)
-> 140x24 (CL)

☐ 2494330000098 (CL) 2)
-> 140x33 (CL)

☐ 249450 (CL) 2)
-> 140x20 (CL)

☐ 249428 (CL) 2)
-> 140x28 (CL)

IDEAL 5000

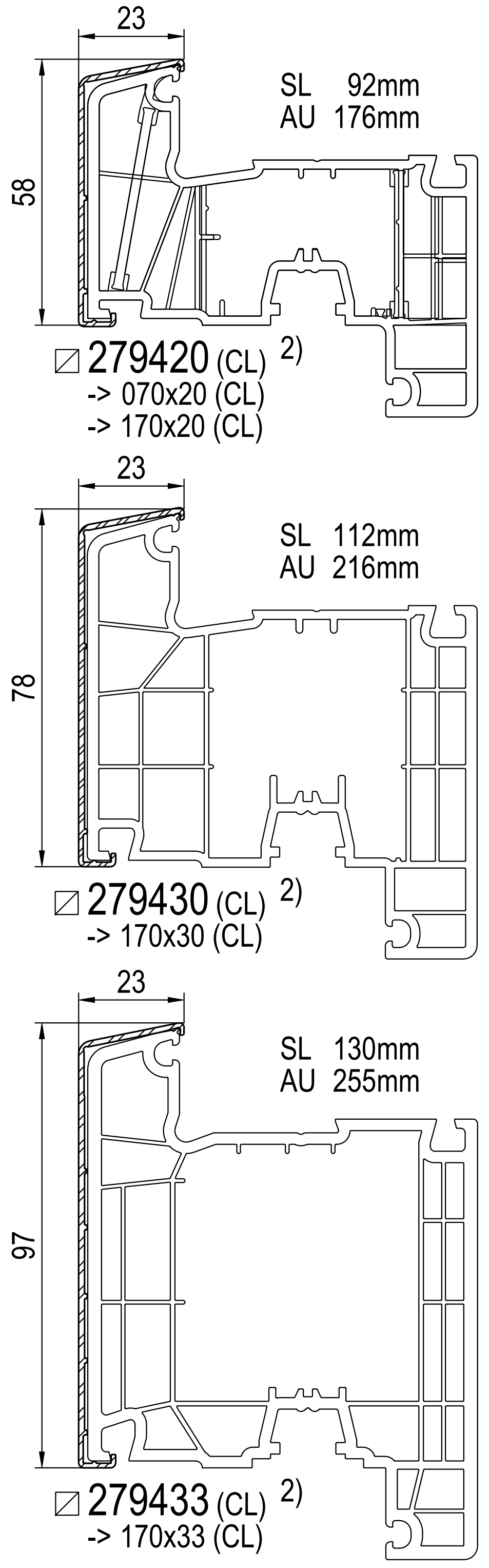


☐ 259424 (CL) 2)
-> 050x24 (CL)

☐ 259450 (CL) 2)
-> 050x20 (CL)
-> 150x20 (CL)

☐ 259430 (CL) 2)
-> 150x30 (CL)

IDEAL 7000

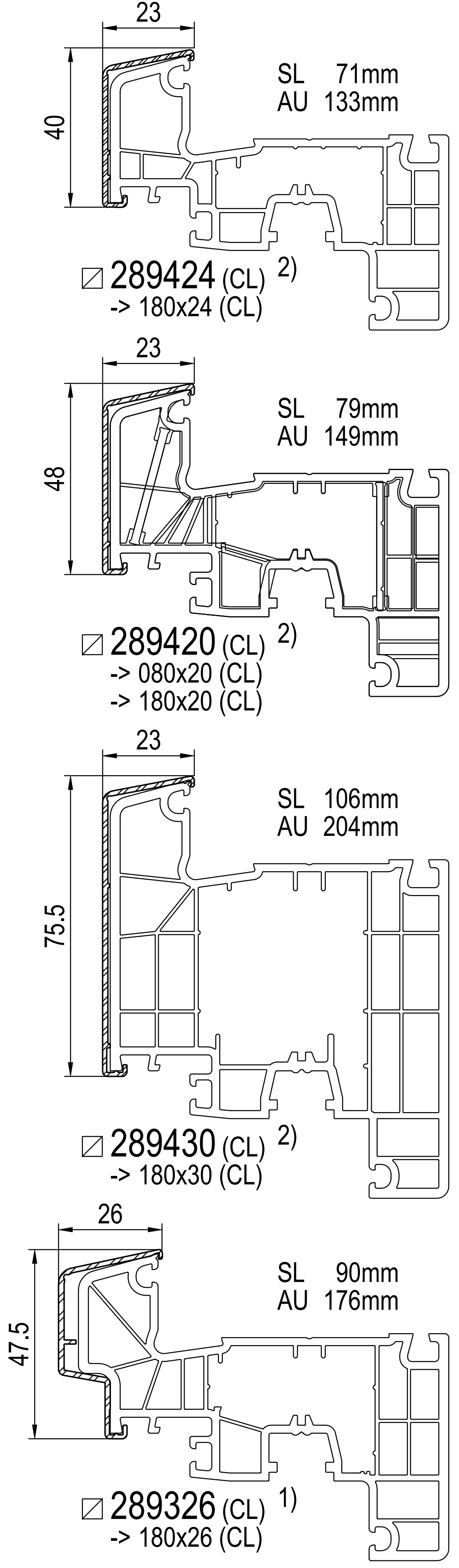


☐ 279420 (CL) 2)
-> 070x20 (CL)
-> 170x20 (CL)

☐ 279430 (CL) 2)
-> 170x30 (CL)

☐ 279433 (CL) 2)
-> 170x33 (CL)

IDEAL 8000



☐ 289424 (CL) 2)
-> 180x24 (CL)

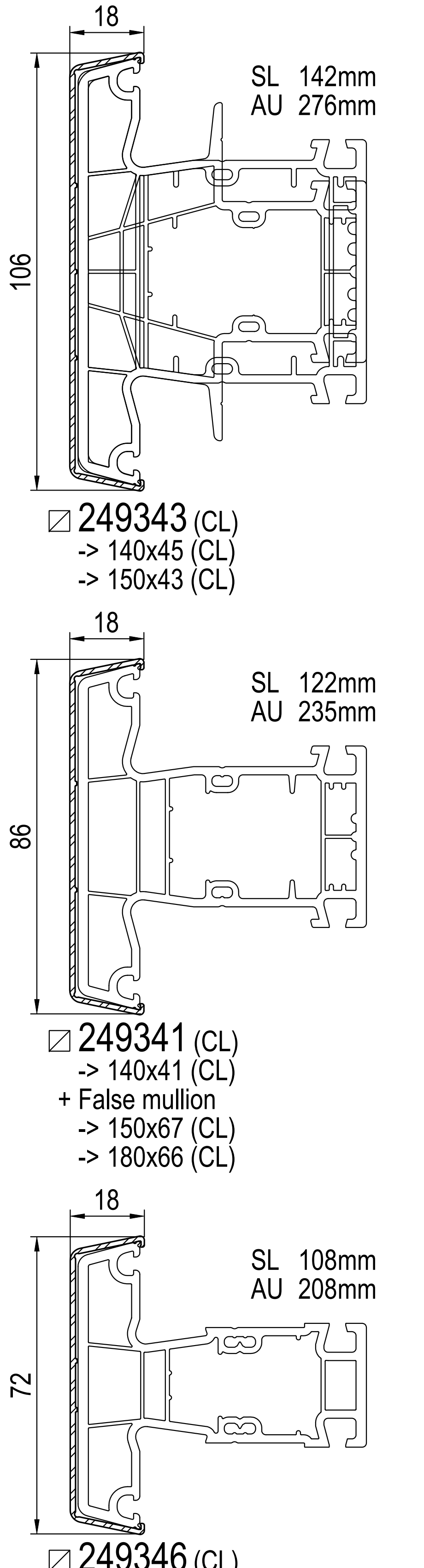
☐ 289420 (CL) 2)
-> 080x20 (CL)
-> 180x20 (CL)

☐ 289430 (CL) 2)
-> 180x30 (CL)

☐ 289326 (CL) 1)
-> 180x26 (CL)

|P| -> Mullion / Transoms

IDEAL 4000 / 5000

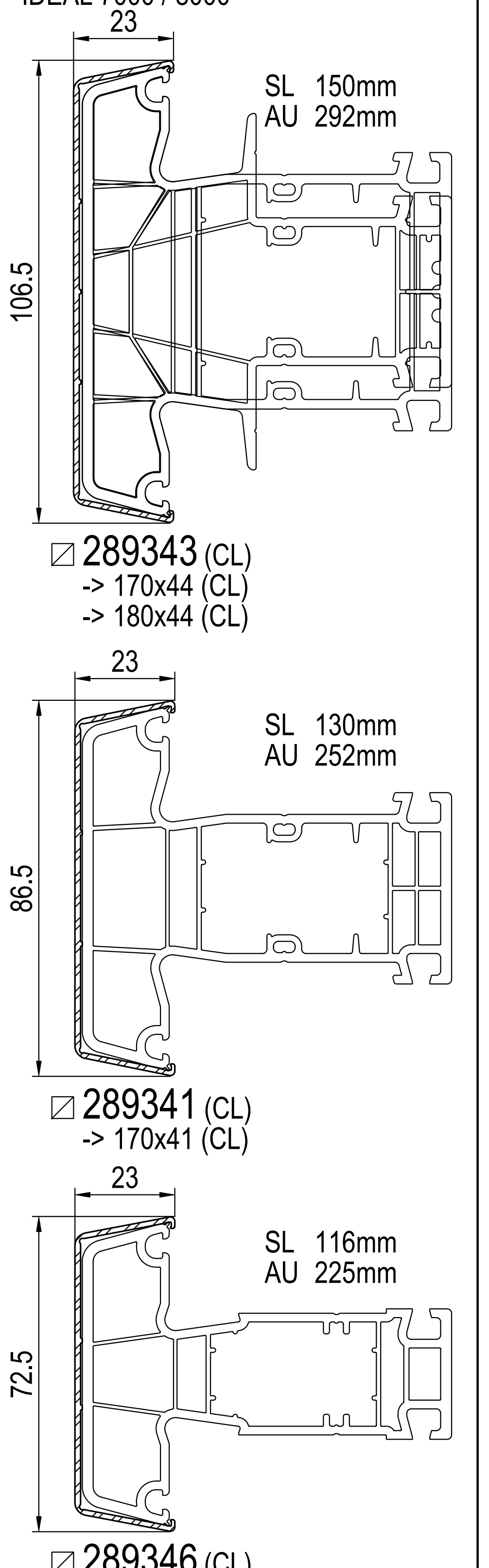


☐ 249343 (CL)
-> 140x45 (CL)
-> 150x43 (CL)

☐ 249341 (CL)
-> 140x41 (CL)
+ False mullion
-> 150x67 (CL)
-> 180x66 (CL)

☐ 249346 (CL)
-> 140x46 (CL)

IDEAL 7000 / 8000



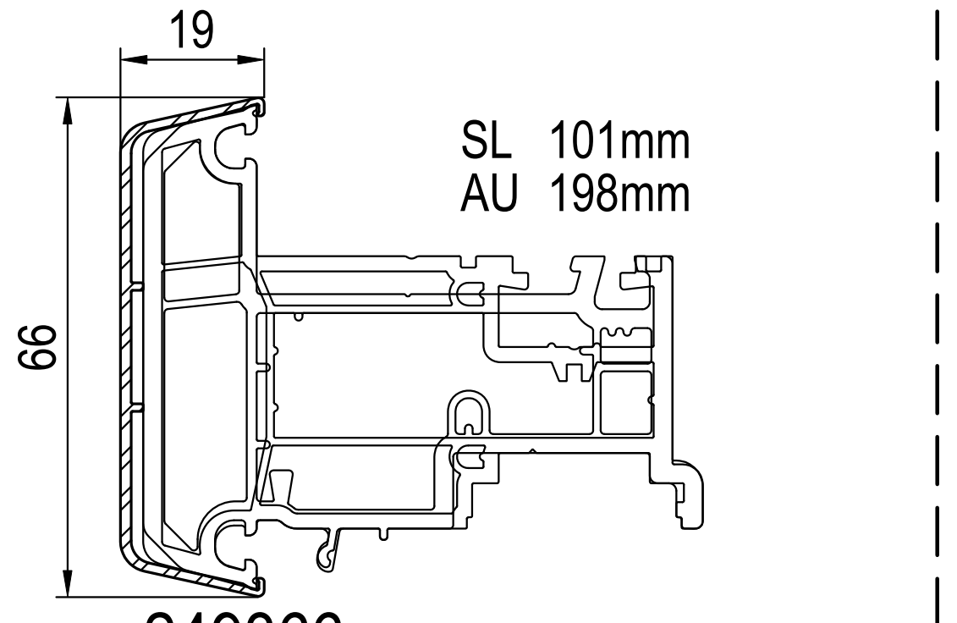
☐ 289343 (CL)
-> 170x44 (CL)
-> 180x44 (CL)

☐ 289341 (CL)
-> 170x41 (CL)

☐ 289346 (CL)
-> 180x46 (CL)

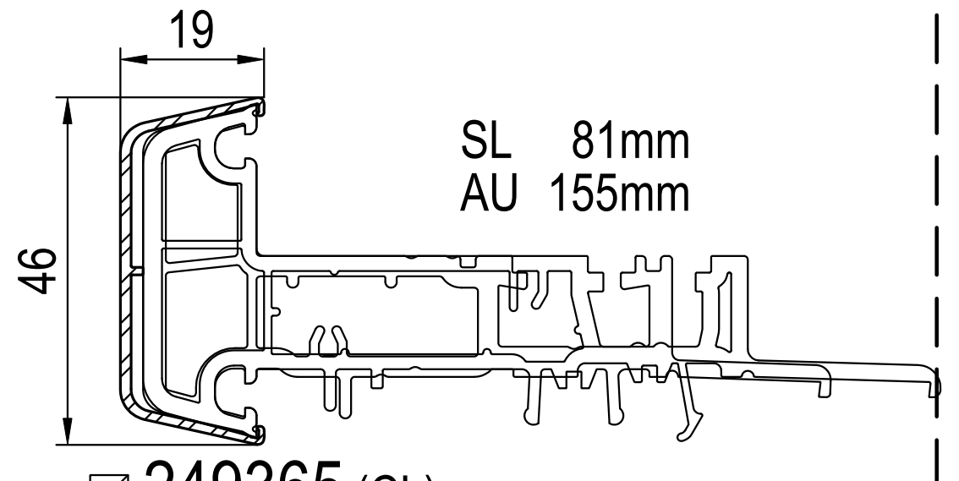
|P| -> False mullion sash / False mullion profiles

IDEAL 4000



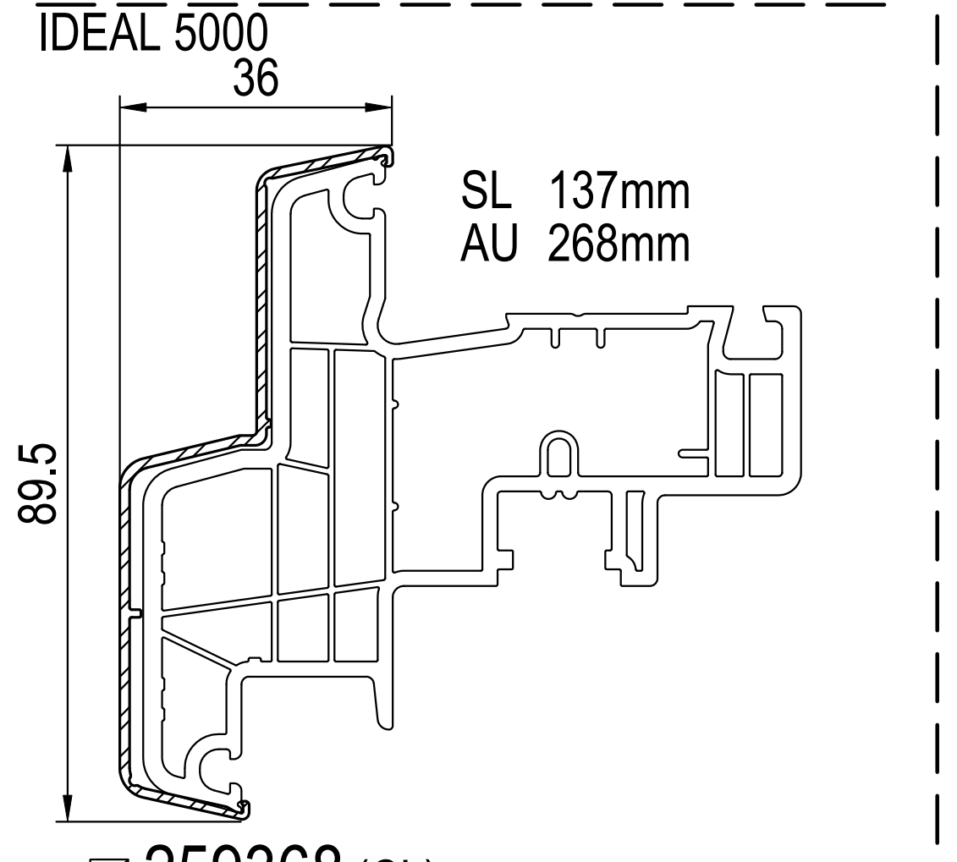
☐ 249366 (CL)
-> 140x66 (CL)
-> 140x67 (SL)

IDEAL 4000 / 7000



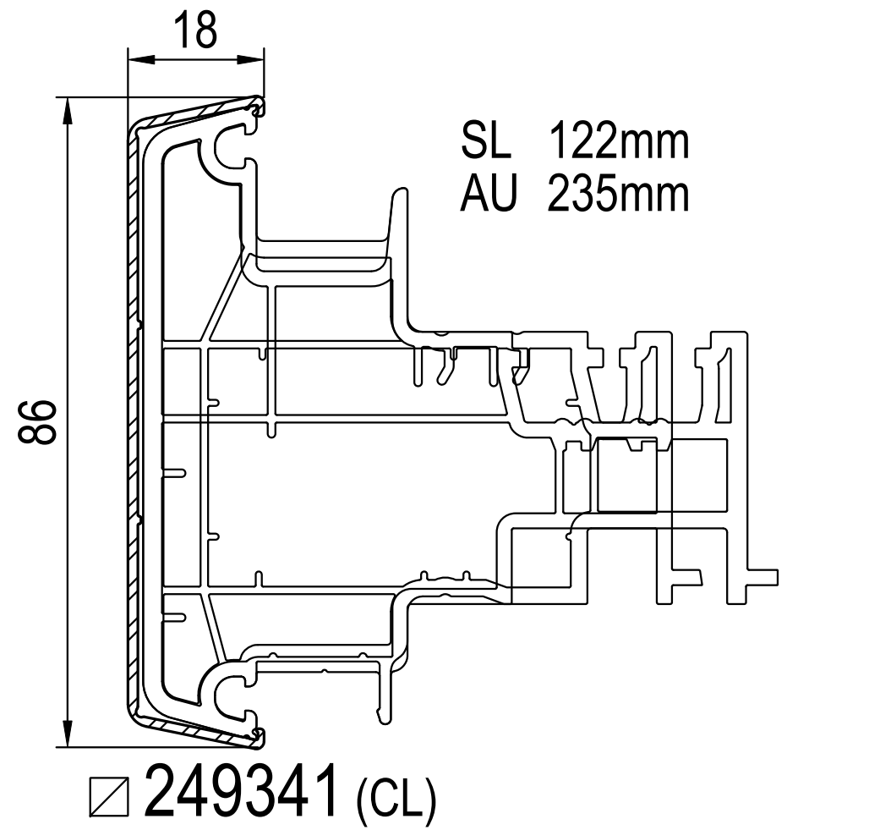
☐ 249365 (CL)
-> 140x65 (CL)
-> 170x65 (CL)

IDEAL 5000

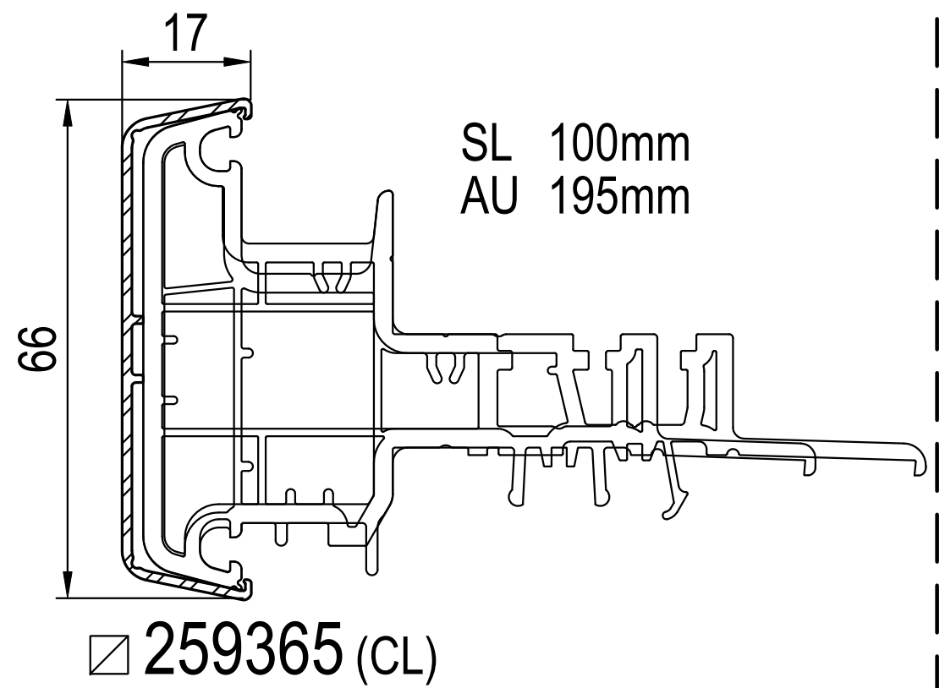


☐ 259368 (CL)
-> 150x68 (CL)

IDEAL 5000 / 8000

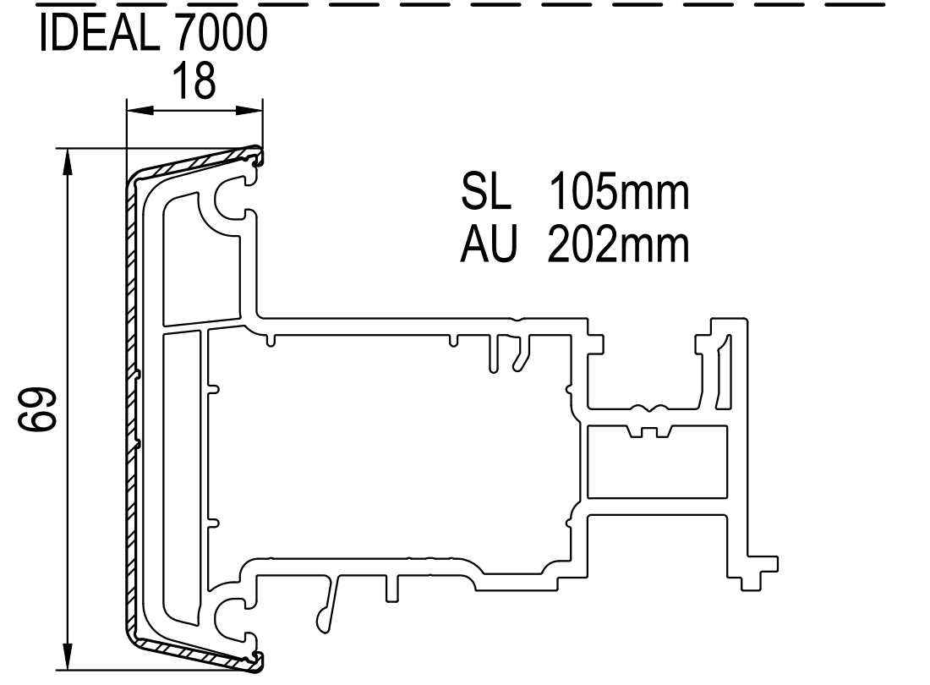


☐ 249341 (CL)
-> 150x67 (CL)
-> 180x66 (CL)
+ Mullions / Transoms
-> 140x41 (CL)



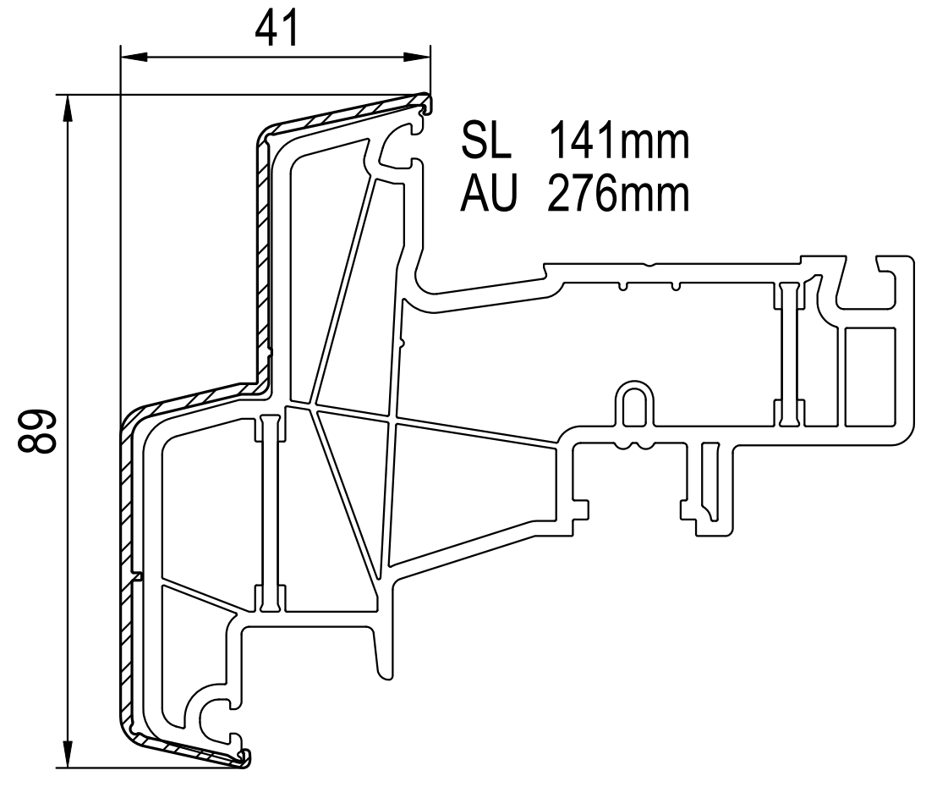
☐ 259365 (CL)
-> 150x65 (CL)
-> 180x64 (CL)

IDEAL 7000

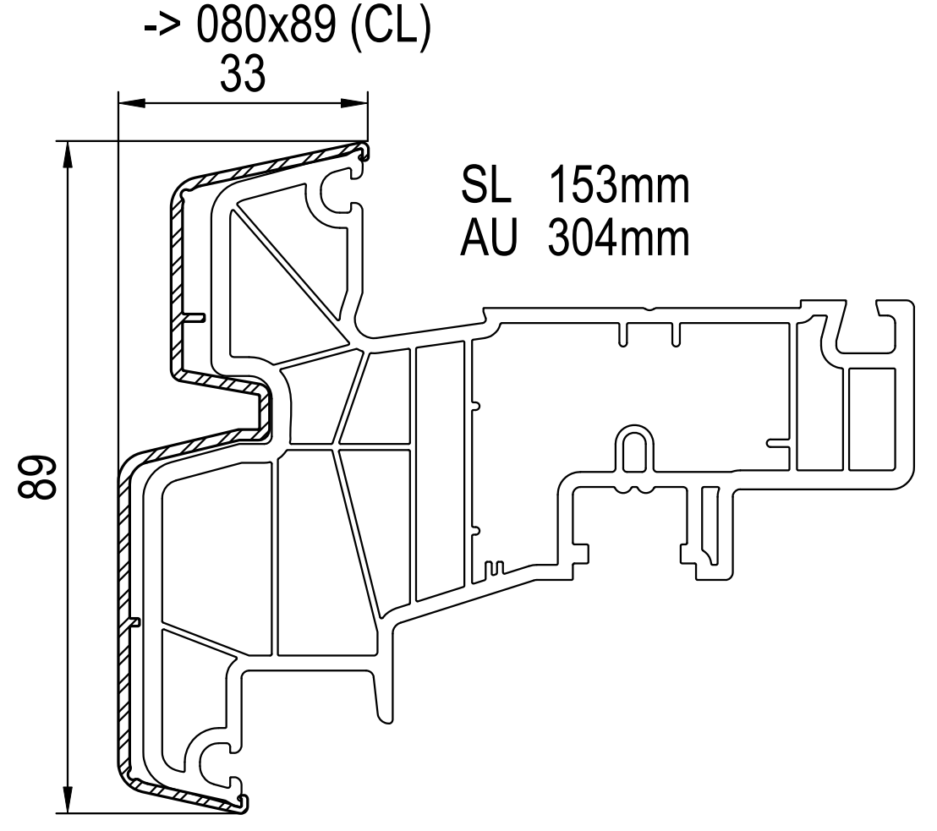


☐ 279364 (CL)
-> 170x64 (CL)

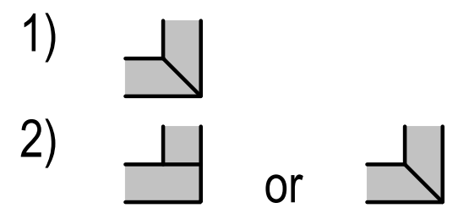
IDEAL 8000



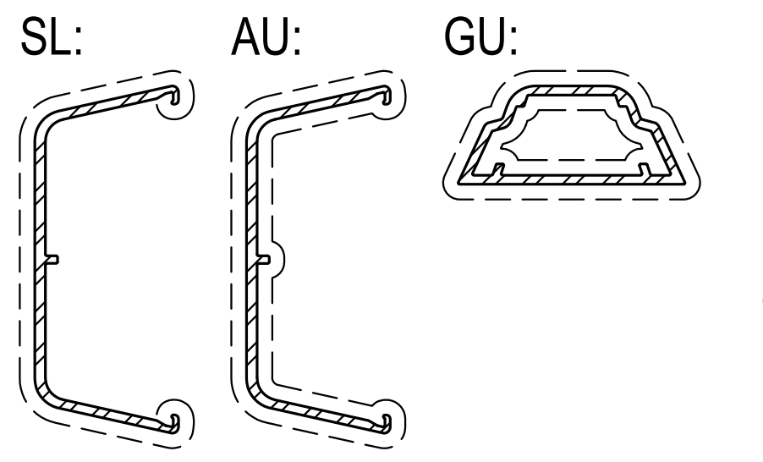
☐ 289489 (CL)
-> 080x89 (CL)



☐ 289369 (CL)
-> 180x69 (CL)


1)
2) or

SL visible length
AU exterior perimeter
GU overall perimeter



☐ not laminated
■ laminated

-> for

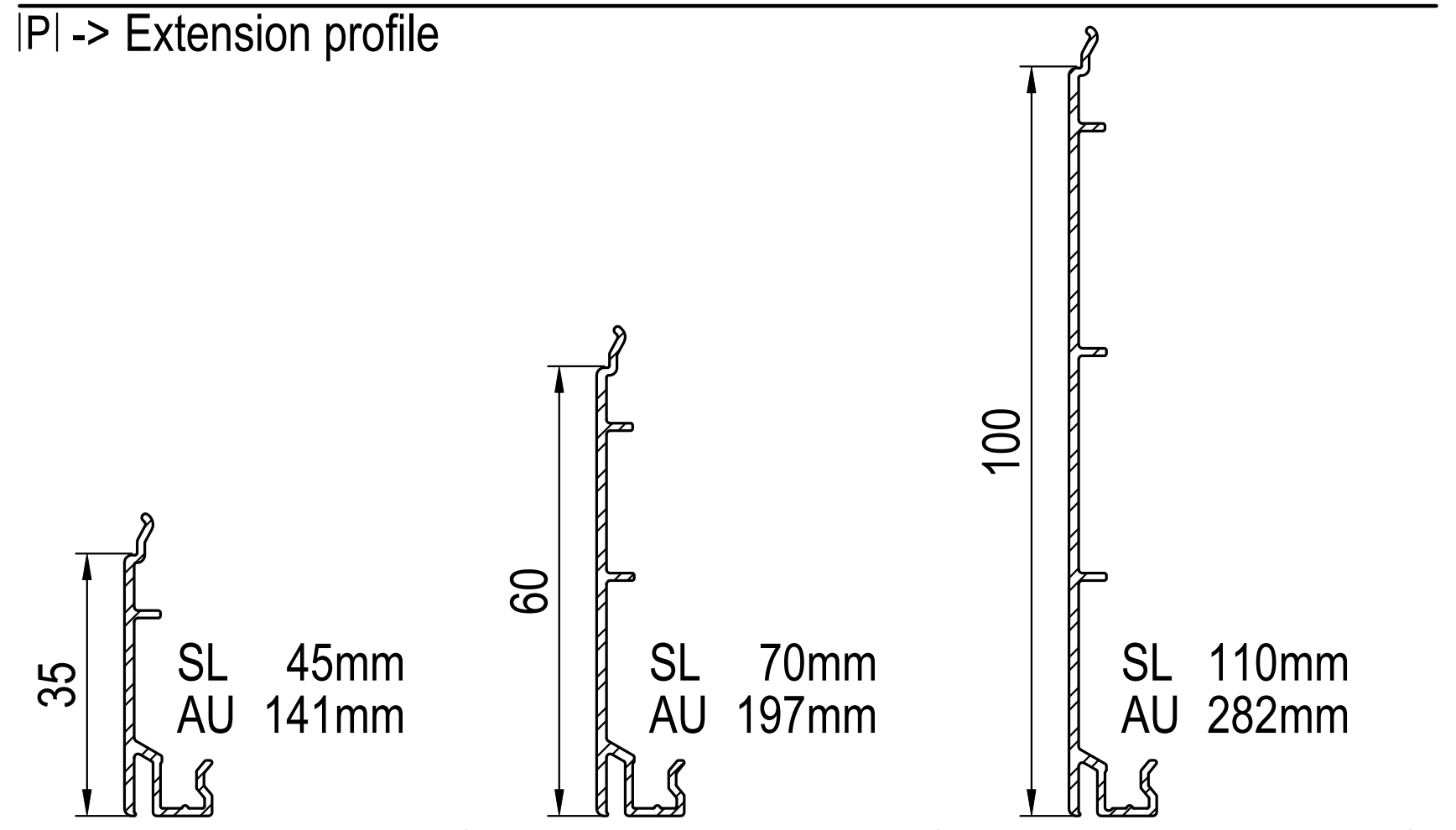
(CL) Classic-line
(SL) Soft-line

bl black
pw papyrus-white
gn green

+ |P| see plan:
energeto 5000 view

Additional Profiles

|P| -> Extension profile

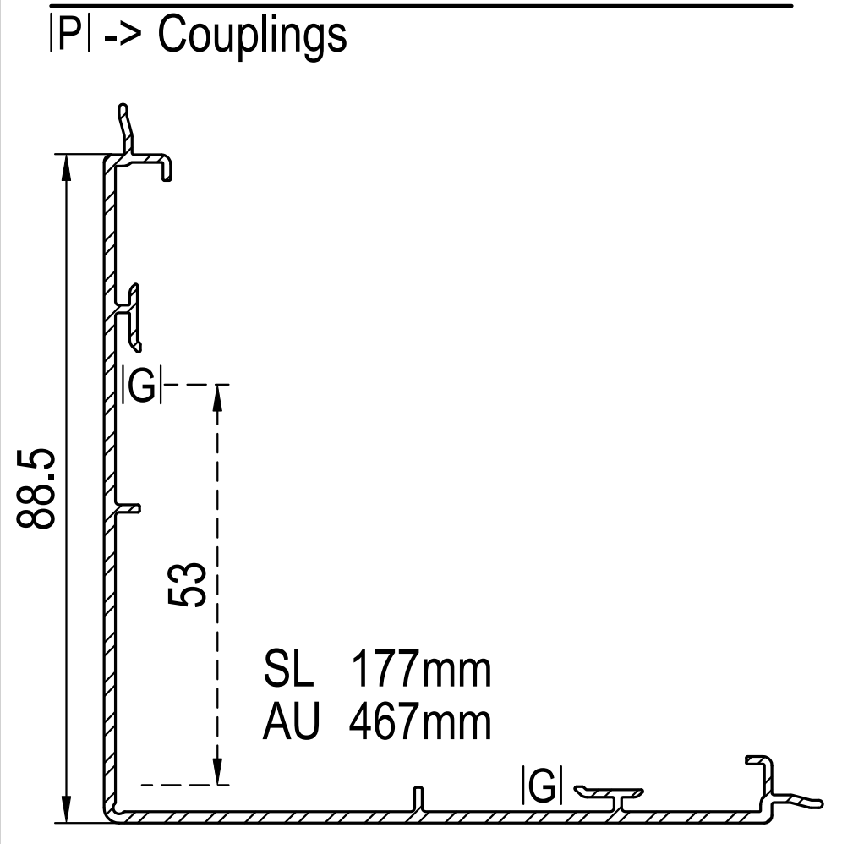


☐ 249335 (CL) 2)
-> 120242, 140205, 180201

☐ 249360 (CL) 2)
-> 120221, 140207, 180203

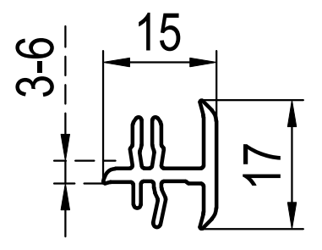
☐ 249310 (CL) 2)
-> 140208, 180204

|P| -> Couplings



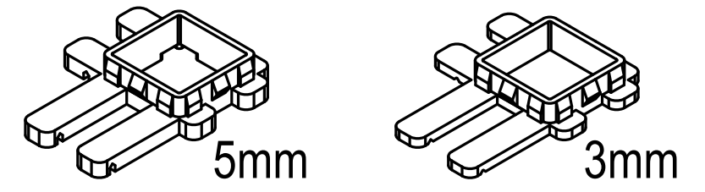
☐ 249448 (CL)
|G| 654930
-> 140248

Couplings -> |P|



■ 120224
|H| 642025, 645050

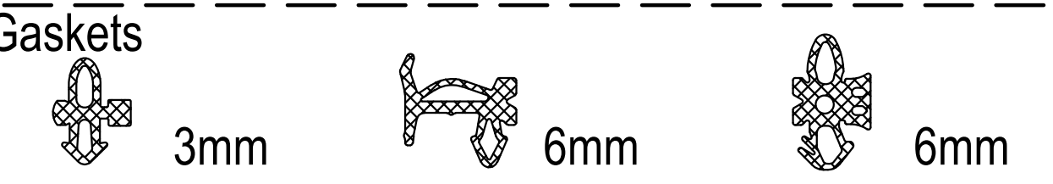
|H| Installation / mounting anchor



645050 gn
-> 120224

642025 bl
-> 120224
|X| 447140, 449140

|X| Gaskets

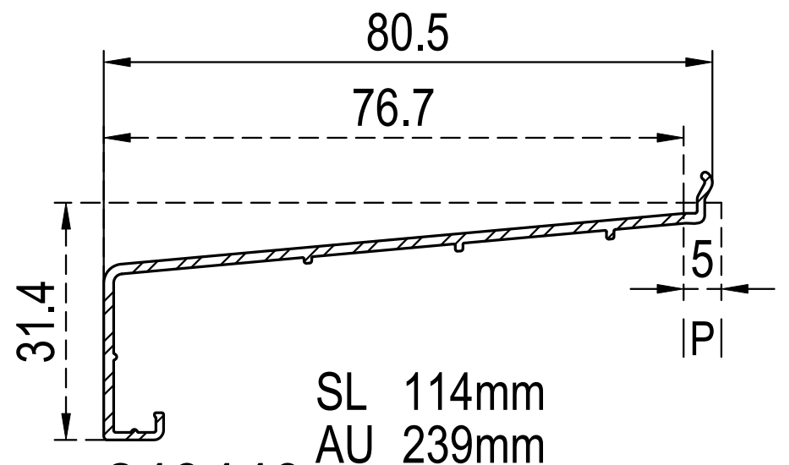


449140 bl
447140 pw
|H| 642025

449142 bl
\- pw
|X| 447141, 449141

449141 bl
447141 pw
|X| 449142

|P| -> Exterior window sills



☐ 249449 aluminium
-> 120249 ->70mm

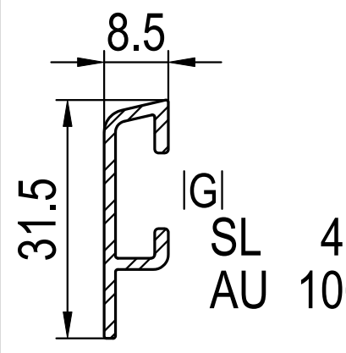
|R| Aluminium roller shutter guides + Accessories see plan Additional Profiles:

260406, 260407	4/4
259305 -> |P| 259304, 259404, 289304	4/4

|S| Aluminium profiles + Accessories see plan Additional Profiles:

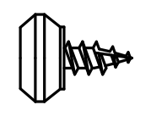
229080, 249301, 259308	1/4
270044, 270045, 279044, 279045, 289210, 289211	2/4
229246	3/4
257306 -> |P| **aluskin**	4/4

|T| Aluminium weather bar



☐ 259082 (CL)
|G| 659923

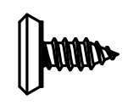
|G| Nipple screw / Clip



659923
-> aluminium
-> |T| 259082

Accessories

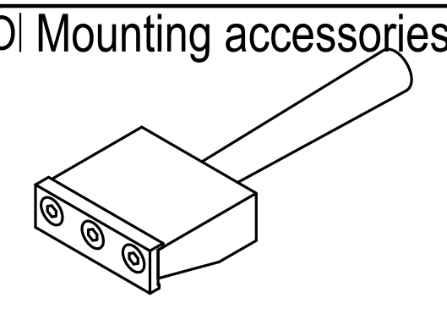
|G| Nipple screw / Clip



654930
-> aluminium
-> |P| ...

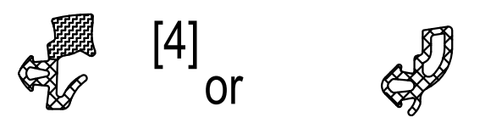
... 209391, 249312, 249313, 249314, 249448, 259304, 259311, 259403, 259404, 279402, 289304, 289313, 289314

|O| Mounting accessories



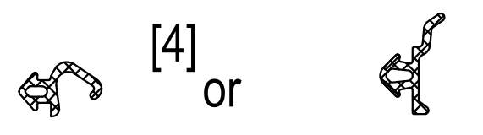
640951
-> |P| **aluskin**

|X| Gaskets



459951 bl
\- pw
-> Glazing

449986 bl
447986 pw
-> Glazing



429320 bl
\- pw
-> Stop

449347 bl
447347 pw
-> Stop
-> Glazing
Frame / Mullion

[...] compression

REINFORCEMENTS

aluplast GmbH | uPVC window profile systems
Auf der Breit 2 | DE - 76227 Karlsruhe
fon: +49 721 47171-0 | fax: -999
info.de@aluplast.net | www.aluplast.net

|F| Reinforcements

-> for

IDEAL 8000
IDEAL 7000
IDEAL 5000
energeto 5000 view
IDEAL 4000
IDEAL 2000
Lift-and-slide door
  lift-slide
Sliding Window
  smart-slide
  multi-slide
  vario-slide
  easy-slide
  mono-slide
Additional Profiles

IDEAL 8000 NL
IDEAL 7000 NL
IDEAL 4000 NL
Nord-line
Folding Shutter

---

x y y x = Ix | Iy

Depending on the installation situation, some reinforcements may have to be turned 90°.

In this case, the Ix- and Iy-values have to be exchanged:

+90° = Ix | Iy **or** Iy | Ix

---

1) (aluminium) x 1/3 ~ Ix | Iy steel
steel ≠ aluminium = (Ix) | (Iy) [cm^4]

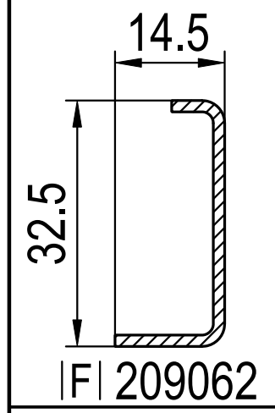
2) punched out

3) pierced hole

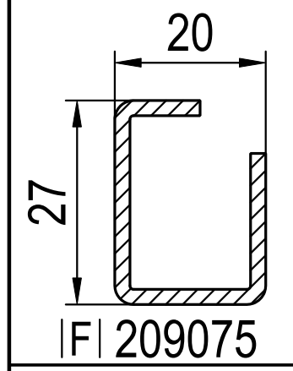
|E| Corner connector
|O| Mounting accessories
see plan:
Accessories
IDEAL 2000 - 8000

|H| Installation / mounting anchor
see plan:
Additional Profiles
Structural profiles

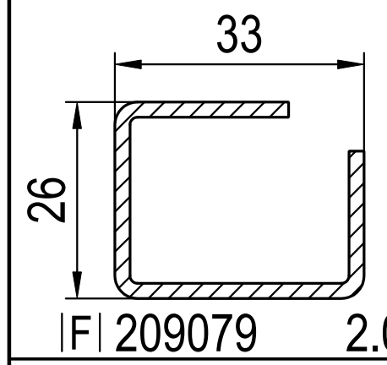
s [mm] | Ix [cm^4] | Iy [cm^4] | -> for

-> 100062


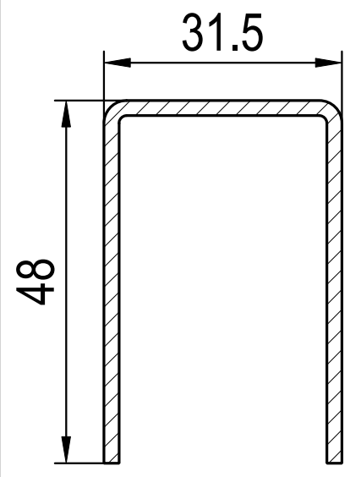
|F| 209062 1.5mm 0.1 1.0

-> 100075


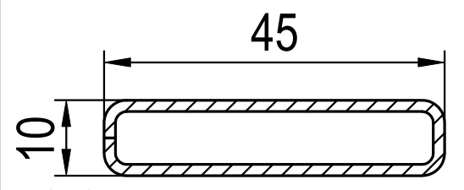
|F| 209075 2.0mm 0.8 1.2

-> 100079


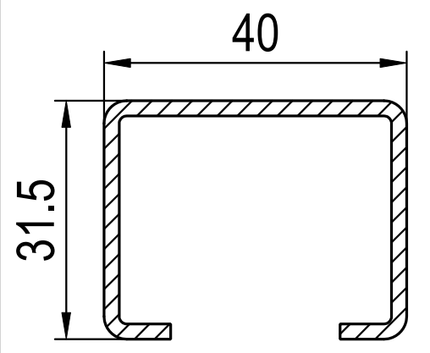
|F| 209079 2.0mm 2.6 1.8

-> 100x86


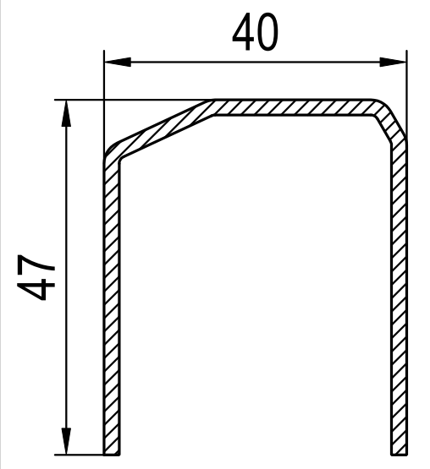
|F| 209086 1.25mm 3.0 3.8
|F| 209087 2.0mm 4.5 5.8

-> 100097, 100098


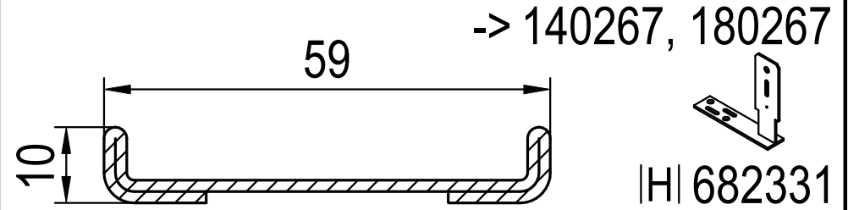
|F| 209121 1.5mm 3.0 0.2

-> 100x94


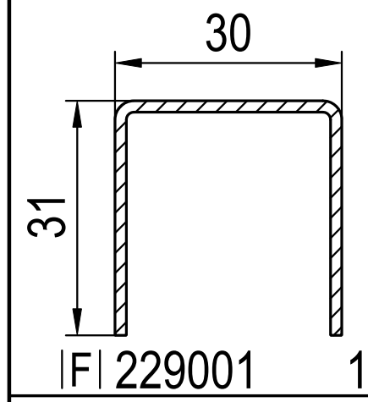
|F| 209294 2.0mm 5.7 2.8

-> 100x92


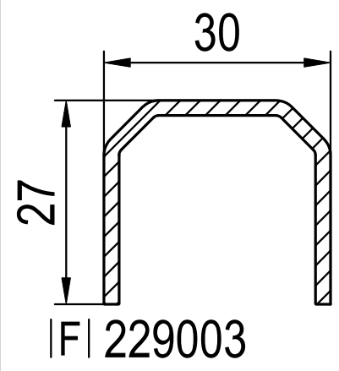
|F| 209192 1.25mm 4.6 3.5
|F| 209193 2.0mm 7.0 5.5

-> 140267, 180267


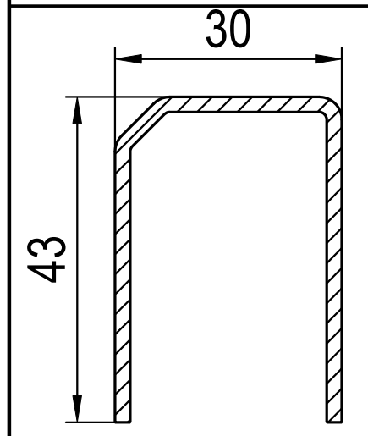
|H| 682331
|F| 209900 1.5mm 7.3 0.08

-> 120x07, 120x18


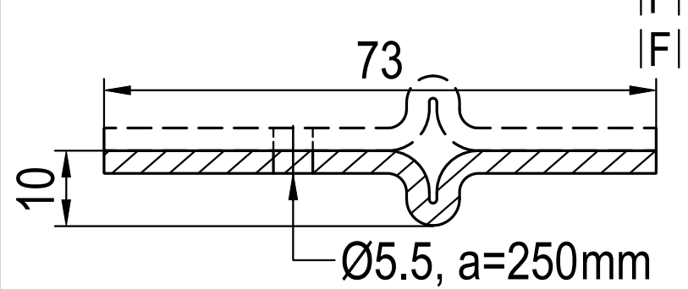
|F| 229001 1.5mm 2.1 1.3

-> 100x72


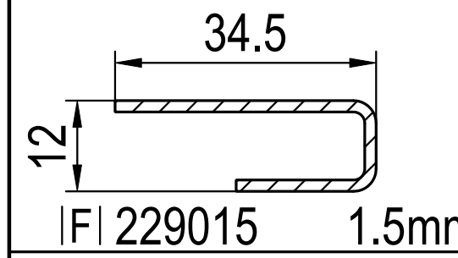
|F| 229003 1.5mm 1.6 0.8
|F| 229004 2.0mm 2.1 1.1

-> 100x74


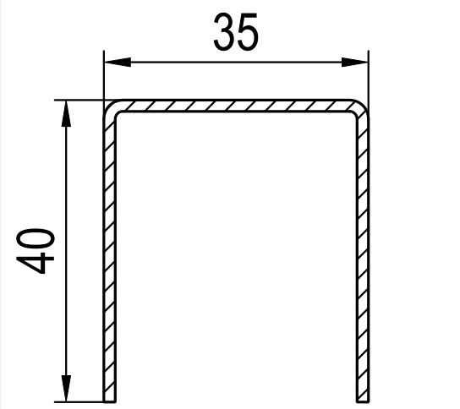
|F| 229005 2.0mm 3.5 4.1

-> 120230, |F| 229018, |F| 289218


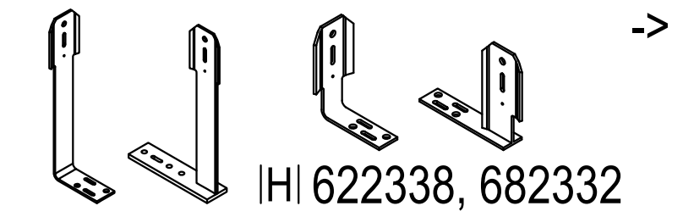
3) pierced hole
|F| 229010 3) 3.0mm 9.9 0.1
|F| 229010 3) 2x 3.0mm 19.7 0.2

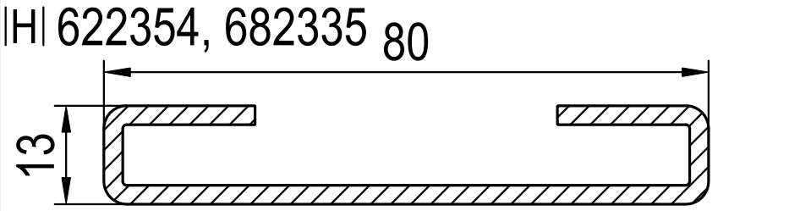
-> 170x81
-> RC2


|F| 229015 1.5mm 0.9 0.2

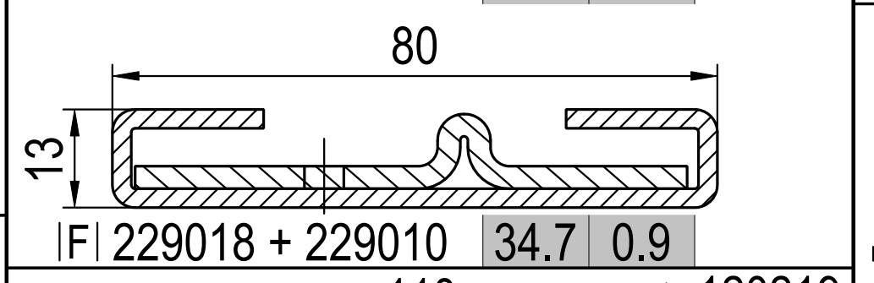
-> 140x03, 140207, 170x03


|F| 229017 1.5mm 3.7 2.8

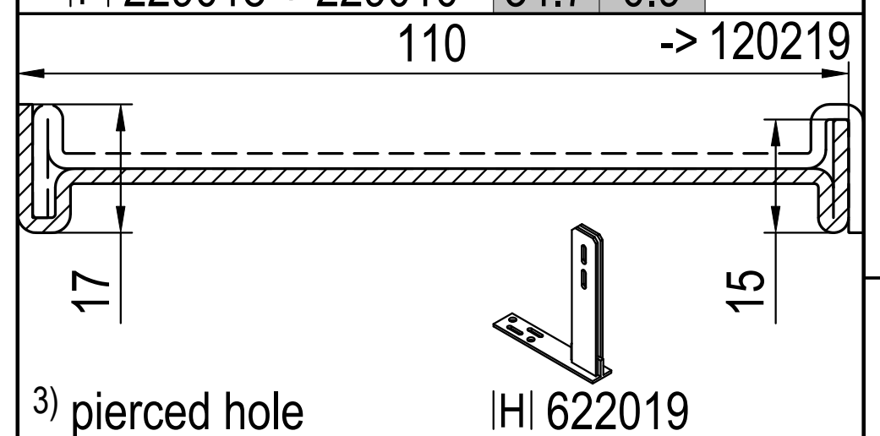
-> 120218, 140218, 180218

|H| 622338, 682332
|H| 622354, 682335



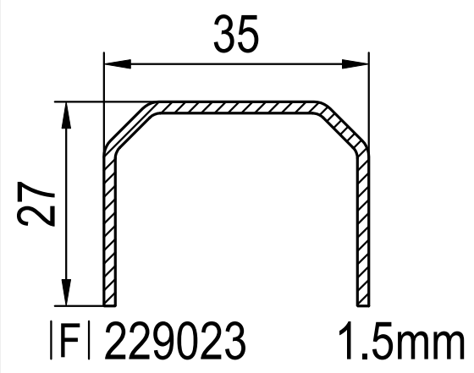
|F| 229018 2.5mm 24.8 0.8



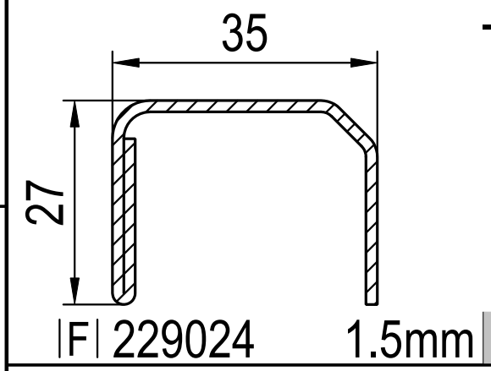
|F| 229018 + 229010 34.7 0.9

-> 120219


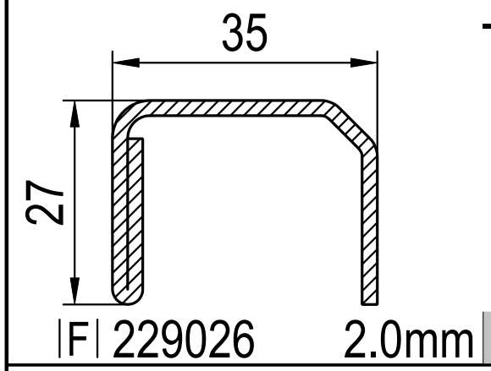
3) pierced hole |H| 622019
|F| 229019 3) 2.0mm 43.3 0.2
|F| 229019 3) 2x 2.0mm 86.6 0.4

-> 100090, 120x05, 120x18, 120x22, 140x00, 140x01, 140x08, 140x12, 140x14, 140x16, 140x18, 140x19, 140x22


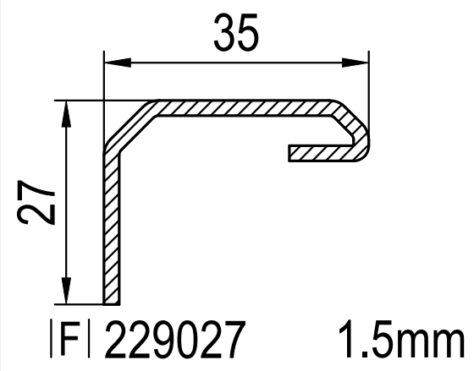
|F| 229023 1.5mm 2.3 0.9
|F| 229025 1.0mm 1.6 0.6

-> 100090, 120x05, 120x22, 140x00, 140x01, 140x08, 140x12, 140x14, 140x16, 140x18, 140x19, 140x22


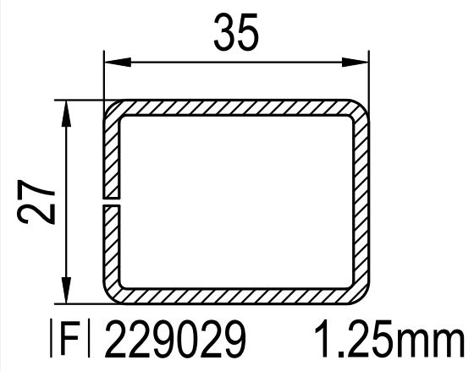
|F| 229024 1.5mm 3.0 1.1

-> 100090, 120x05, 120x22, 140x00, 140x01, 140x08, 140x12, 140x14, 140x16, 140x18, 140x19, 140x22


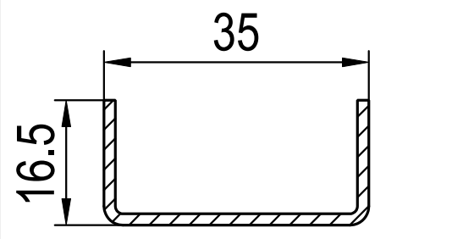
|F| 229026 2.0mm 3.8 1.5

-> 120x22, 140x82


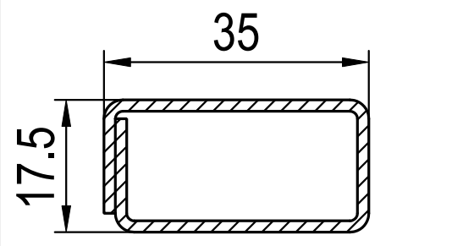
|F| 229027 1.5mm 1.7 0.6
|F| 229028 2.0mm 2.1 0.8

-> 100090, 120x05, 140x00, 140x01, 140x08, 140x12, 140x14, 140x16, 140x18, 140x19, 170x64, 180x66


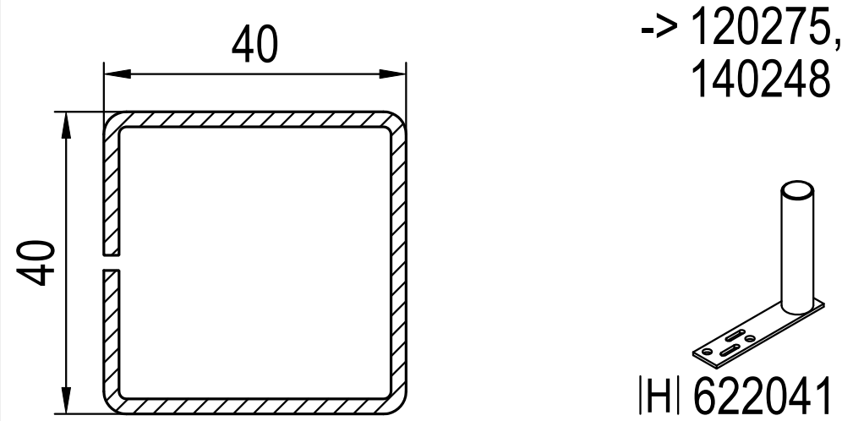
|F| 229029 1.25mm 2.5 1.7
|F| 229030 2.0mm 3.7 2.5

-> 110x10, 120x91


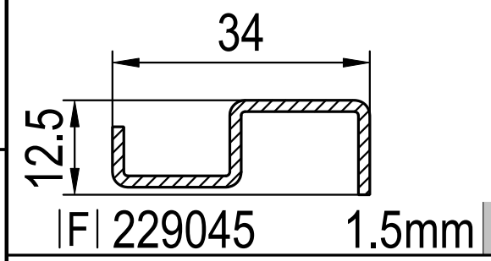
|F| 229034 1.5mm 1.7 0.3

-> 100091, 110x10, 110x99, 120x39, 120x57, 120x59, 120x91, 150x11, 150x110000011, 180x15, 180x46


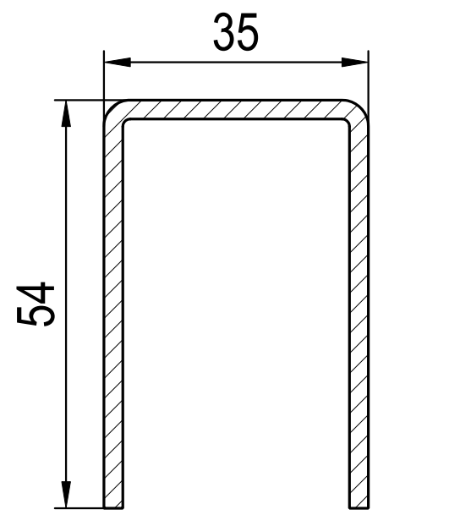
|F| 229037 1.5mm 2.5 0.7

-> 120275, 140248


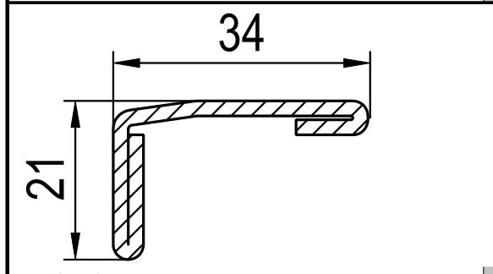
|H| 622041
|F| 229040 2.0mm 7.0 7.0

-> 150x10


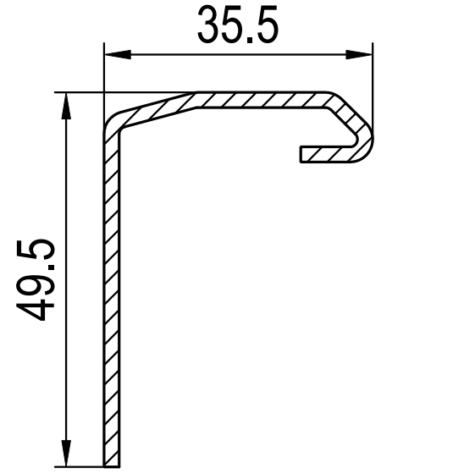
|F| 229045 1.5mm 1.1 0.2

-> 120x30, 120x31


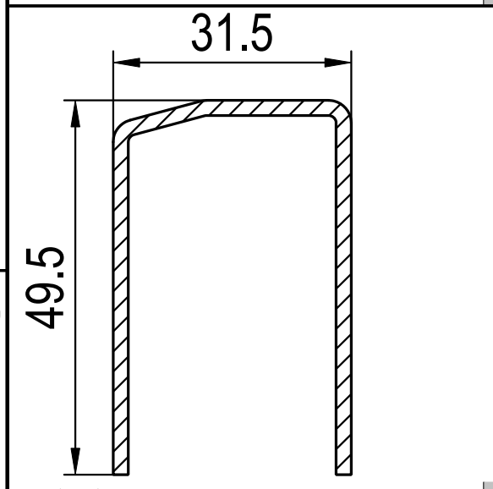
|F| 229050 1.5mm 4.9 6.4
|F| 229051 2.5mm 7.6 10.3

-> 120x26, 120x86


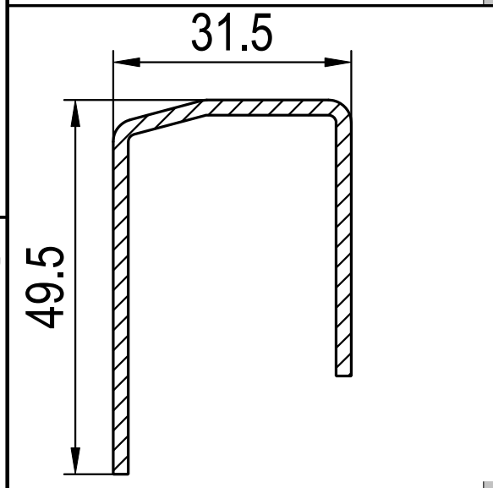
|F| 229055 2.0mm 2.0 0.6

-> 120x32, 120x82


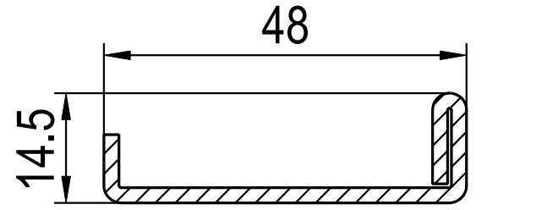
|F| 229056 2.0mm 2.8 4.2

-> 120x32


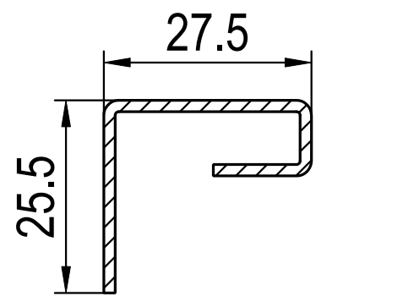
|F| 229057 2.0mm 4.5 6.1

-> 120x82


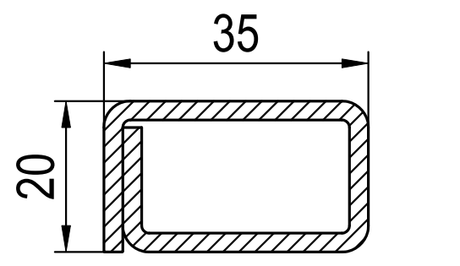
|F| 229058 2.0mm 3.9 4.6

-> 120x63, 140x66, 180x64


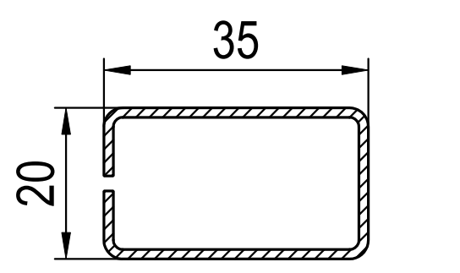
|F| 229063 2.0mm 4.3 0.2

-> 110x93


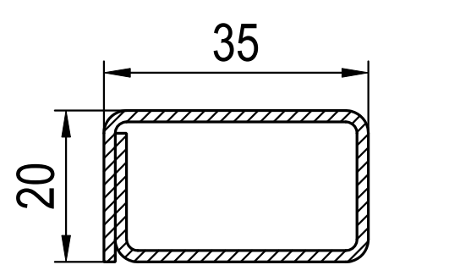
|F| 229093 1.5mm 1.1 0.5

-> 120x41, 120x45, 140x05, 140x09, 140x090000011, 140x15, 140x17, 140x41, 140x47, 150x02, 180201


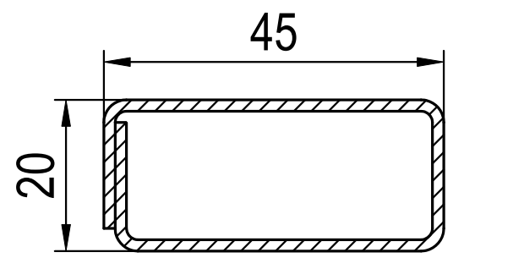
|F| 229098 2.5mm 4.1 1.5

-> 120x41, 120x45, 140x05, 140x09, 140x090000011, 140x15, 140x17, 140x41, 140x47, 150x02, 180201


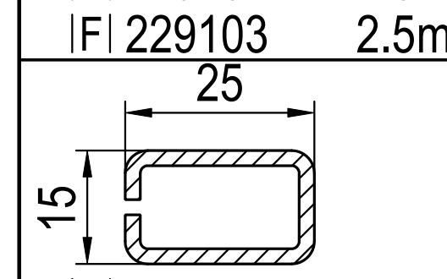
|F| 229100 1.25mm 2.0 0.8

-> 120x41, 120x45, 140x05, 140x09, 140x090000011, 140x15, 140x17, 140x41, 140x47, 150x02, 180201


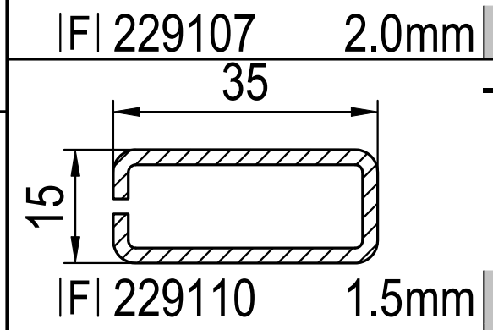
|F| 229101 1.5mm 2.8 1.0

-> 100090, 180x44


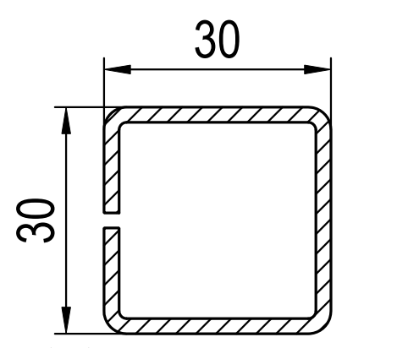
|F| 229102 1.5mm 5.1 1.2
|F| 229103 2.5mm 7.3 1.8

-> 100x73, 100x78, 120230, 150x65, 190298


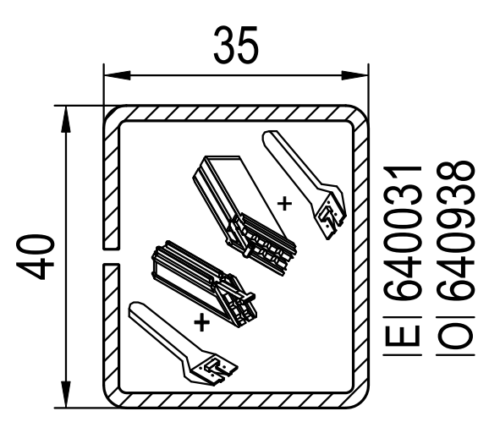
|F| 229107 2.0mm 1.0 0.4 +90°

-> 110x06, 110x08, 110x09, 120x19, 120223, 120242, 140205


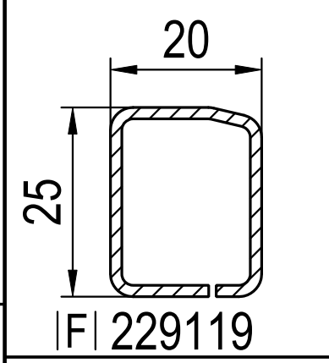
|F| 229110 1.5mm 1.8 0.5
|F| 229111 2.0mm 2.3 0.6

-> 120x07, 120x18, 140x08


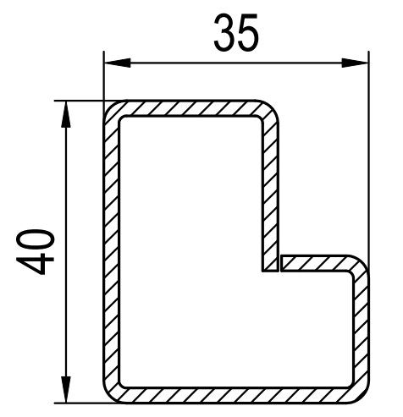
|F| 229112 1.0mm 1.5 1.5
|F| 229113 2.0mm 2.7 2.7

-> 120x300000096, 120x310000096, 120109, 120221, 120223, 140x03, 140206, 140207, 140208, 150x30, 150x31, 170x03, 170x81, 180x30, 180x31, 180203, 180204


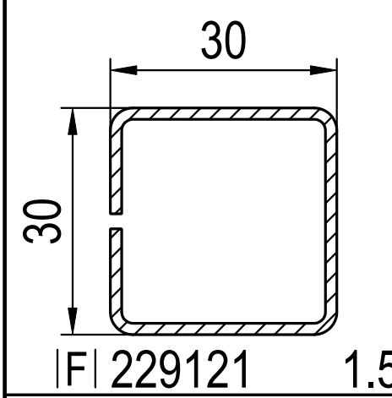
|E| 640031 + 640938
|F| 229114 1.5mm 4.0 5.0 +90°
|F| 229115 2.0mm 5.0 6.4 +90°

-> 119x95


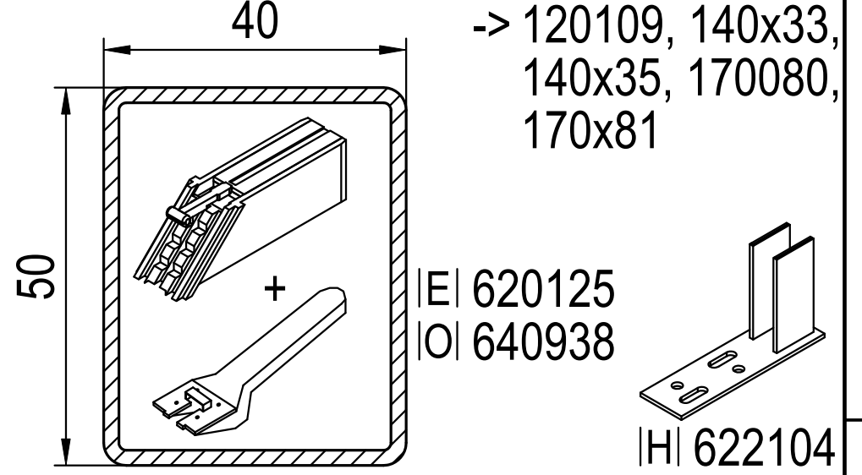
|F| 229119 1.5mm 0.7 1.0 +90°

-> 140x03, 170x03


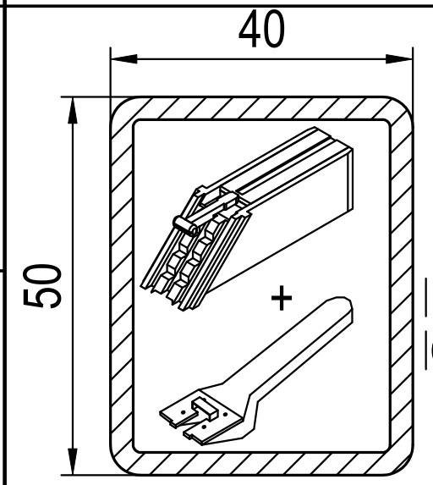
|F| 229120 2.0mm 4.0 5.4

-> 120x07, 120x18, 140x08


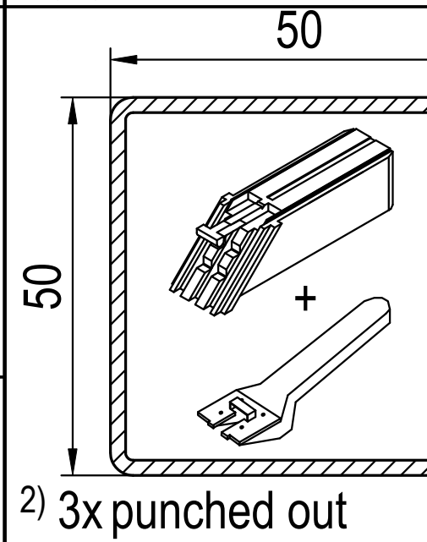
|F| 229121 1.5mm 2.1 2.1

-> 120109, 140x33, 140x35, 170080, 170x81


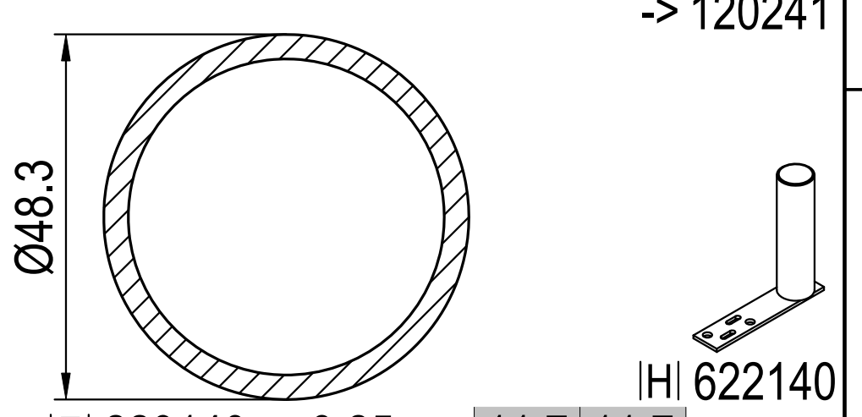
|E| 620125
|O| 640938
|H| 622104
2) 5x punched out -> 3x, 5x -> 120109
|F| 229125 2.0mm 8.5 12.1 +90°
|F| 229129 2) 2.0mm 8.5 12.1 +90°

-> 120109, 140x33, 140x35, 170080, 170x81


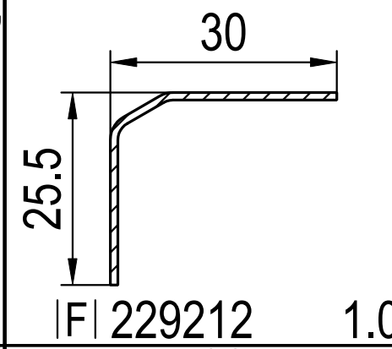
|E| 620126
|O| 640938
2) 5x punched out -> 3x, 5x
|F| 229126 3.0mm 11.8 16.8 +90°
|F| 229131 2) 3.0mm 11.8 16.8 +90°

-> 140x38, 170x33, 170x35, 170x36, 170x39


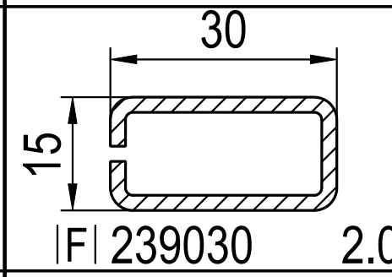
|E| 640038
|O| 640938
2) 3x punched out
|F| 229135 2.0mm 14.4 14.4
|F| 229137 2) 2.0mm 14.4 14.4

-> 120241


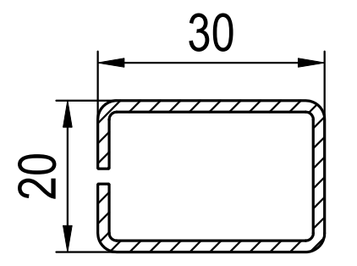
|H| 622140
|F| 229140 3.25mm 11.7 11.7

-> 110x93


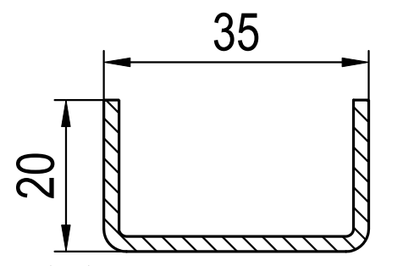
|F| 229212 1.0mm 0.5 0.3

-> 100x65, 120x52, 120238


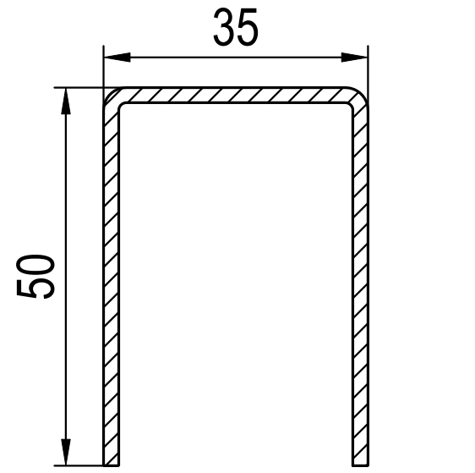
|F| 239030 2.0mm 1.5 0.5

-> 120238, 140200, 190246


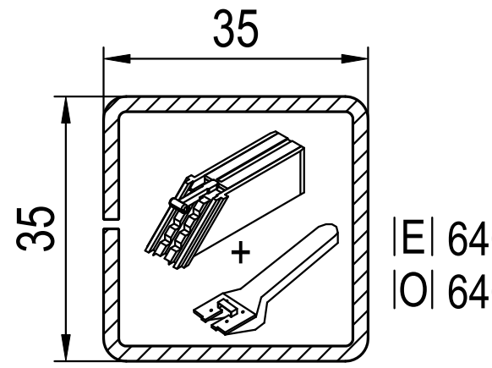
|F| 239129 1.5mm 1.6 0.9 +90°

-> 140x05, 140x09, 140x090000011, 140x15, 140x17, 150x02


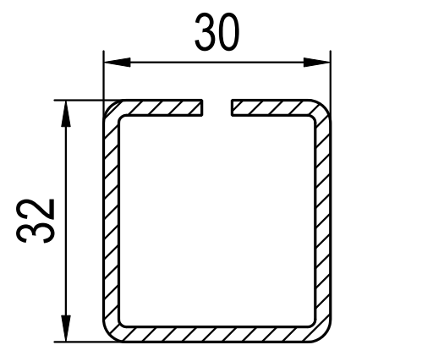
|F| 249004 2.0mm 2.6 0.5

-> 140x34


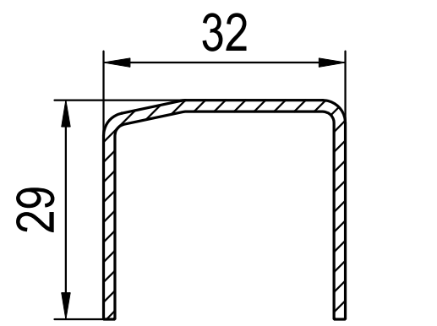
|F| 249007 2.0mm 5.9 6.8

-> 140x34, 140x84


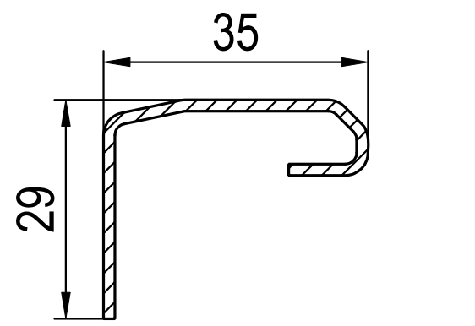
|E| 640032
|O| 640938
|F| 249009 2.0mm 4.5 4.5

-> 140x070000098, 150x030000098, 170x020000098, 180x040000098, 180x050000098


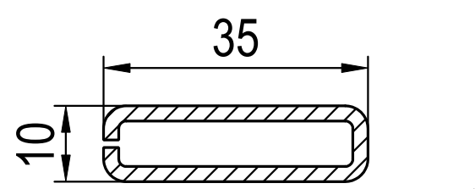
|F| 249014 1.25mm 2.0 2.0 +90°
|F| 249015 2.0mm 3.0 3.1 +90°

-> 070x20, 140x070000098, 140x20, 140x27, 150x030000098, 170x020000098, 170x20, 180x040000098, 180x050000098


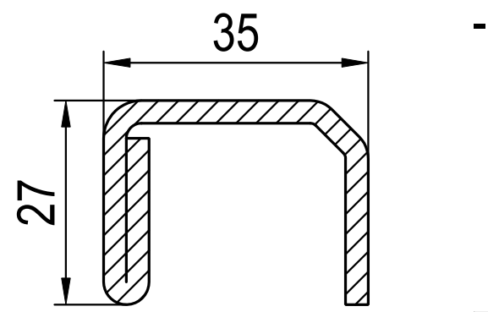
|F| 249016 1.5mm 2.2 1.1 +90°

-> 140x20, 140x27, 140x76


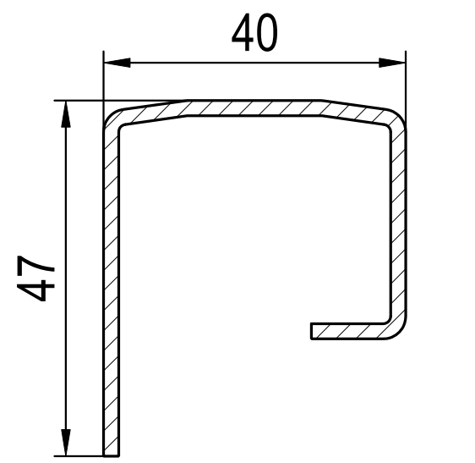
|F| 249017 1.5mm 1.9 0.7

-> 100x78, 100084


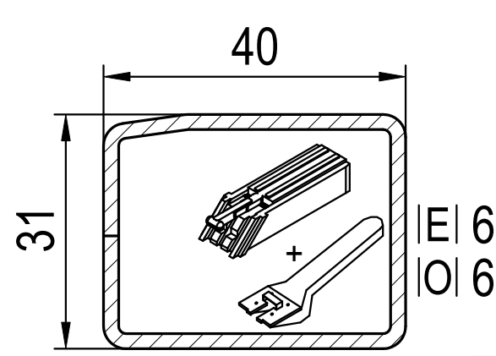
|F| 249019 2.0mm 1.8 0.2

-> 100090, 120x05, 120x22, 140x00, 140x01, 140x08, 140x12, 140x14, 140x16, 140x18, 140x19, 140x22


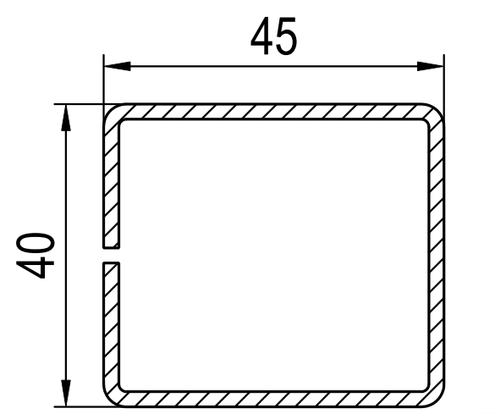
|F| 249026 3.0mm 5.1 2.1

-> 140x28, 140x29, 140x78


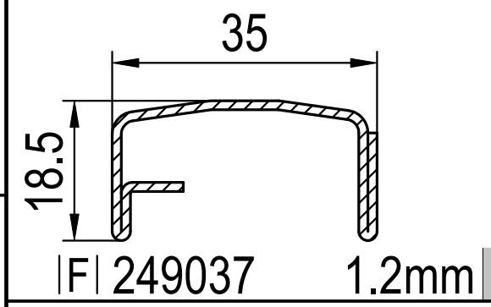
|F| 249028 2.0mm 6.4 4.6

-> 140x28, 140x29


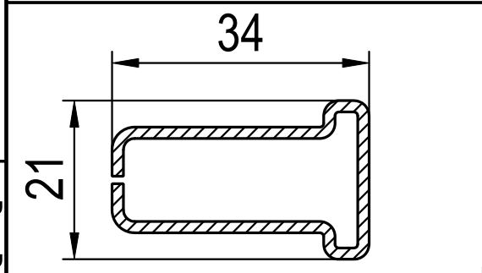
|E| 640029
|O| 640938
|F| 249029 2.0mm 5.7 3.8

-> 140x45, 140x81, 170x44


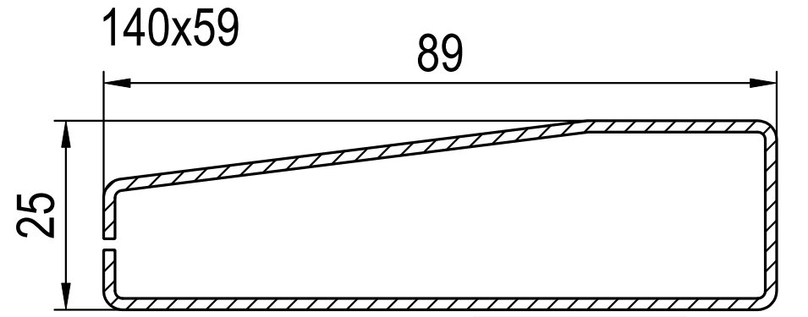
|F| 249034 1.25mm 6.1 5.2
|F| 249035 2.0mm 9.2 7.8

-> 140x37


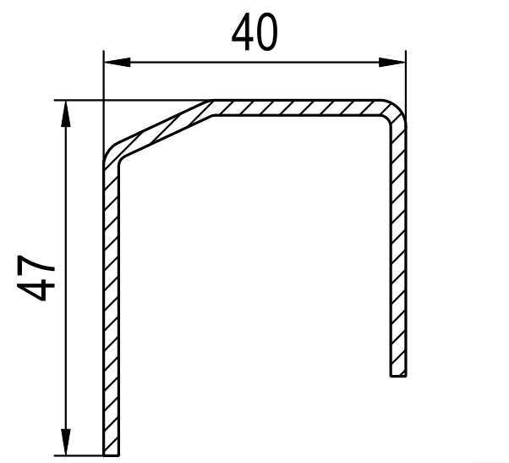
|F| 249037 1.2mm 2.1 0.4

-> 140x46, 140x48


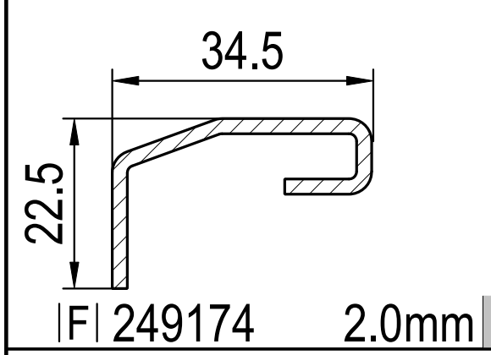
|F| 249046 1.5mm 2.0 0.6

-> 140x53, 140x54, 140x55, 140x57, 140x59


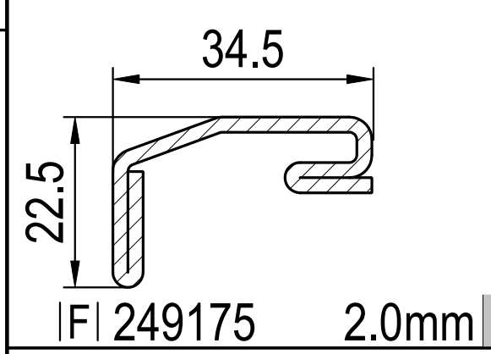
|F| 249054 1.5mm 26.7 3.1

-> 140x78


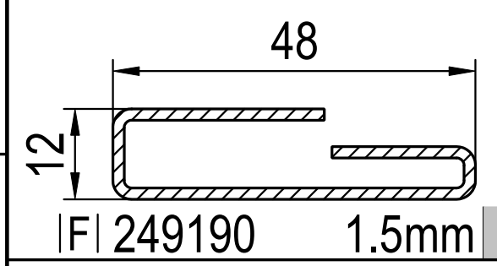
|F| 249078 2.0mm 6.3 4.3

-> 140x24, 140x74


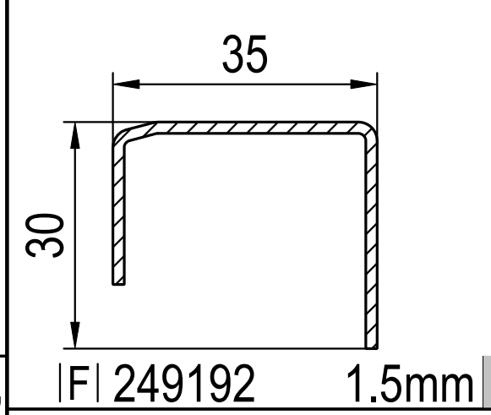
|F| 249174 2.0mm 2.0 0.4

-> 140x24, 140x74


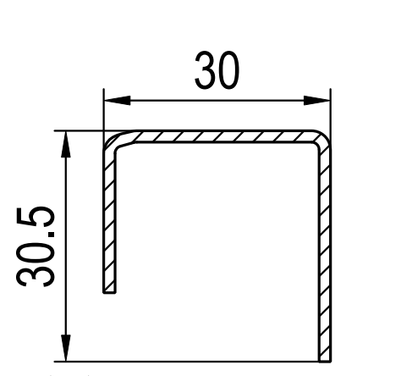
|F| 249175 2.0mm 2.8 0.6

-> 140x90


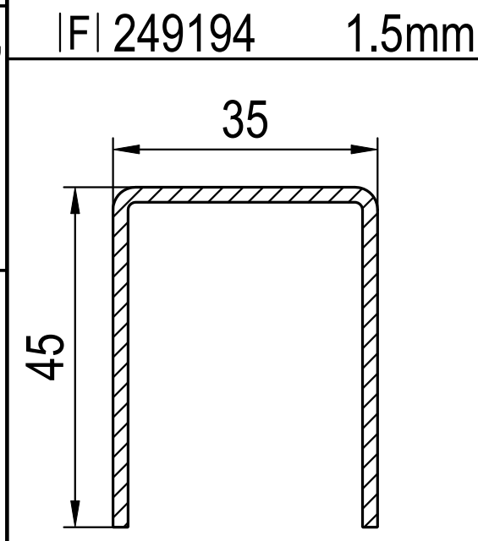
|F| 249190 1.5mm 3.5 0.3

-> 140x93


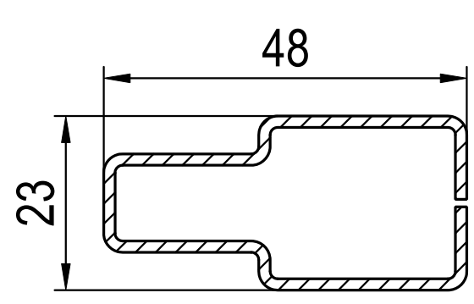
|F| 249192 1.5mm 2.4 0.9

-> 140x94


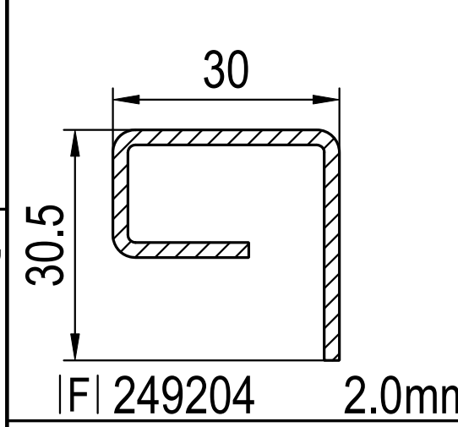
|F| 249194 1.5mm 1.7 0.9

-> 140x95


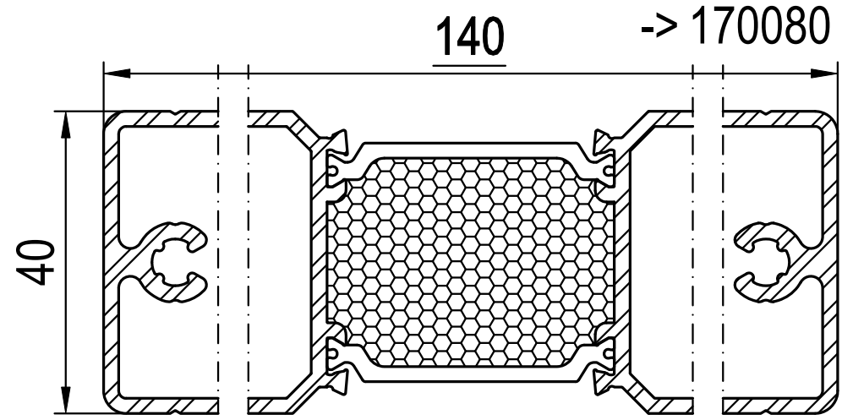
|F| 249195 2.0mm 5.3 5.1

-> 140x98, 140x99


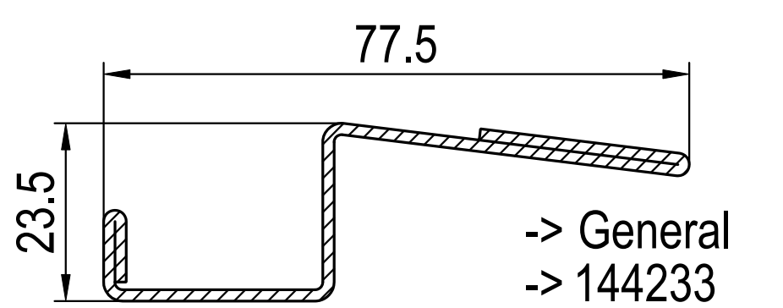
|F| 249198 1.5mm 4.8 1.3

-> 140x94


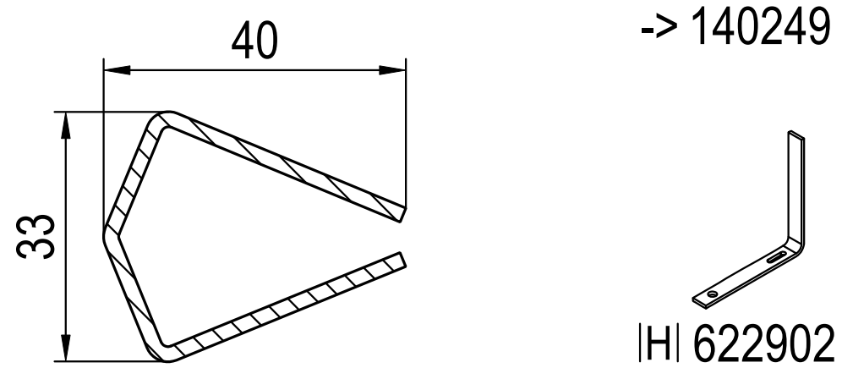
|F| 249204 2.0mm 2.2 1.2

-> 170080


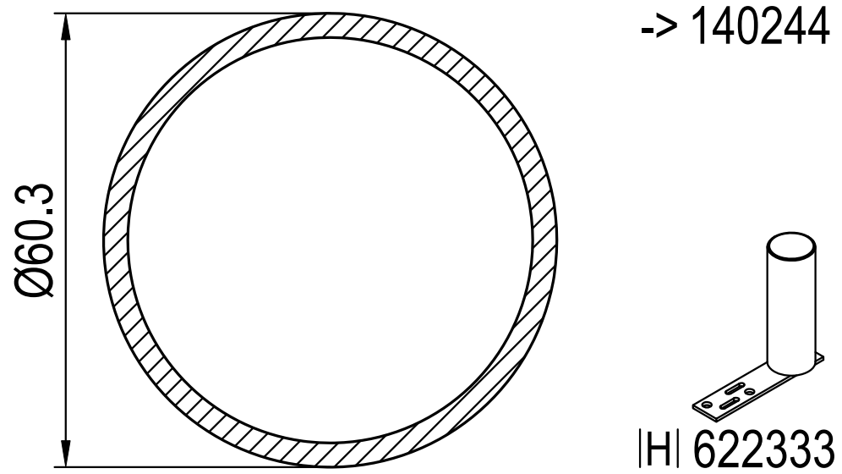
1) (aluminium) x 1/3 ~ 65 6.3 steel
|F| 249228 1) 2.0mm (197) (18.8) 6.7m



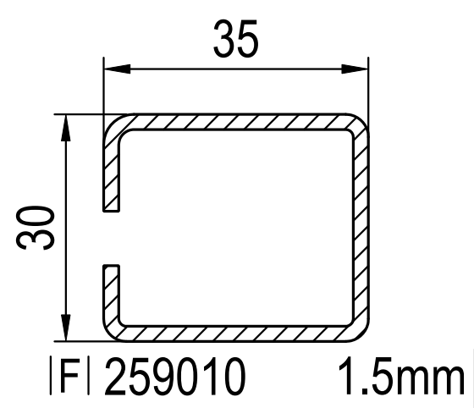
-> General
-> 144233
|F| 249234 1.5mm 12.6 1.5

-> 140249


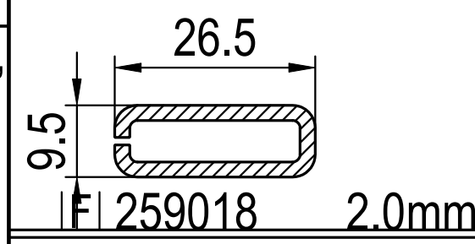
|H| 622902
|F| 249242 2.0mm 2.9 2.0 +90°

-> 140244


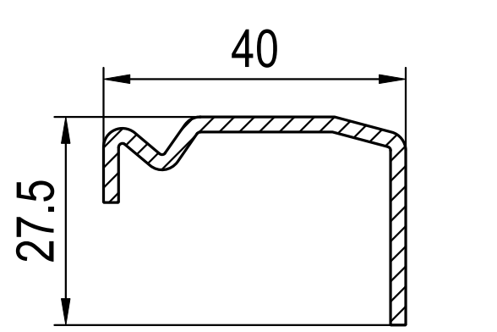
|H| 622333
|F| 249244 3.2mm 23.5 23.5

-> 140208


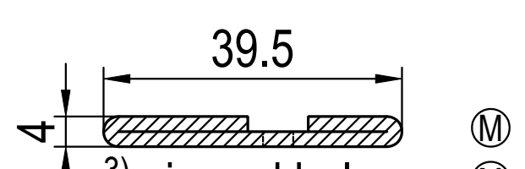
|F| 259010 1.5mm 2.7 2.5 +90°
|F| 259011 2.0mm 3.5 3.2 +90°

-> 100060, 100069, 100071, 110x96


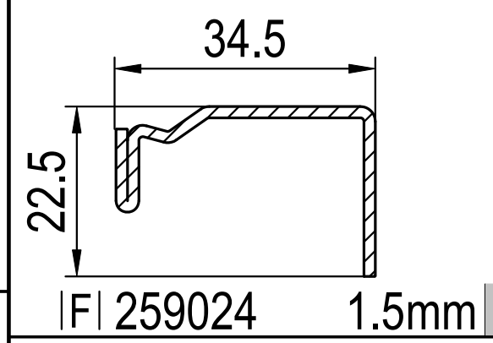
|F| 259018 2.0mm 0.8 0.2

-> 050x20, 070x20, 080x20, 140x20, 140x27, 150x20, 150x22, 150x26, 150x27, 150x68, 150x69, 170x20, 180x20, 180x26, 180x27, 180x69


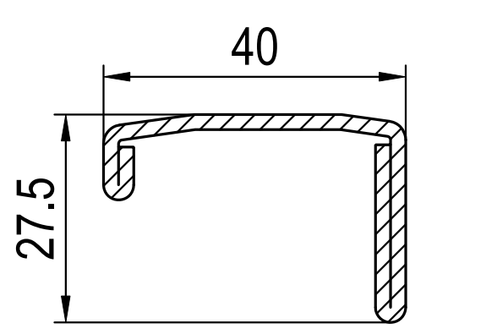
|F| 259020 1.25mm 2.1 0.5
|F| 259021 2.0mm 3.2 0.8

-> Sash
Ⓜ IDEAL 2000+8,
IDEAL 4000,
IDEAL 5000,
Ⓜ IDEAL 7000,
Ⓜ IDEAL 8000


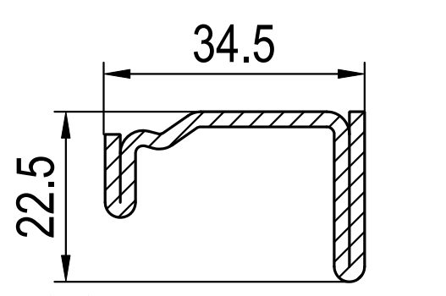
3) pierced hole
|F| 259023 3) 2.0mm 1.9 0.02 2.4m

-> 050x24, 140x24, 180x24


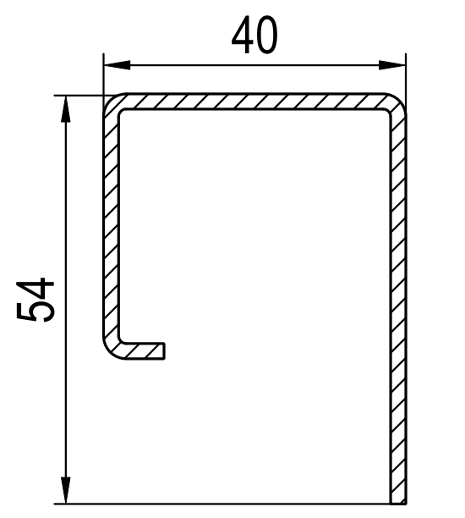
|F| 259024 1.5mm 2.0 0.4

-> 050x20, 070x20, 080x20, 140x20, 140x27, 150x20, 150x22, 150x26, 150x27, 150x68, 150x69, 170x20, 180x20, 180x26, 180x27, 180x69


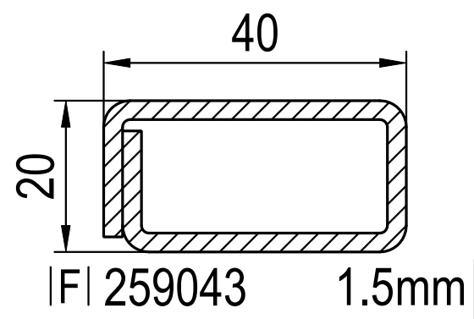
|F| 259026 2.0mm 4.3 1.3

-> 050x24, 140x24, 180x24


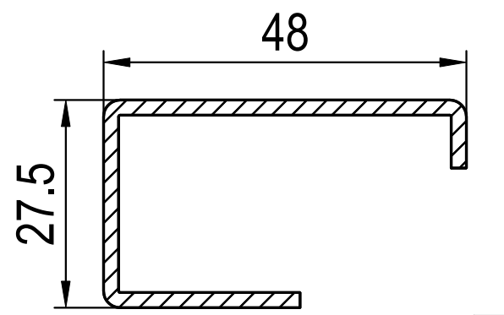
|F| 259028 2.0mm 3.0 0.7

-> 150x30, 150x31, 180x30, 180x31


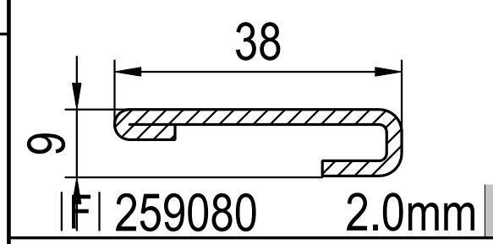
|F| 259031 2.0mm 7.2 6.5

-> 150x43, 170x41


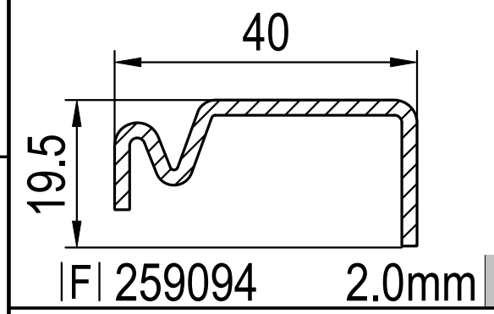
|F| 259043 1.5mm 3.9 1.1
|F| 259044 2.5mm 5.6 1.6

-> 150x67


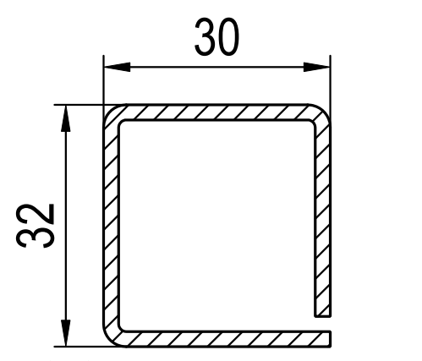
|F| 259067 2.0mm 5.0 2.5

-> 150x80, 170x65


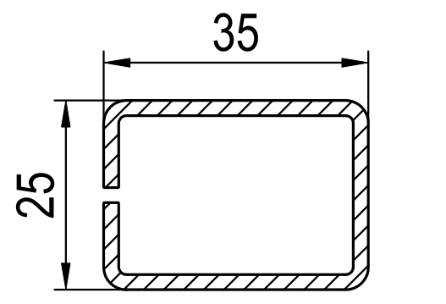
|F| 259080 2.0mm 1.8 0.08

-> 140x67


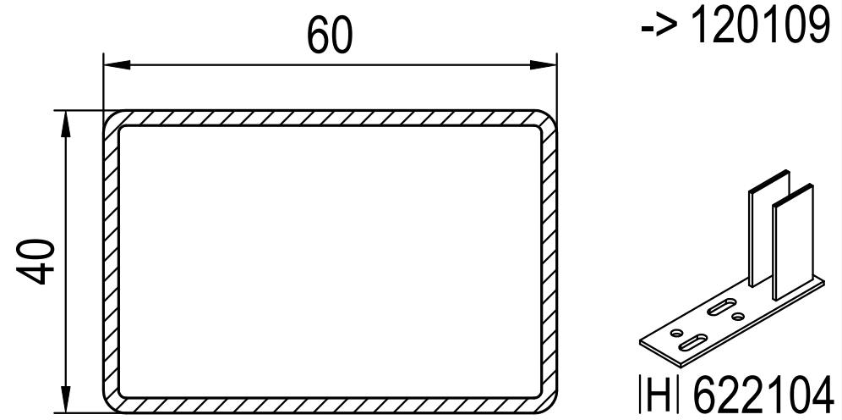
|F| 259094 2.0mm 3.1 0.4

-> 140x070000098, 150x030000098, 170x020000098, 180x040000098, 180x050000098


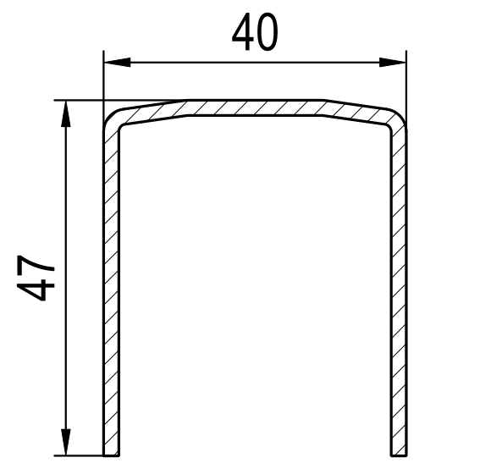
|F| 259105 1.25mm 1.9 2.2 +90°
|F| 259106 2.0mm 2.9 3.2 +90°
|F| 259107 1.5mm 2.3 2.5 +90°

-> 100083, 140x53, 140x54, 140x55, 140x57, 140x91


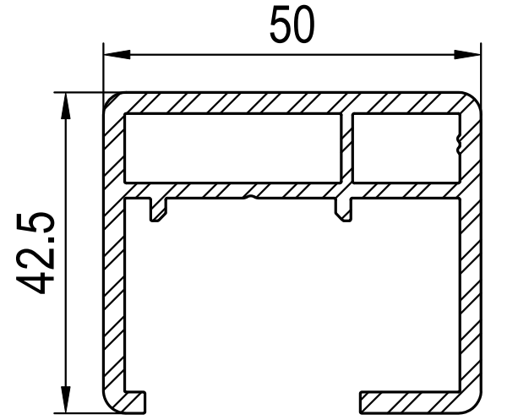
|F| 259906 2.0mm 3.4 2.1

-> 120109


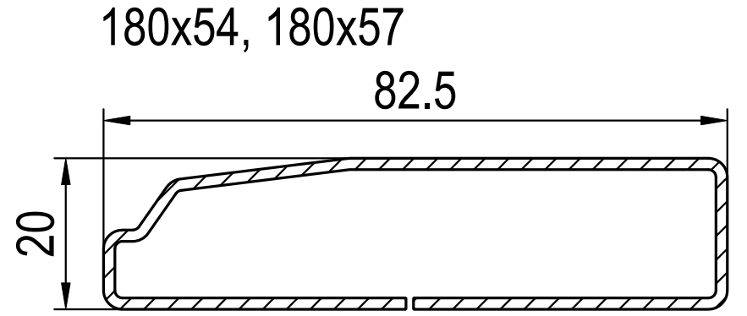
|H| 622104
|F| 259926 2.0mm 18.7 10.0

-> 140x28, 140x29, 170x30, 170x31


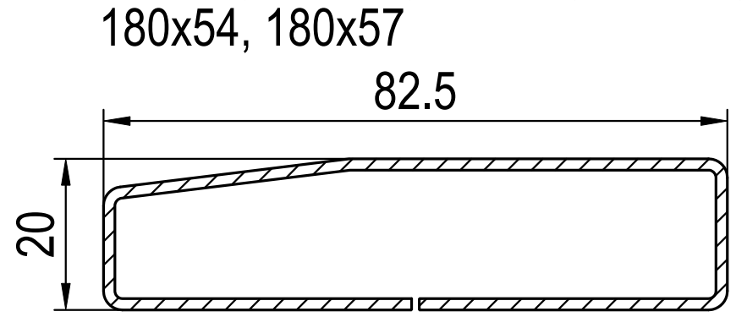
|F| 279028 1.25mm 4.8 3.7
|F| 279029 2.0mm 7.3 5.8

-> 170x81


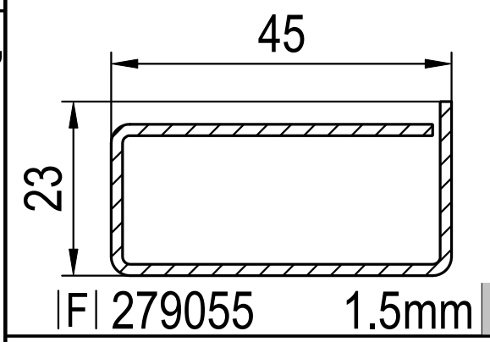
1) (aluminium) x 1/3 ~ 5.9 3.2 steel
|F| 279036 1) 2.8mm (17.8) (9.6)

-> 170x53, 170x54, 170x55, 170x57, 180x54, 180x57


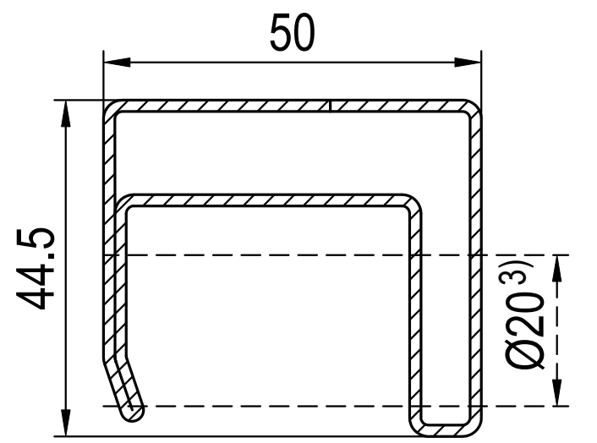
|F| 279053 1.5mm 20.0 2.0

-> 170x53, 170x54, 170x55, 170x57, 180x54, 180x57


|F| 279054 1.5mm 21.0 2.0

-> 170x53, 170x54, 170x55, 170x57, 180x54, 180x57


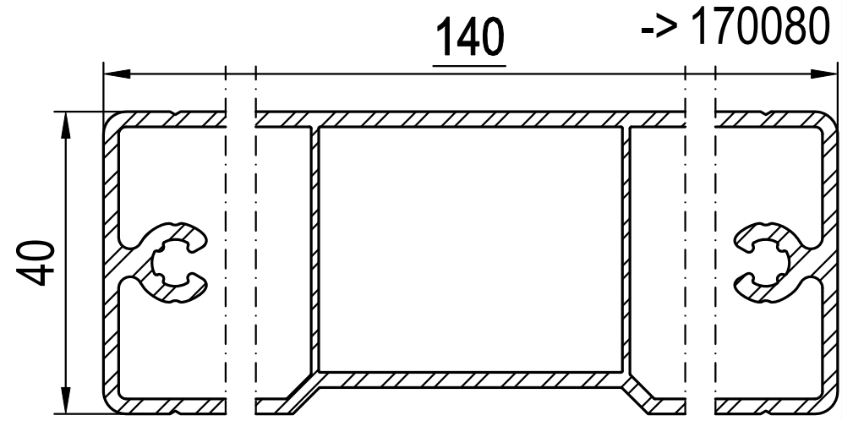
|F| 279055 1.5mm 4.7 1.3

-> 170x81


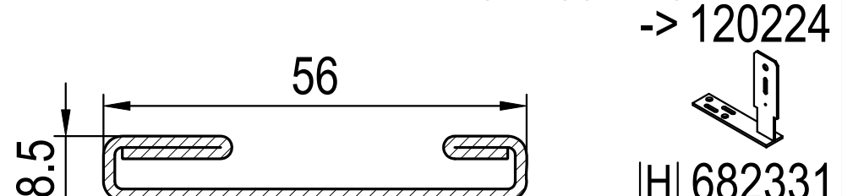
|F| 279082 1.5mm 13.2 6.6 6.0m

3) 5x pierced hole
-> DIN left blue
|F| 279083 3) 1.5mm 13.2 6.6 2.3m

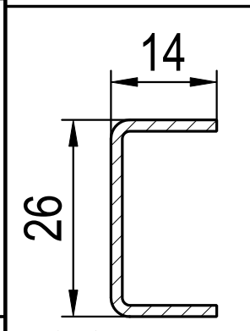
3) 5x pierced hole
-> DIN right red
|F| 279084 3) 1.5mm 13.2 6.6 2.3m

-> 170080


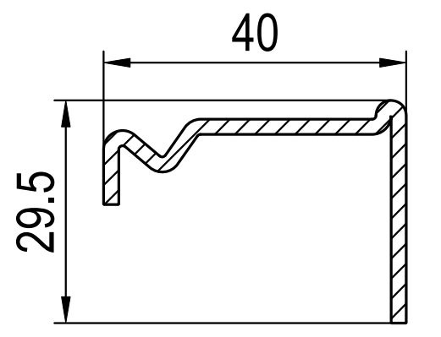
1) (aluminium) x 1/3 ~ 69.0 7.1 steel
|F| 279108 1) 2.0mm (206) (21.3) 6.7m

-> 120224


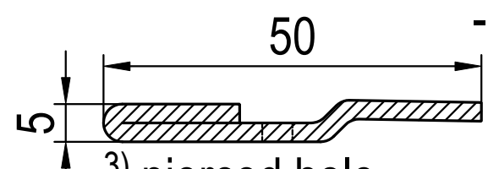
|H| 682331
|F| 289018 1.5mm 6.2 0.2

-> 080x040000095, 080x050000095


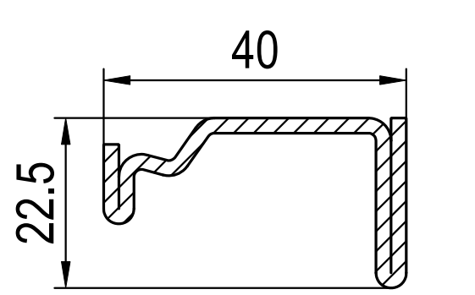
|F| 289019 1.5mm 0.1 0.8

-> 050x20, 070x20, 080x20, 140x20, 150x20, 150x22, 150x26, 150x27, 170x20, 180x20, 180x26, 180x27


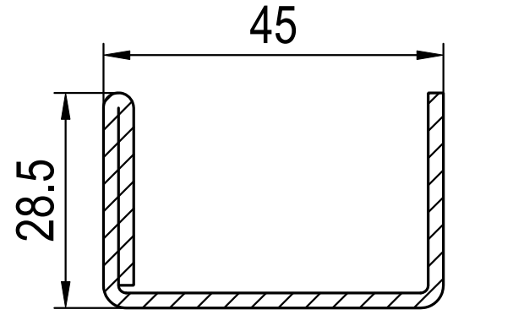
|F| 289021 2.0mm 3.4 0.8

-> Sash
IDEAL 7000,
IDEAL 8000


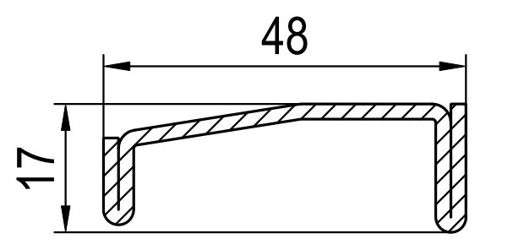
3) pierced hole
|F| 289027 3) 2.5mm 3.5 0.04 2.4m

-> 180x24


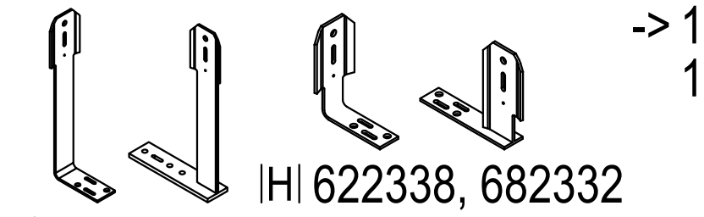
|F| 289028 2.0mm 4.2 0.7

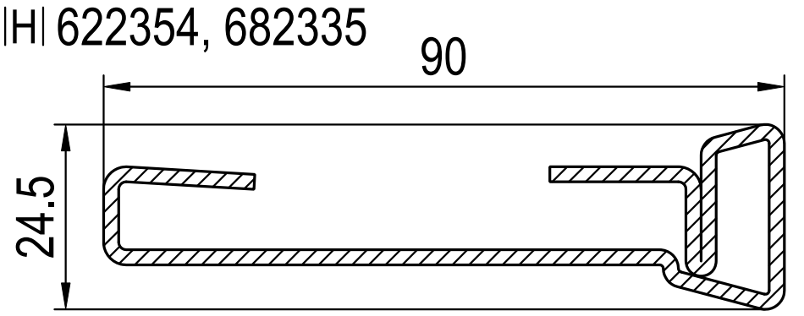
-> 170x64, 180x66


|F| 289066 2.0mm 7.7 2.0

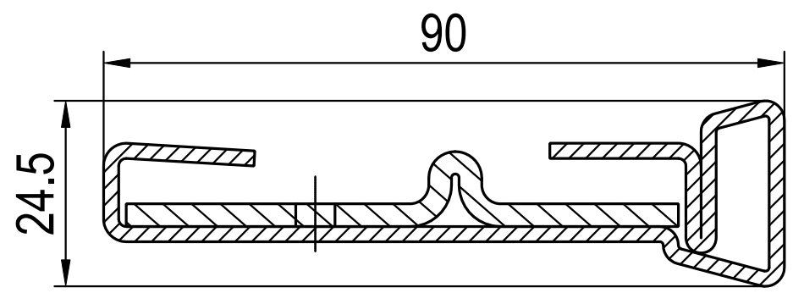
-> 080x89


|F| 289089 2.0mm 6.3 0.4

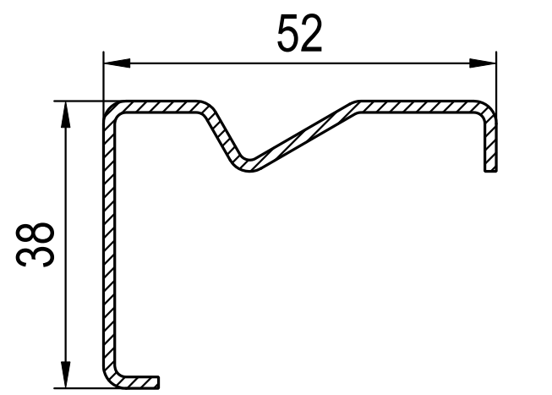
-> 140218, 180218

|H| 622338, 682332
|H| 622354, 682335



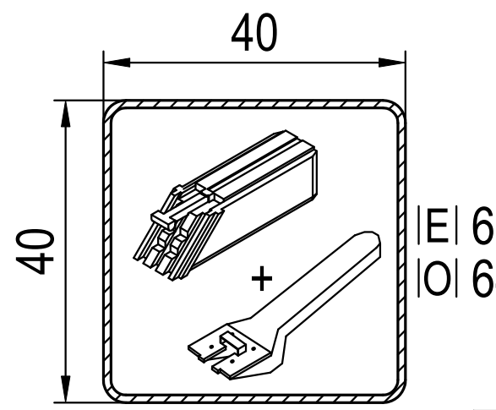
|F| 289218 2.0mm 37.0 1.4



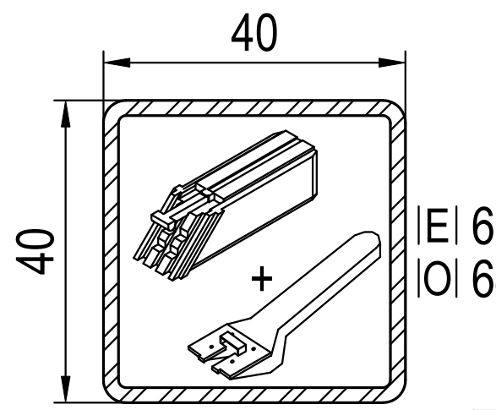
|F| 289218 + 229010 46.9 1.5

-> 190220, 190246


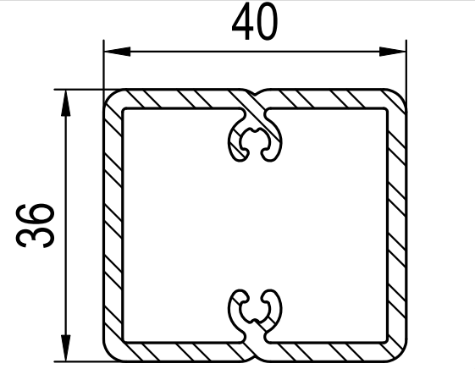
|F| 299220 1.5mm 5.1 2.2

-> 190221, 190222


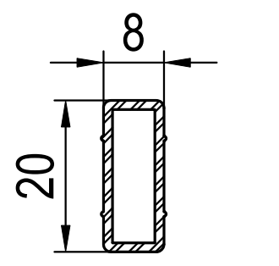
|E| 690226
|O| 640938
|F| 299221 1.0mm 3.8 3.8

-> 190221, 190222


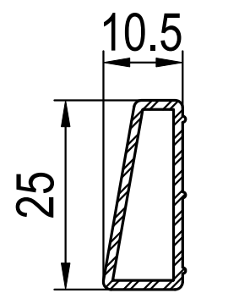
|E| 690227
|O| 640938
1) (aluminium) x 1/3 ~ 2.4 2.4 steel
|F| 299222 1) 2.0mm (7.2) (7.2)

-> 190223


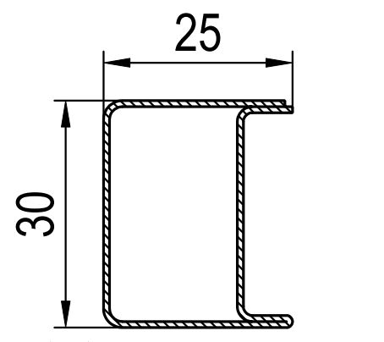
1) (aluminium) x 1/3 ~ 2.6 2.4 steel
|F| 299223 1) 2.5mm (7.9) (7.3)

-> 190233, 190235


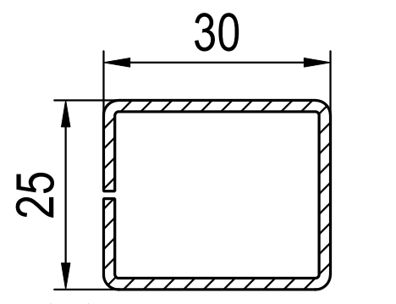
1) (aluminium) x 1/3 ~ 0.02 0.09 steel
|F| 299234 1) 1.2mm (0.06) (0.2) +90°

-> 190234


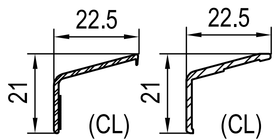
1) (aluminium) x 1/3 ~ 0.03 0.17 steel
|F| 299235 1) 1.2mm (0.09) (0.5) +90°

-> 190238, 190241


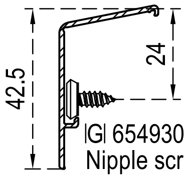
|F| 299238 0.8mm 0.7 1.3

-> 190238, 190241


|F| 299944 1.5mm 1.9 1.5 +90°

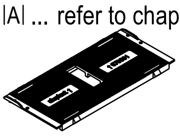


|Q| 287301 |Q| 287303
Aluminium step protection

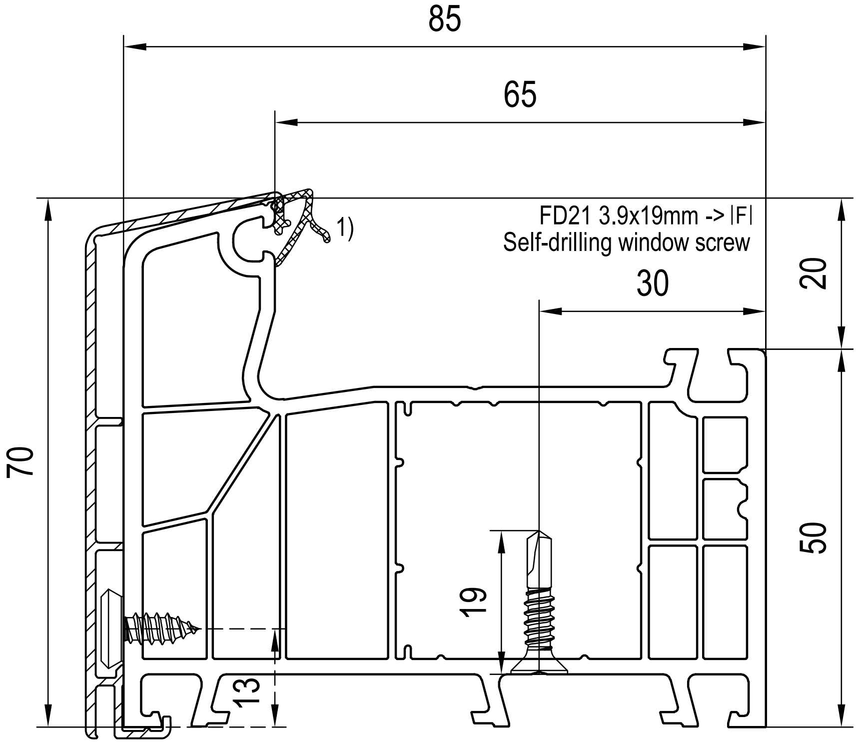


|P| 289304 **aluskin** Option
Aluminium shells

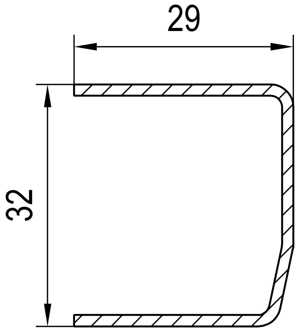
|A| ... refer to chapter 03 A



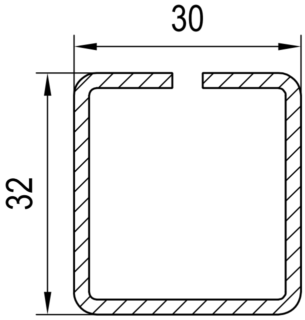
|A| 670301
Spacer
t = 0mm
14-52mm Glazing



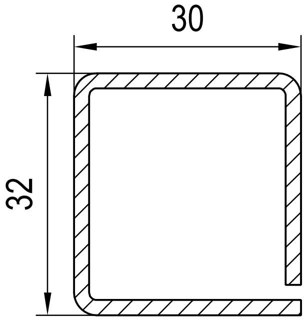
|P| 279402 **aluskin**
Aluminium shells
|G| 654930 Option
Nipple screw / Clip



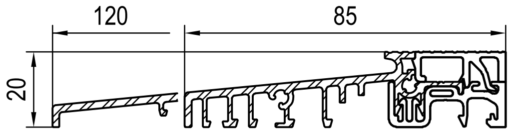
|F| 249016 s=1.5mm 1.1/2.2cm4
Reinforcements



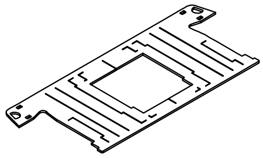
|F| 249014 s=1.25mm 2.0/2.0cm4
|F| 249015 s=2.0mm 3.0/3.1cm4
Reinforcements



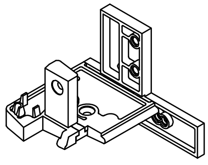
|F| 259105 s=1.25mm 1.9/2.2cm4
|F| 259106 s=2.0mm 2.9/3.2cm4
|F| 259107 s=1.5mm 2.3/2.5cm4
Reinforcements



|U| 249058 |U| 269060
Aluminium thresholds



|X| 486071 gr
Gaskets



|V| 686475 -> |U|
Threshold connector
|X| 486071

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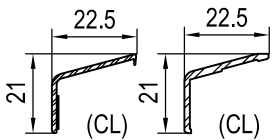
1) Integrated gasket(s): see current price list

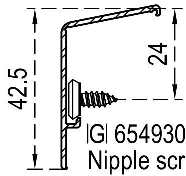
frame - dormant - telaio - marco - Rahmen

Main Profiles: Frames
Frame 70mm: 170x02

Classic-line (CL)

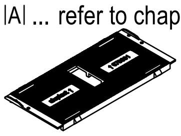


|Q| 287301 |Q| 287303
Aluminium step protection

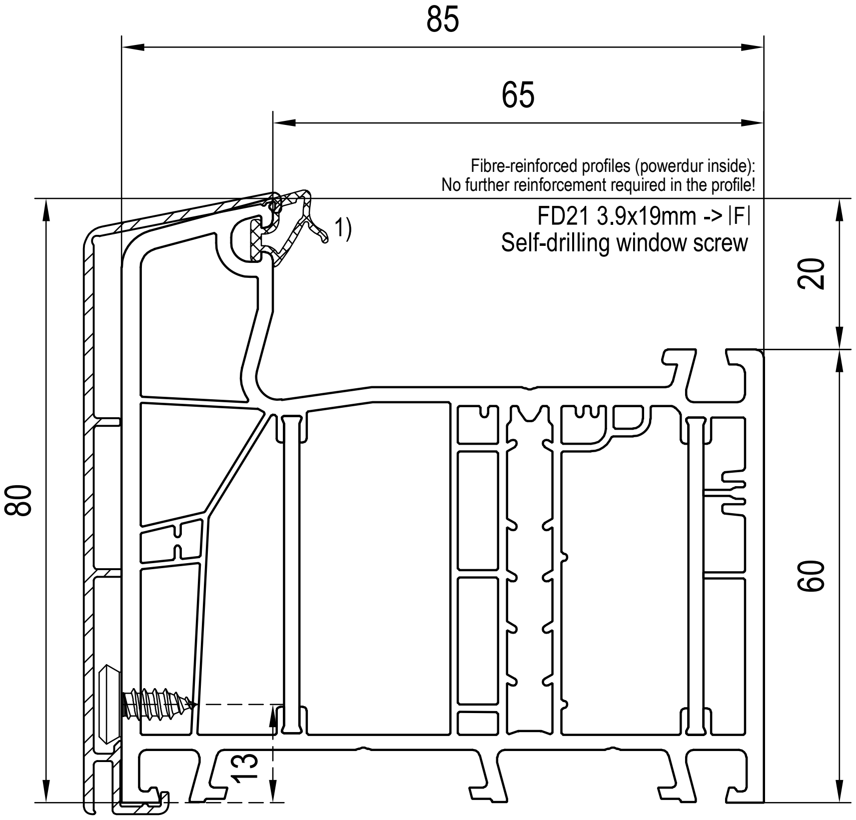


|G| 654930
Nipple screw / Clip
|P| 289304 **aluskin** Option
Aluminium shells

|A| ... refer to chapter 03 A



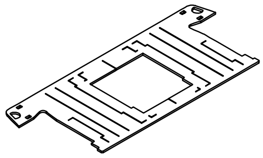
|A| 670301
Spacer
t = 0mm
14-52mm Glazing



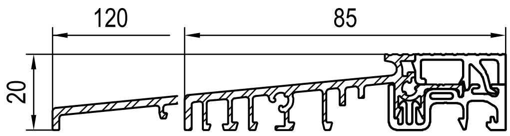
Fibre-reinforced profiles (powerdur inside):
No further reinforcement required in the profile!

FD21 3.9x19mm -> |F|
Self-drilling window screw

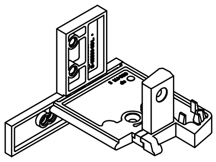
|P| 289313 **aluskin**
Aluminium shells
|G| 654930 Option
Nipple screw / Clip



|X| 486071 gr
Gaskets

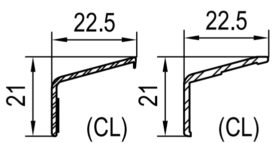


|U| 249058 |U| 269060
Aluminium thresholds

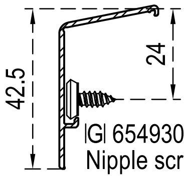


|V| 686471 -> |U|
Threshold connector
|X| 486071

1) Integrated gasket(s): see current price list

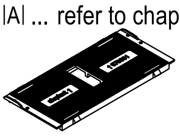


|Q| 287301 |Q| 287303
Aluminium step protection

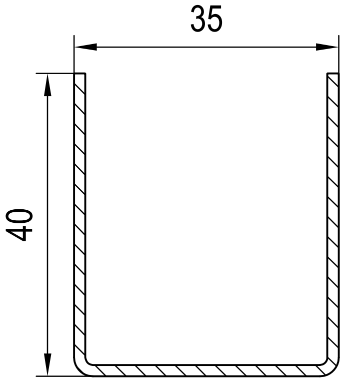


|G| 654930
Nipple screw / Clip
|P| 289304 **aluskin** Option
Aluminium shells

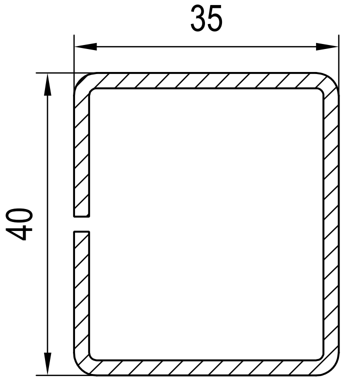
|A| ... refer to chapter 03 A



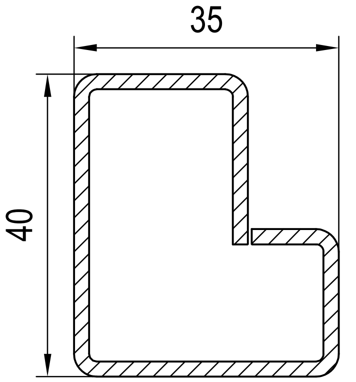
|A| 670301
Spacer
t = 0mm
14-52mm Glazing



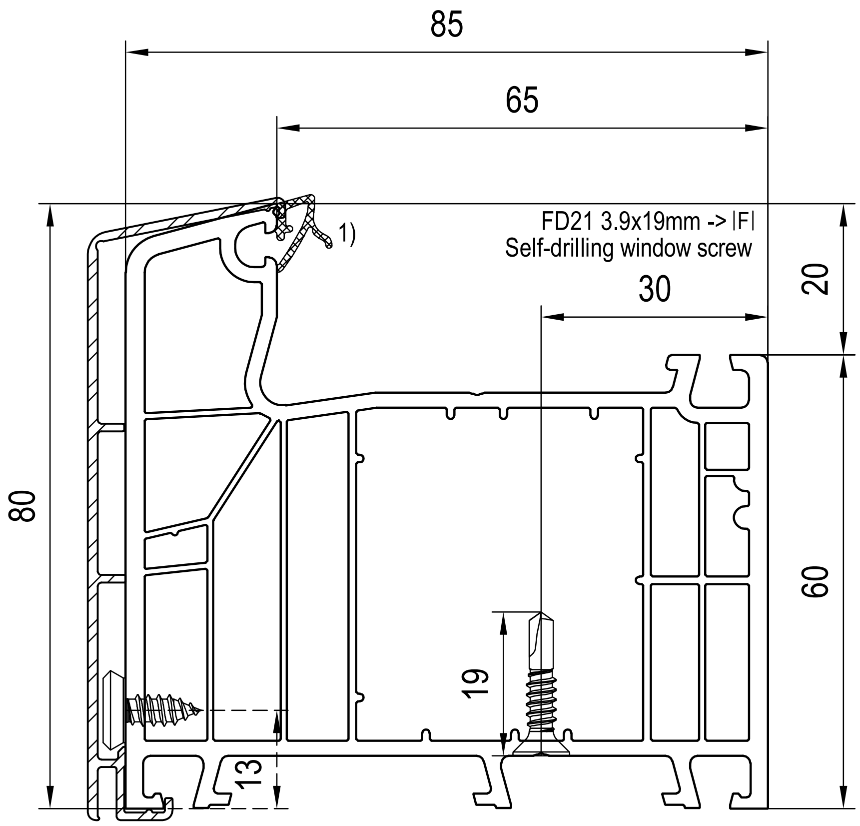
|F| 229017 s=1.5mm 3.7/2.8cm4
Reinforcements



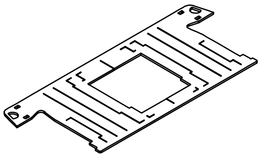
|F| 229114 s=1.5mm 4.0/5.0cm4
|F| 229115 s=2.0mm 5.0/6.4cm4
Reinforcements



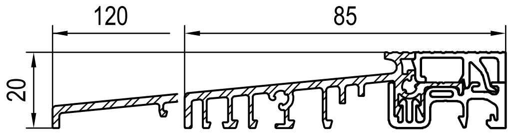
|F| 229120 s=2.0mm 4.0/5.4cm4
Reinforcements



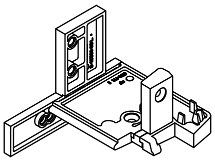
|P| 289313 **aluskin**
Aluminium shells
|G| 654930 Option
Nipple screw / Clip



|X| 486071 gr
Gaskets



|U| 249058 |U| 269060
Aluminium thresholds



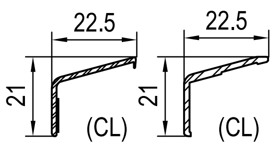
|V| 686471 -> |U|
Threshold connector
|X| 486071

1) Integrated gasket(s): see current price list

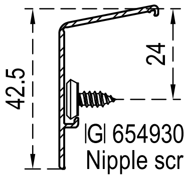
frame - dormant - telaio - marco - Rahmen

Classic-line (CL)

Main Profiles: Frames
Frame 80mm: 170x03

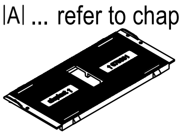


|Q| 287301 |Q| 287303
Aluminium step protection

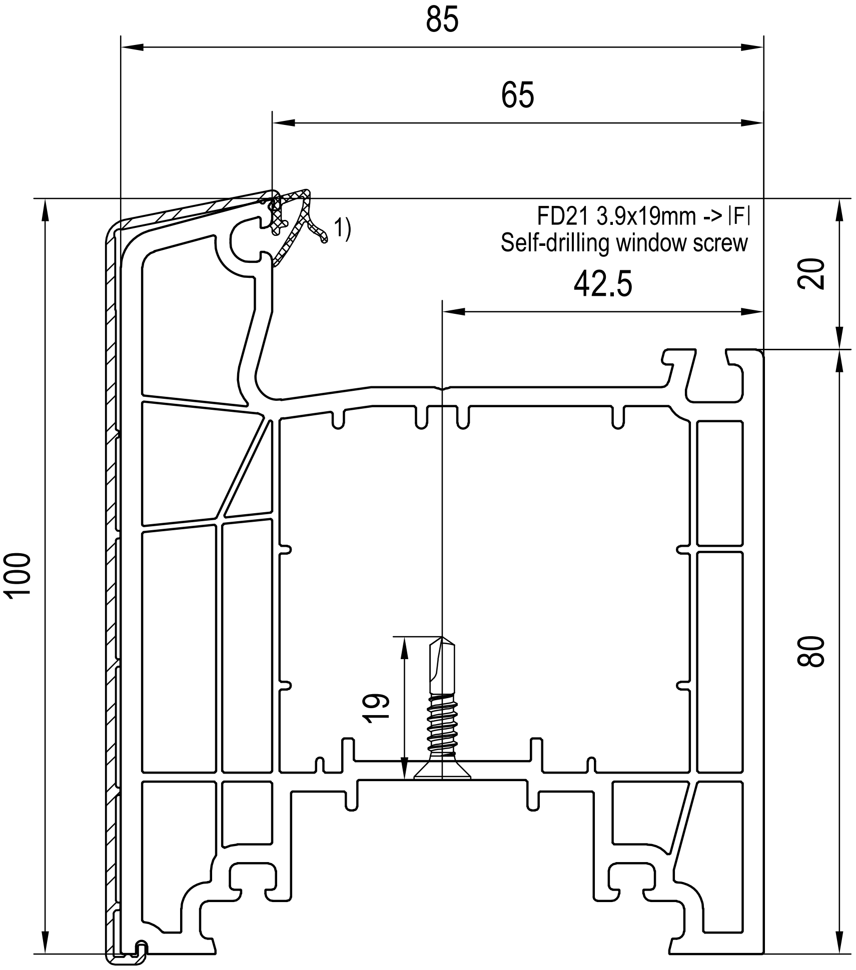


|G| 654930
Nipple screw / Clip
|P| 289304 **aluskin** Option
Aluminium shells

|A| ... refer to chapter 03 A

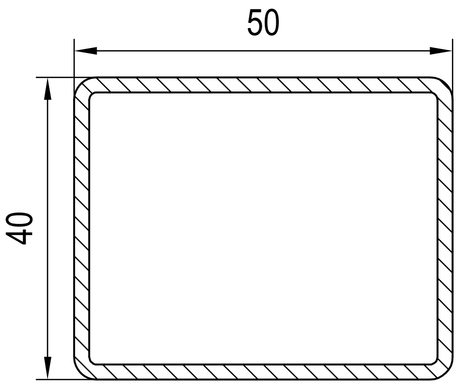


|A| 670301
Spacer
t = 0mm
14-52mm Glazing



FD21 3.9x19mm -> |F|
Self-drilling window screw

|P| 279381 **aluskin**
Aluminium shells



|F| 229125 s=2.0mm 12.1/8.5cm4
|F| 229126 s=3.0mm 16.8/11.8cm4
Reinforcements

1) Integrated gasket(s): see current price list

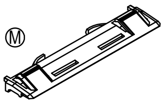
frame - dormant - telaio - marco - Rahmen

Scale 1:2, 1:1
02_B_01_7*
en

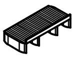
Classic-line (CL)

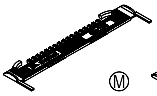
Main Profiles: Frames
Frame 100mm: 170x81

|J| or |A| ... refer to chapter 03 A

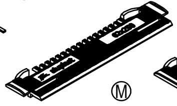


|J| 642262 bl
Bonding of pane
t = 3.5mm ...
24-52mm ...

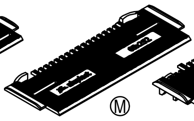

H [mm]
|J| 640033 red 3
|J| 640034 ye 4
|J| 640035 gn 5



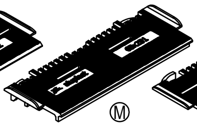
|A| 650250 red
Spacer
t = -1mm
14-52mm



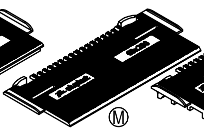
|A| 620250 red
t = 1mm
14-18mm



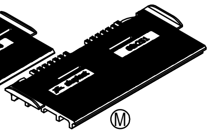
|A| 650252 red
t = 1mm
14-34mm



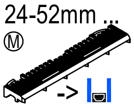
|A| 655251 gn
t = 5mm
14-38mm



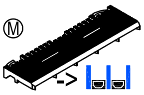
|A| 680250 red
t = 1mm
14-44mm



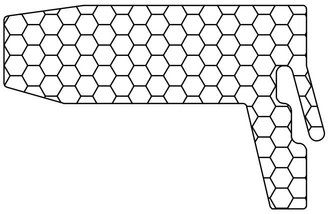
|A| 685251 gn
t = 5mm
14-48mm Glazing

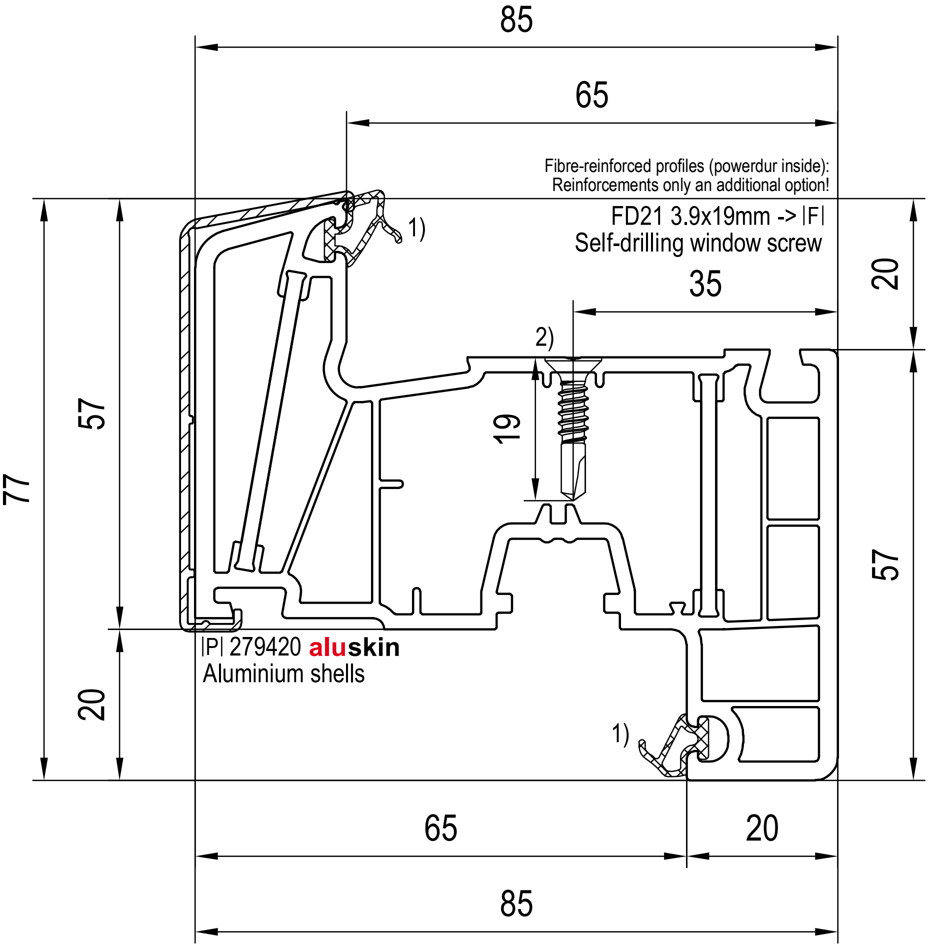


|J| 642261 bl >kg
|J| 646265 gr <kg



|J| 642263 bl >kg
|J| 646266 gr <kg

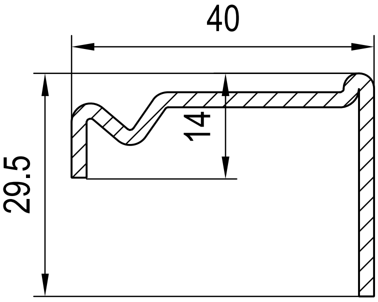

|Z| 650295 ~40x27x1000mm
Special accessories



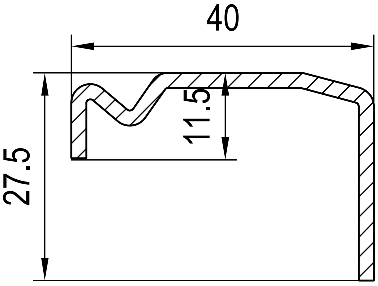
Fibre-reinforced profiles (powerdur inside):
Reinforcements only an additional option!

FD21 3.9x19mm -> |F|
Self-drilling window screw

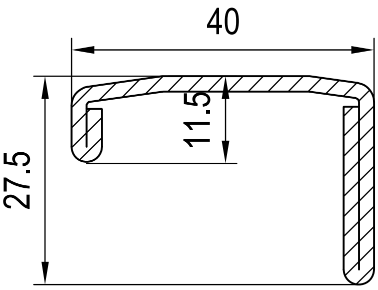
|P| 279420 **aluskin**
Aluminium shells



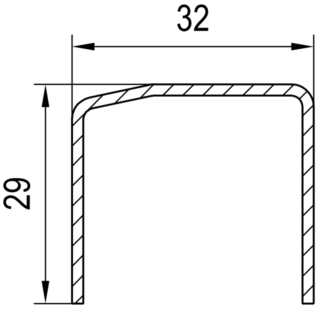
|F| 289021 s=2.0mm 3.4/0.8cm4
Reinforcements



|F| 259020 s=1.25mm 2.1/0.5cm4
|F| 259021 s=2.0mm 3.2/0.8cm4
Reinforcements



|F| 259026 s=2.0mm 4.3/1.3cm4
Reinforcements



|F| 249016 s=1.5mm 2.2/1.1cm4
Reinforcements

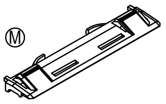
2) Seal the screw heads in the bottom horizontal rebate
1) Integrated gasket(s): see current price list

sash - ouvrant - anta - hoja - Flügel

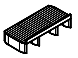
Ⓜ fibre-reinforced
Classic-line (CL)

Main Profiles: Sashes
Sash re. 77mm: 070x20

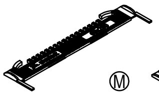
|J| or |A| ... refer to chapter 03 A



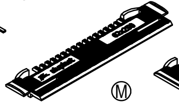
|J| 642262 bl
Bonding of pane
t = 3.5mm ...
24-52mm ...



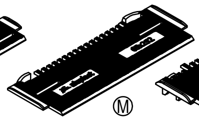
	H [mm]
|J| 640033 red	3
|J| 640034 ye	4
|J| 640035 gn	5



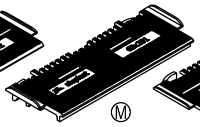
|A| 650250 red
Spacer
t = -1mm
14-52mm



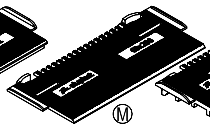
|A| 620250 red
t = 1mm
14-18mm



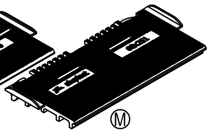
|A| 650252 red
t = 1mm
14-34mm



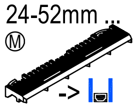
|A| 655251 gn
t = 5mm
14-38mm



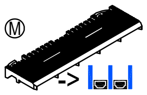
|A| 680250 red
t = 1mm
14-44mm



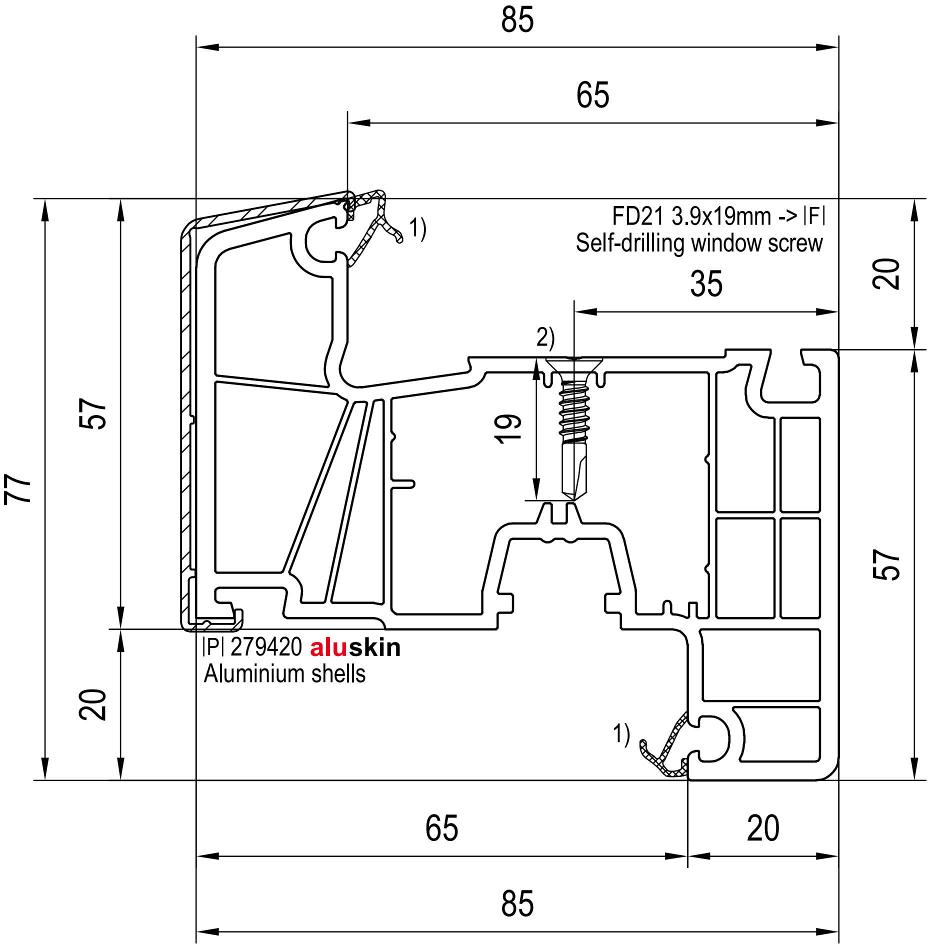
|A| 685251 gn
t = 5mm
14-48mm Glazing



|J| 642261 bl >kg
|J| 646265 gr <kg

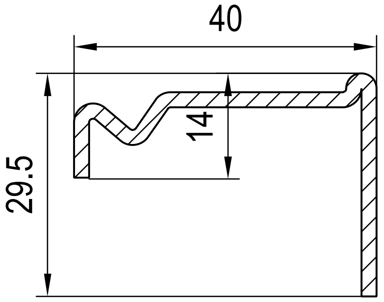


|J| 642263 bl >kg
|J| 646266 gr <kg

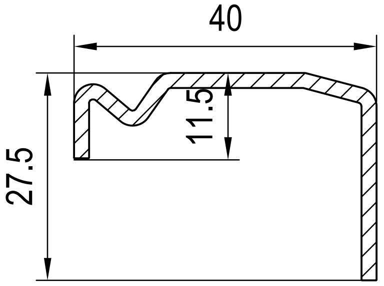


FD21 3.9x19mm -> |F|
Self-drilling window screw

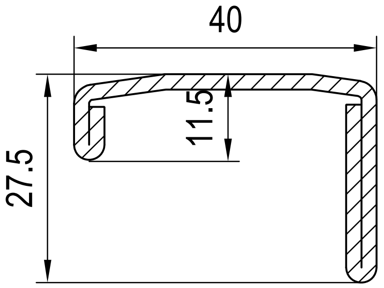
|P| 279420 **aluskin**
Aluminium shells



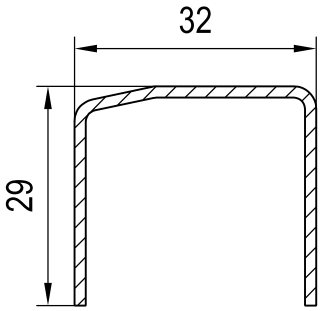
|F| 289021 s=2.0mm 3.4/0.8cm4
Reinforcements



|F| 259020 s=1.25mm 2.1/0.5cm4
|F| 259021 s=2.0mm 3.2/0.8cm4
Reinforcements



|F| 259026 s=2.0mm 4.3/1.3cm4
Reinforcements



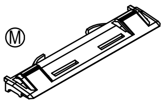
|F| 249016 s=1.5mm 2.2/1.1cm4
Reinforcements

2) Seal the screw heads in the bottom horizontal rebate
1) Integrated gasket(s): see current price list

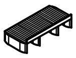
sash - ouvrant - anta - hoja - Flügel

Main Profiles: Sashes
Sash re. 77mm: 170x20

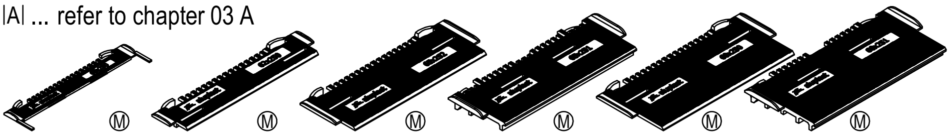
|J| or |A| ... refer to chapter 03 A



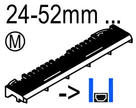
|J| 642262 bl
Bonding of pane
t = 3.5mm ...
24-52mm ...

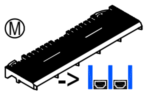


H [mm]	
|J| 640033 red	3
|J| 640034 ye	4
|J| 640035 gn	5

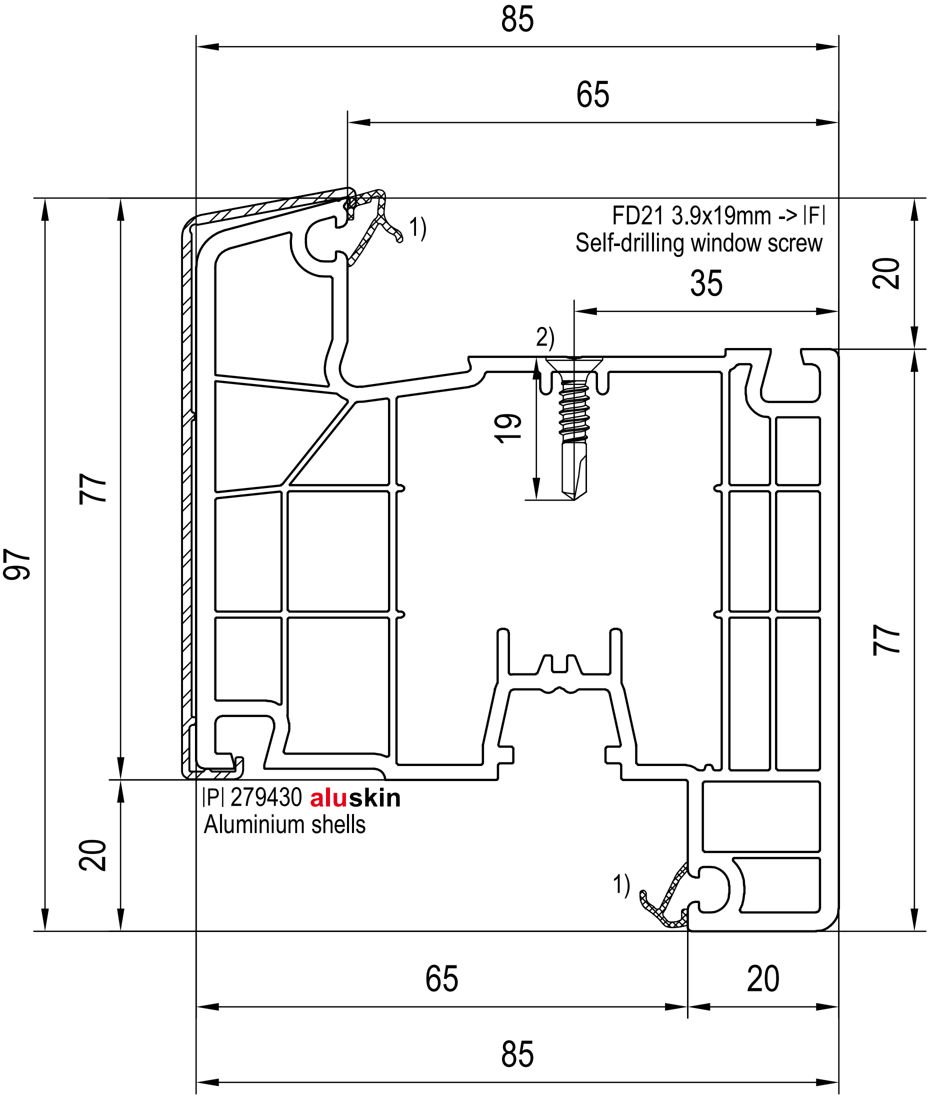


|A| 650250 red	|A| 620250 red	|A| 650252 red	|A| 655251 gn	|A| 680250 red	|A| 685251 gn
Spacer					
t = -1mm	t = 1mm	t = 1mm	t = 5mm	t = 1mm	t = 5mm
14-52mm	14-18mm	14-34mm	14-38mm	14-44mm	14-48mm Glazing

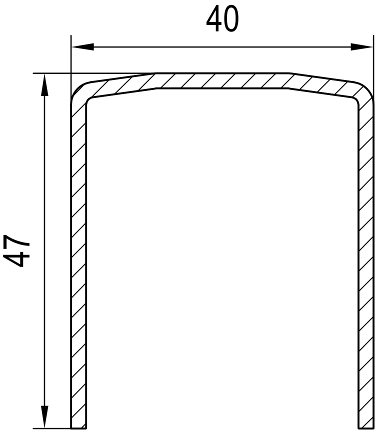




|J| 642261 bl >kg	|J| 642263 bl >kg
|J| 646265 gr <kg	|J| 646266 gr <kg



|P| 279430 **aluskin**
Aluminium shells



|F| 279028 s=1.25mm 4.8/3.7cm4
|F| 279029 s=2.0mm 7.3/5.8cm4
Reinforcements

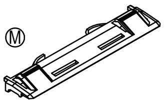
2) Seal the screw heads in the bottom horizontal rebate
1) Integrated gasket(s): see current price list

sash - ouvrant - anta - hoja - Flügel

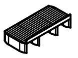
Ⓜ Classic-line (CL)

Main Profiles: Sashes
Sash re. 97mm: 170x30

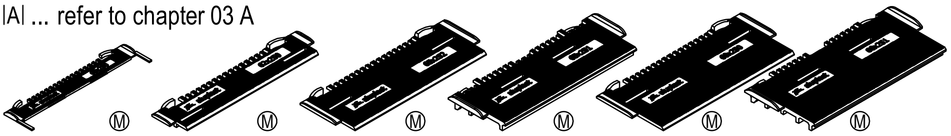
|J| or |A| ... refer to chapter 03 A



Ⓜ
|J| 642262 bl
Bonding of pane
t = 3.5mm ...
24-52mm ...



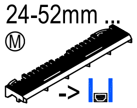
		H [mm]
|J| 640033	red	3
|J| 640034	ye	4
|J| 640035	gn	5



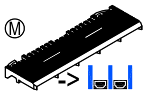
Ⓜ |A| 650250	red	t = -1mm	14-52mm
Ⓜ |A| 620250	red	t = 1mm	14-18mm
Ⓜ |A| 650252	red	t = 1mm	14-34mm
Ⓜ |A| 655251	gn	t = 5mm	14-38mm
Ⓜ |A| 680250	red	t = 1mm	14-44mm
Ⓜ |A| 685251	gn	t = 5mm	14-48mm

Spacer

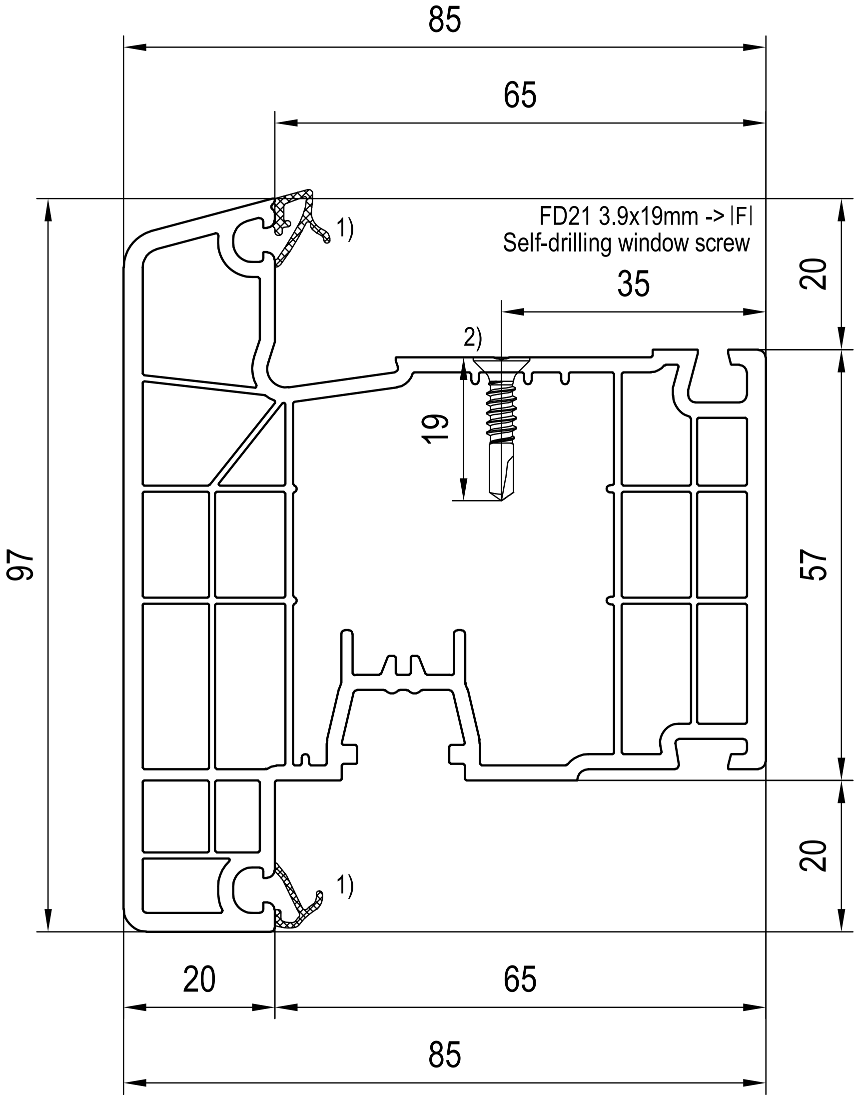
Glazing

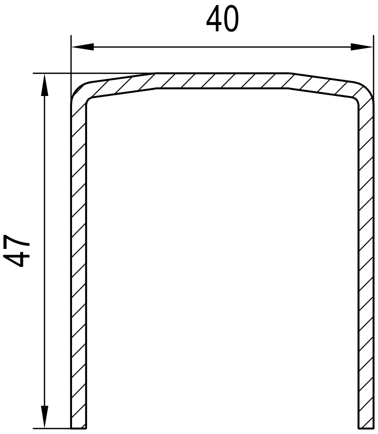


Ⓜ
|J| 642261 bl >kg
|J| 646265 gr <kg



Ⓜ
|J| 642263 bl >kg
|J| 646266 gr <kg





|F| 279028 s=1.25mm 4.8/3.7cm4
|F| 279029 s=2.0mm 7.3/5.8cm4
Reinforcements

2) Seal the screw heads in the bottom horizontal rebate
1) Integrated gasket(s): see current price list

sash - ouvrant - anta - hoja - Flügel

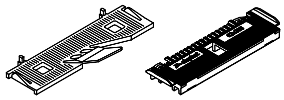
Scale 1:1
02_C_01_7*
en May be subject to change and errors excepted!

Ⓜ

Main Profiles: Sashes
open-out, Sash re. 97mm: 170x31

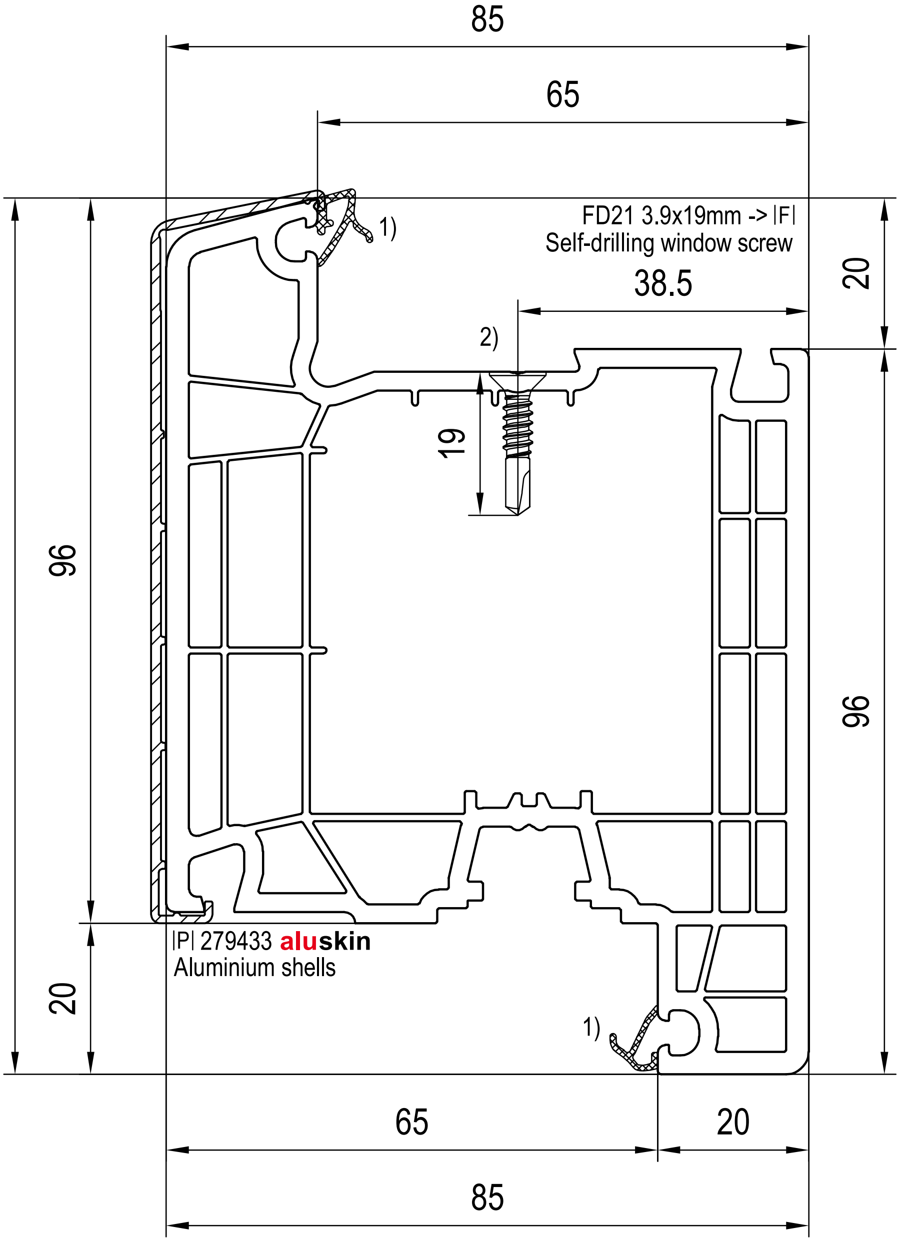
Classic-line (CL)

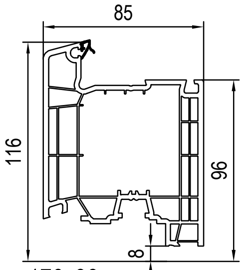
|A| ... refer to chapter 03 A



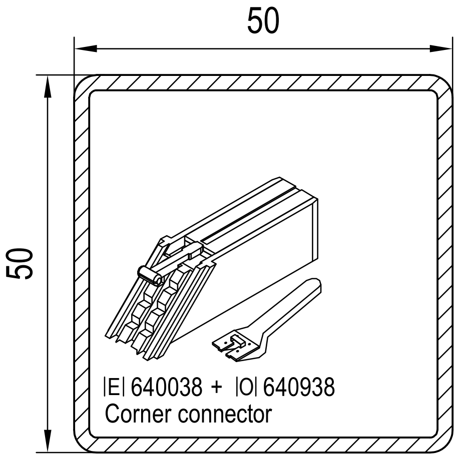
|A| 620301
Spacer
t = 0mm
14-52mm

|A| 625305 gn
t = 5mm
14-32mm Glazing





170x36
Compatible sash (CL)
= 170x33 cut



|E| 640038 + |O| 640938
Corner connector

|F| 229135 s=2.0mm 14.4/14.4cm4
|F| 229137 = 3x punched-out
Reinforcements

2) Seal the screw heads in the bottom horizontal rebate
1) Integrated gasket(s): see current price list

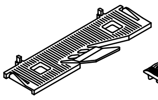
sash - ouvrant - anta - hoja - Flügel

Scale 1:4, 1:1
02_C_01_7*
en

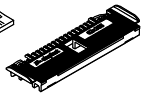
Classic-line (CL)

Main Profiles: Sashes
Sash re. 116mm: 170x33

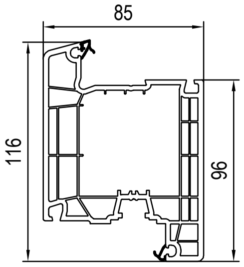
|A| ... refer to chapter 03 A



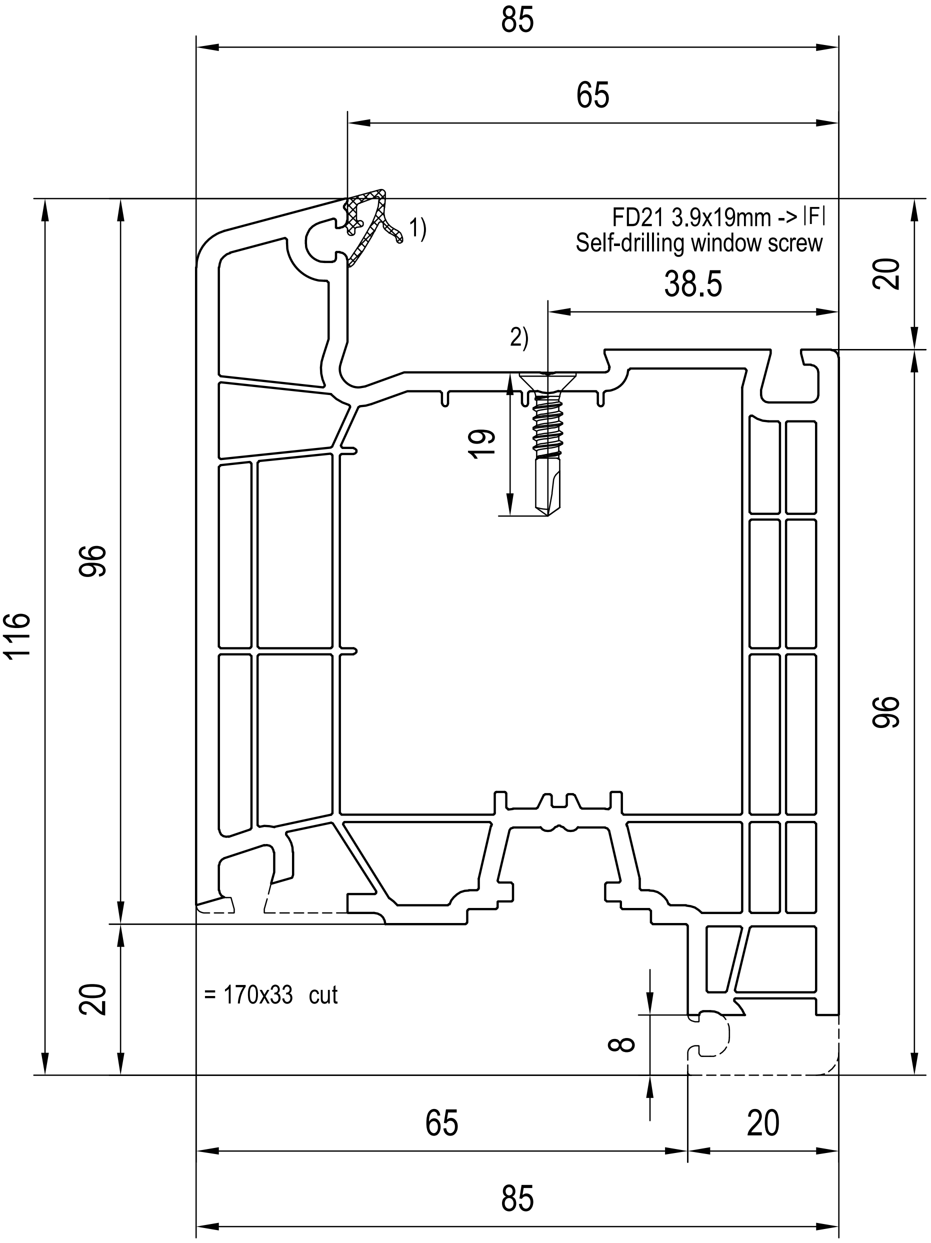
|A| 620301
Spacer
t = 0mm
14-52mm

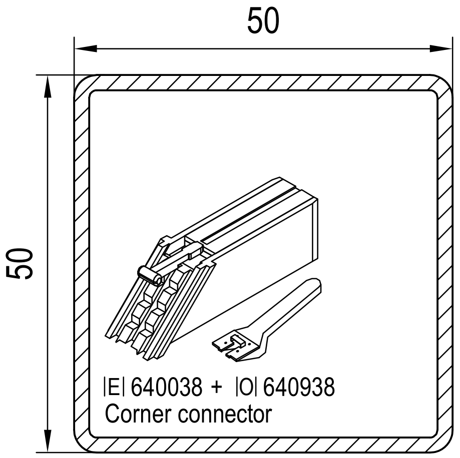


|A| 625305 gn
t = 5mm
14-32mm Glazing



170x33
Compatible sash (CL)





|F| 229135 s=2.0mm 14.4/14.4cm4
|F| 229137 = 3x punched-out
Reinforcements

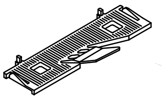
2) Seal the screw heads in the bottom horizontal rebate
1) Integrated gasket(s): see current price list

sash - ouvrant - anta - hoja - Flügel

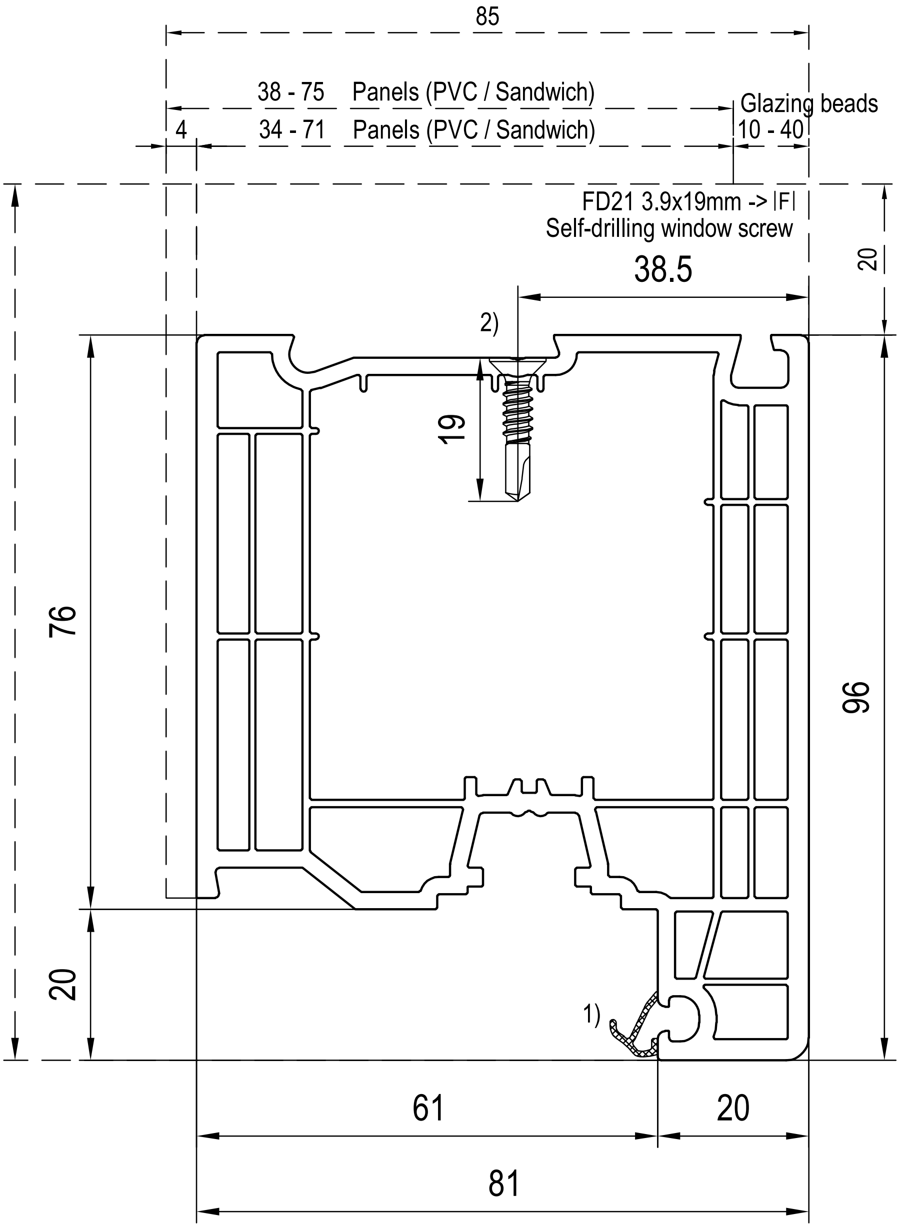
Main Profiles: Sashes
Sash re. 116mm: 170x36

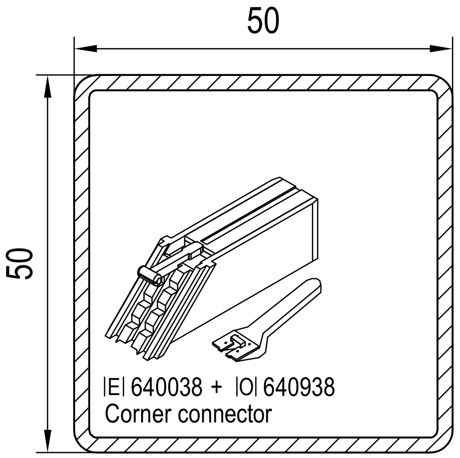
Classic-line (CL)

|A| ... refer to chapter 03 A



|A| 620301
Spacer
t = 0mm





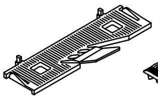
|E| 640038 + |O| 640938
Corner connector

|F| 229135 s=2.0mm 14.4/14.4cm4
|F| 229137 = 3x punched-out
Reinforcements

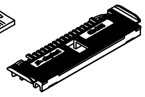
2) Seal the screw heads in the bottom horizontal rebate
1) Integrated gasket(s): see current price list

sash - ouvrant - anta - hoja - Flügel

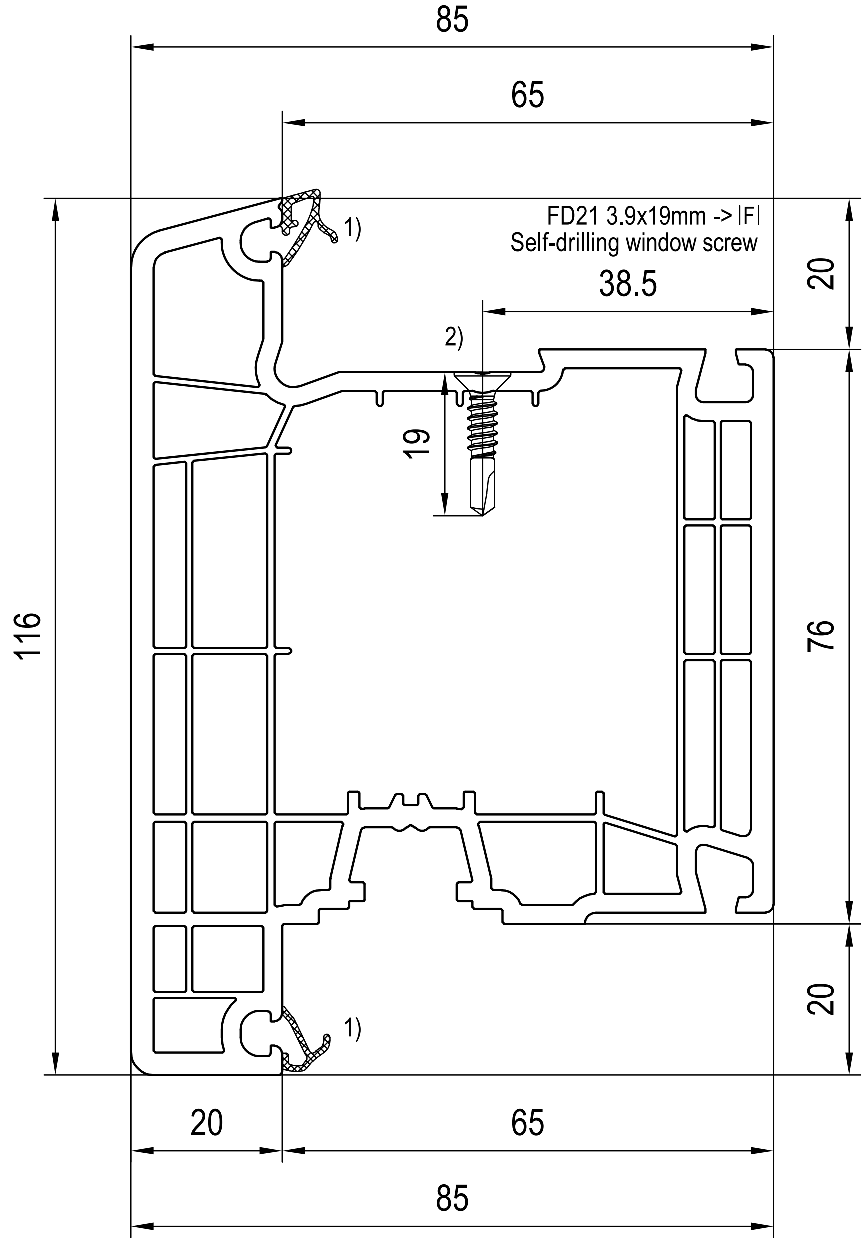
|A| ... refer to chapter 03 A

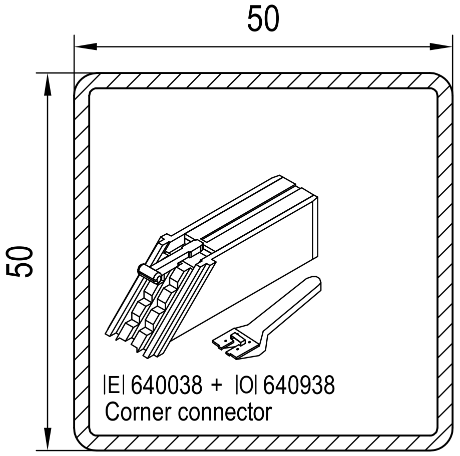


|A| 620301
Spacer
t = 0mm
14-52mm



|A| 625305 gn
t = 5mm
14-32mm Glazing





|F| 229135 s=2.0mm 14.4/14.4cm4
|F| 229137 = 3x punched-out
Reinforcements

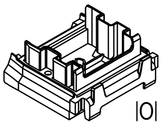
2) Seal the screw heads in the bottom horizontal rebate
1) Integrated gasket(s): see current price list

sash - ouvrant - anta - hoja - Flügel

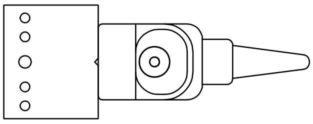
Scale 1:1
02_C_01_7*
en May be subject to change and errors excepted!

Classic-line (CL)

Main Profiles: Sashes
open-out, Sash re. 116mm: 170x35

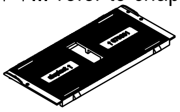


|D| 677146 -> 170x4x

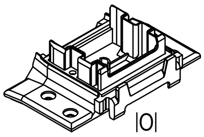


|O| 670950
Auxiliary parts

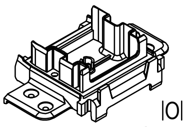
|A| ... refer to chapter 03 A



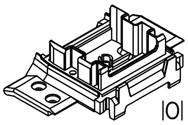
|A| 670301
Spacer
t = 0mm
14-52mm Glazing



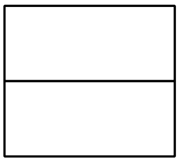
|D̸| 677145 -> 170x4x



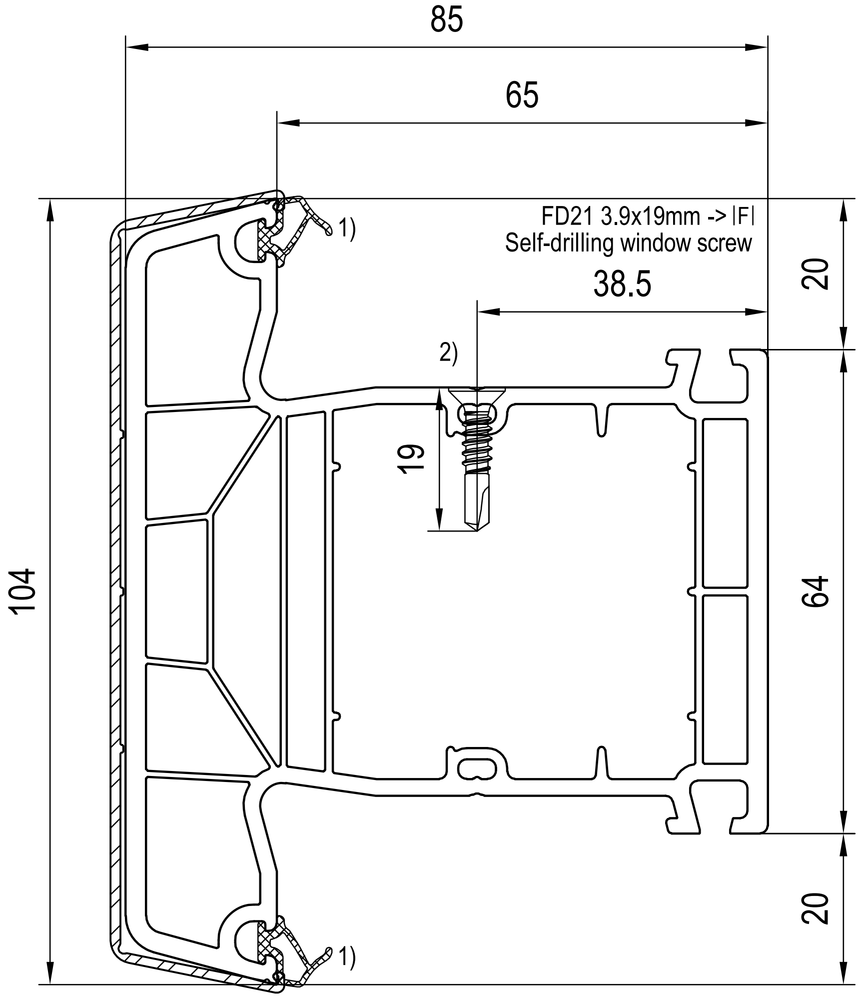
|D̸| 677244 -> Ⓜ
|D| Connector
|D̸| Connector without knobs



|D̸| 677144 -> 170x3x

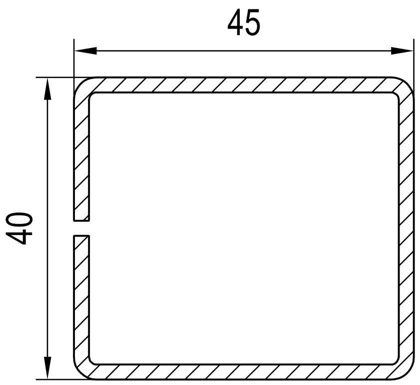


~45x20x1000 mm
2x |D̸| 640046

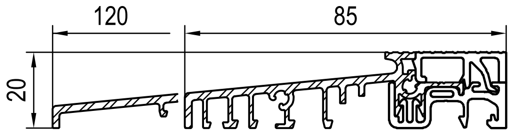


FD21 3.9x19mm -> |F|
Self-drilling window screw

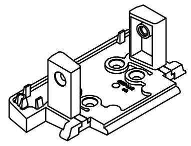
|P| 289343 **aluskin**
Aluminium shells



|F| 249034 s=1.25mm 6.1/5.2cm4
|F| 249035 s=2.0mm 9.2/7.8cm4
Reinforcements



|U| 249058 |U| 269060
Aluminium thresholds



|M| 686473 -> |U|
Mullion coupler

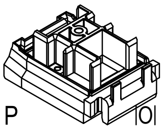
2) Seal the screw heads in the bottom horizontal rebate
1) Integrated gasket(s): see current price list

mullion - meneau - montante - poste - Pfosten
transom - traverse - traverso - travesaño - Sprosse

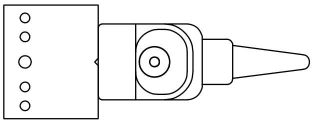
Main Profiles: Mullions / Transoms
Mullions/Transoms 104mm: 170x44

Classic-line (CL)

P~Plastic

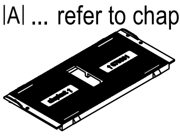


|D| 679141 -> 170x4x

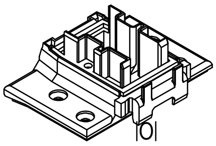


|O| 670950
Auxiliary parts

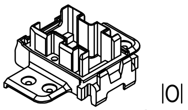
|A| ... refer to chapter 03 A



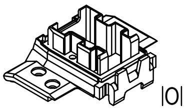
|A| 670301
Spacer
t = 0mm
14-52mm Glazing



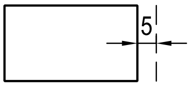
|D| 677101 -> 170x4x



|Đ| 677241 -> Ⓜ
|D| Connector
|Đ| Connector without knobs

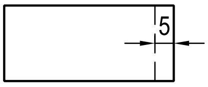


|Đ| 677142 -> 170x3x

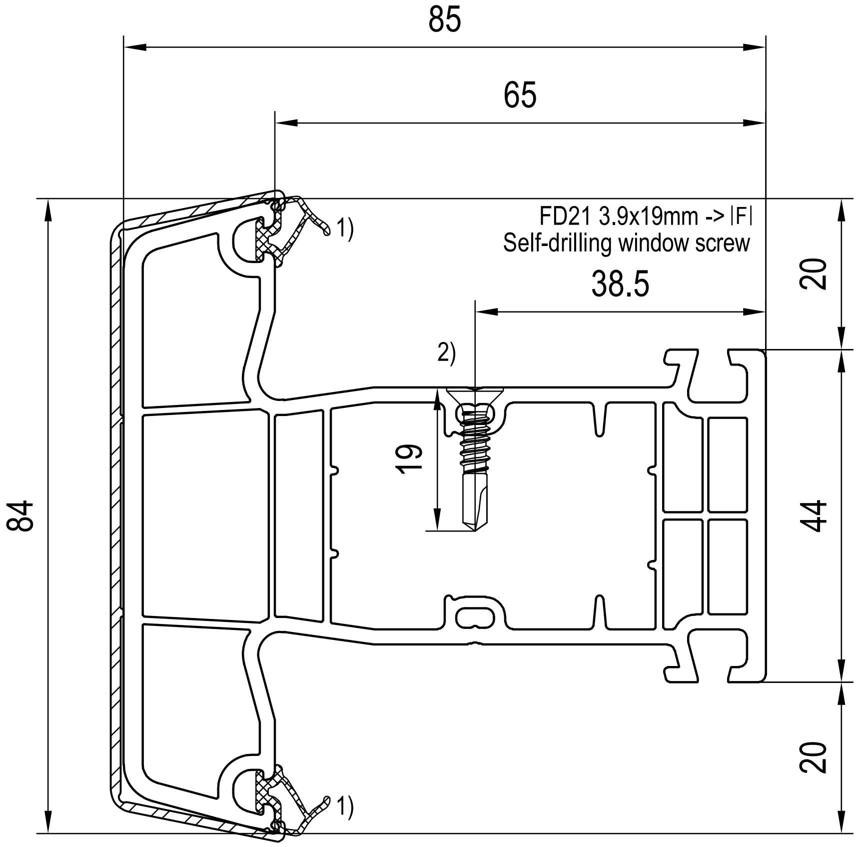


~35x20x1000 mm
|Đ| 620046

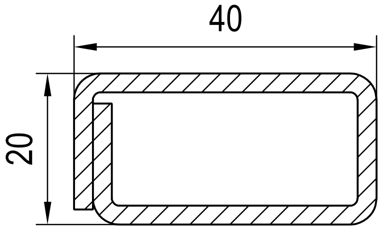
or



~45x20x1000 mm
|Đ| 640046



|P| 289341 **aluskin**
Aluminium shells



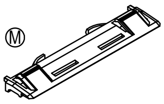
|F| 259043 s=1.5mm 3.9/1.1cm4
|F| 259044 s=2.5mm 5.6/1.6cm4
Reinforcements

2) Seal the screw heads in the bottom horizontal rebate
1) Integrated gasket(s): see current price list

mullion - meneau - montante - poste - Pfosten
transom - traverse - traverso - travesaño - Sprosse

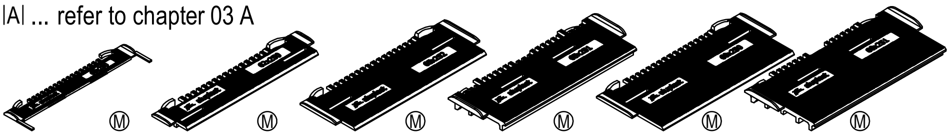
Main Profiles: Mullions / Transoms
Mullions/Transoms 84mm: 170x41

|J| or |A| ... refer to chapter 03 A



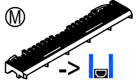
|J| 642262 bl
Bonding of pane
t = 3.5mm ...
24-52mm ...

		H [mm]
|J|	640033 red	3
|J|	640034 ye	4
|J|	640035 gn	5

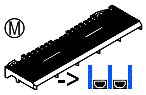


Spacer

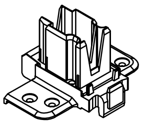
			Glazing
|A|	650250 red	t = -1mm	14-52mm
|A|	620250 red	t = 1mm	14-18mm
|A|	650252 red	t = 1mm	14-34mm
|A|	655251 gn	t = 5mm	14-38mm
|A|	680250 red	t = 1mm	14-44mm
|A|	685251 gn	t = 5mm	14-48mm



|J| 642261 bl >kg
|J| 646265 gr <kg

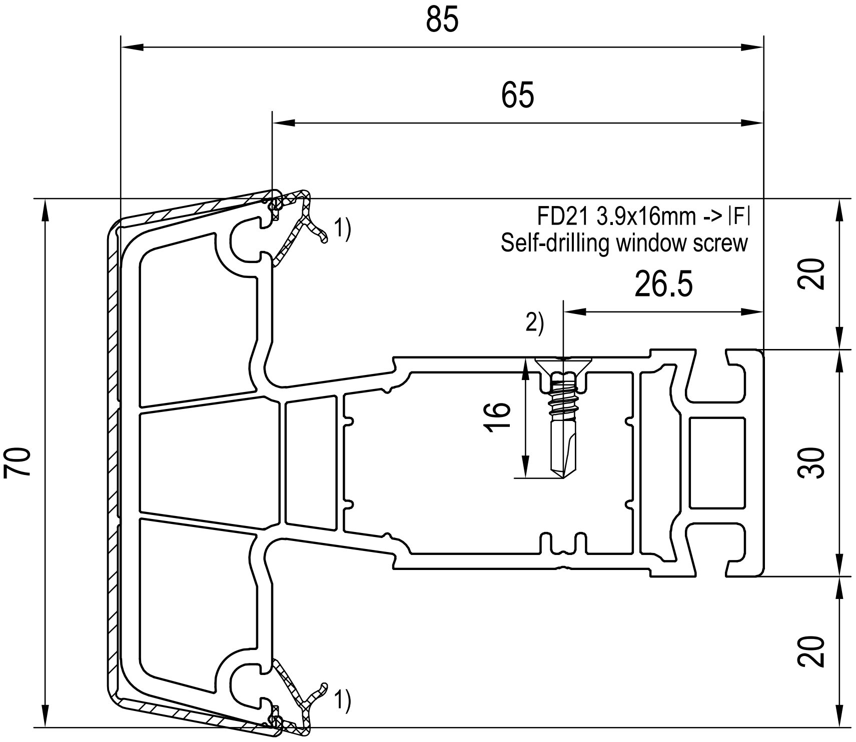


|J| 642263 bl >kg
|J| 646266 gr <kg

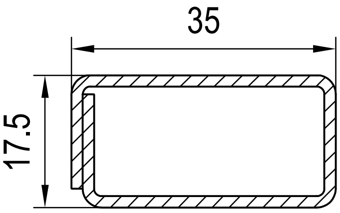


|Đ| 687246 -> Ⓜ
|D| Connector
|Đ| Connector without knobs

~35.4x17.9x1000 mm
|Đ| 680046



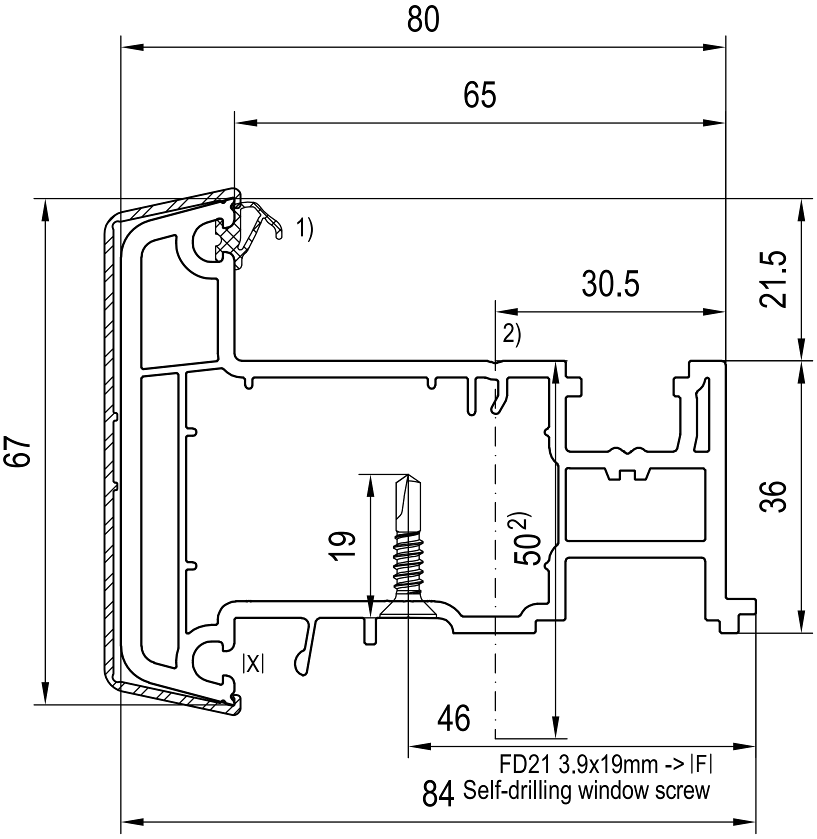
|P| 289346 **aluskin**
Aluminium shells



|F| 229037 s=1.5mm 2.5/0.7cm4
Reinforcements

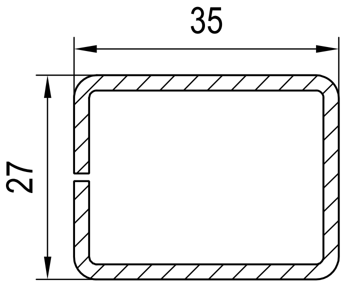
2) Seal the screw heads in the bottom horizontal rebate
1) Integrated gasket(s): see current price list

transom - traverse - traverso - travesaño - Sprosse

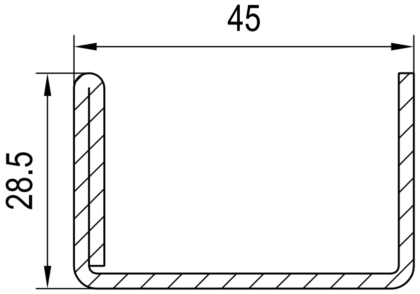


FD21 3.9x19mm -> |F|
Self-drilling window screw

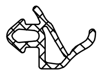
|P| 279364 **aluskin**
Aluminium shells



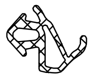
|F| 229029 s=1.25mm 2.5/1.7cm4
|F| 229030 s=2.0mm 3.7/2.5cm4
Reinforcements



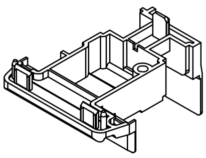
|F| 289066 s=2.0mm 7.7/2.0cm4
Reinforcements



|X| 447340, 449340
Gaskets



TPE
|X| 447042, 449042
Gaskets



|C| 670064
End caps

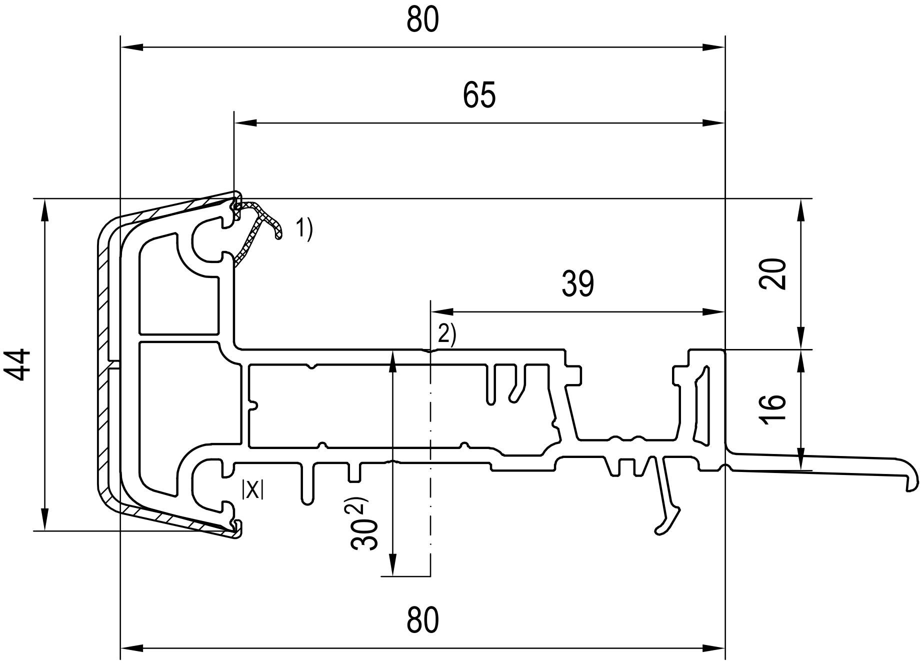
2) Screw the false mullion directly to the sash profile
1) Integrated gasket(s): see current price list

false mullion - battement - scambio battuta - batiente - Stulp

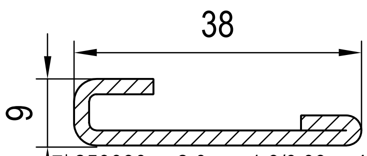
Scale 1:1
02_E_01_7*
en

(large)
Classic-line (CL)

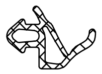
Main Profiles: False Mullion Sashes / False Mullions
False mullion 67mm: 170x64



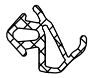
|P| 249365 **aluskin**
Aluminium shells



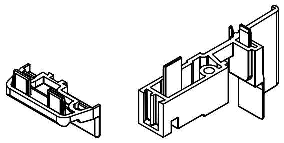
|F| 259080 s=2.0mm 1.8/0.08cm4
Reinforcements



|X| 447340, 449340
Gaskets



TPE
|X| 447042, 449042
Gaskets

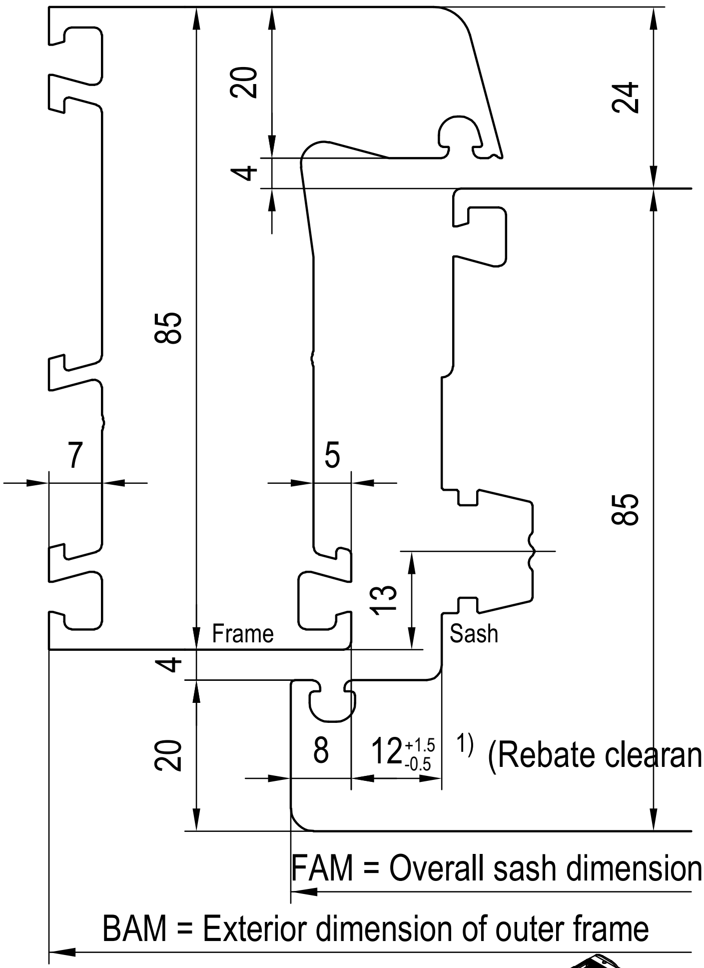


|C| 670365 + |C| 670465
End caps

2) Screw the false mullion directly to the sash profile
1) Integrated gasket(s): see current price list

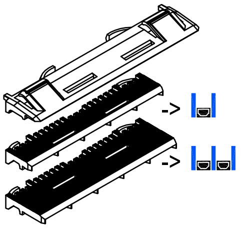
false mullion - battement - scambio battuta - batiente - Stulp

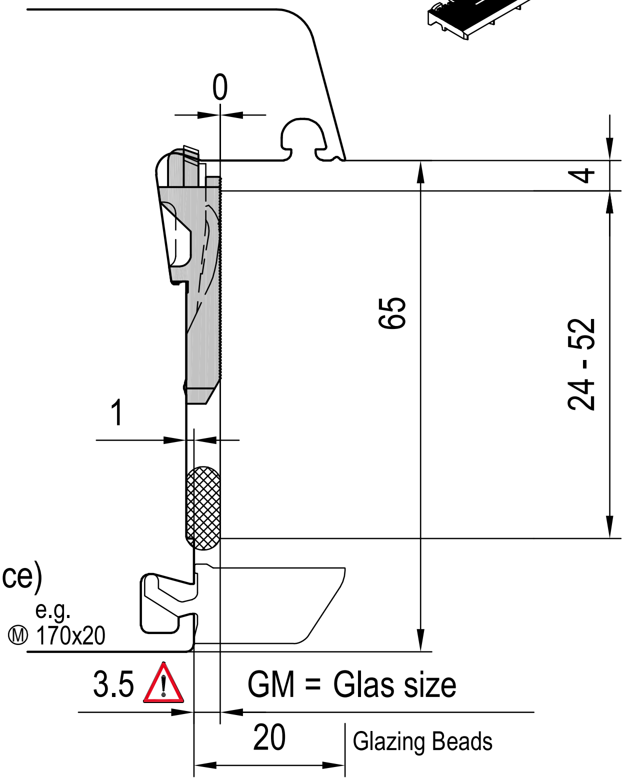
False mullion 44mm: 170x65



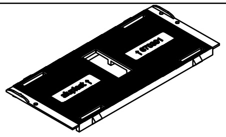
≥ 24mm Glazing thickness
Bonding of pane

Ⓜ |J| 642262 Bonding of pane
Ⓜ |J| 642261/646265 Bonding of pane
Ⓜ |J| 642263/646266 Bonding of pane
(depends on glazing bead design and gaskets)

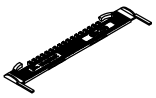


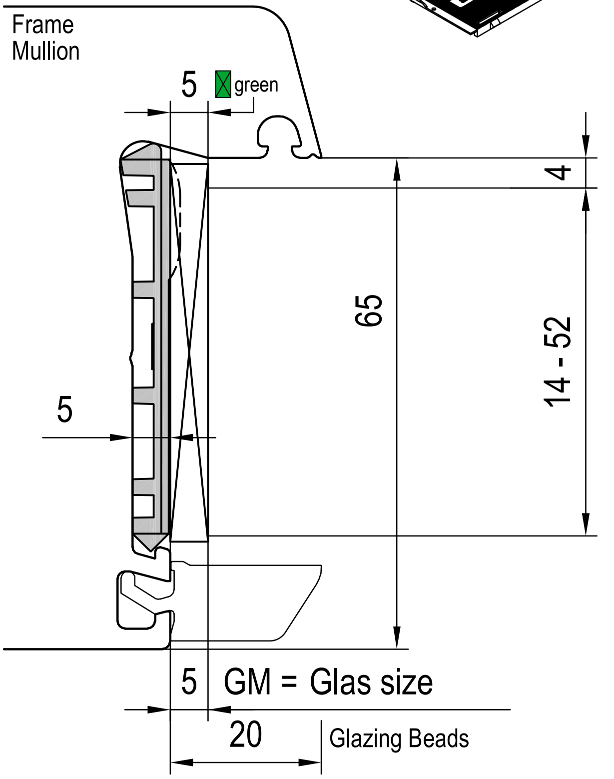


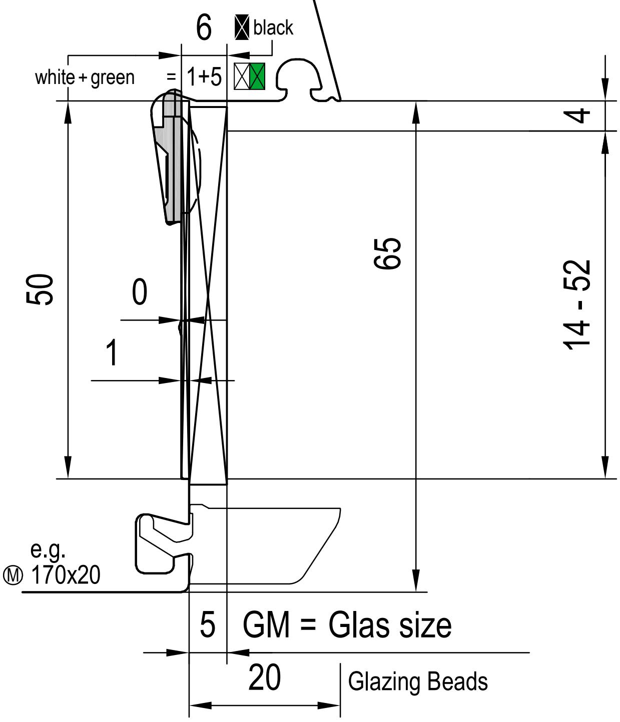
|A| 670301 Spacer
(depends on glazing bead design and gaskets)



Ⓜ |A| 650250 Spacer
(depends on glazing bead design and gaskets)

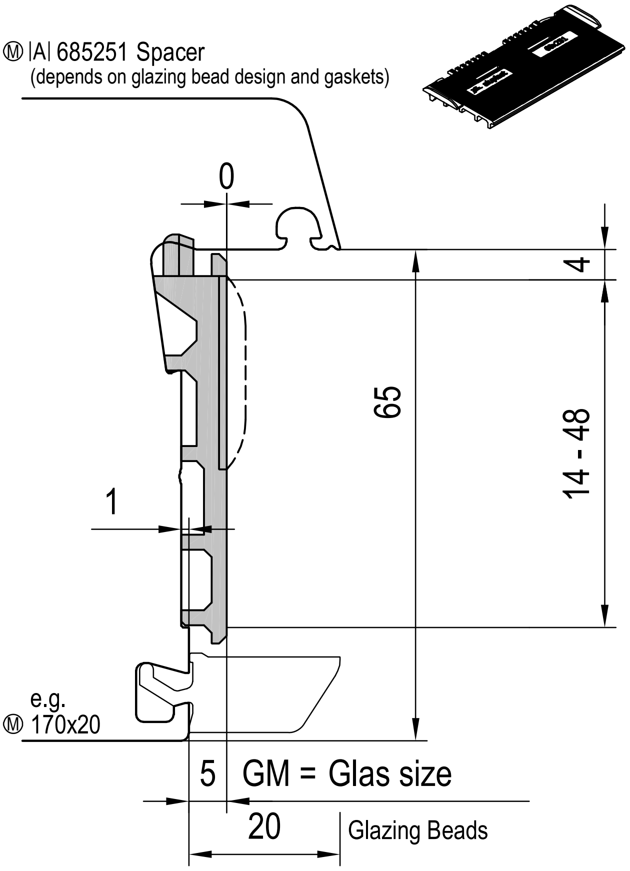




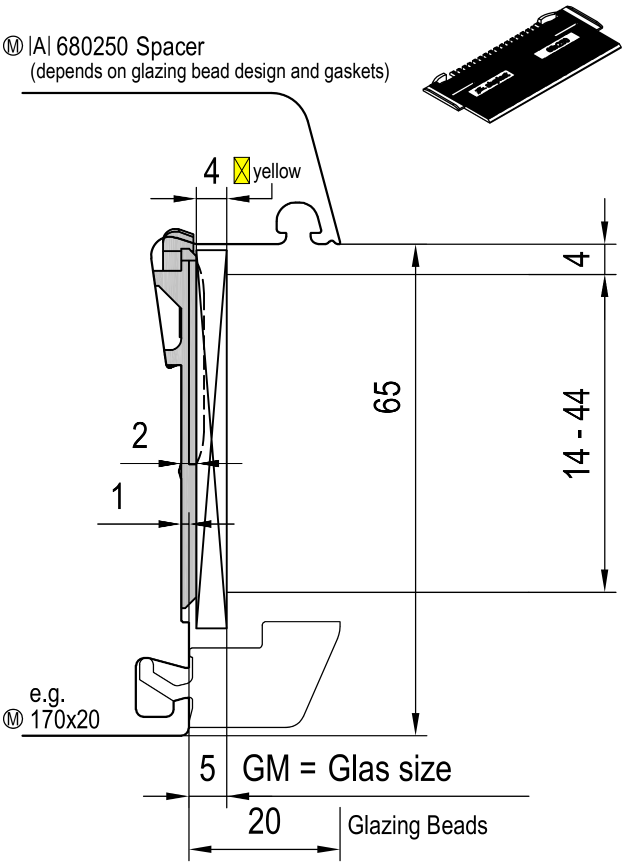


1) Rebate clearance of main entrance door on left and right side = 13 mm

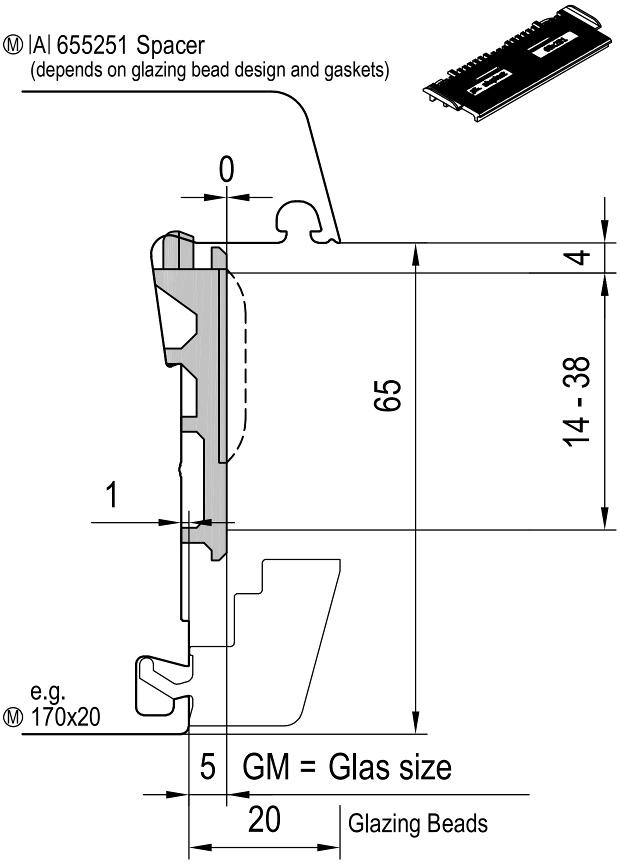
Ⓜ |A| 685251 Spacer
(depends on glazing bead design and gaskets)



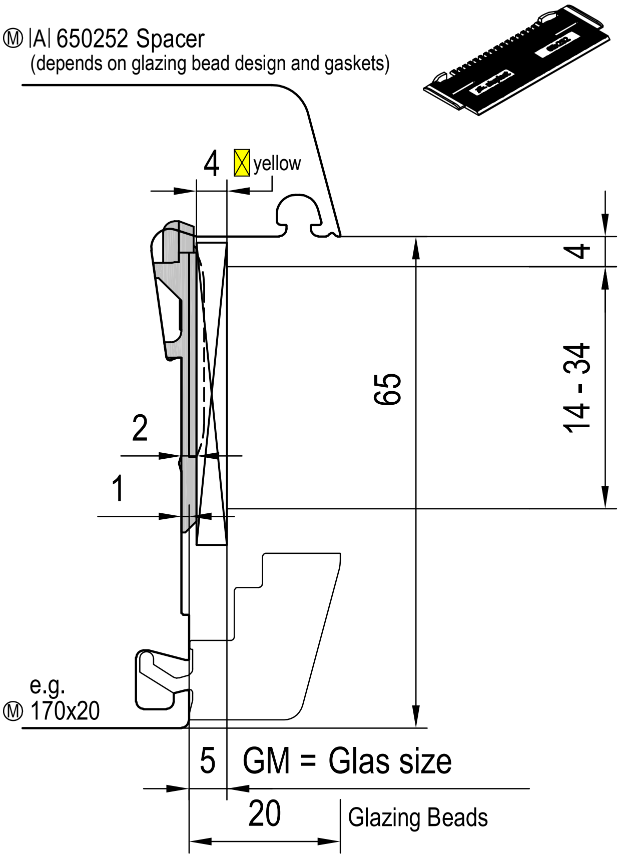
Ⓜ |A| 680250 Spacer
(depends on glazing bead design and gaskets)

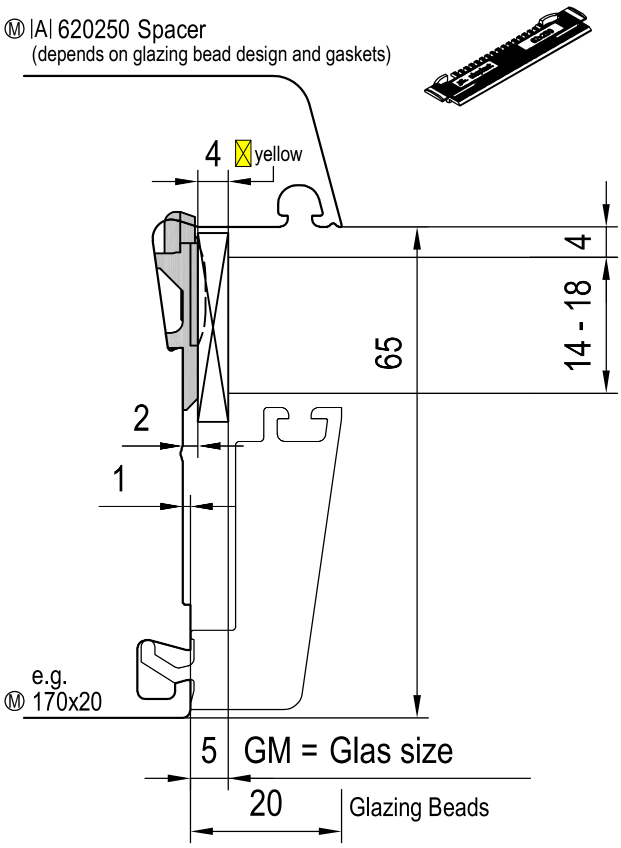


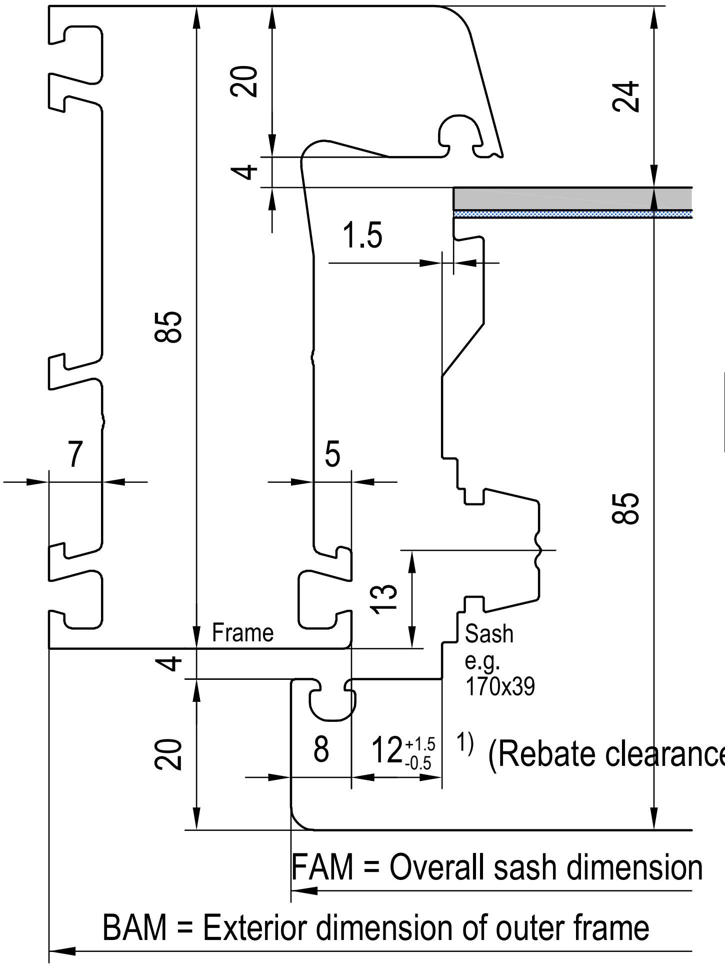
Ⓜ |A| 655251 Spacer
(depends on glazing bead design and gaskets)

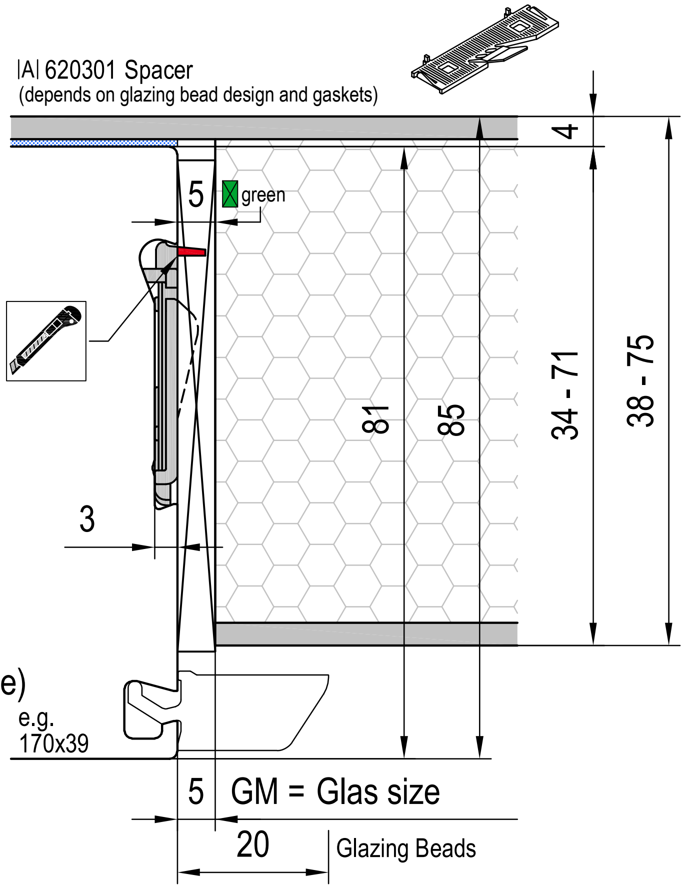


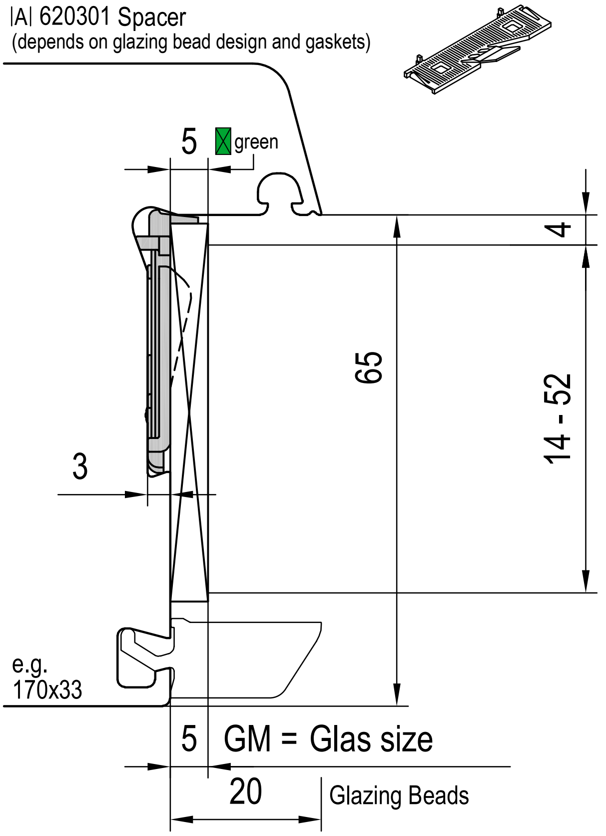
Ⓜ |A| 650252 Spacer
(depends on glazing bead design and gaskets)

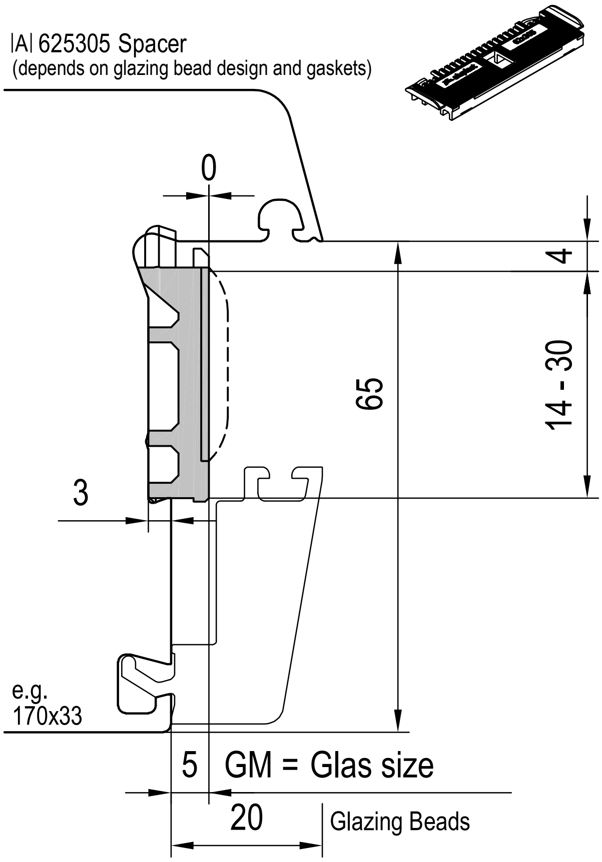



Ⓜ |A| 620250 Spacer
(depends on glazing bead design and gaskets)
4
☒ yellow
4
14 - 18
65
2
1
e.g.
Ⓜ 170x20
5
GM = Glas size
20
Glazing Beads




|A| 620301 Spacer
(depends on glazing bead design and gaskets)


|A| 620301 Spacer
(depends on glazing bead design and gaskets)

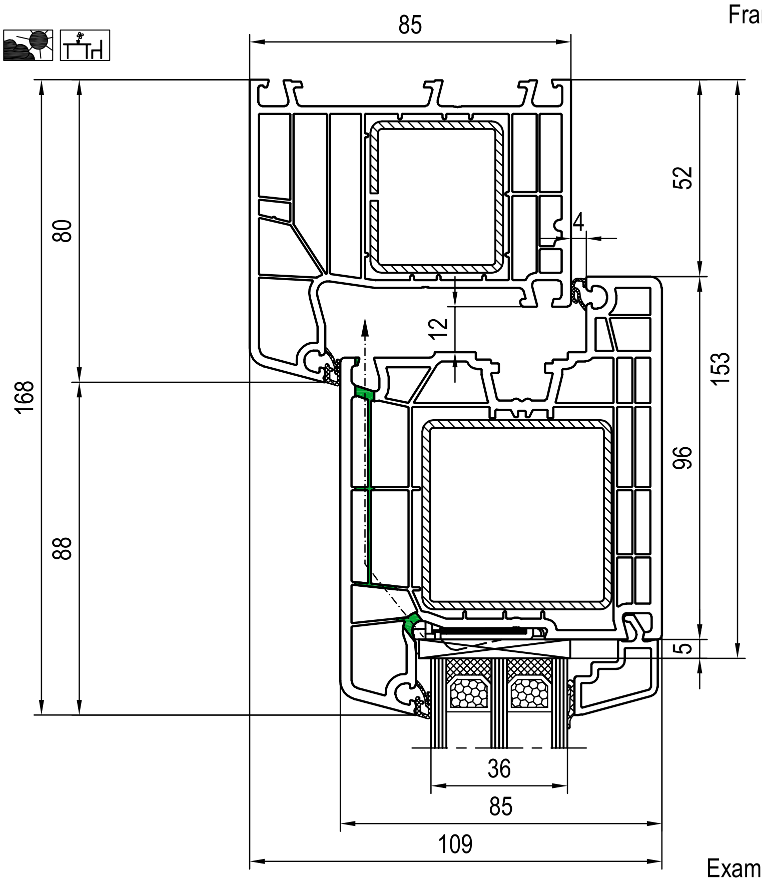

|A| 625305 Spacer
(depends on glazing bead design and gaskets)

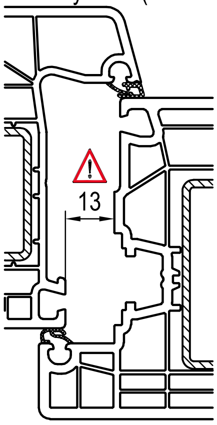
1) Rebate clearance of main entrance door on left and right side = 13 mm

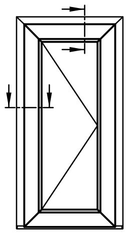
Combinations: frame - sash

Glazing beads 120636/120666
Sash 170x33
Frame 170x03

Combinations: frame - sash
laterally (Rebate clearance)





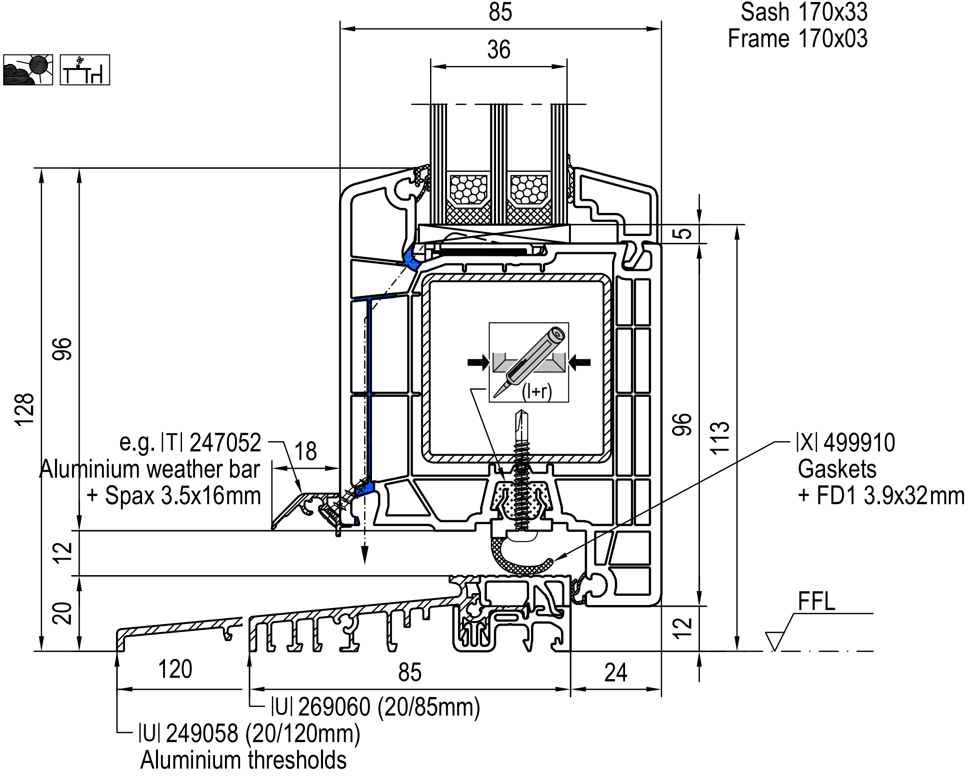


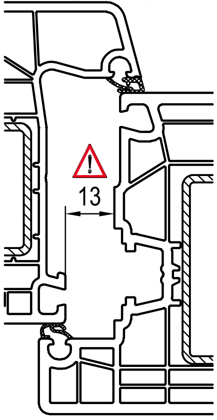
Example top

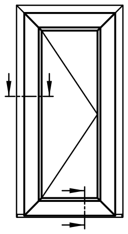
Combinations: thresholds - sash

Glazing beads 120636/120666
Sash 170x33
Frame 170x03

Combinations: frame - sash
laterally (Rebate clearance)





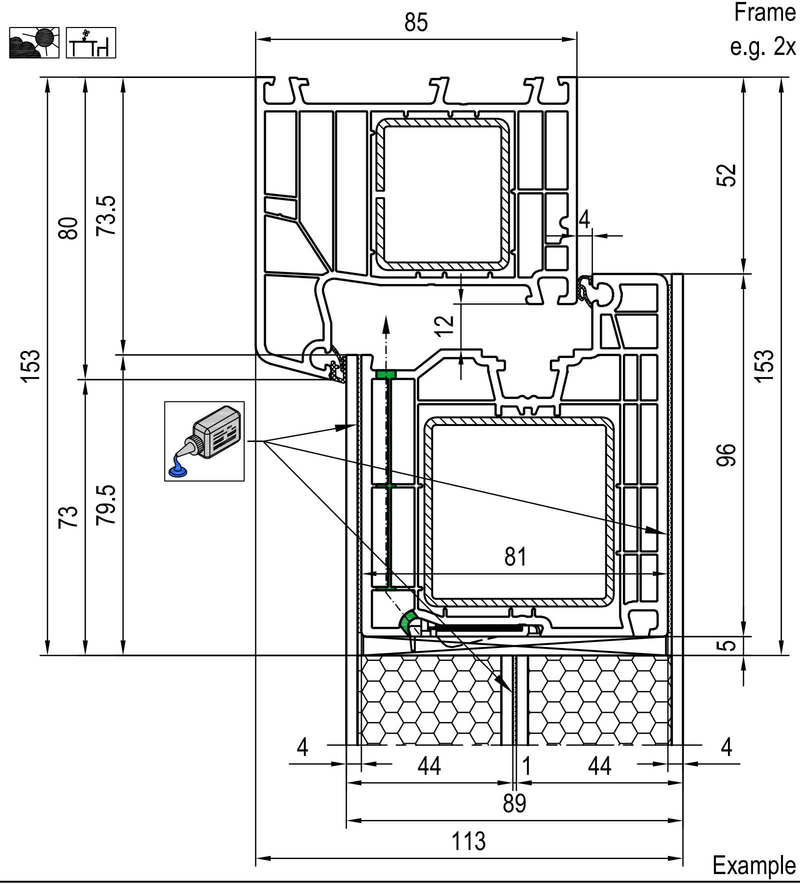


Seal thresholds laterally
with silicone rubber!

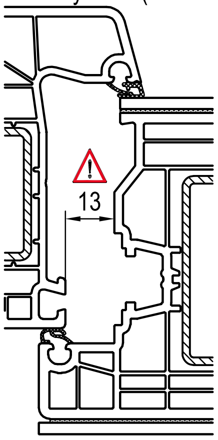
Example bottom

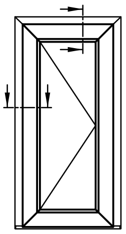
Combinations: frame - sash
leaf-enclosing

Glazing beads -
Sash 170x39
Frame 170x03
e.g. 2x Panel 44mm



Combinations: frame - sash
laterally (Rebate clearance)

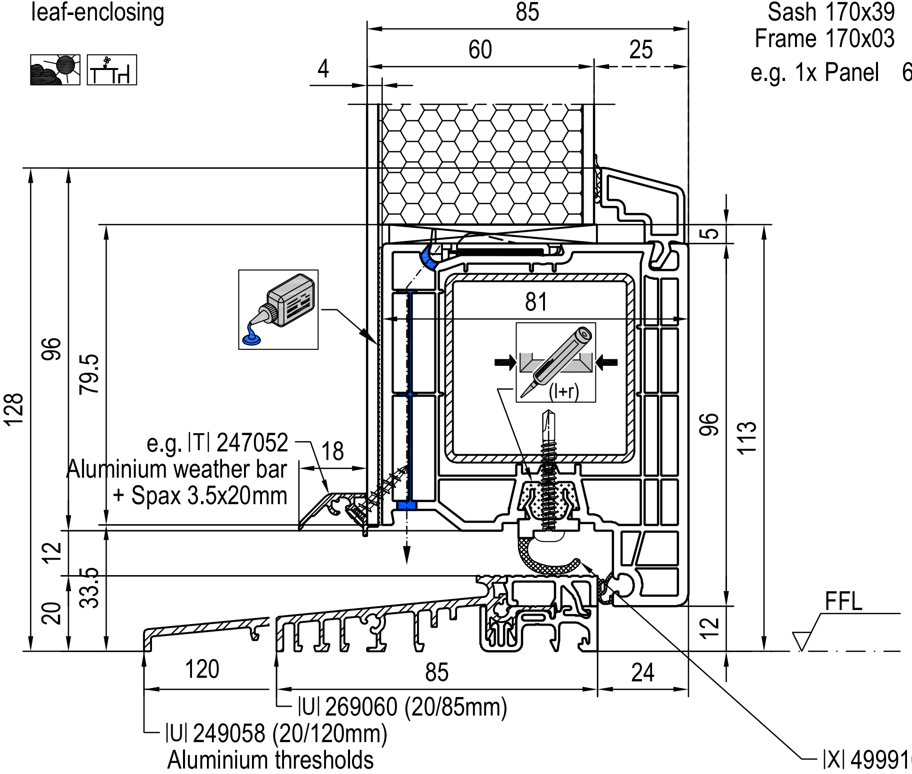




Example top

Combinations: thresholds - sash
leaf-enclosing

Glazing beads 120636/120666
Sash 170x39
Frame 170x03
e.g. 1x Panel 60mm



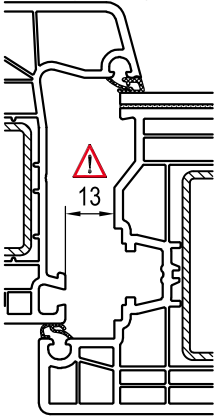
e.g. |T| 247052
Aluminium weather bar
+ Spax 3.5x20mm

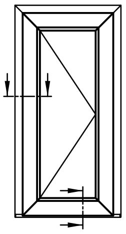
|U| 269060 (20/85mm)

|U| 249058 (20/120mm)
Aluminium thresholds

|X| 499910
Gaskets
+ FD1 3.9x32mm

Combinations: frame - sash
laterally (Rebate clearance)

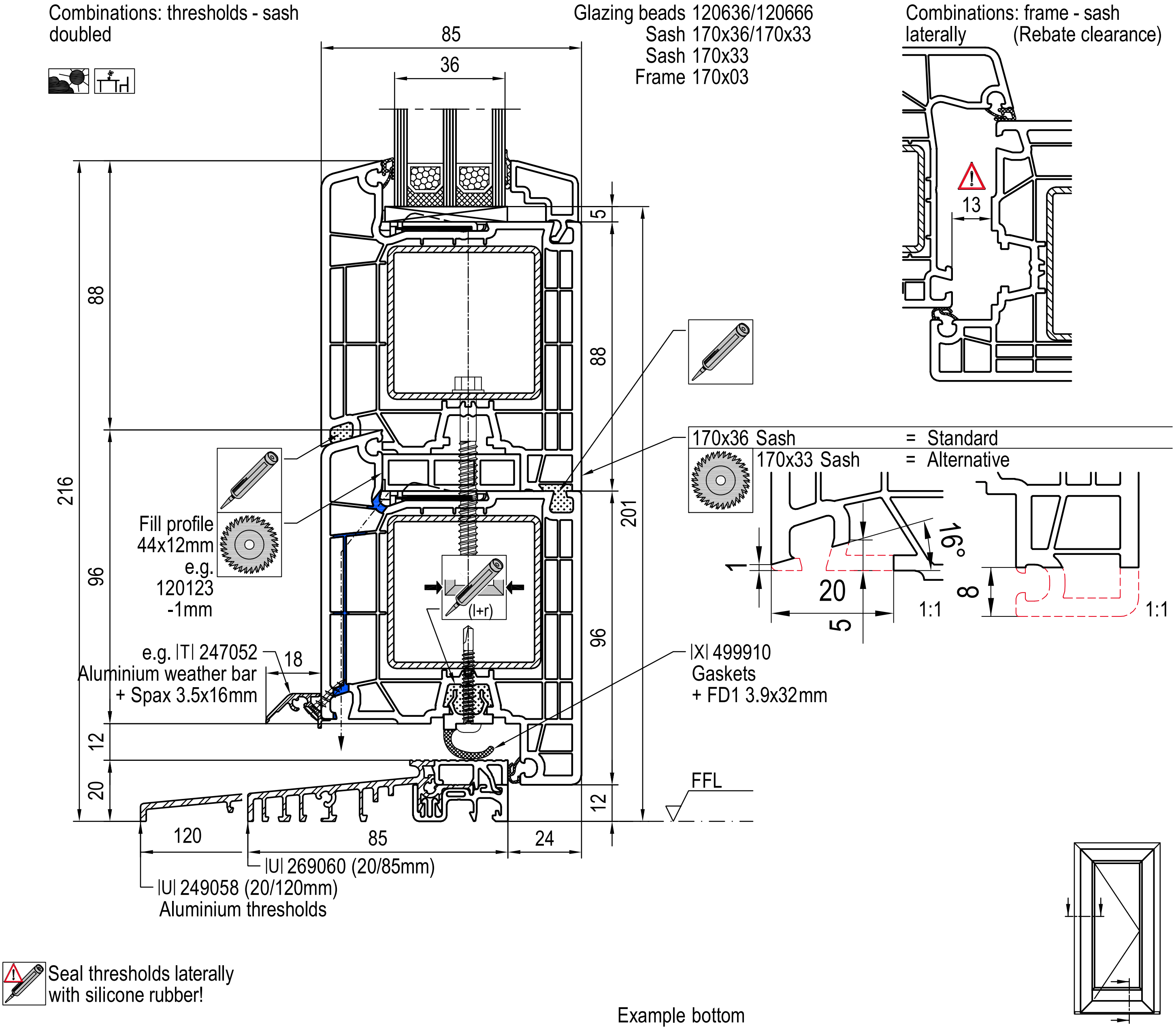




⚠ Seal thresholds laterally
with silicone rubber!

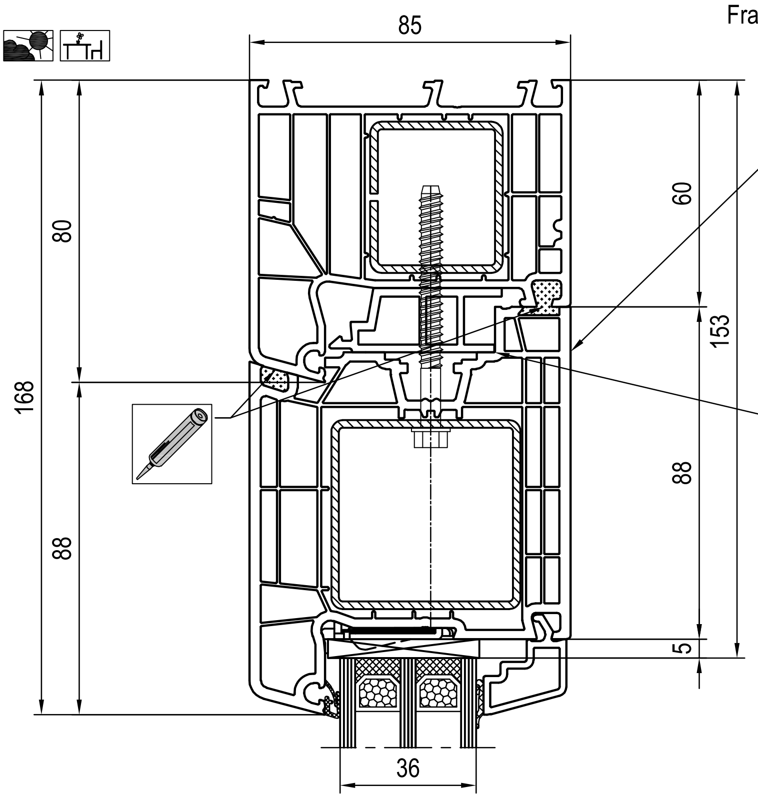
Example bottom

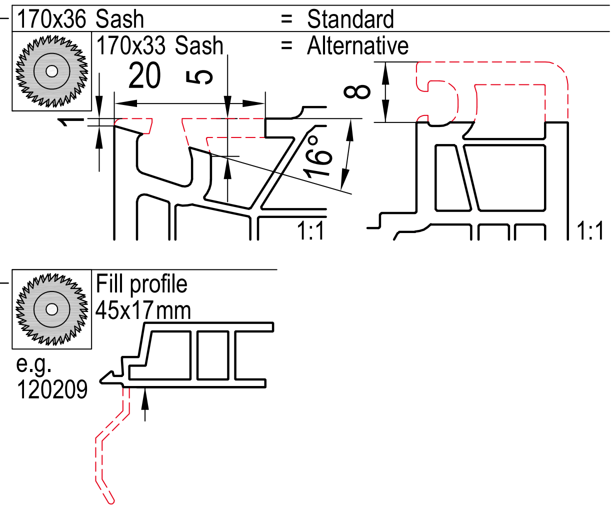
Combinations: Residential door thresholds
Frame/Threshold - Leaf-enclosing sash


Combinations: thresholds - sash doubled
85
36
Glazing beads 120636/120666
Sash 170x36/170x33
Sash 170x33
Frame 170x03
Combinations: frame - sash laterally (Rebate clearance)
13
216
88
96
12
20
5
88
96
201
12
Fill profile 44x12mm e.g. 120123 -1mm
(l+r)
e.g. |T| 247052
18
Aluminium weather bar + Spax 3.5x16mm
170x36 Sash = Standard
170x33 Sash = Alternative
1
20
5
16°
8
1:1
1:1
|X| 499910 Gaskets + FD1 3.9x32mm
FFL
120
85
24
|U| 269060 (20/85mm)
|U| 249058 (20/120mm) Aluminium thresholds
Seal thresholds laterally with silicone rubber!
Example bottom

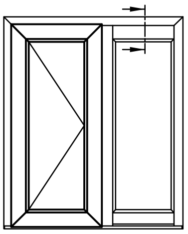
Combinations: frame - sash
Side element

Glazing beads 120636/120666
Sash 170x36/170x33
Frame 170x03





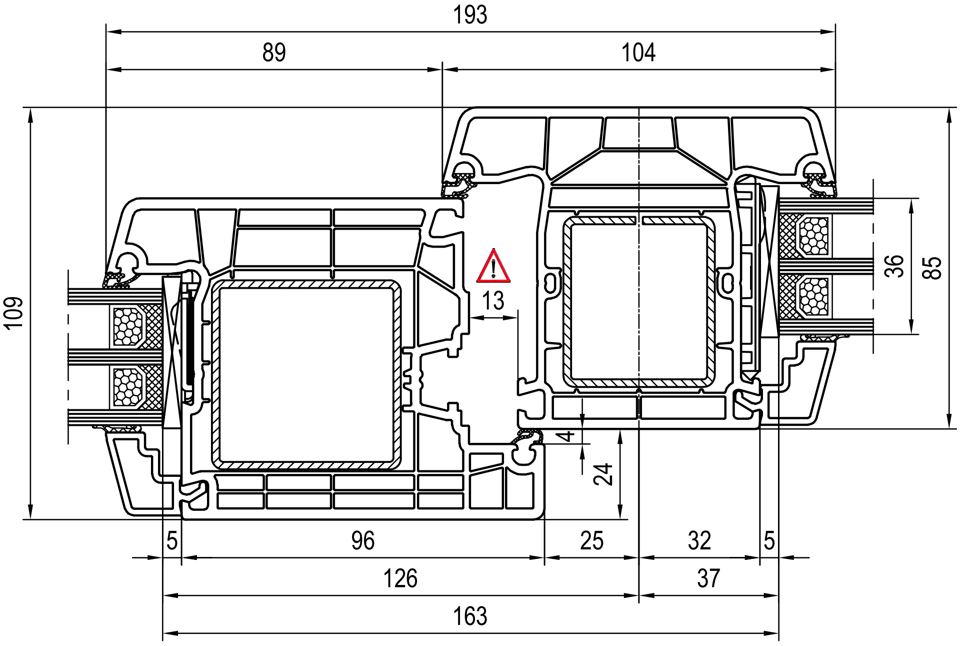
Coloured profiles require special measures!

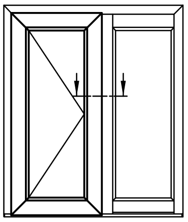


Example top

Combinations: sash - mullion - fixed glazing
Side element: Threshold continuous

Glazing beads 120636/120666
Sash 170x33
Mullion 170x44



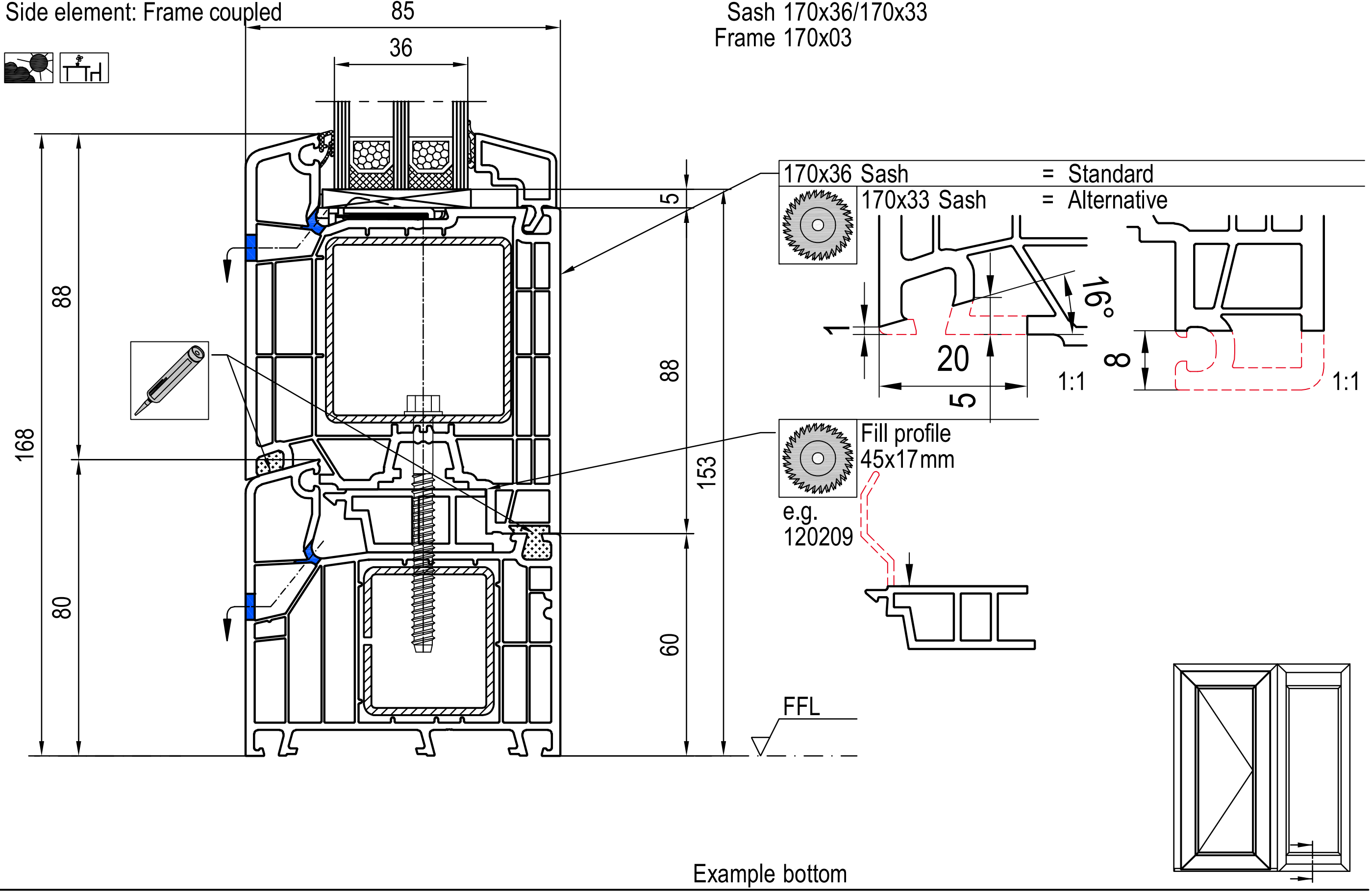


Example laterally (Rebate clearance)

Combinations: Residential door thresholds
Side element (top) / Side element (lateral) continuous

Combinations: frame - sash
Side element: Frame coupled

Glazing beads 120636/120666
Sash 170x36/170x33
Frame 170x03



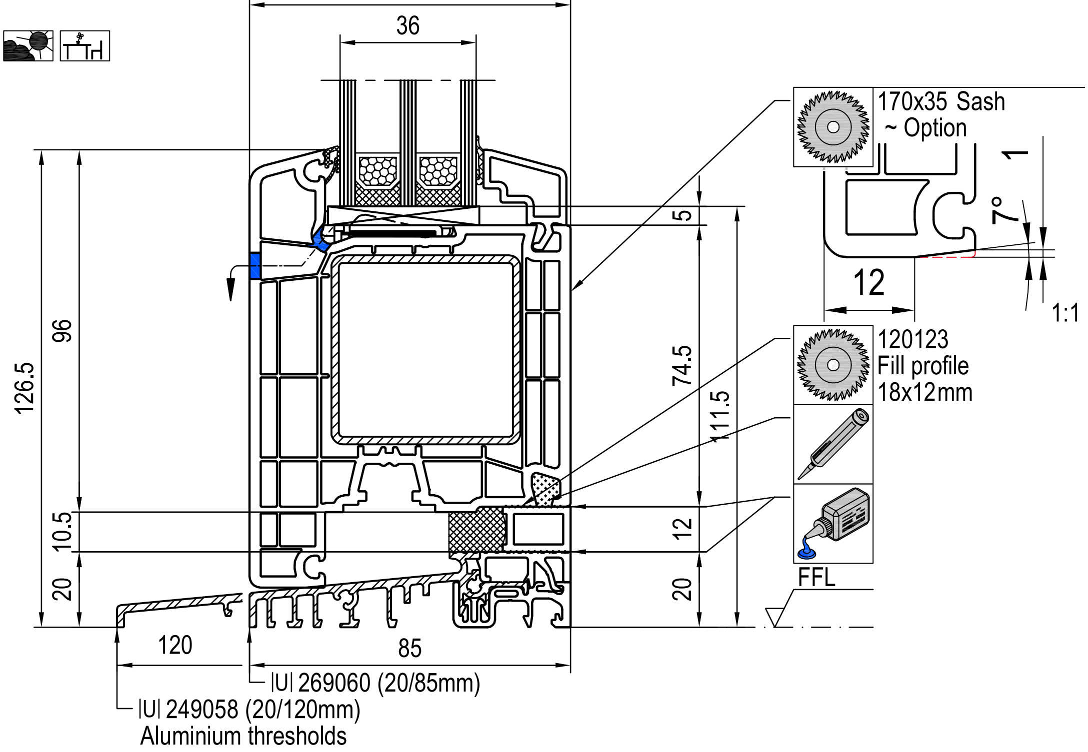
170x36 Sash = Standard
170x33 Sash = Alternative

Fill profile 45x17mm
e.g. 120209

Example bottom

Combinations: thresholds - sash
Side element: Threshold continuous

Glazing beads 120636/120666
Sash 170x35

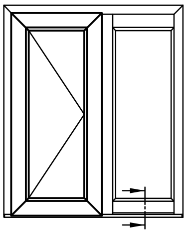


170x35 Sash
~ Option

120123
Fill profile
18x12mm

|U| 269060 (20/85mm)
|U| 249058 (20/120mm)
Aluminium thresholds

Seal thresholds laterally
with silicone rubber!

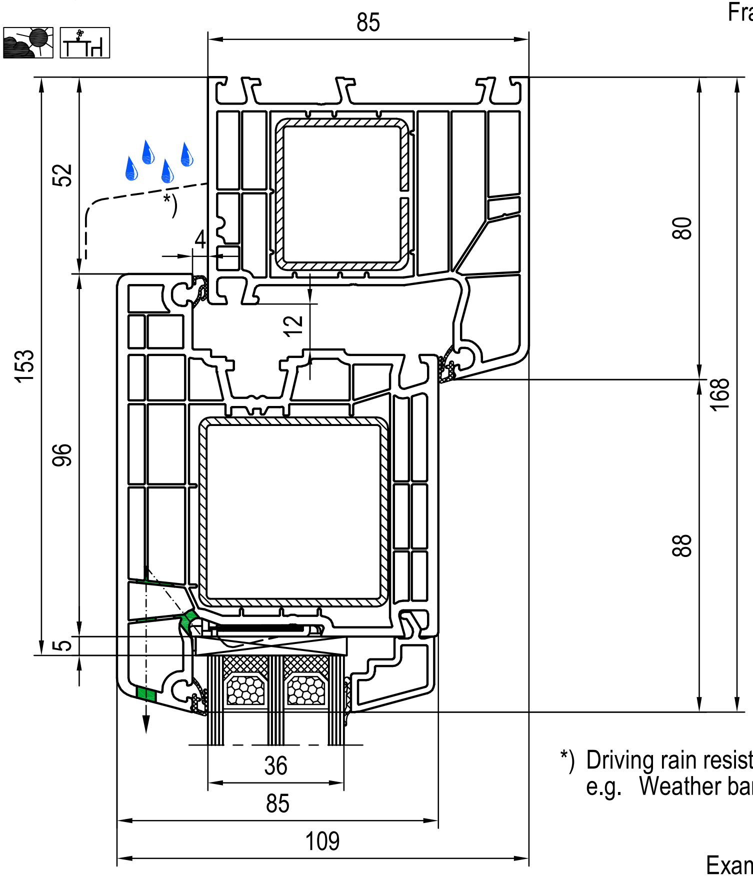


Example bottom

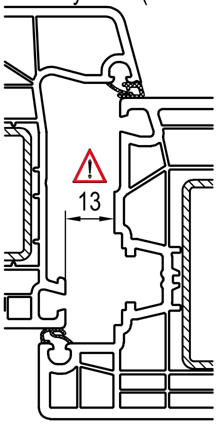
Combinations: frame - sash
opening outwards

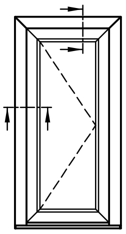
Glazing beads 120636/120666
Sash 170x35
Frame 170x03

Combinations: frame - sash
laterally (Rebate clearance)



*) Driving rain resistant
e.g. Weather bar



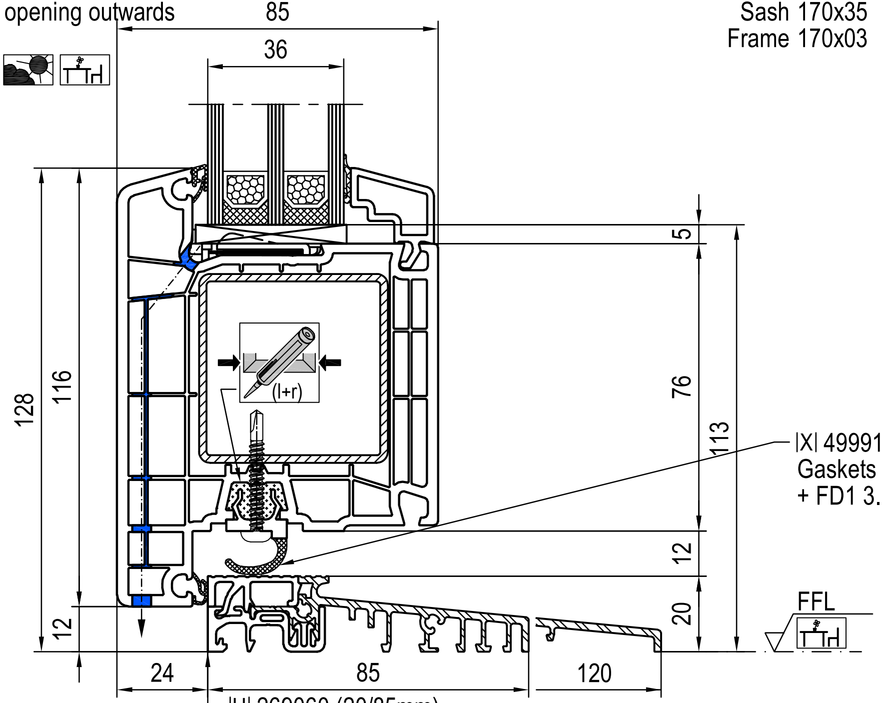


Example top

Combinations: thresholds - sash
opening outwards

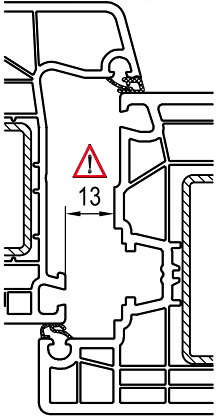
Glazing beads 120636/120666
Sash 170x35
Frame 170x03

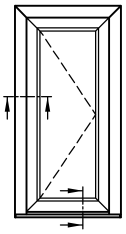
Combinations: frame - sash
laterally (Rebate clearance)



|X| 499910
Gaskets
+ FD1 3.9x32mm

|U| 269060 (20/85mm)
|U| 249058 (20/120mm)
Aluminium thresholds



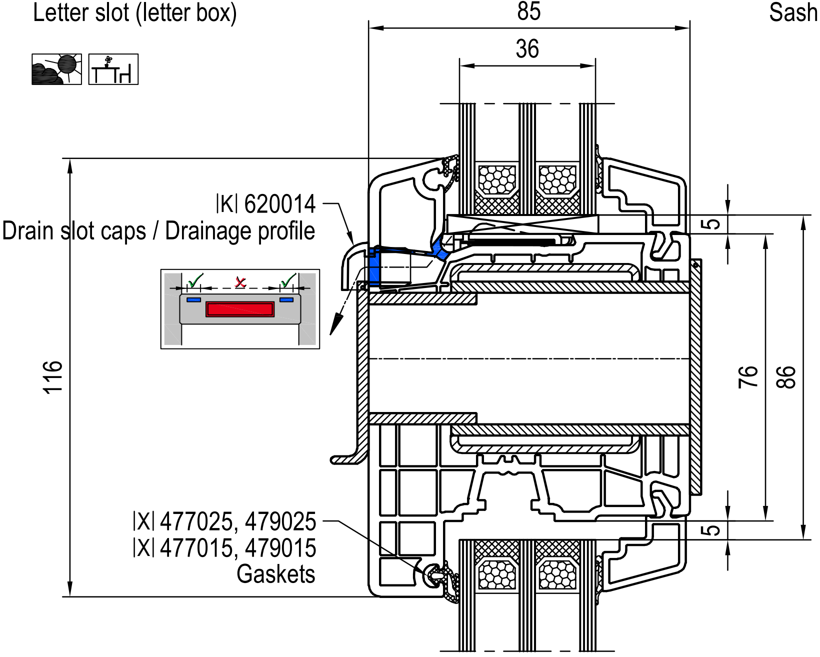


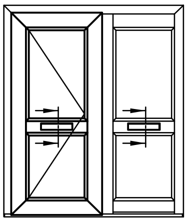
Seal thresholds laterally
with silicone rubber!

Example bottom

Combinations: mullions / transoms, glass-dividing
Letter slot (letter box)

Glazing beads 120636/120666
Sash 170x35 ~ Mullion



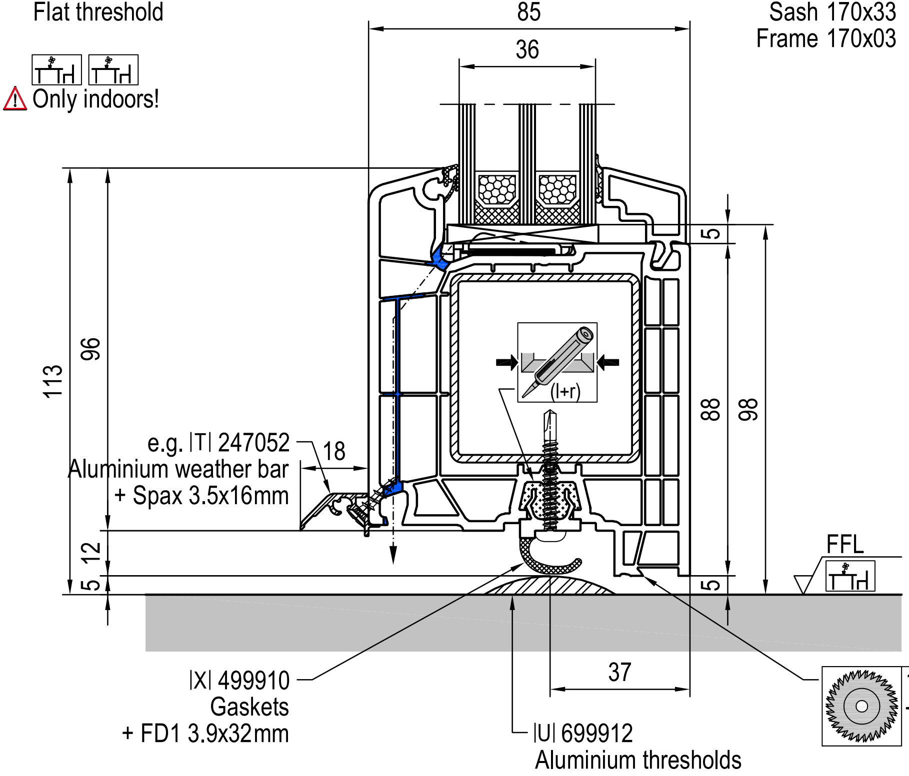


Example Cross-bar (Mullion horizontal)

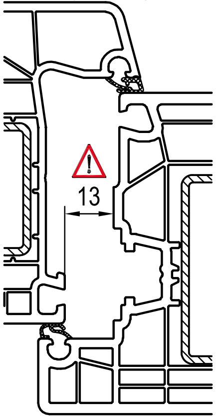
Combinations: thresholds - sash
Flat threshold

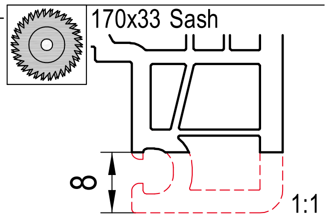
⚠ Only indoors!

Glazing beads 120636/120666
Sash 170x33
Frame 170x03

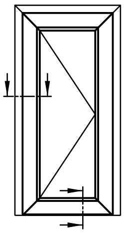


Combinations: frame - sash
laterally (Rebate clearance)

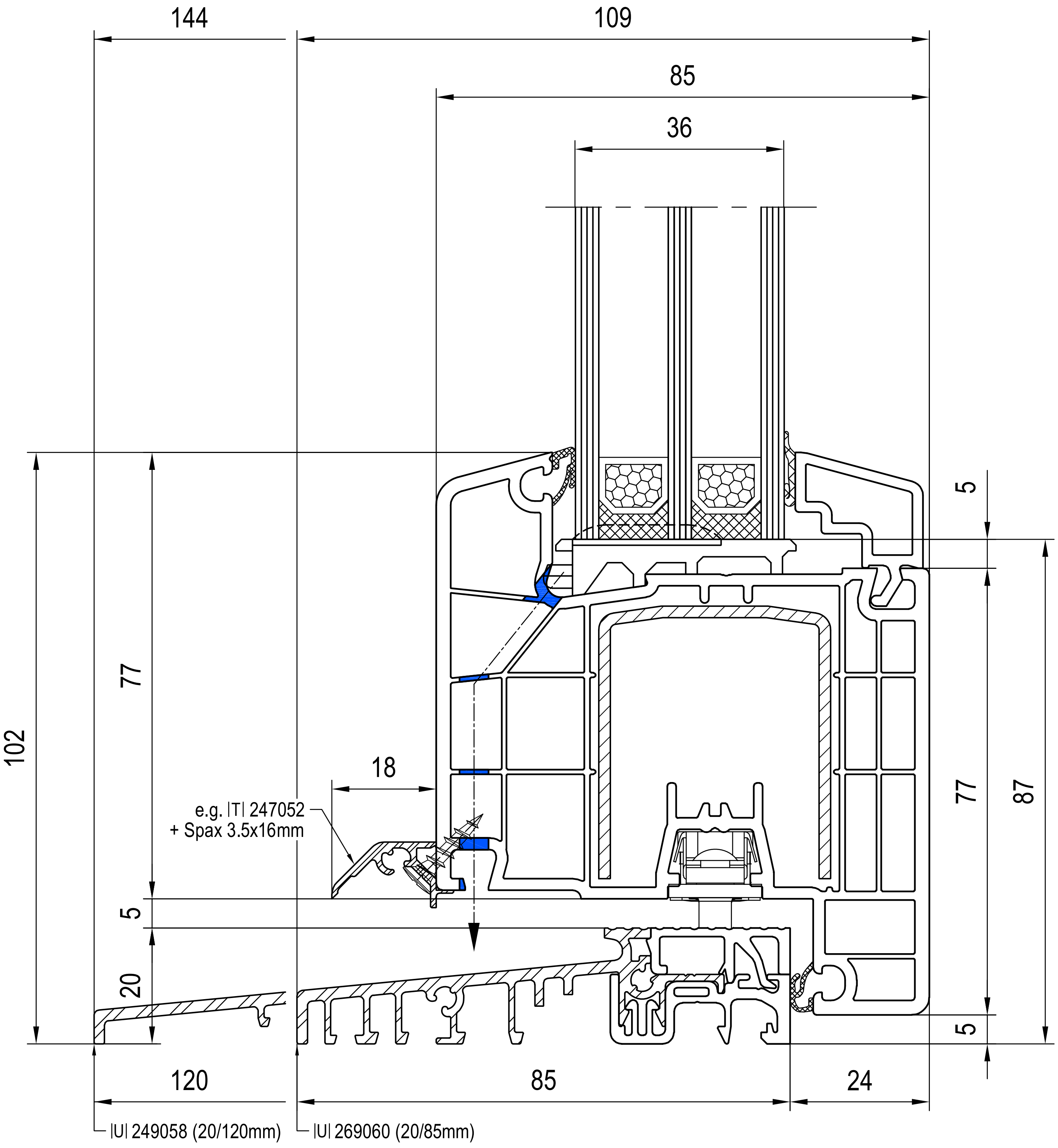




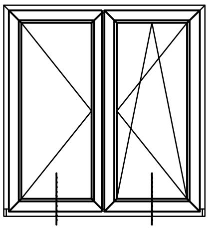
Example bottom



Combinations: Residential door thresholds
Letter box / Flat threshold - Sash

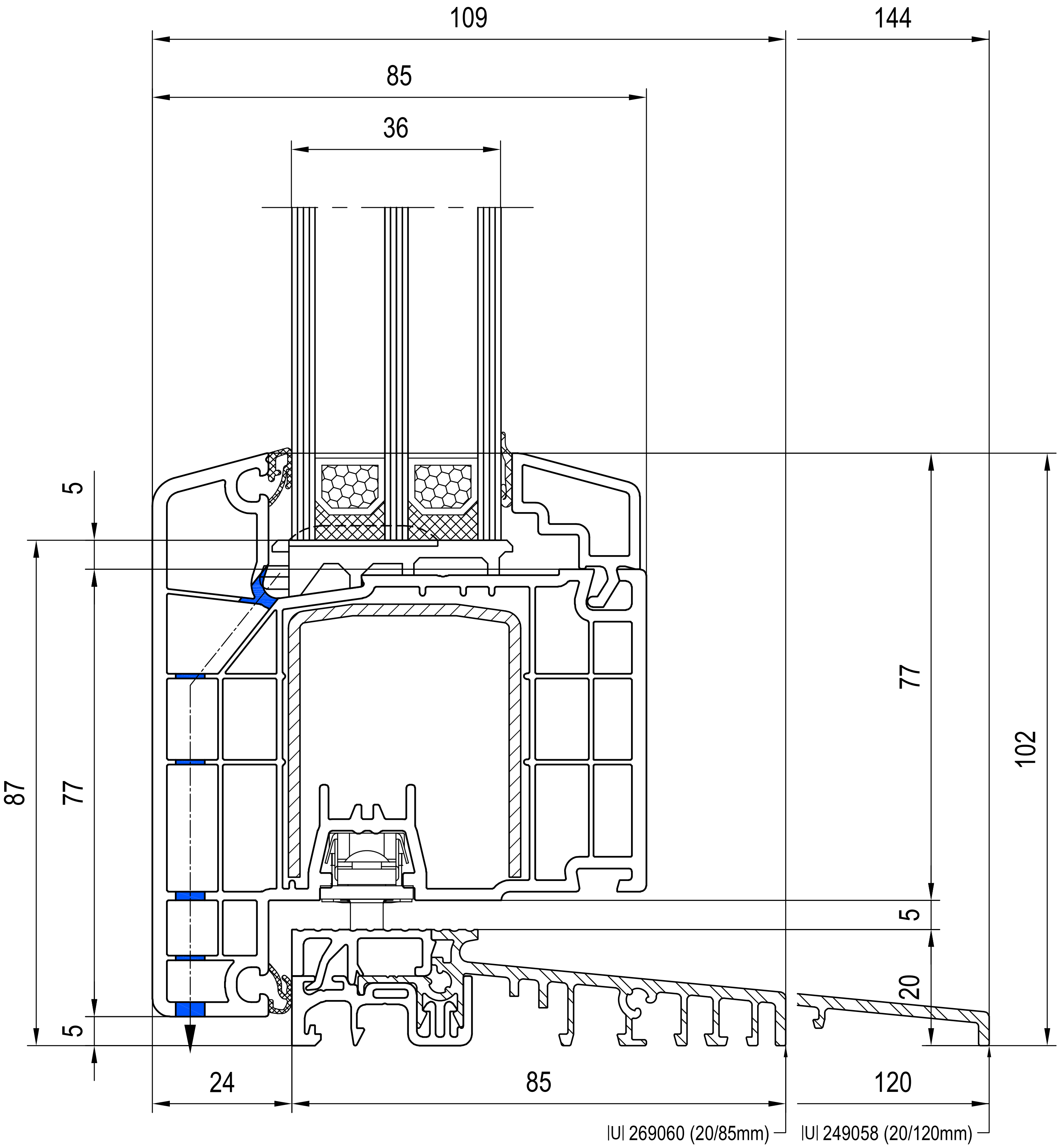


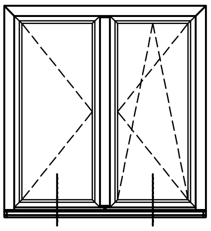
Seal thresholds laterally with silicone rubber!



Combinations: tilt-and-turn door threshold 249058, 269060

120636/120666 Glazing bead Sash 170x30





Seal thresholds laterally with silicone rubber!

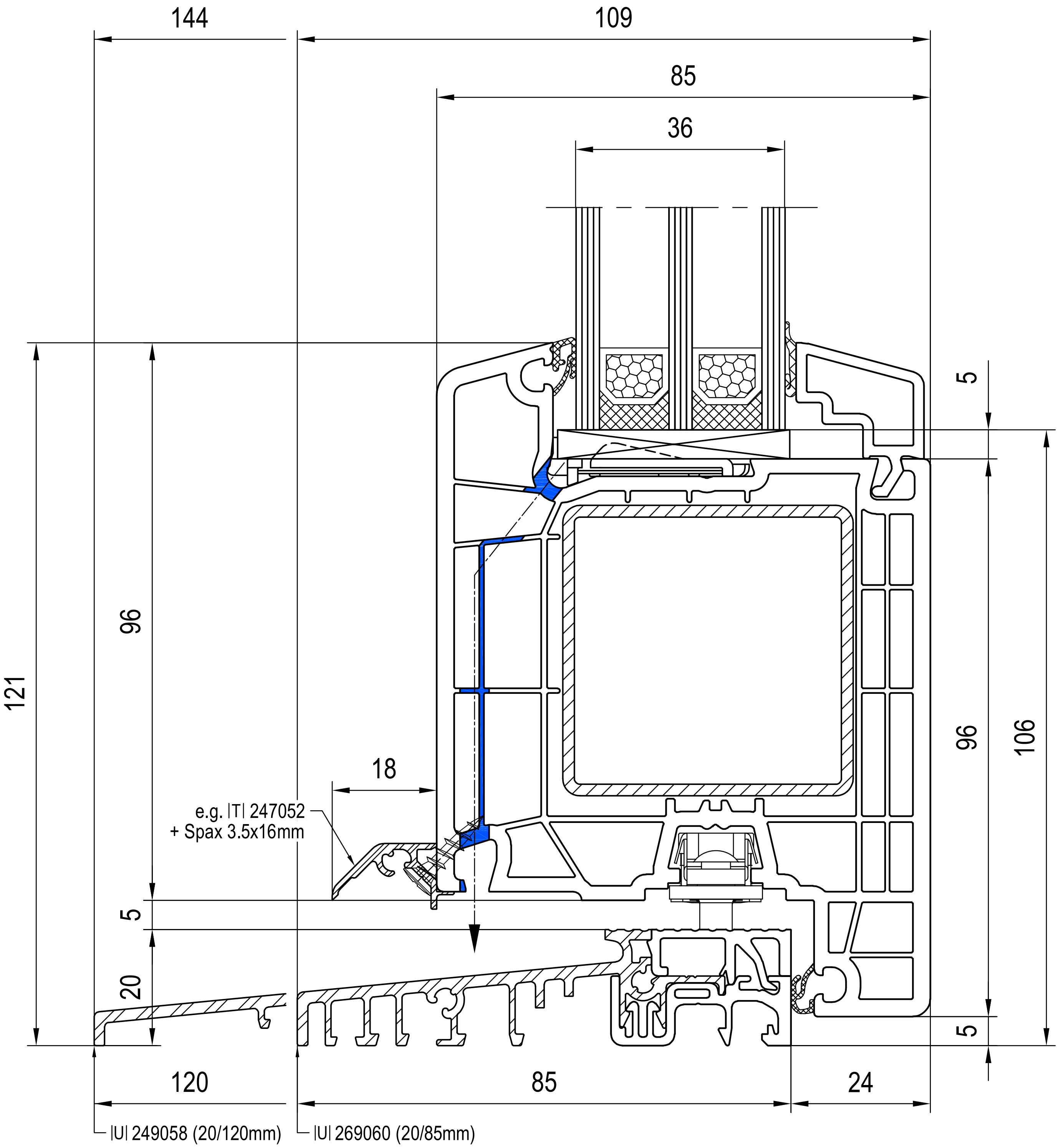
Scale 1:1
03_C_01_7*
en May be subject to change and errors excepted!

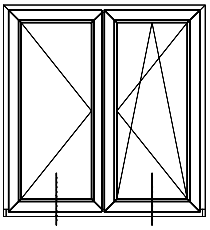
Combinations: tilt-and-turn door threshold

120636/120666 Glazing bead

249058, 269060

Sash 170x31



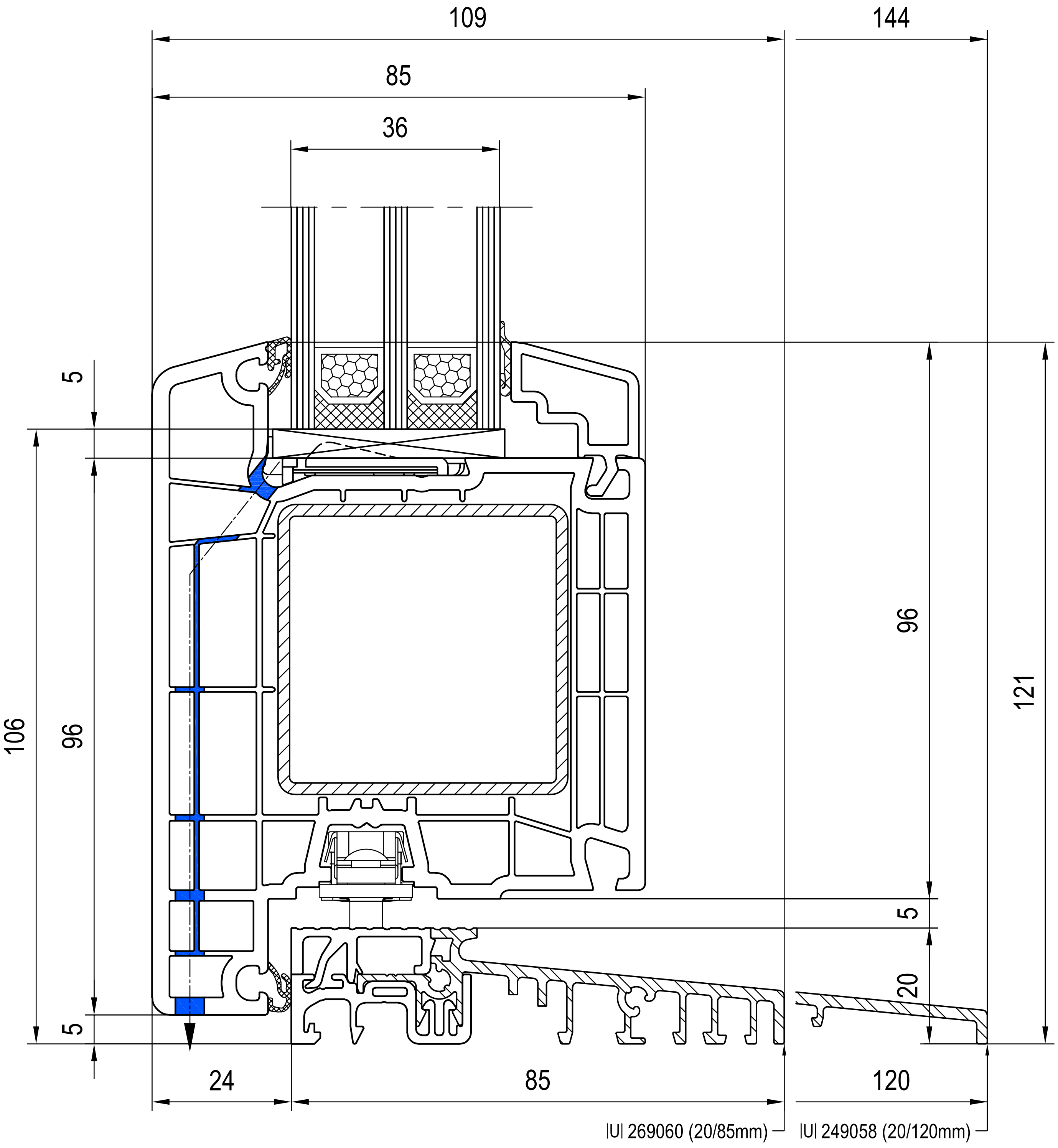


Seal thresholds laterally
with silicone rubber!

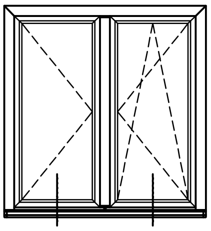
Scale 1:1
03_C_01_7*
en May be subject to change
and errors excepted!

Combinations: tilt-and-turn door threshold 249058, 269060

120636/120666 Glazing bead Sash 170x33



Seal thresholds laterally with silicone rubber!



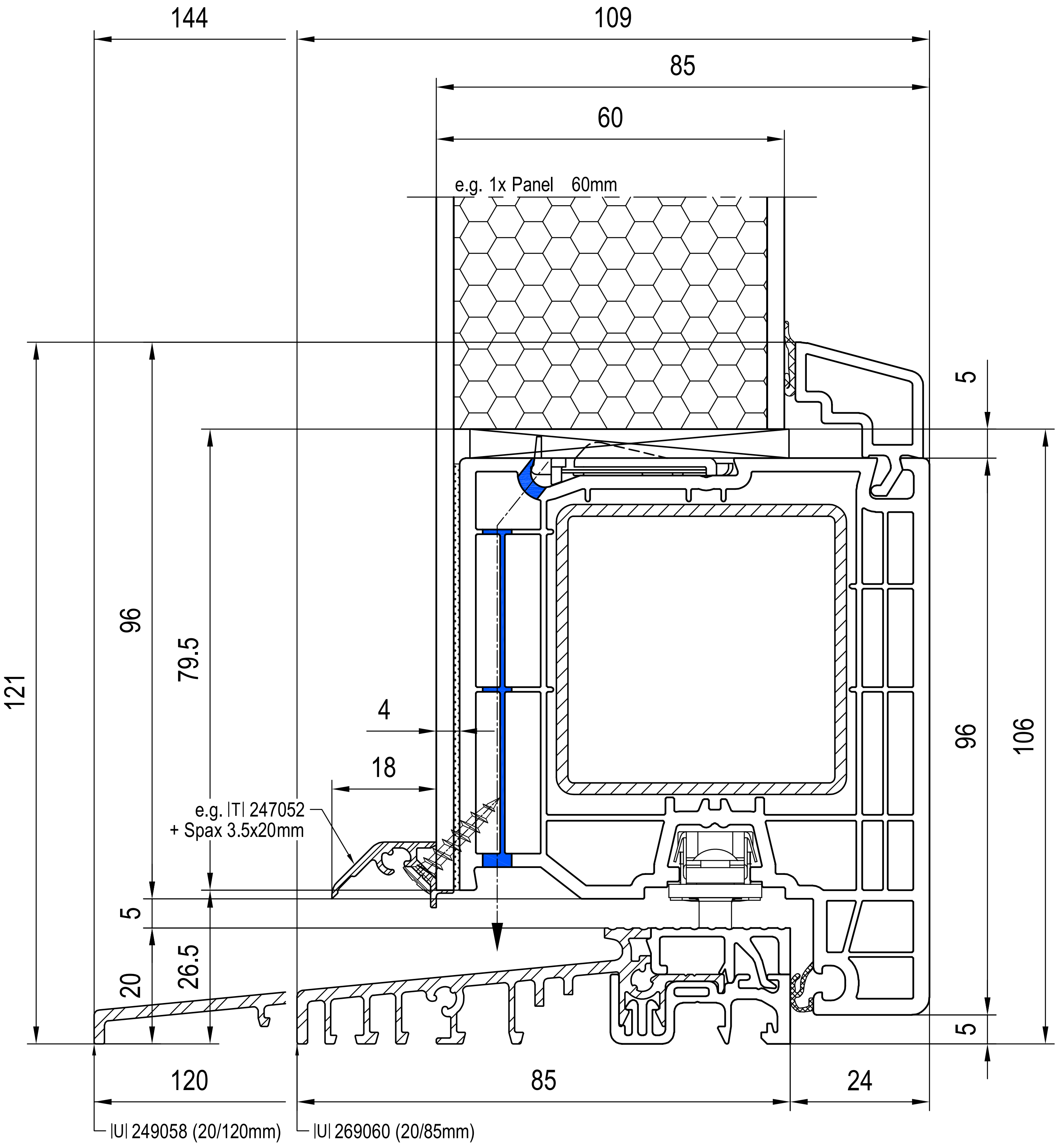
Scale 1:1
03_C_01_7*
en May be subject to change and errors excepted!

Combinations: tilt-and-turn door threshold

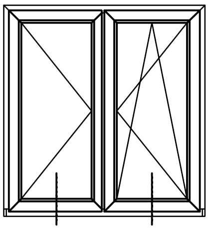
249058, 269060

120636/120666 Glazing bead

Sash 170x35



Seal thresholds laterally
with silicone rubber!



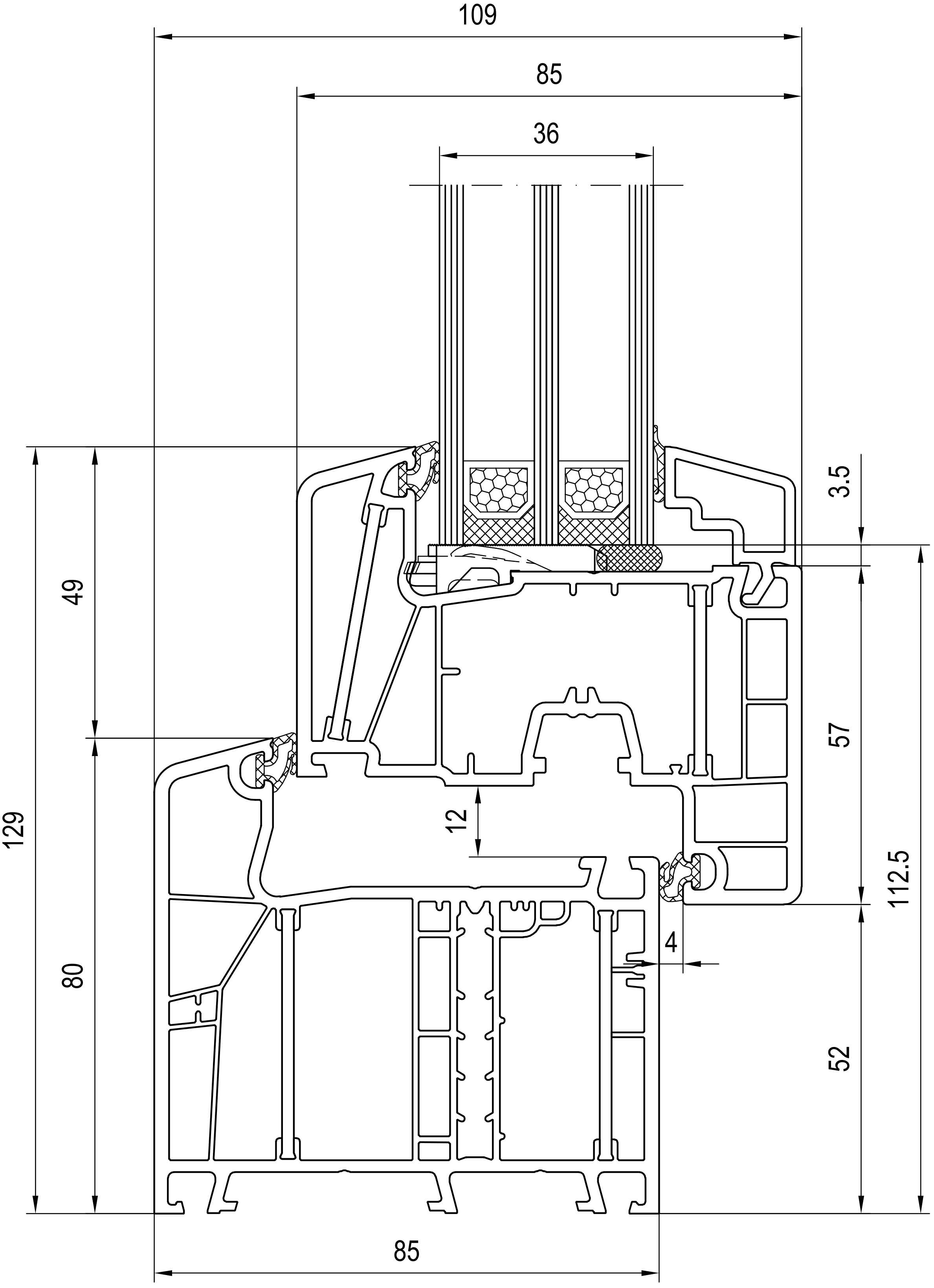
Scale 1:1
03_C_01_7*
en

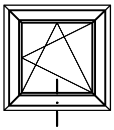
Combinations: tilt-and-turn door threshold

249058, 269060

120636/120666 Glazing bead

Sash 170x39

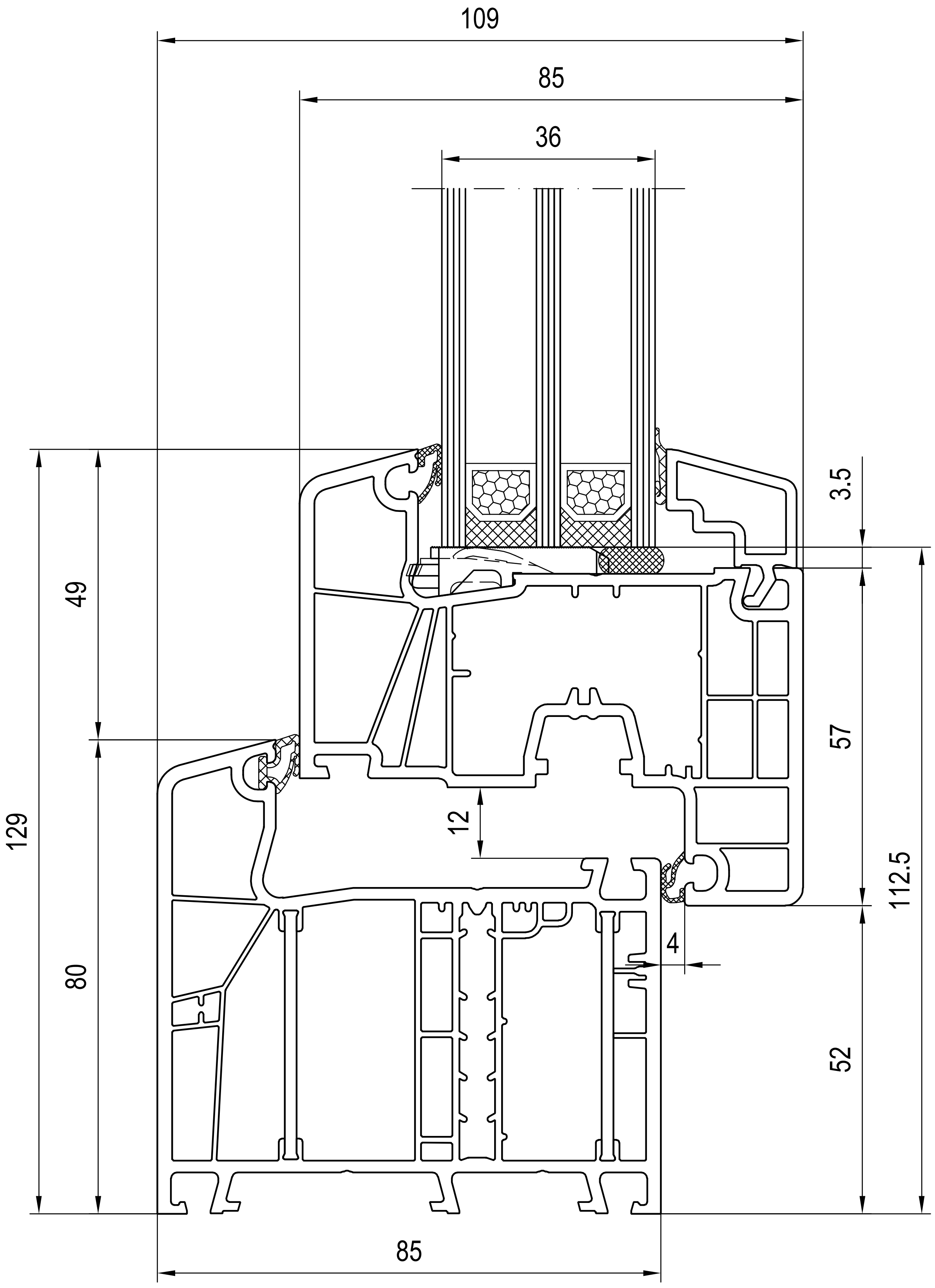


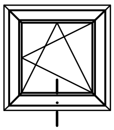


Combinations: frame - sash

120636/120666 Glazing bead

Frame 070x03
Sash 070x20



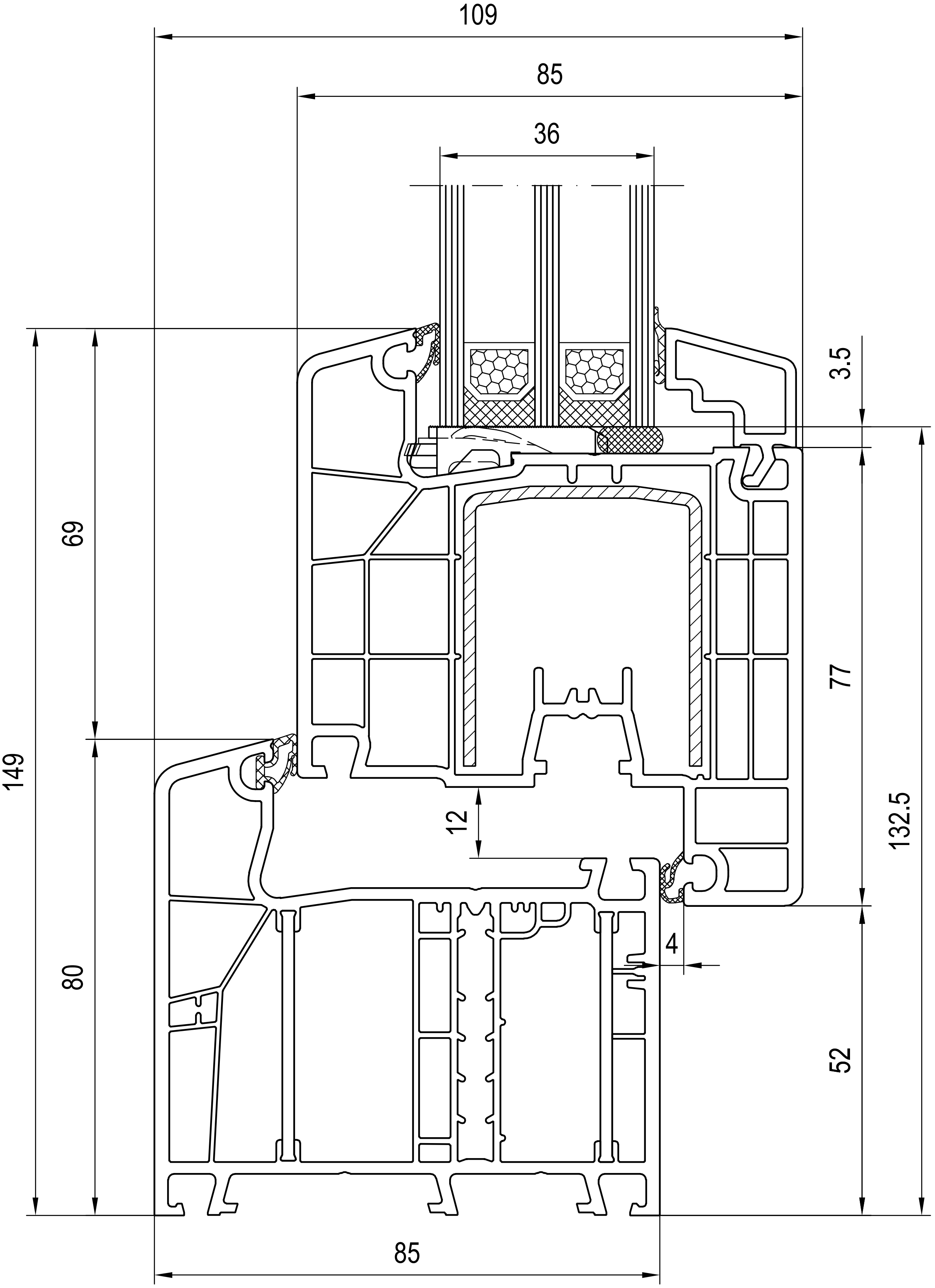


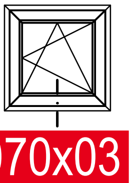
Scale	1:1
03_D_01_7*	
en	May be subject to change and errors excepted!

Combinations: frame - sash

120636/120666 Glazing bead

Frame 070x03
Sash 170x20

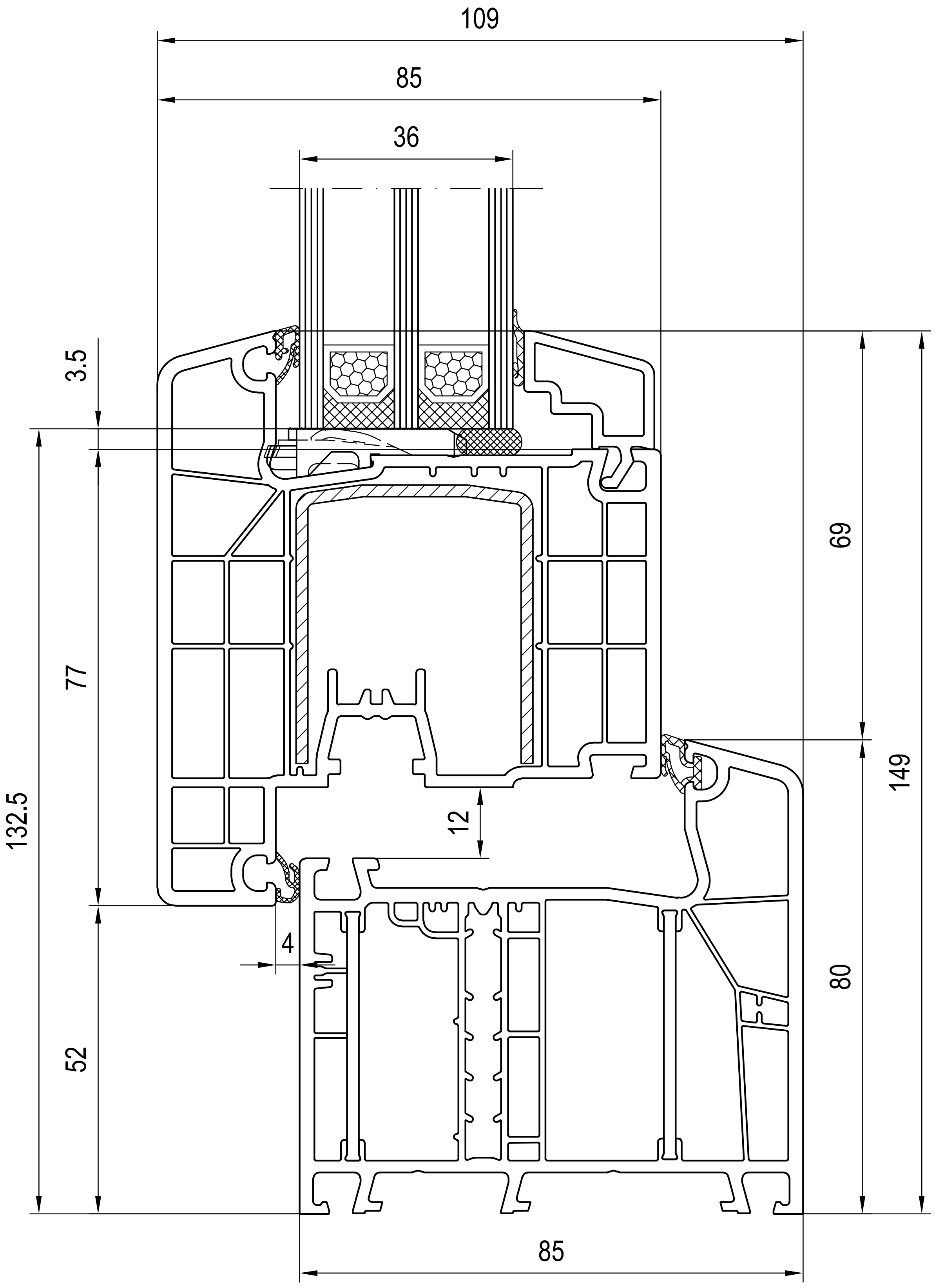


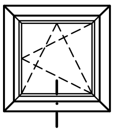


Combinations: frame - sash

120636/120666 Glazing bead

Frame 070x03
Sash 170x30



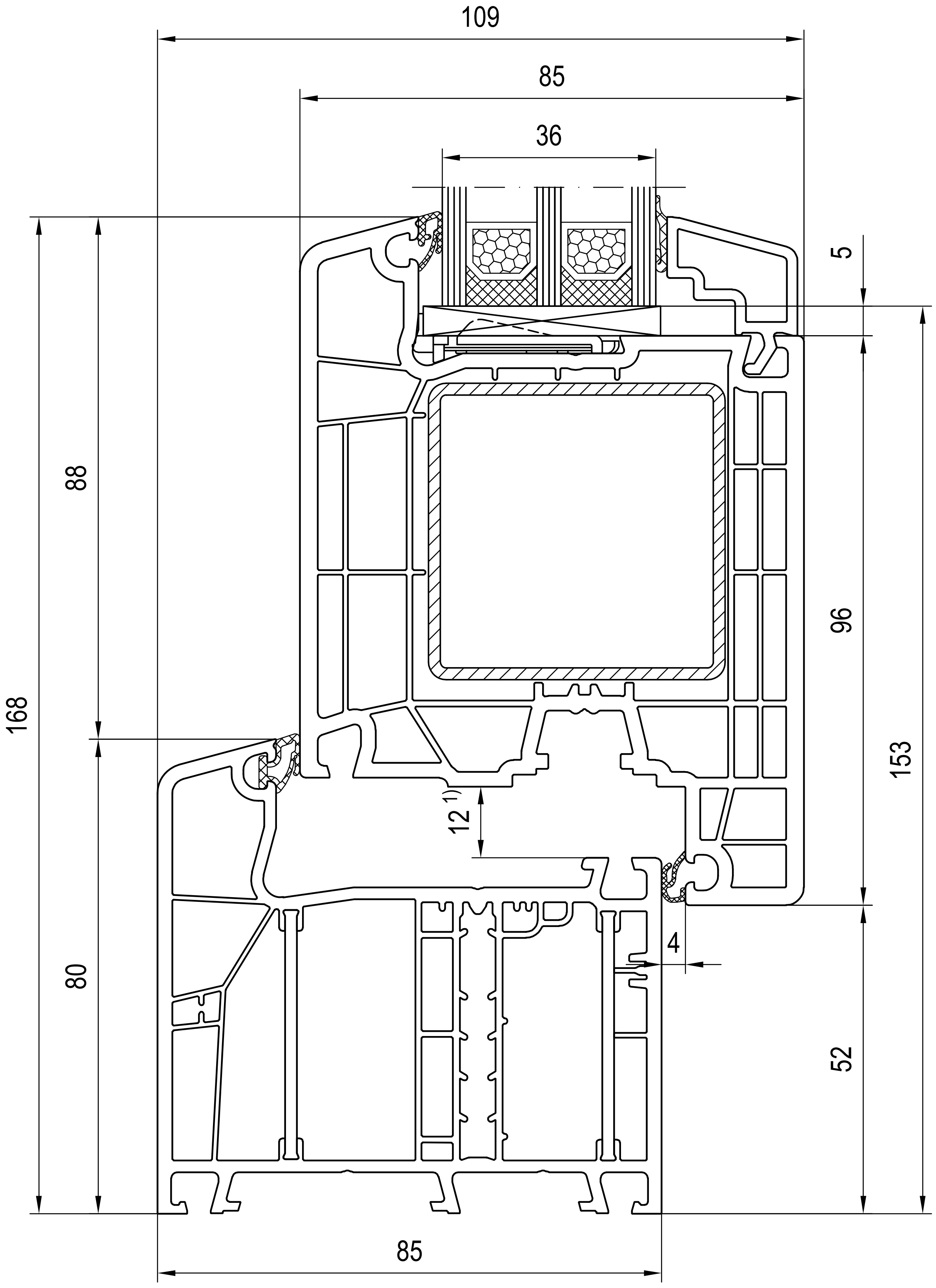


Scale 1:1
03_D_01_7*
en

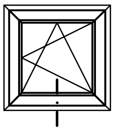
Combinations: frame - sash

120636/120666 Glazing bead

Frame 070x03
Sash 170x31



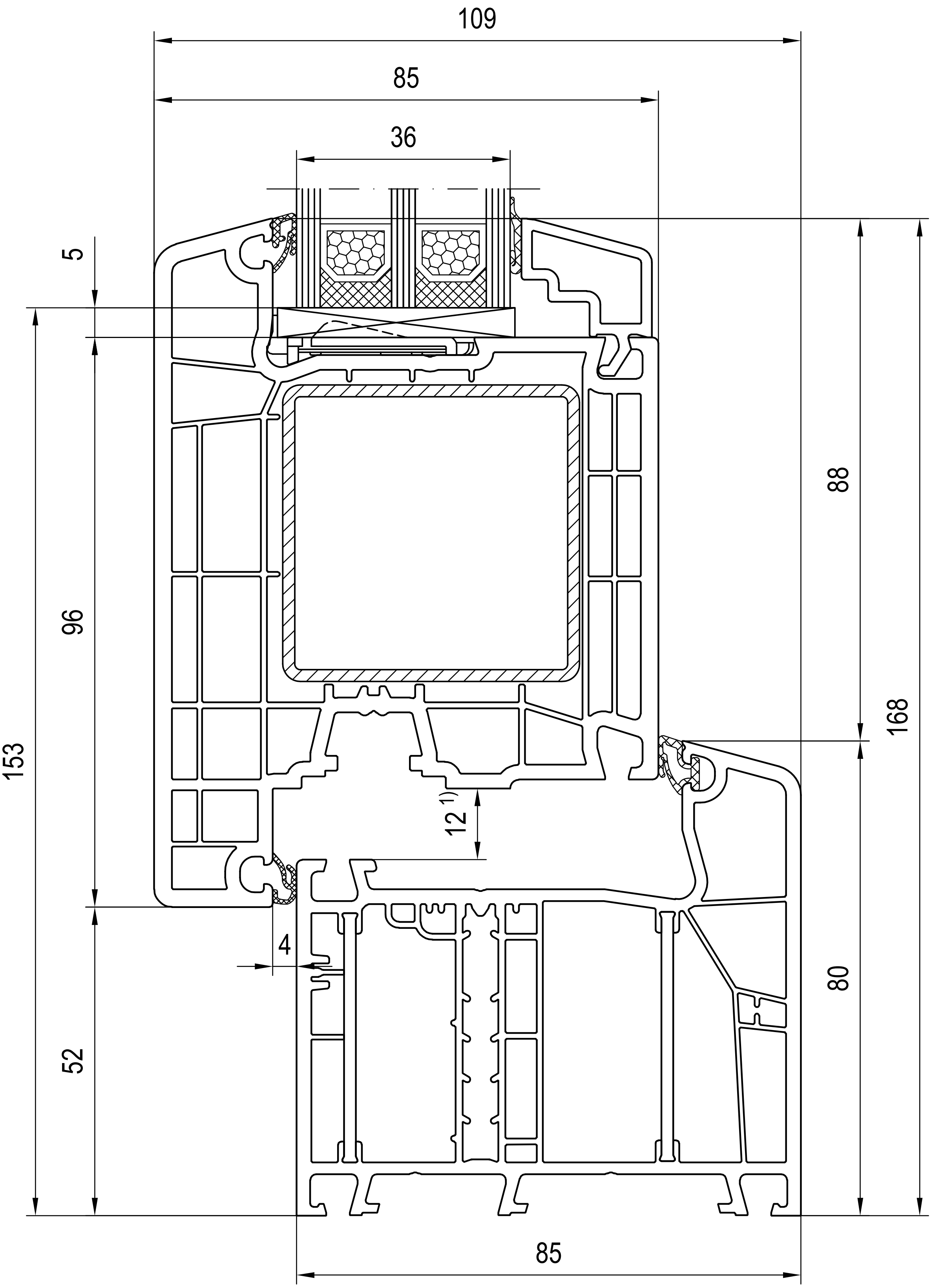
1) Rebate clearance of main entrance door on left and right side = 13 mm



Scale 1:1
03_D_01_7*
en May be subject to change and errors excepted!

Combinations: frame - sash
120636/120666 Glazing bead

Frame 070x03
Sash 170x33



1) Rebate clearance of main entrance door on left and right side = 13 mm

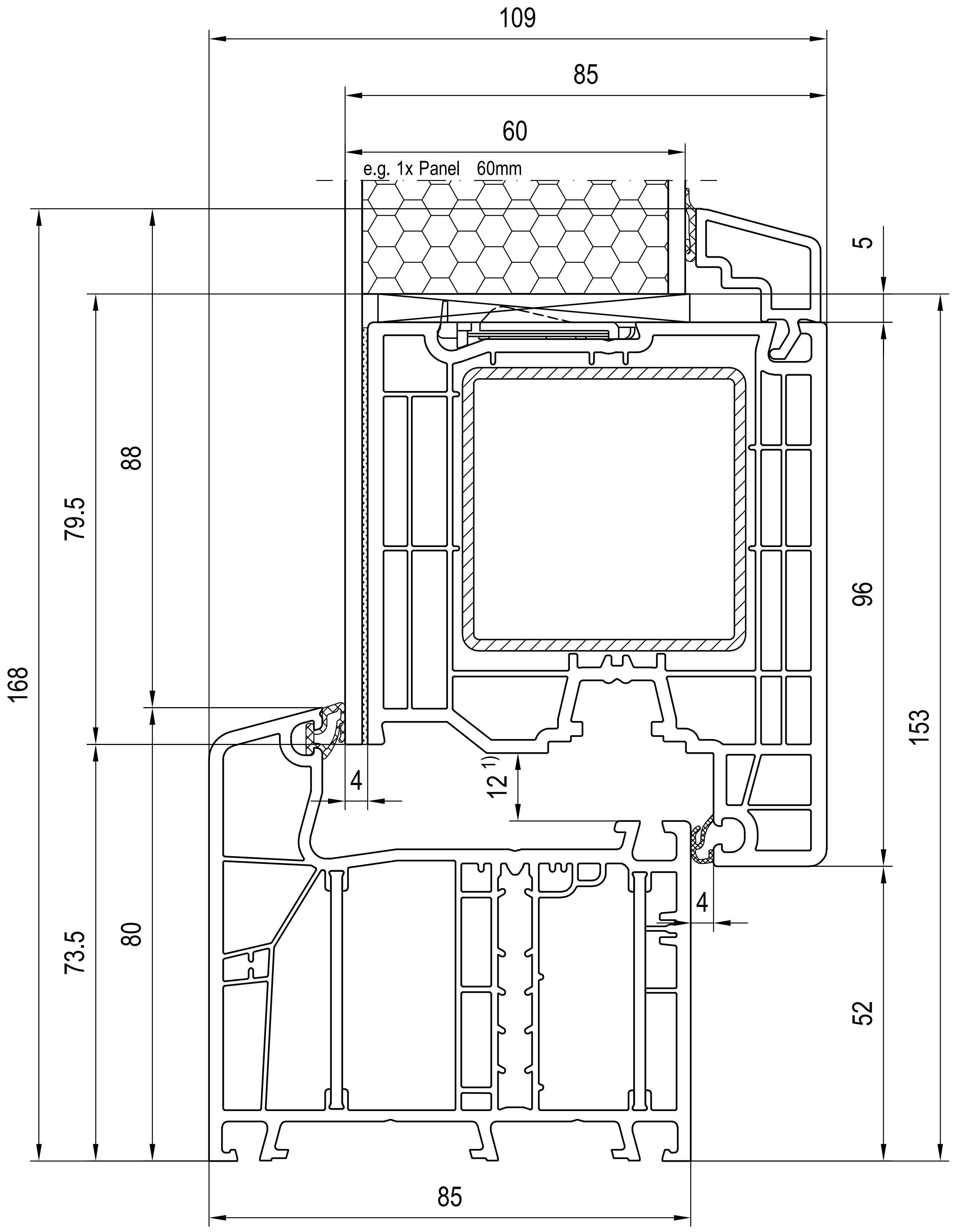
Scale	1:1
03_D_01_7*	
en	May be subject to change and errors excepted!

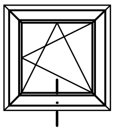
Combinations: frame - sash

120636/120666 Glazing bead

Frame 070x03

Sash 170x35



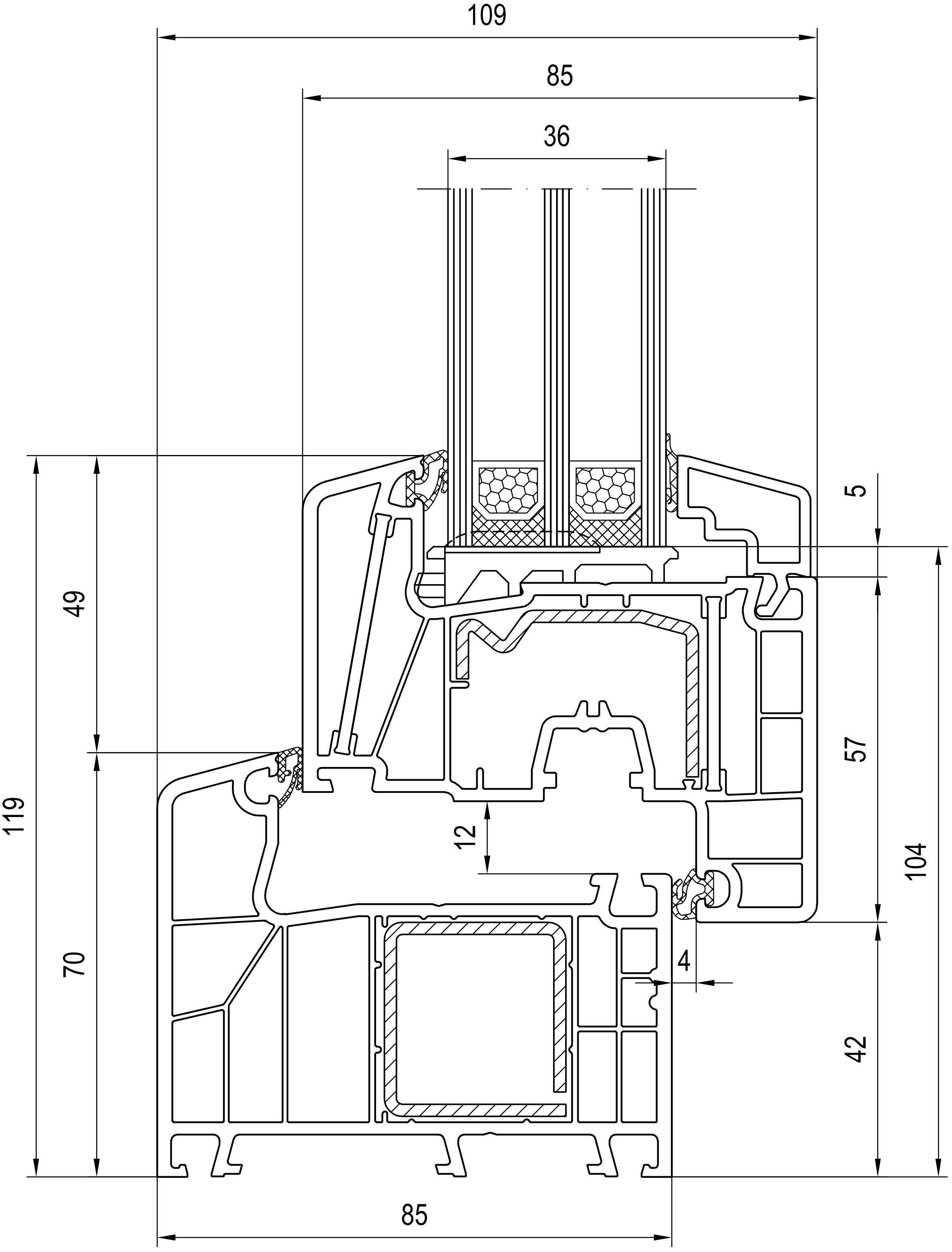


1) Rebate clearance of main entrance door on left and right side = 13 mm

Scale 1:1
03_D_01_7*
en May be subject to change and errors excepted!

Combinations: frame - sash
120636/120666 Glazing bead

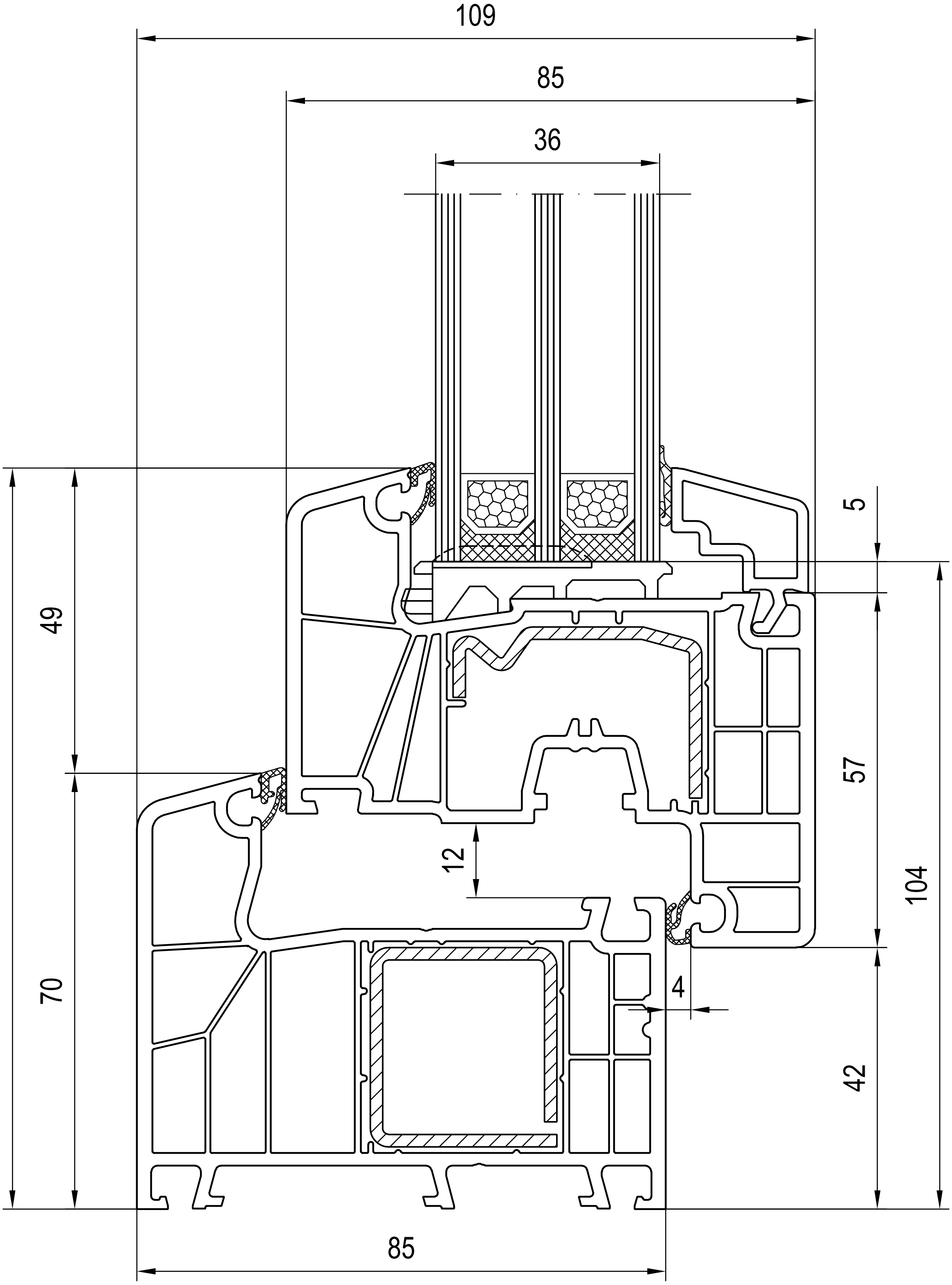
Frame 070x03
Sash 170x39

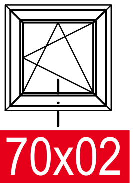


Scale 1:1
03_D_01_7*
en May be subject to change and errors excepted!

Combinations: frame - sash
120636/120666 Glazing bead

Frame 170x02
Sash 070x20



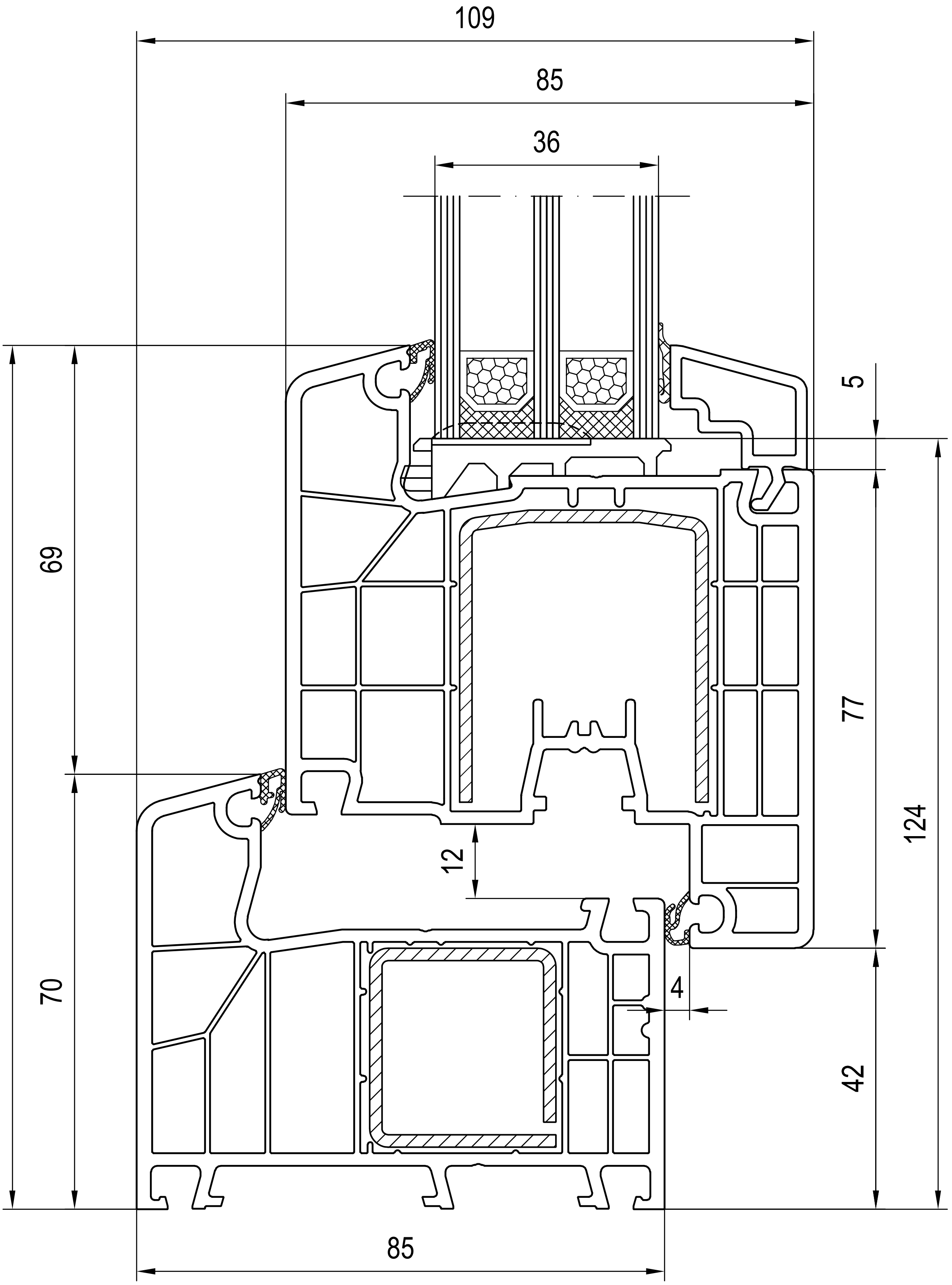


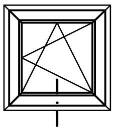
Combinations: frame - sash

120636/120666 Glazing bead

Frame 170x02

Sash 170x20



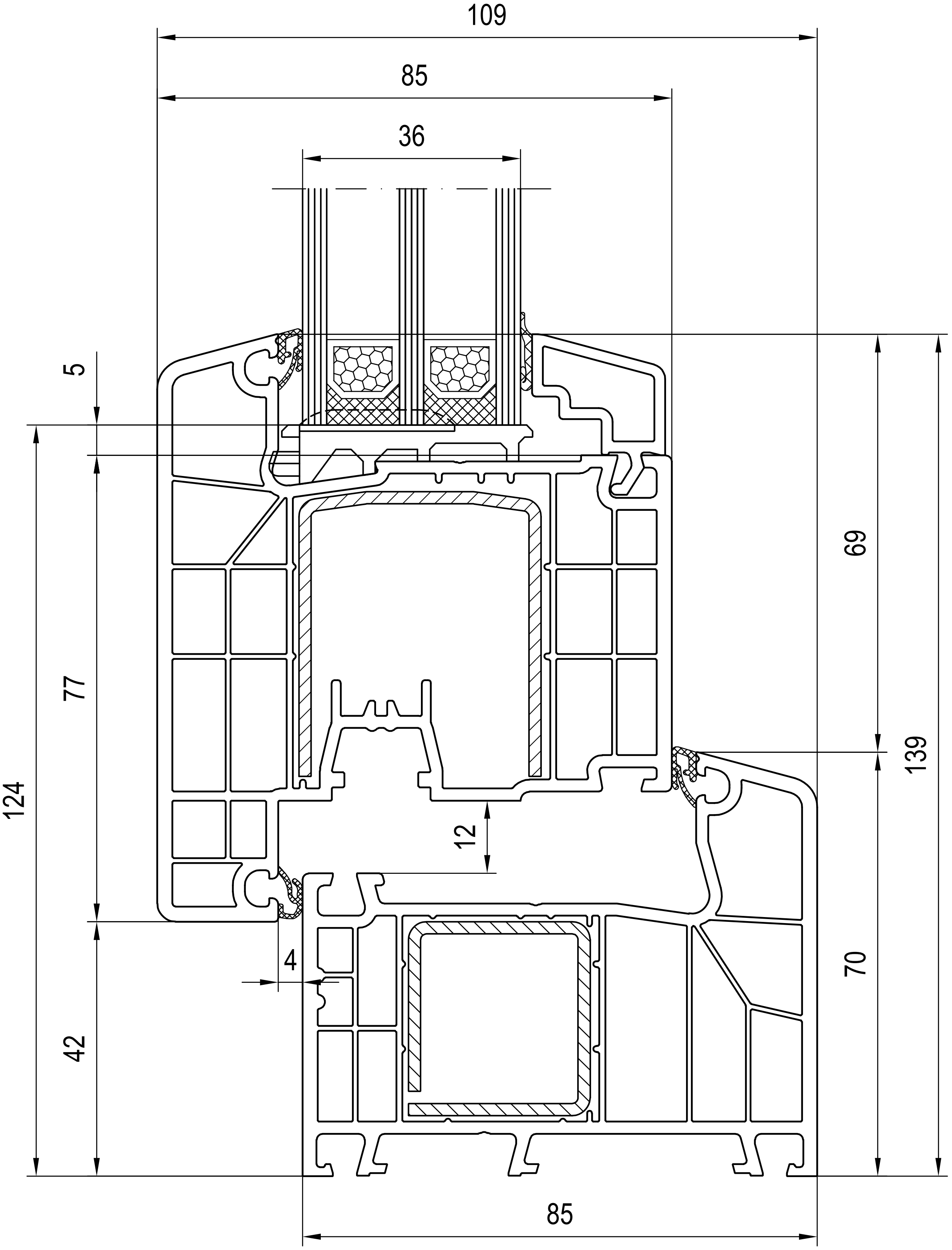


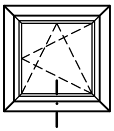
Scale 1:1
03_D_01_7*
en May be subject to change and errors excepted!

Combinations: frame - sash

120636/120666 Glazing bead

Frame 170x02
Sash 170x30



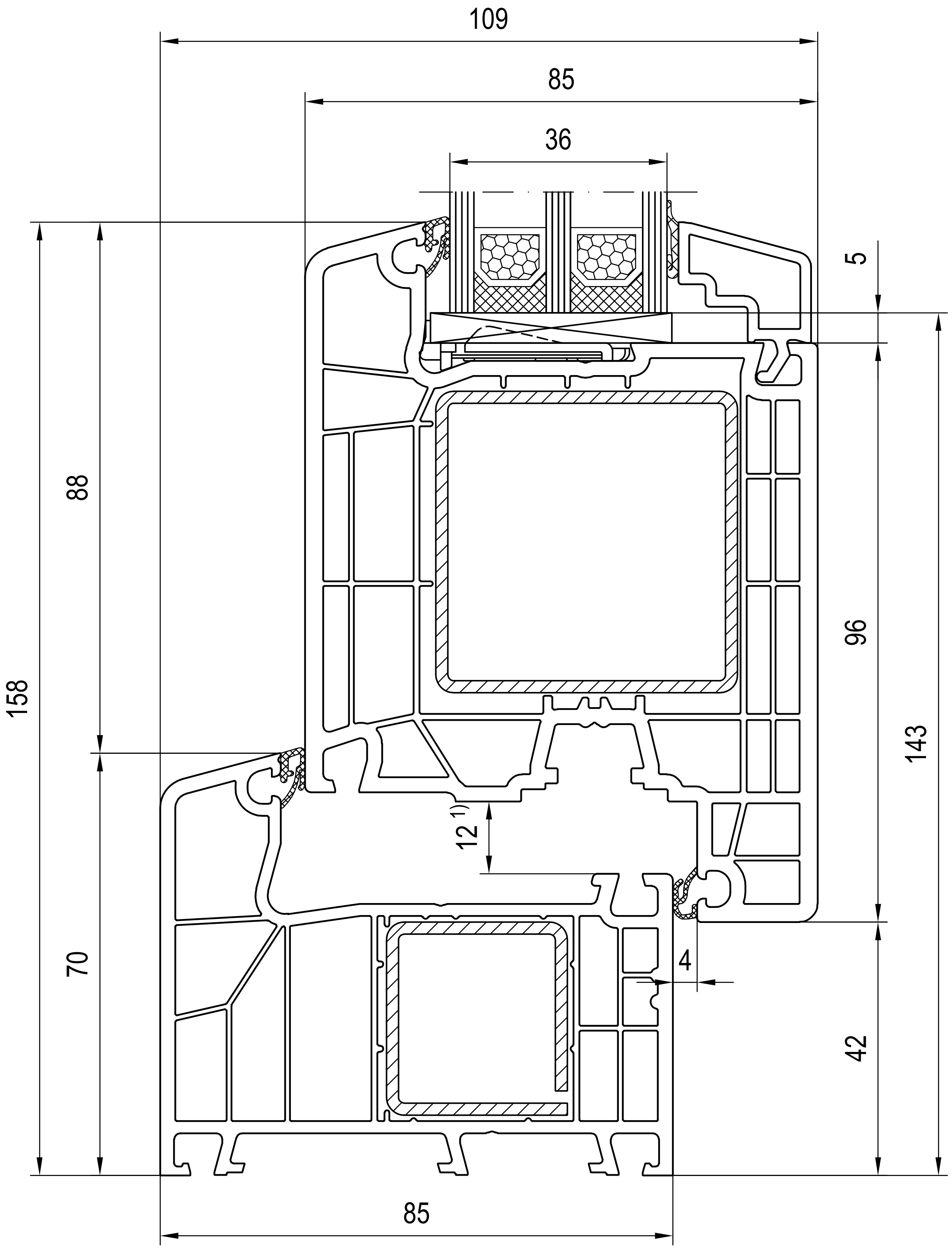


Scale 1:1
03_D_01_7*
en

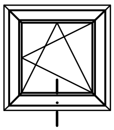
Combinations: frame - sash

120636/120666 Glazing bead

Frame 170x02
Sash 170x31



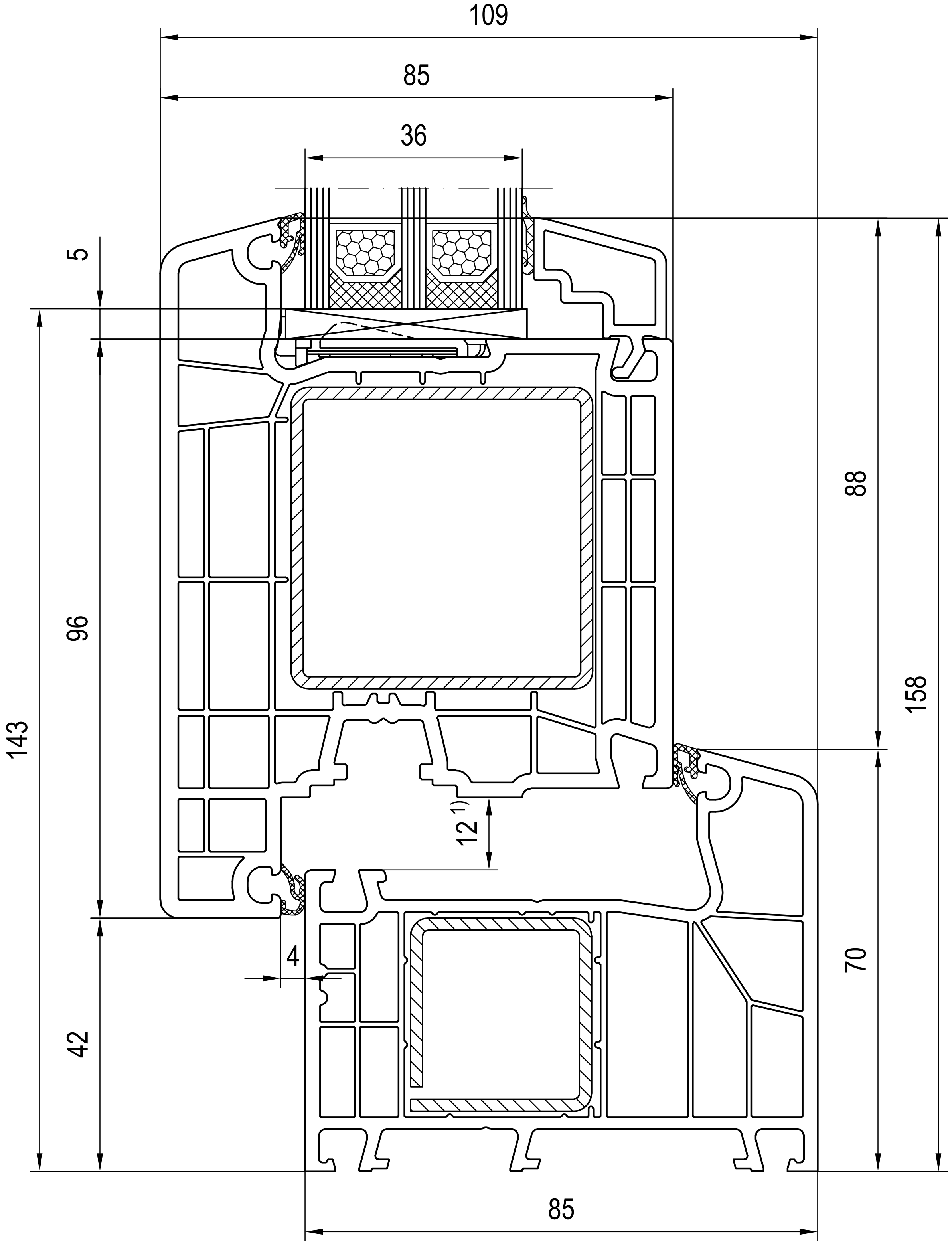
1) Rebate clearance of main entrance door on left and right side = 13 mm



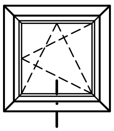
Scale 1:1
03_D_01_7*
en May be subject to change and errors excepted!

Combinations: frame - sash
120636/120666 Glazing bead

Frame 170x02
Sash 170x33



1) Rebate clearance of main entrance door on left and right side = 13 mm

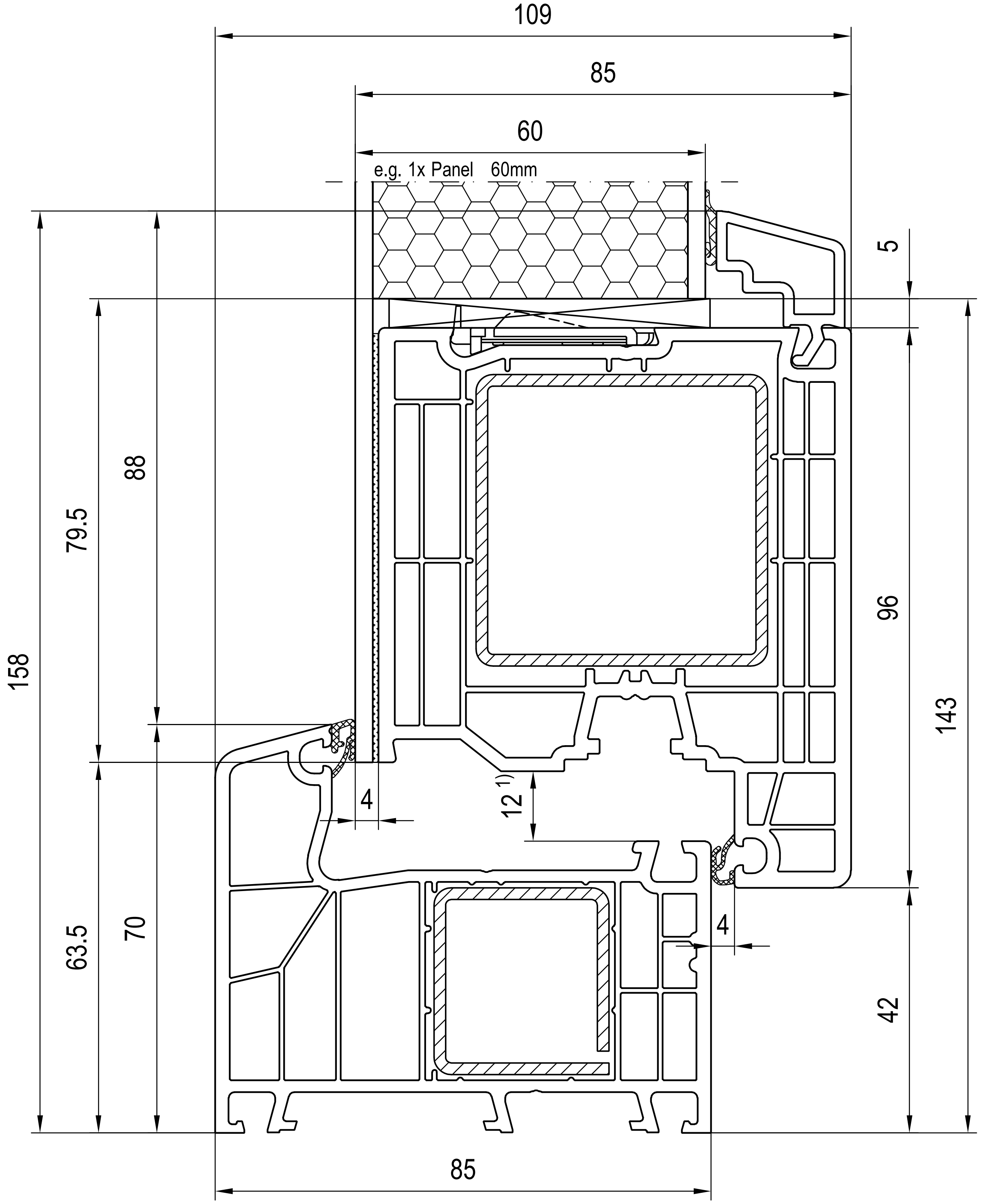


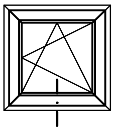
Scale 1:1
03_D_01_7*
en May be subject to change and errors excepted!

Combinations: frame - sash

120636/120666 Glazing bead

Frame 170x02
Sash 170x35



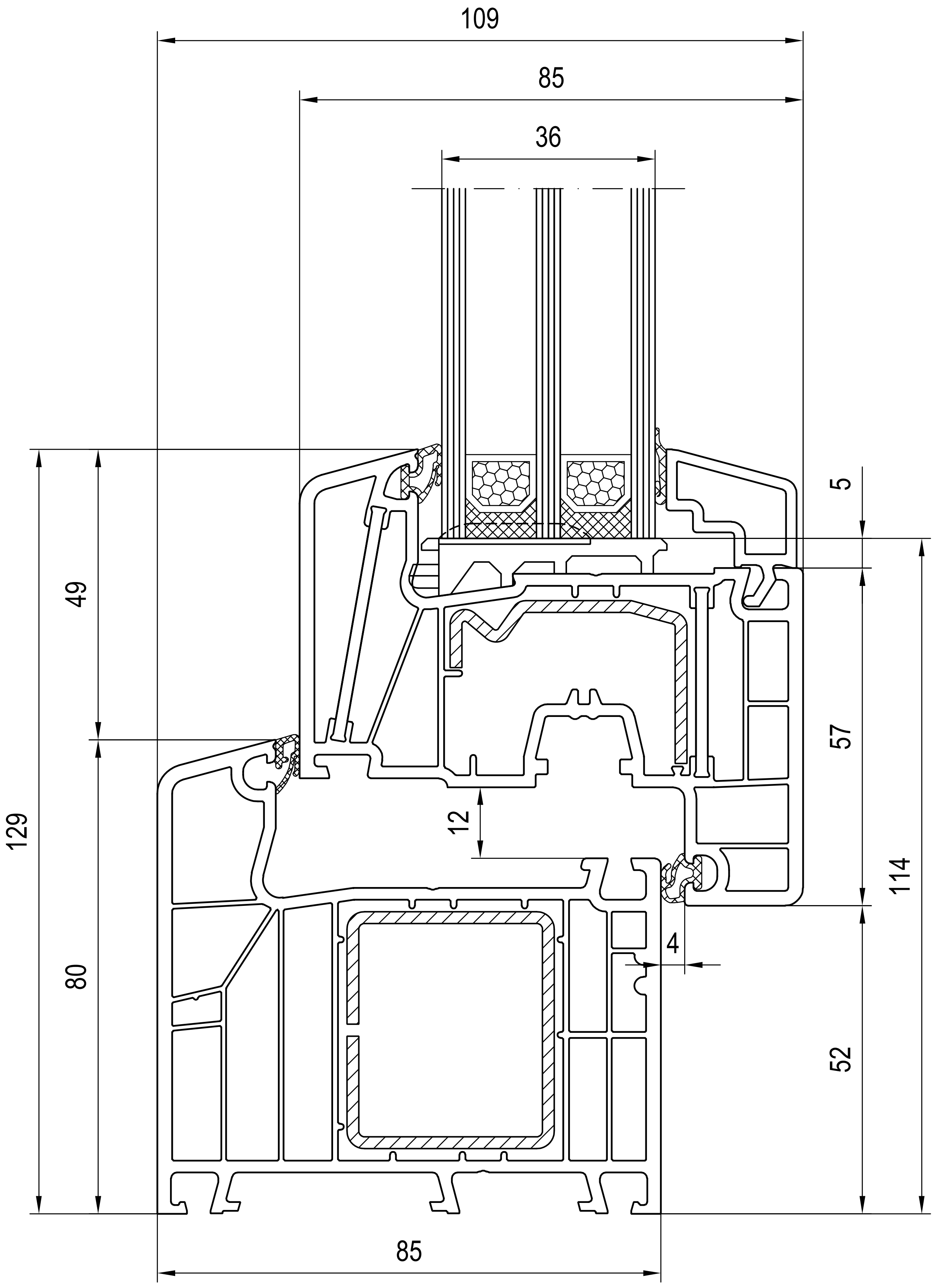


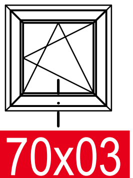
1) Rebate clearance of main entrance door on left and right side = 13 mm

Combinations: frame - sash

120636/120666 Glazing bead

Frame 170x02
Sash 170x39



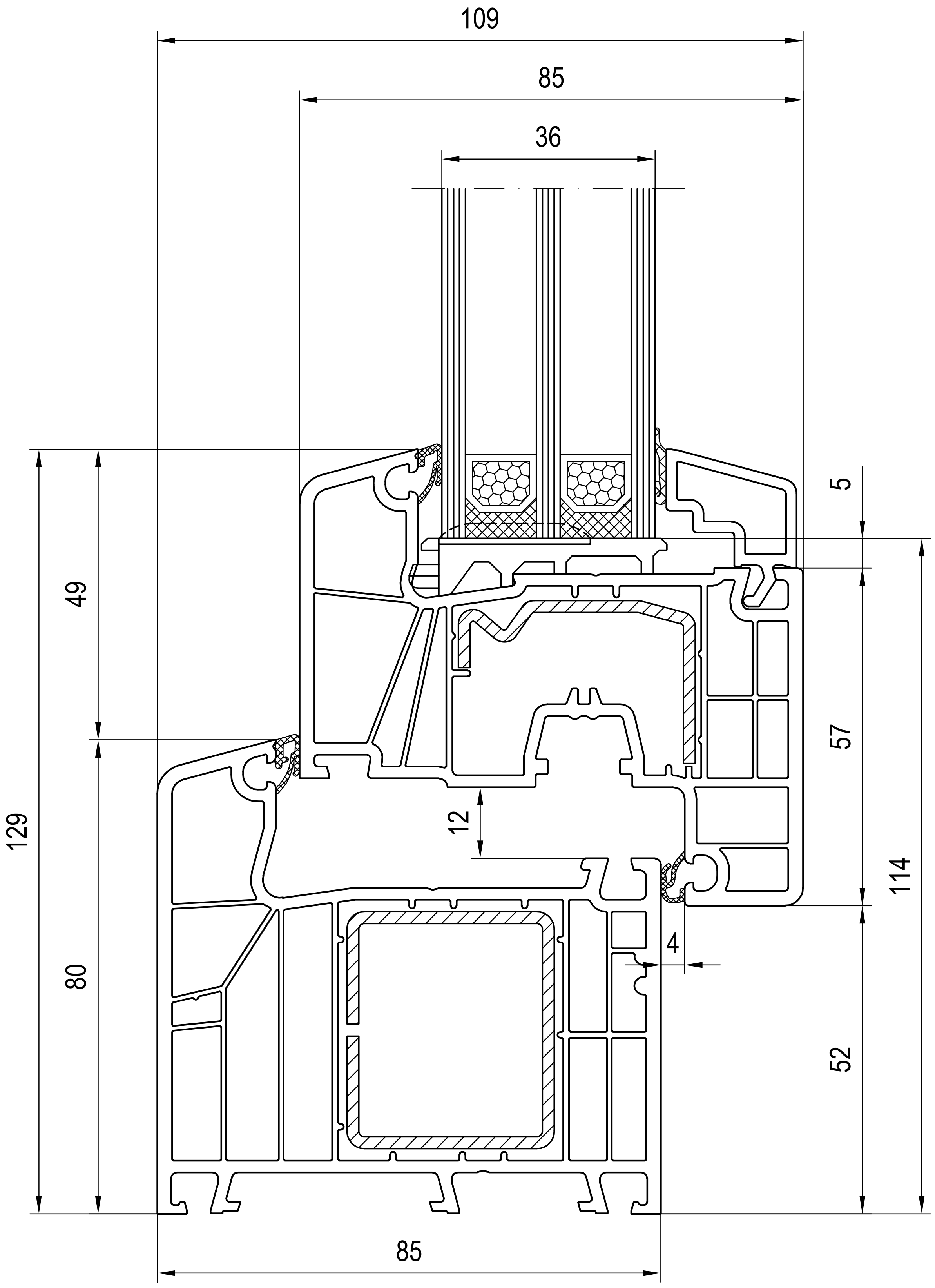


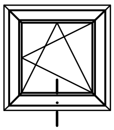
Scale 1:1
03_D_01_7*
en May be subject to change and errors excepted!

Combinations: frame - sash

120636/120666 Glazing bead

Frame 170x03
Sash 070x20





Scale 1:1

03_D_01_7*

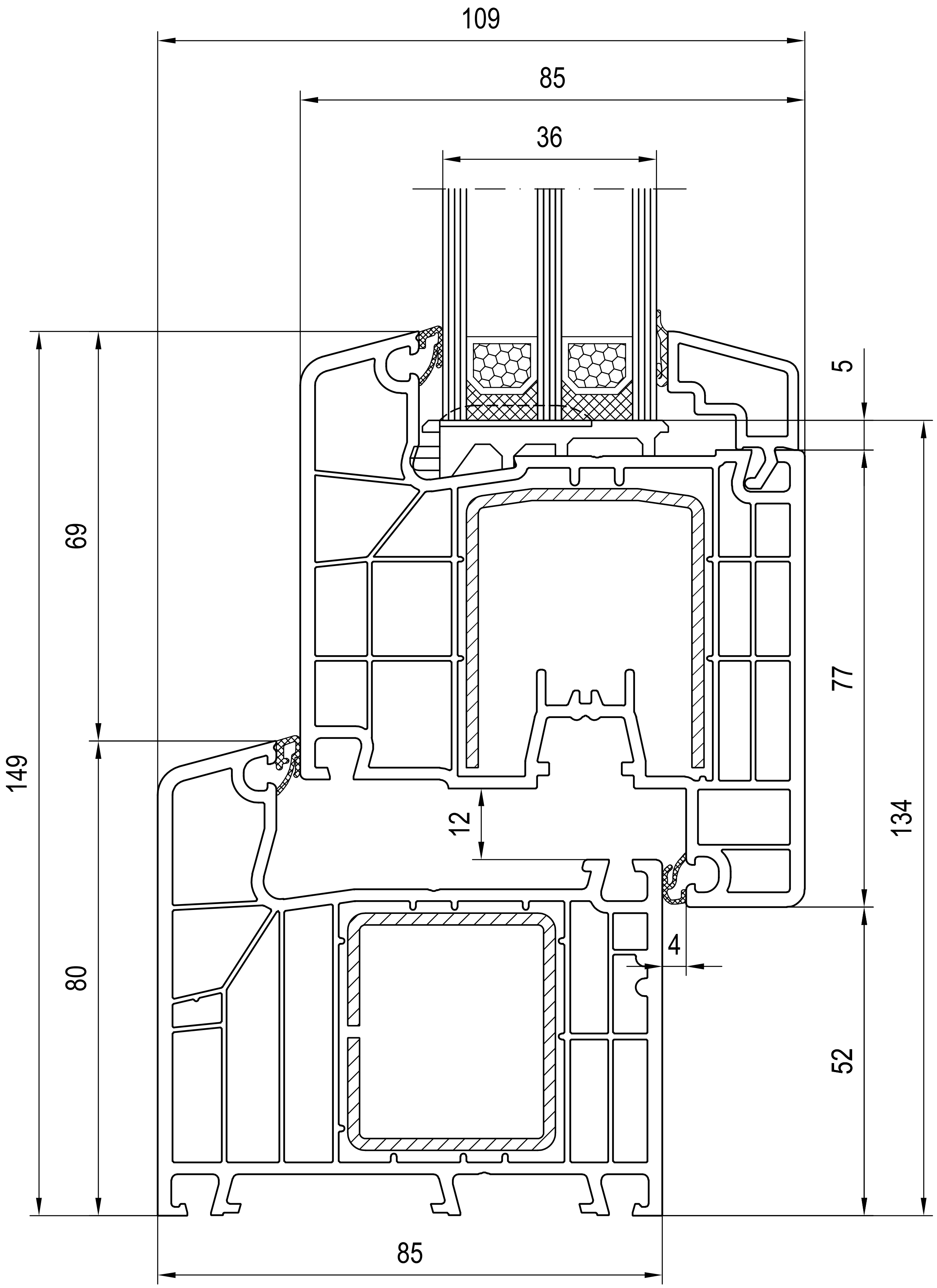
en May be subject to change and errors excepted!

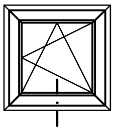
Combinations: frame - sash

120636/120666 Glazing bead

Frame 170x03

Sash 170x20



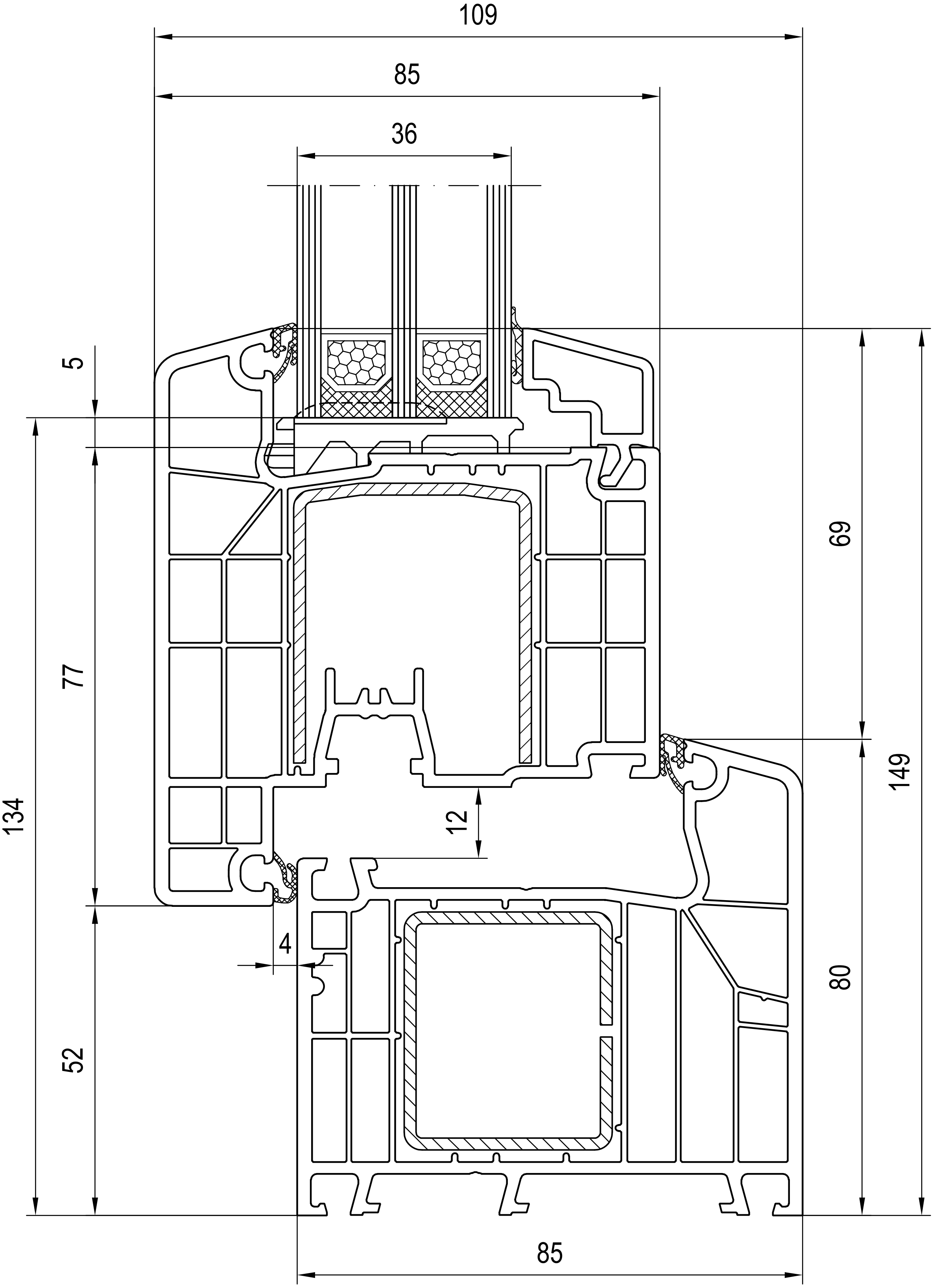


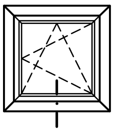
Scale 1:1
03_D_01_7*
en

Combinations: frame - sash

120636/120666 Glazing bead

Frame 170x03
Sash 170x30



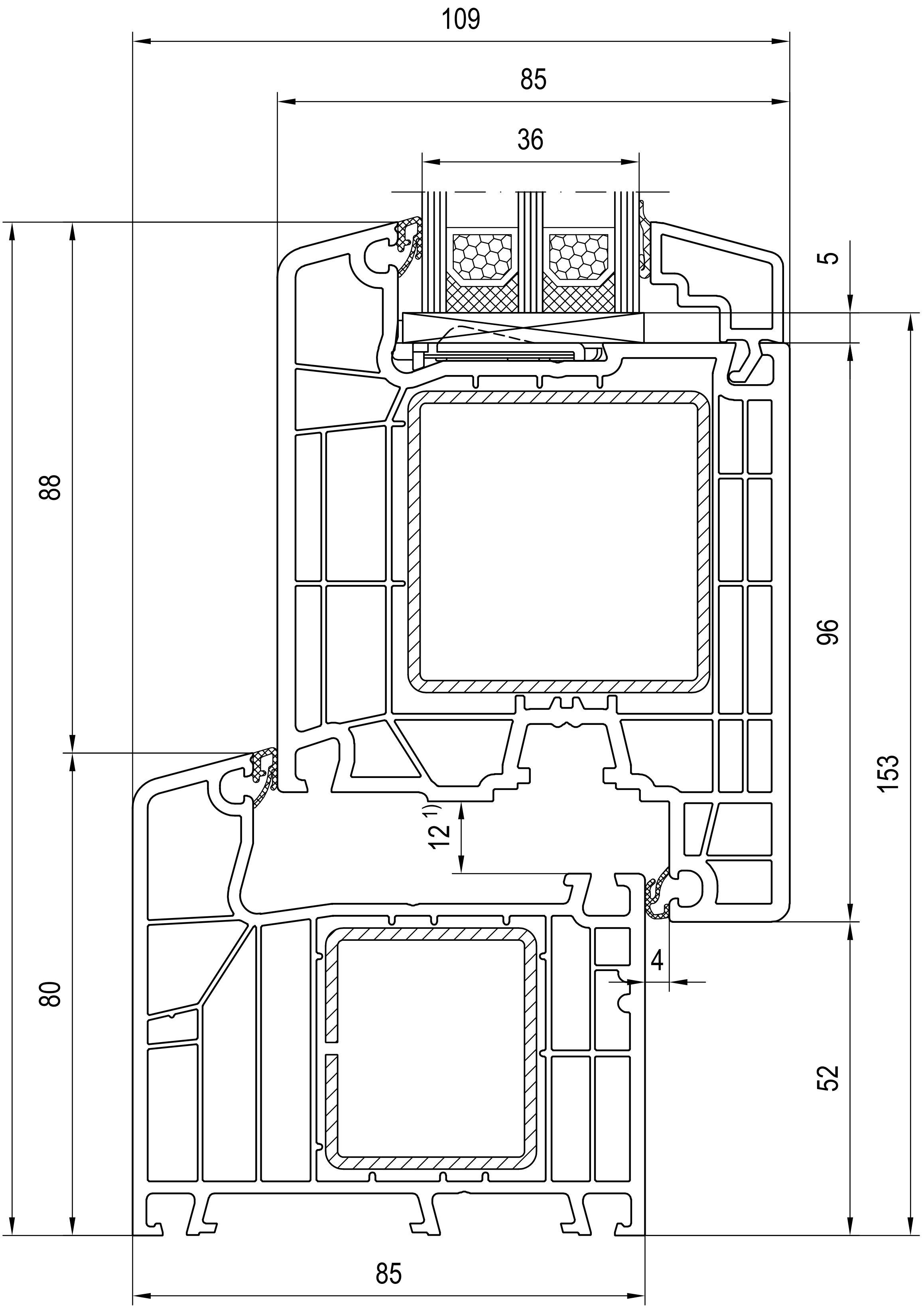


Scale 1:1
03_D_01_7*
en May be subject to change and errors excepted!

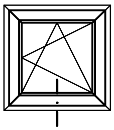
Combinations: frame - sash

120636/120666 Glazing bead

Frame 170x03
Sash 170x31



1) Rebate clearance of main entrance door on left and right side = 13 mm

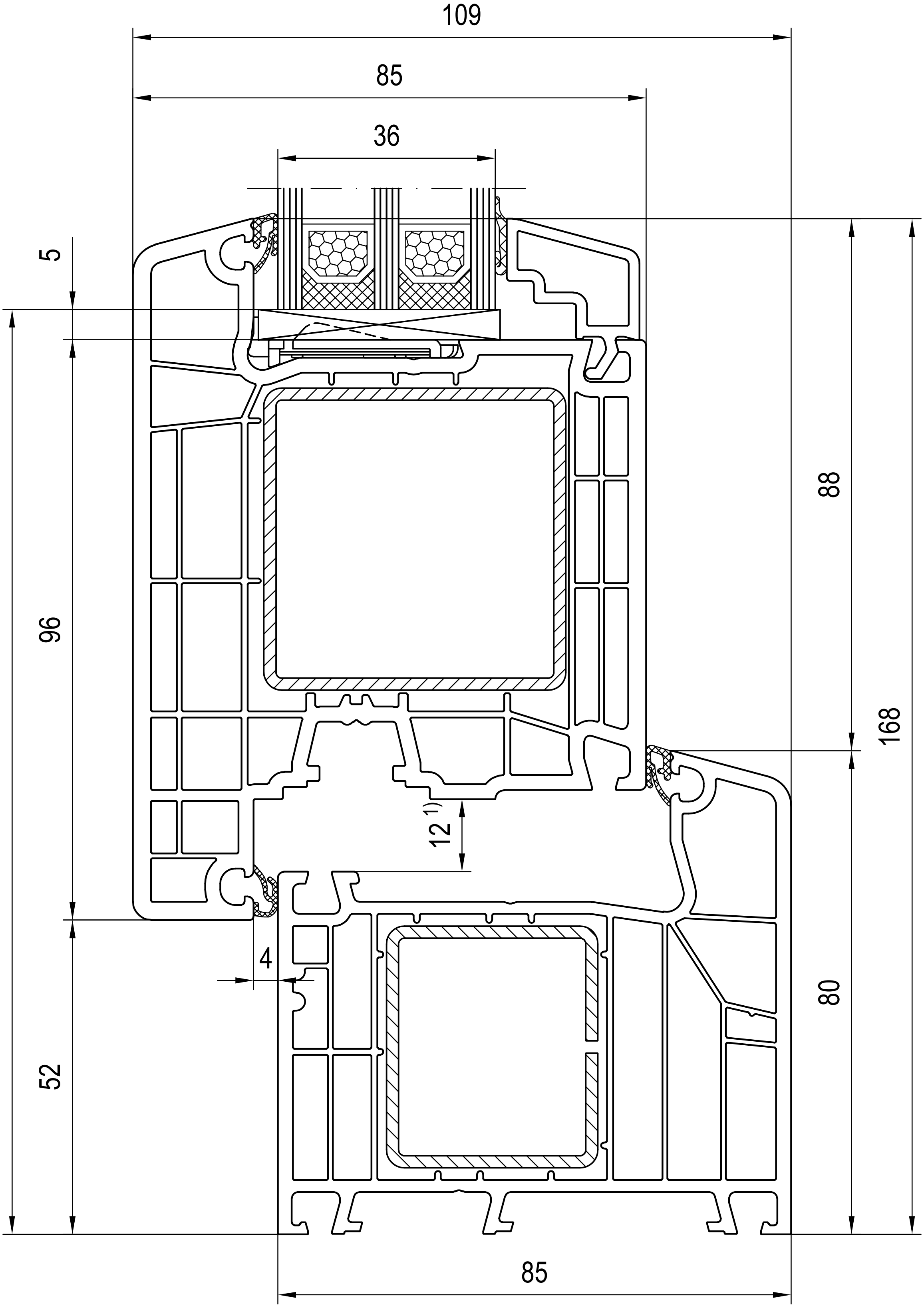


Scale 1:1
03_D_01_7*

Combinations: frame - sash

120636/120666 Glazing bead

Frame 170x03
Sash 170x33

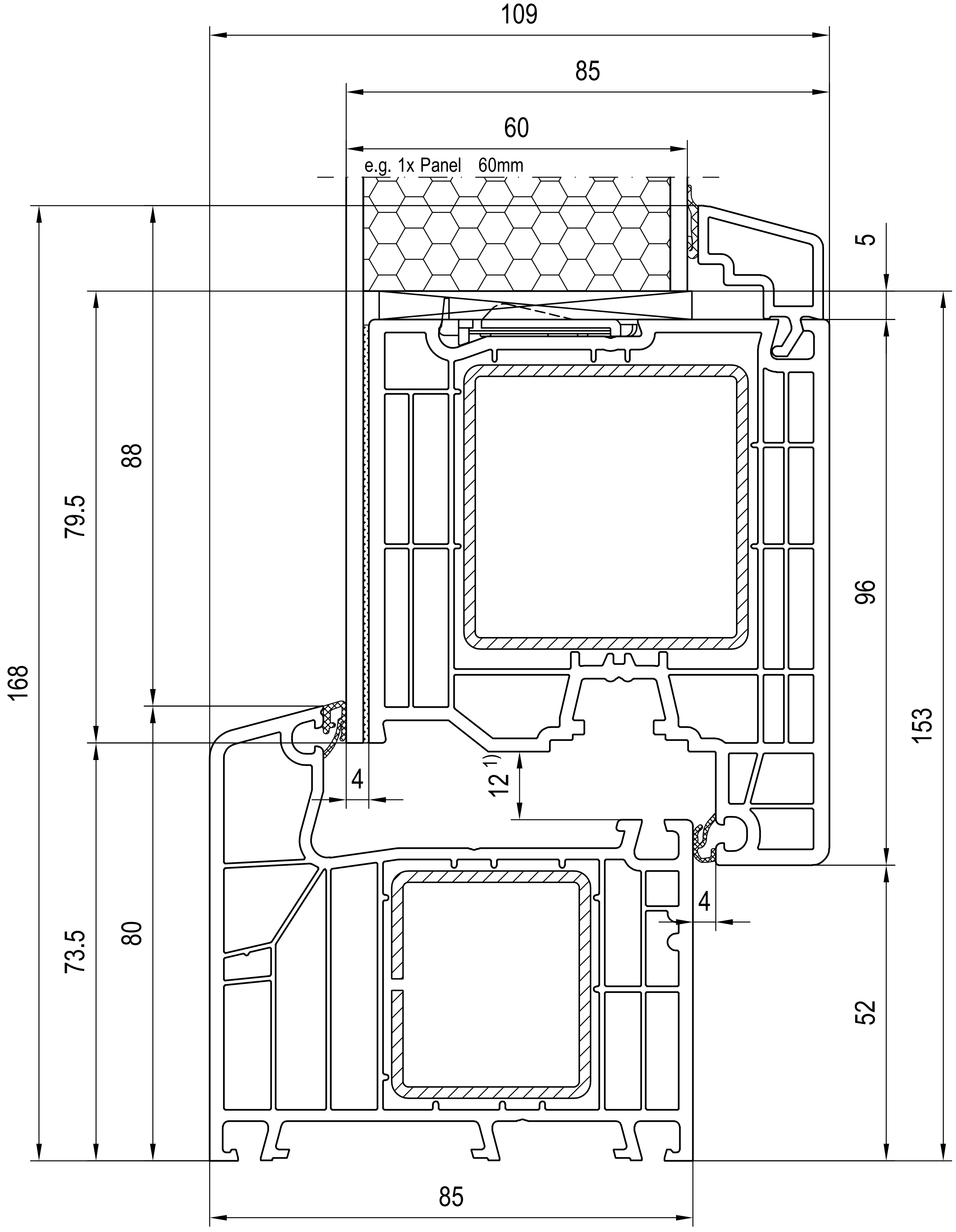


1) Rebate clearance of main entrance door on left and right side = 13 mm

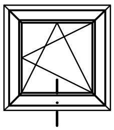
Combinations: frame - sash

120636/120666 Glazing bead

Frame 170x03
Sash 170x35



1) Rebate clearance of main entrance door on left and right side = 13 mm



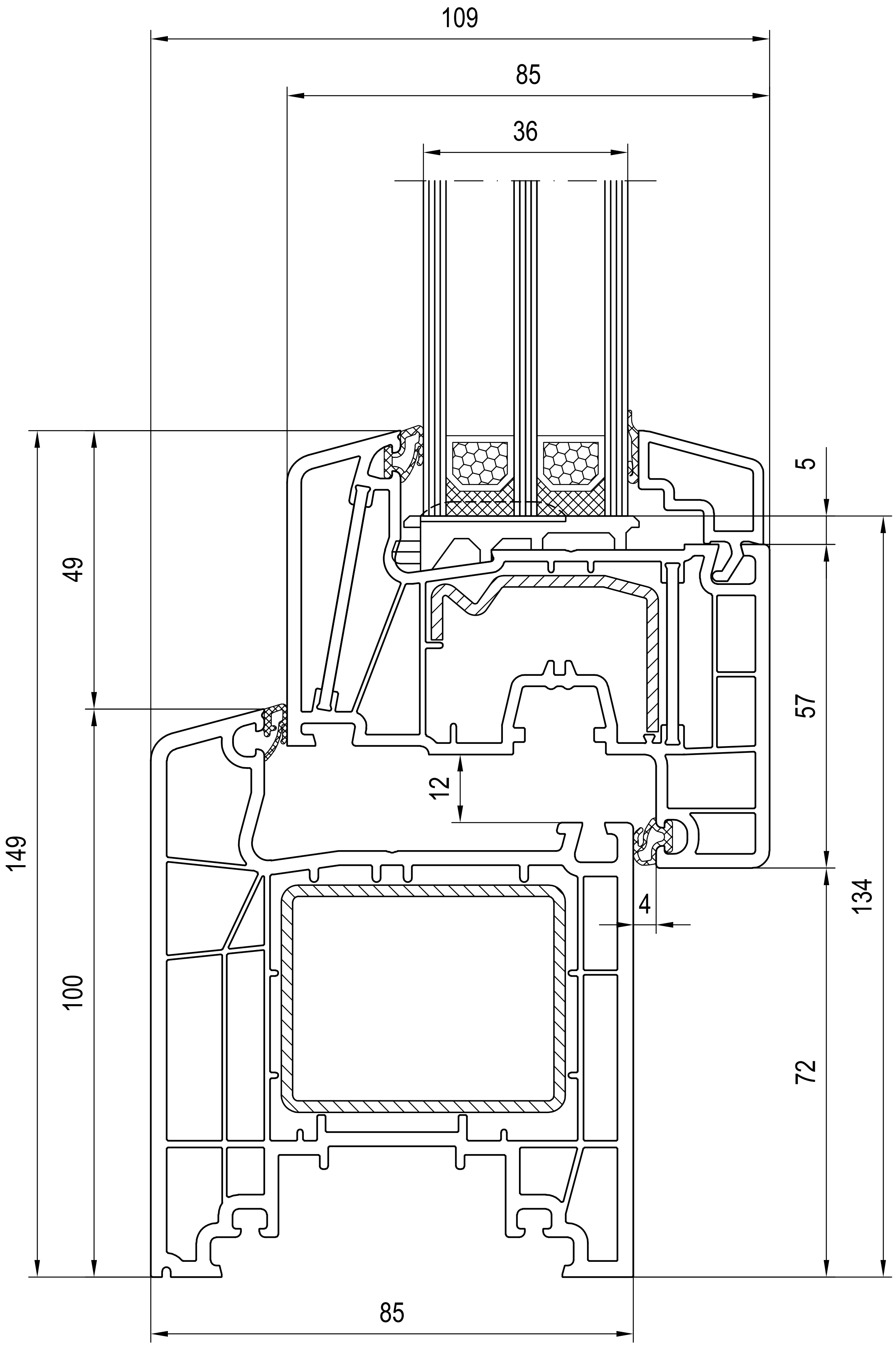
Scale	1:1
03_D_01_7*	
en	May be subject to change and errors excepted!

Combinations: frame - sash

120636/120666 Glazing bead

Frame 170x03

Sash 170x39

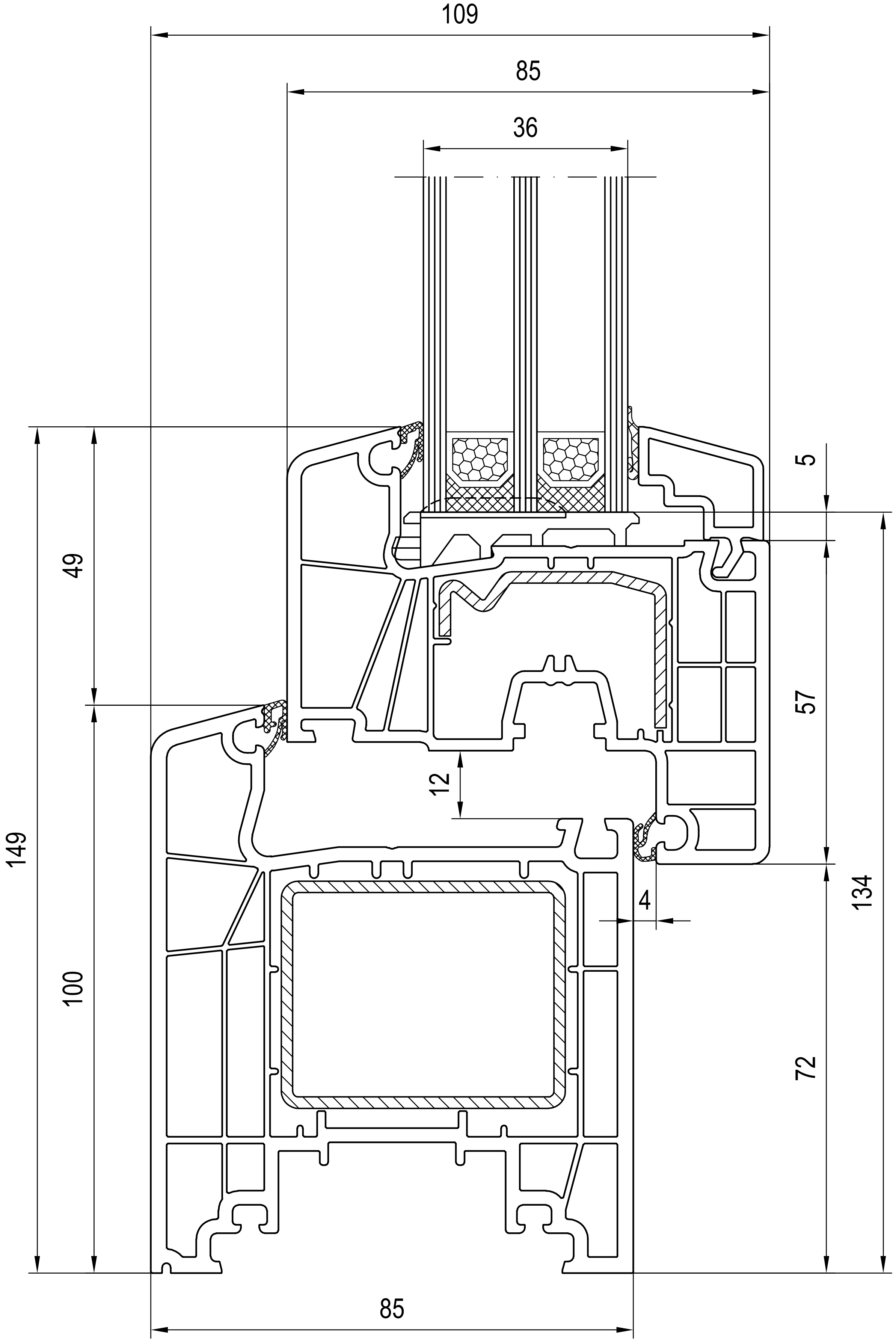


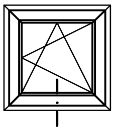
Scale 1:1
03_D_01_7*
en May be subject to change and errors excepted!

Combinations: frame - sash

120636/120666 Glazing bead

Frame 170x81
Sash 070x20



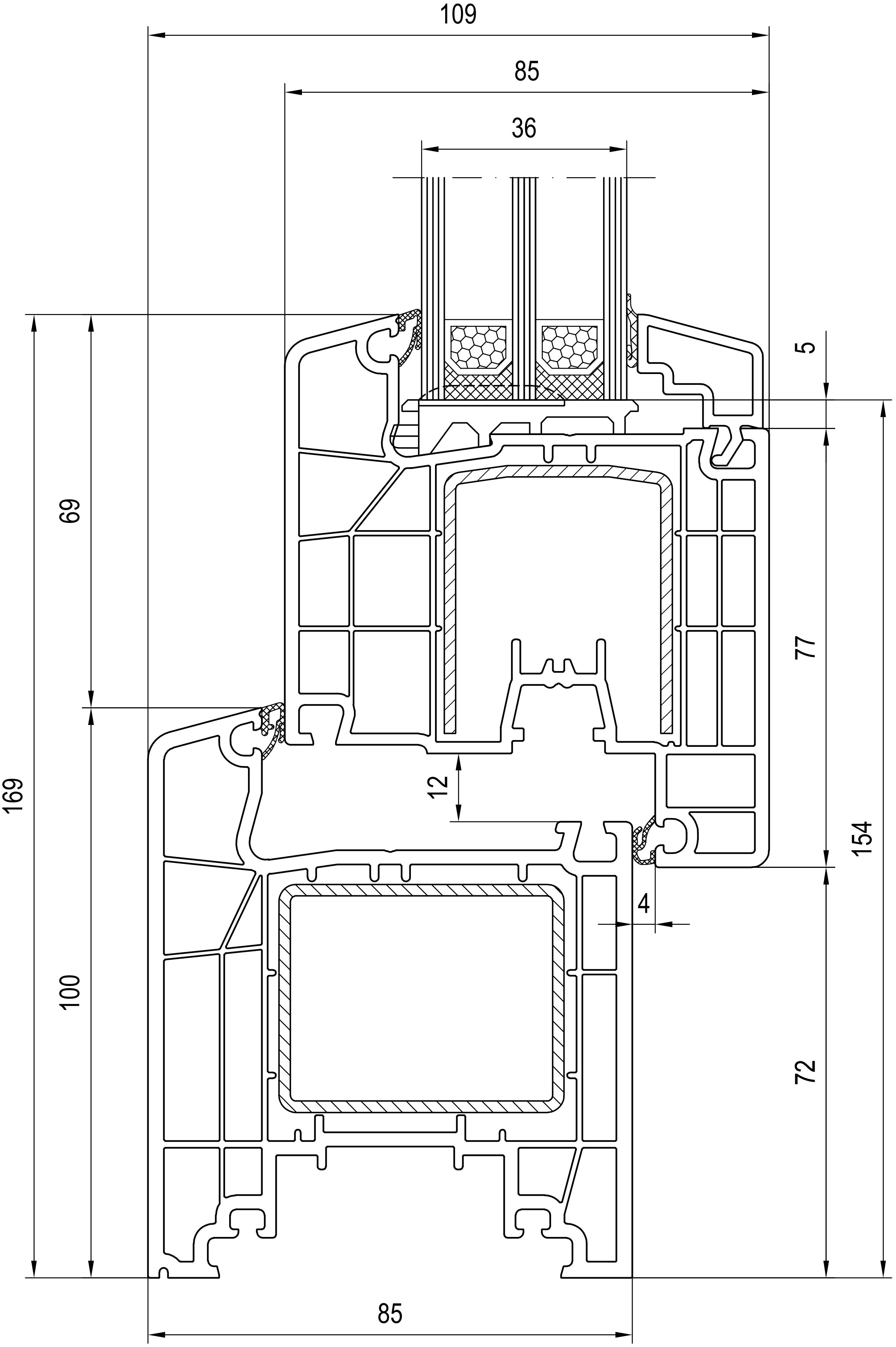


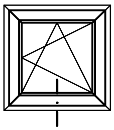
Scale 1:1
03_D_01_7*
en May be subject to change and errors excepted!

Combinations: frame - sash

120636/120666 Glazing bead

Frame 170x81
Sash 170x20

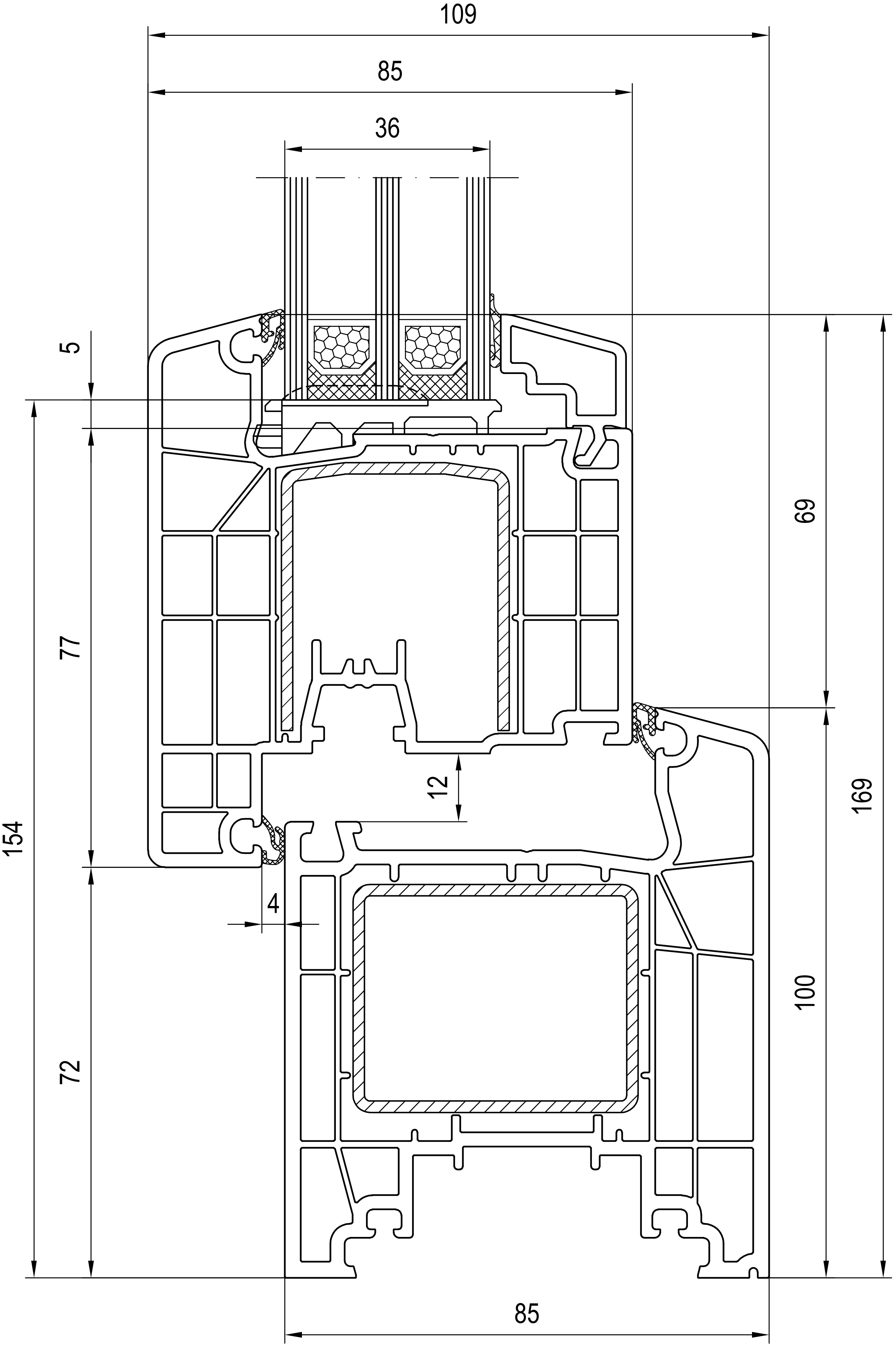




Scale 1:1
03_D_01_7*
en May be subject to change and errors excepted!

Combinations: frame - sash
120636/120666 Glazing bead

Frame 170x81
Sash 170x30

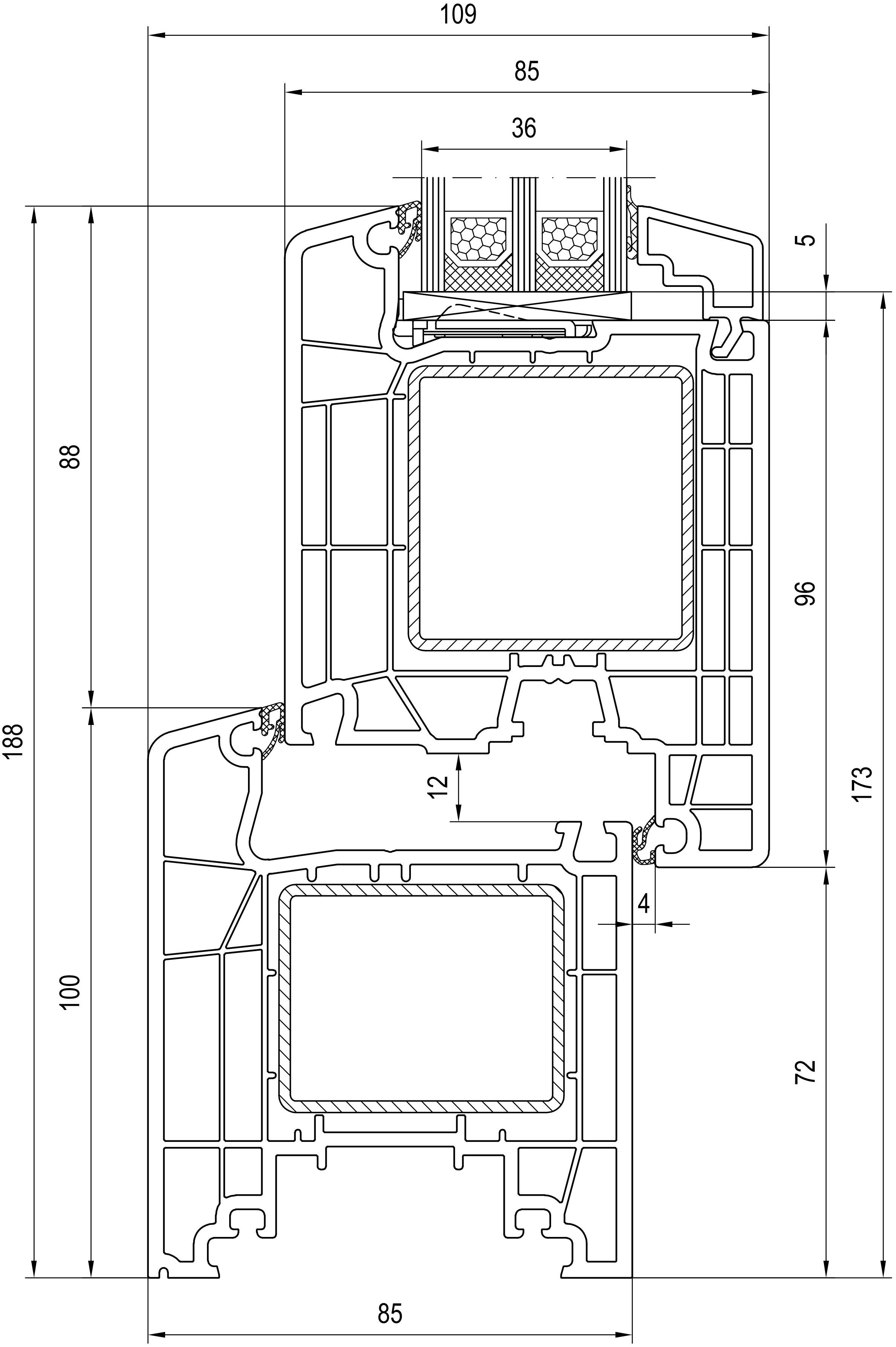


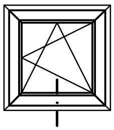
Scale 1:1
03_D_01_7*
en

Combinations: frame - sash

120636/120666 Glazing bead

Frame 170x81
Sash 170x31

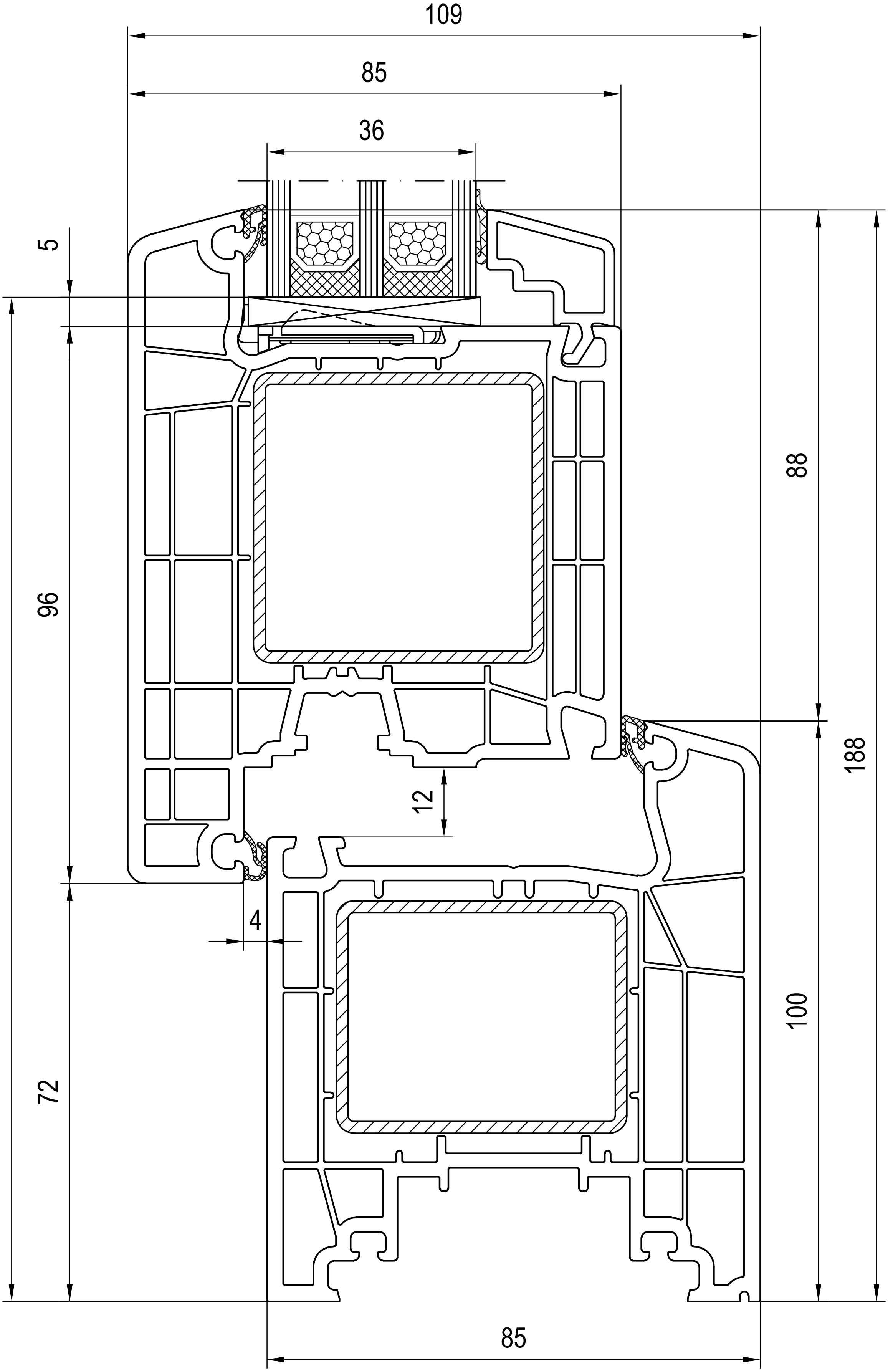


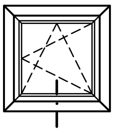


Scale 1:1
03_D_01_7*
en May be subject to change and errors excepted!

Combinations: frame - sash
120636/120666 Glazing bead

Frame 170x81
Sash 170x33





Scale 1:1

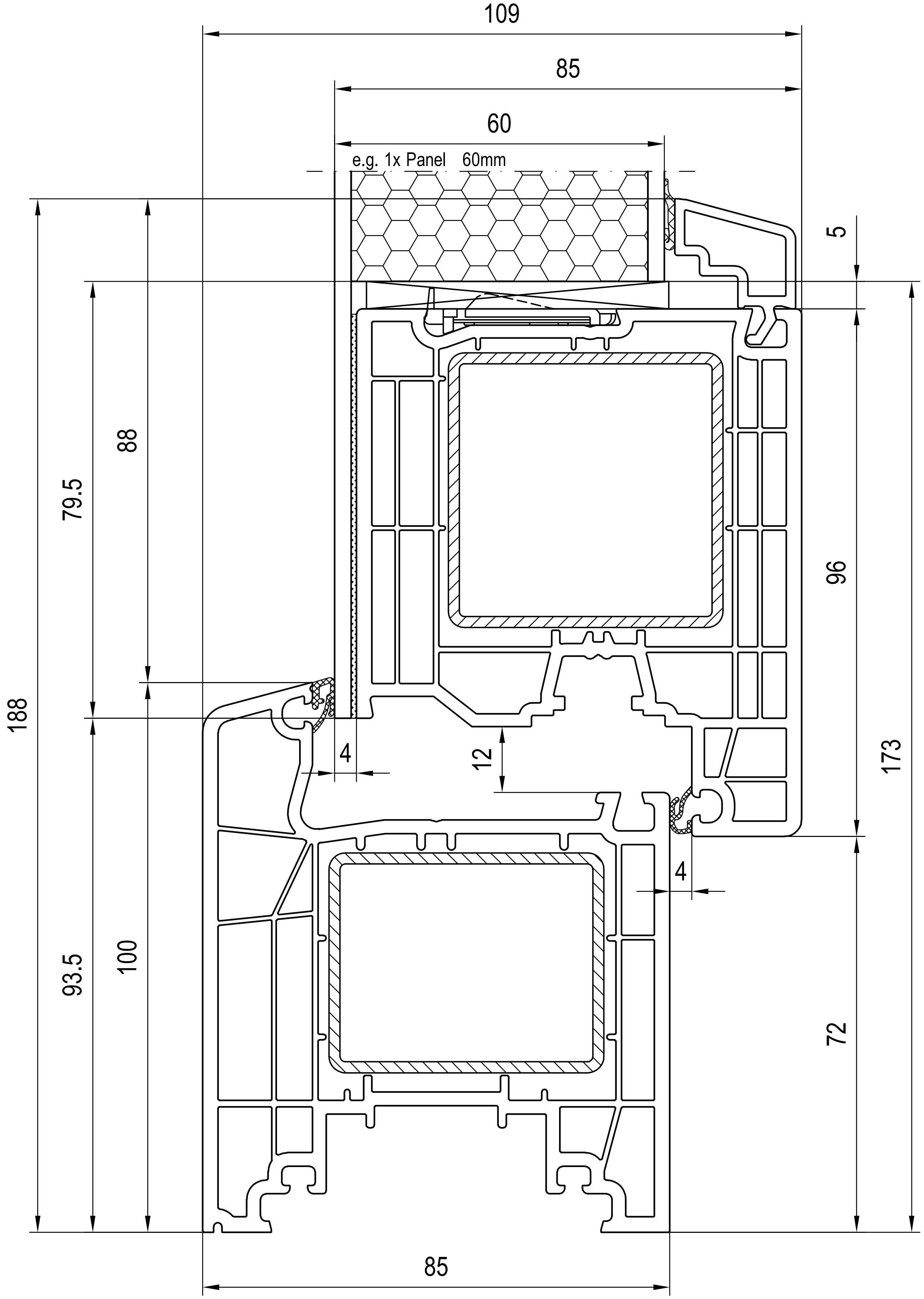
03_D_01_7*

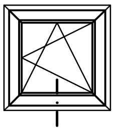
en May be subject to change and errors excepted!

Combinations: frame - sash

120636/120666 Glazing bead

Frame 170x81
Sash 170x35



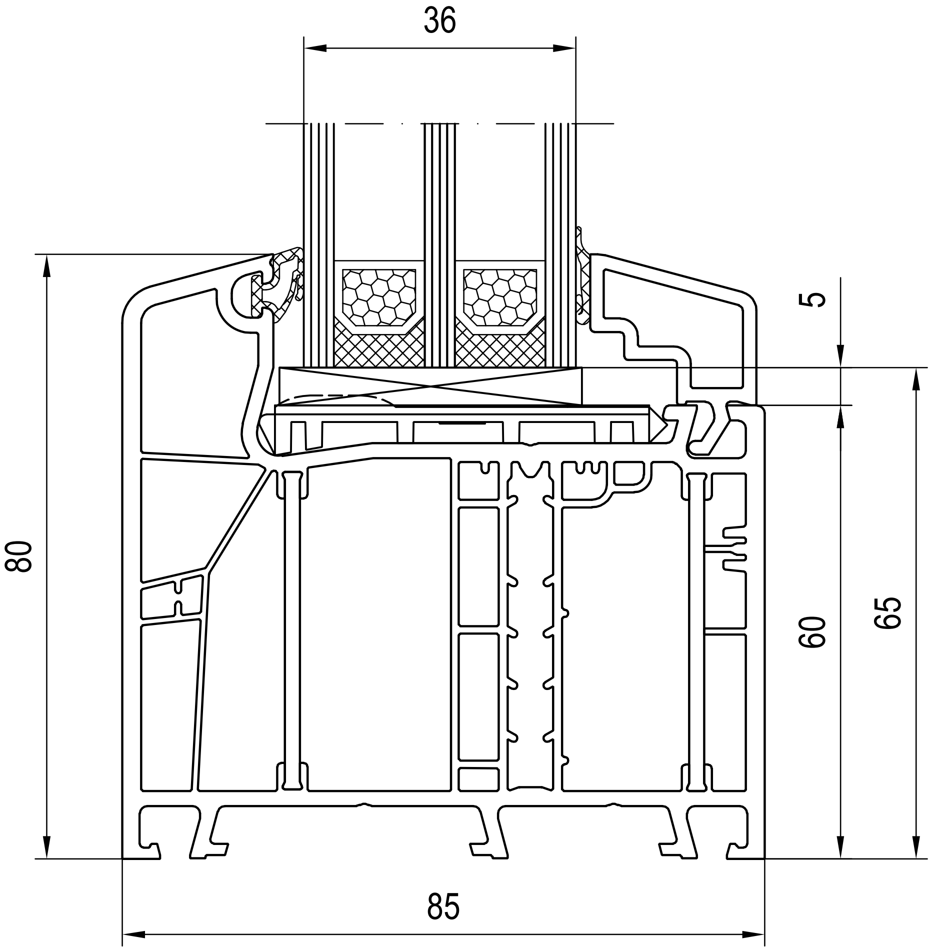


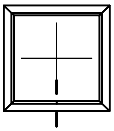
Scale 1:1
03_D_01_7*
en May be subject to change and errors excepted!

Combinations: frame - sash

120636/120666 Glazing bead

Frame 170x81
Sash 170x39



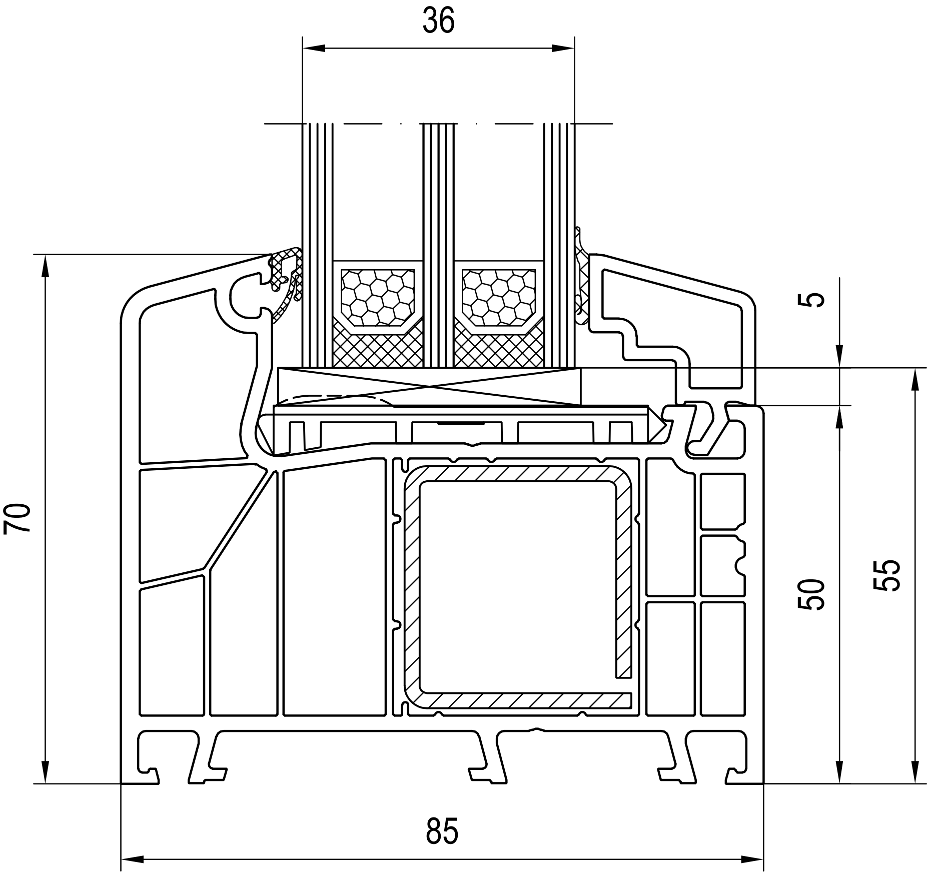


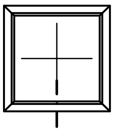
Scale 1:1
03_E_01_7*
en

Combinations: sash - fixed glazing

120636/120666 Glazing bead

Frame 070x03
-



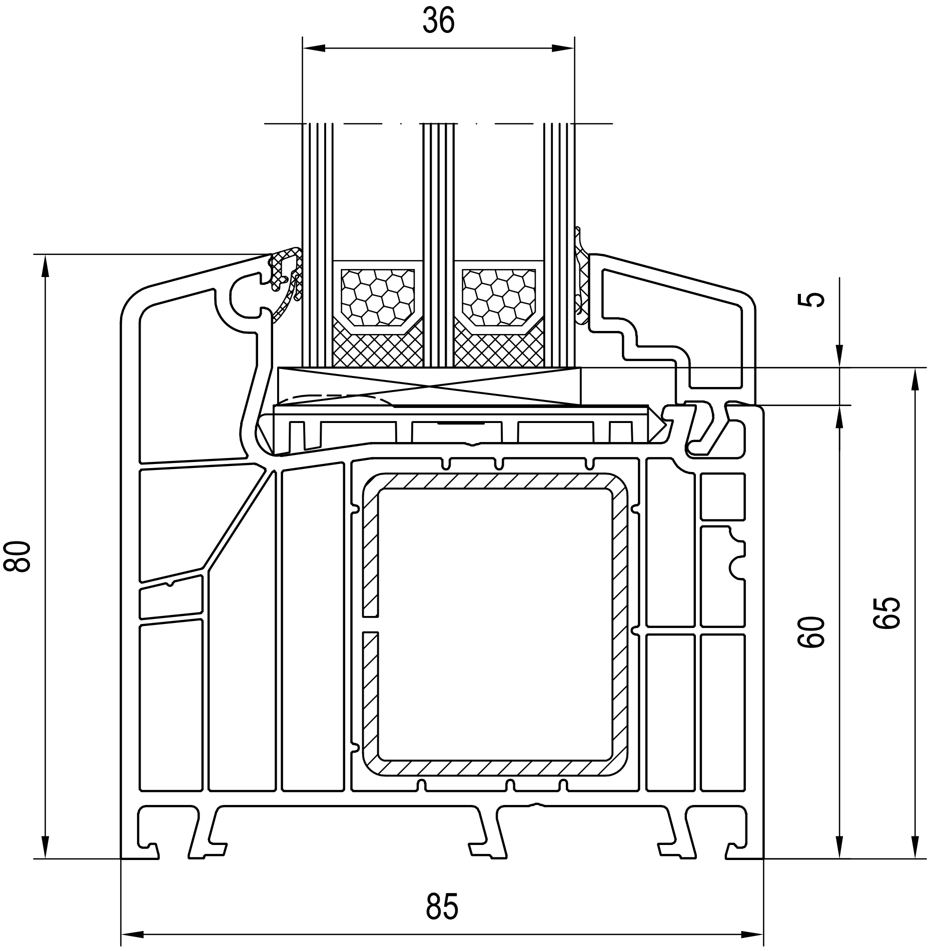


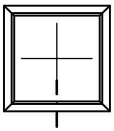
Scale 1:1
03_E_01_7*
en May be subject to change and errors excepted!

Combinations: sash - fixed glazing

120636/120666 Glazing bead

Frame 170x02
-





Scale 1:1

03_E_01_7*

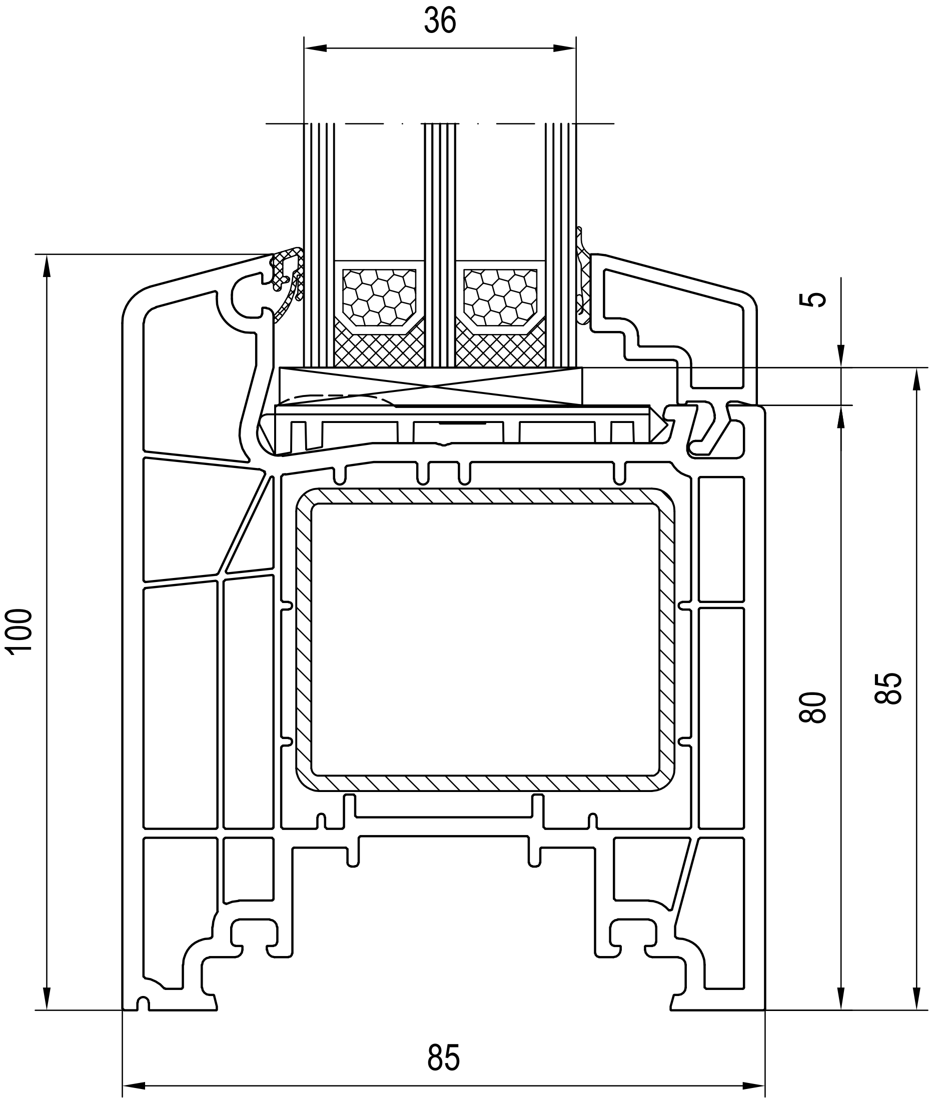
en

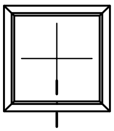
Combinations: sash - fixed glazing

120636/120666 Glazing bead

Frame 170x03

-





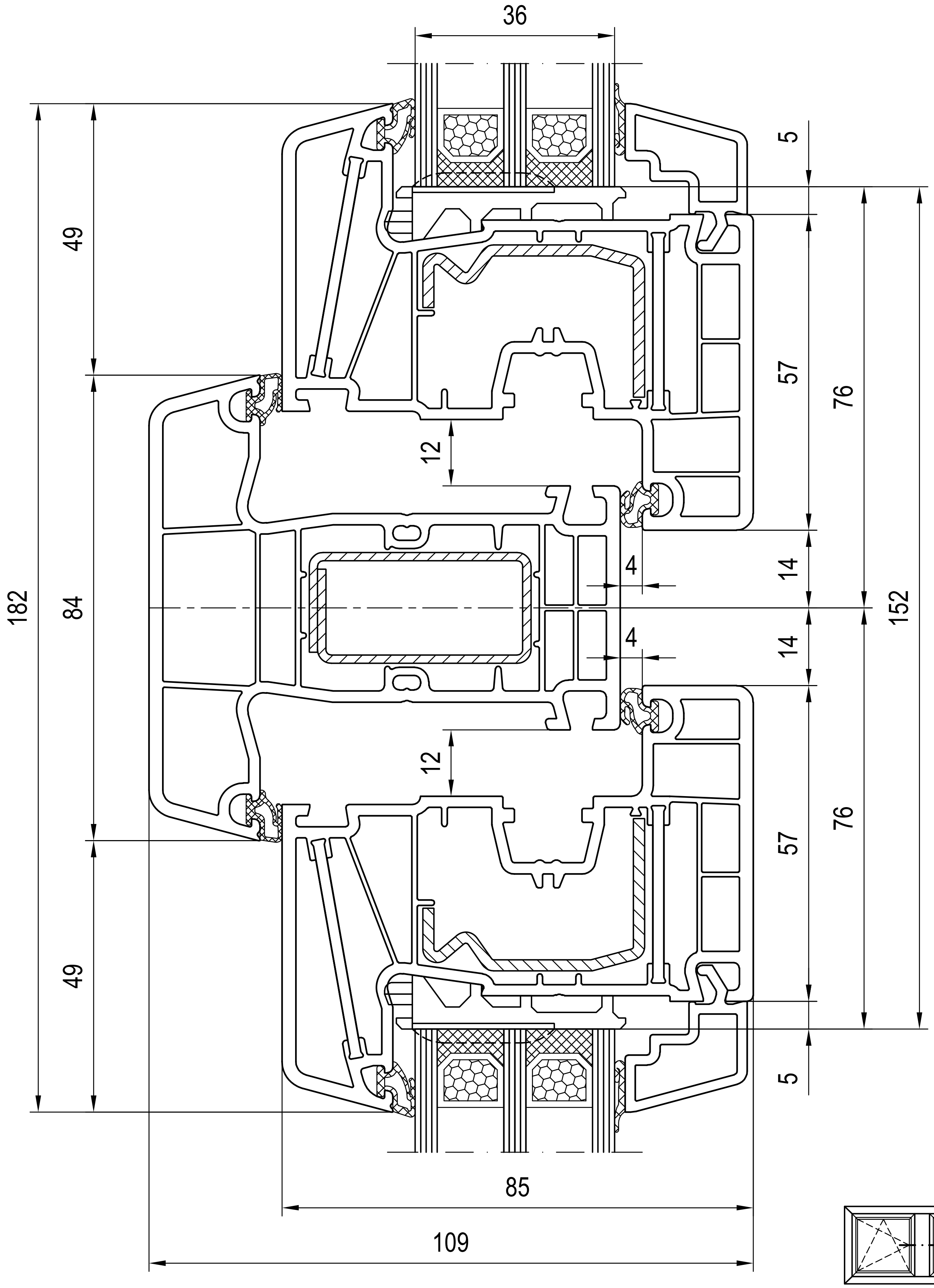
Scale 1:1
03_E_01_7*
en May be subject to change and errors excepted!

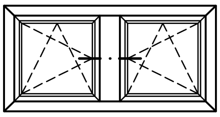
Combinations: sash - fixed glazing

Frame 170x81

120636/120666 Glazing bead

-

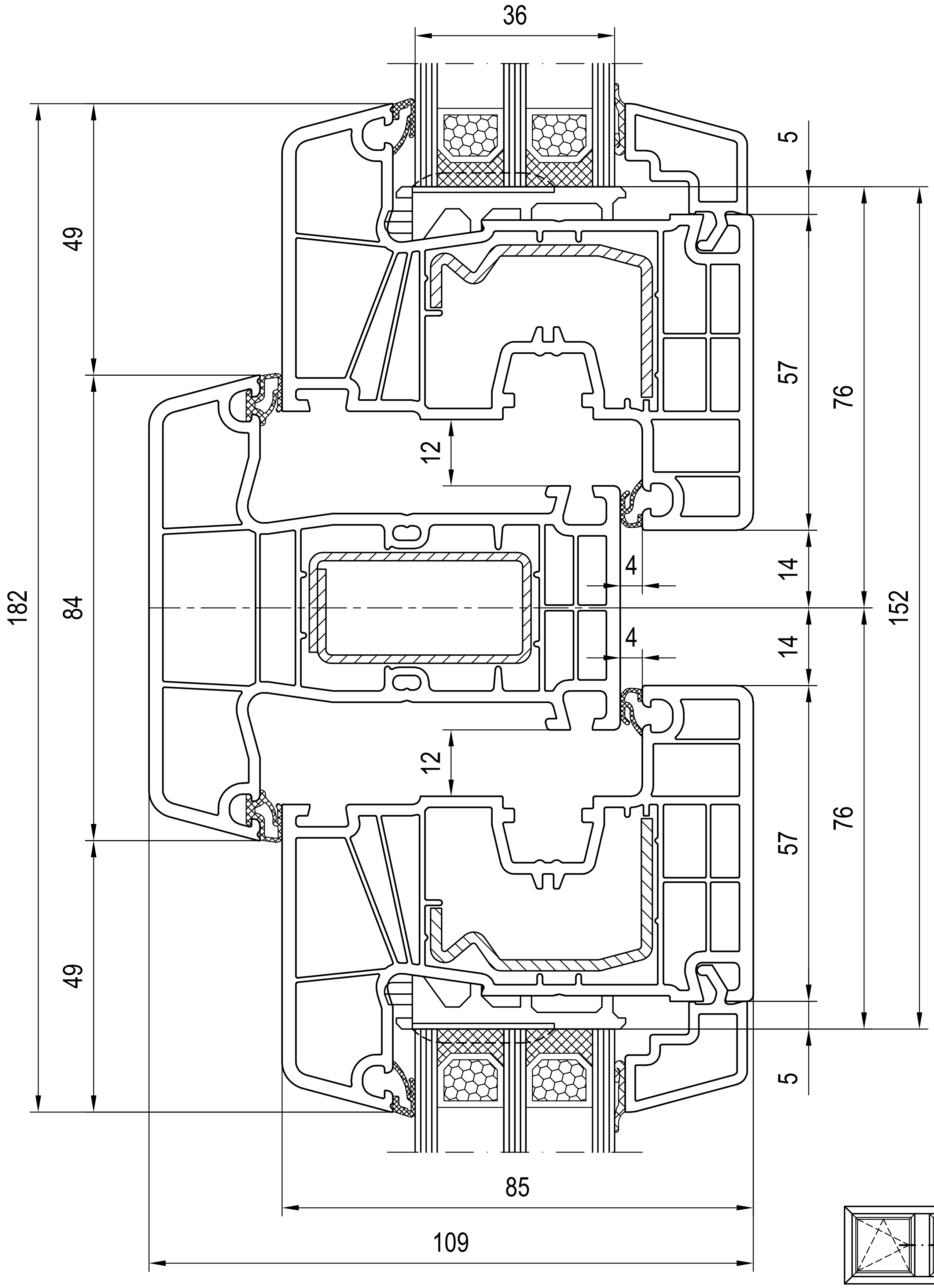


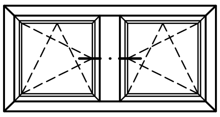


Combinations: sash - mullion - sash

120636/120666 Glazing bead

Mullion 170x41
Sash 070x20

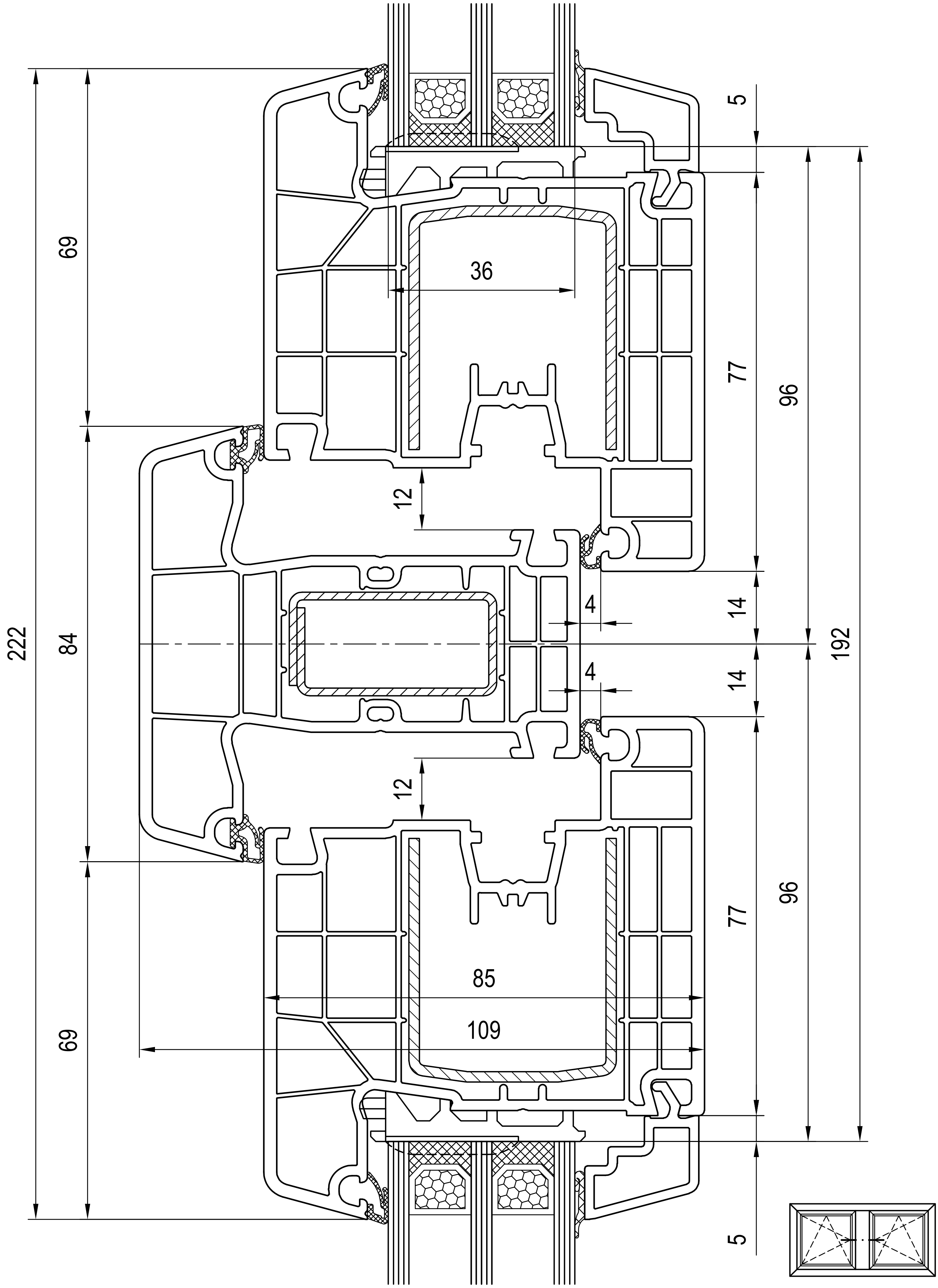




Scale 1:1
03_G_01_7*
en May be subject to change and errors excepted!

Combinations: sash - mullion - sash
120636/120666 Glazing bead

Mullion 170x41
Sash 170x20



Scale 1:1

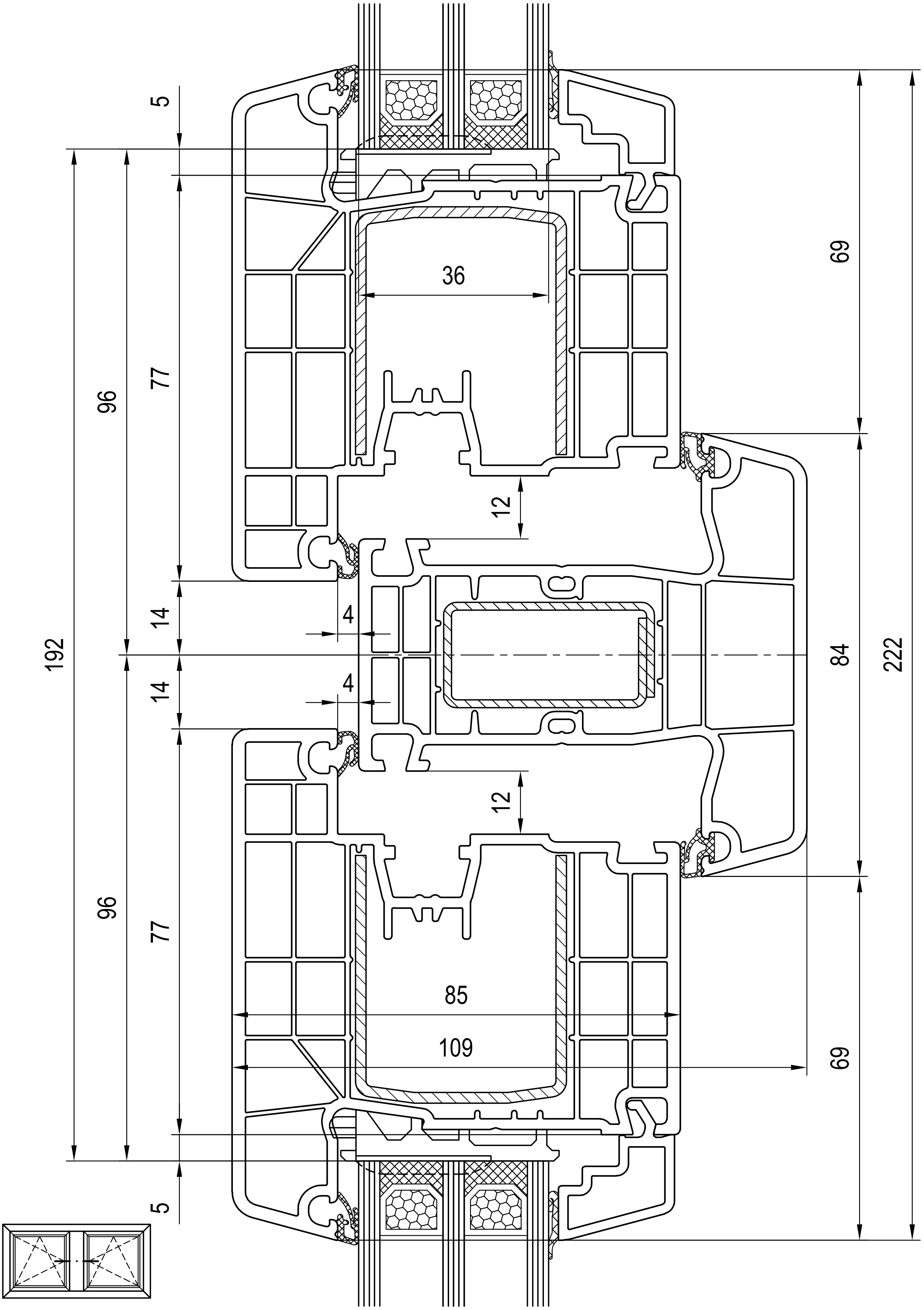
03_G_01_7*

en

Combinations: sash - mullion - sash

120636/120666 Glazing bead

Mullion 170x41
Sash 170x30

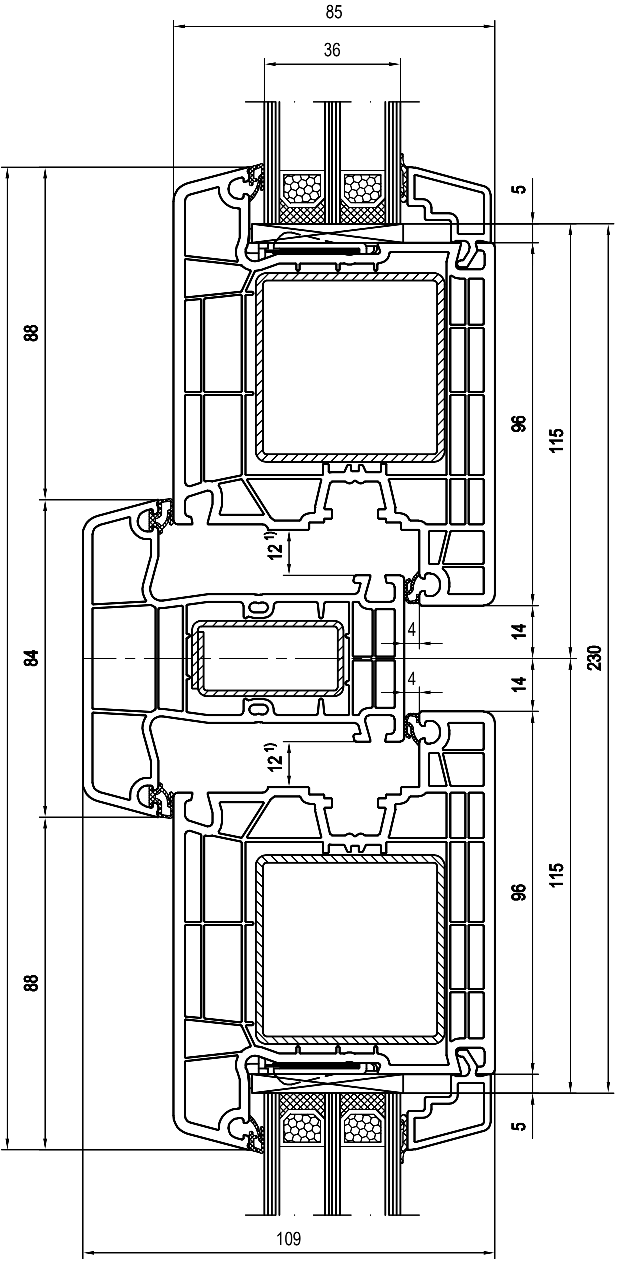


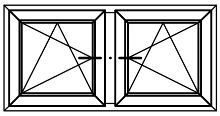
Scale 1:1
03_G_01_7*
en

Combinations: sash - mullion - sash

120636/120666 Glazing bead

Mullion 170x41
Sash 170x31



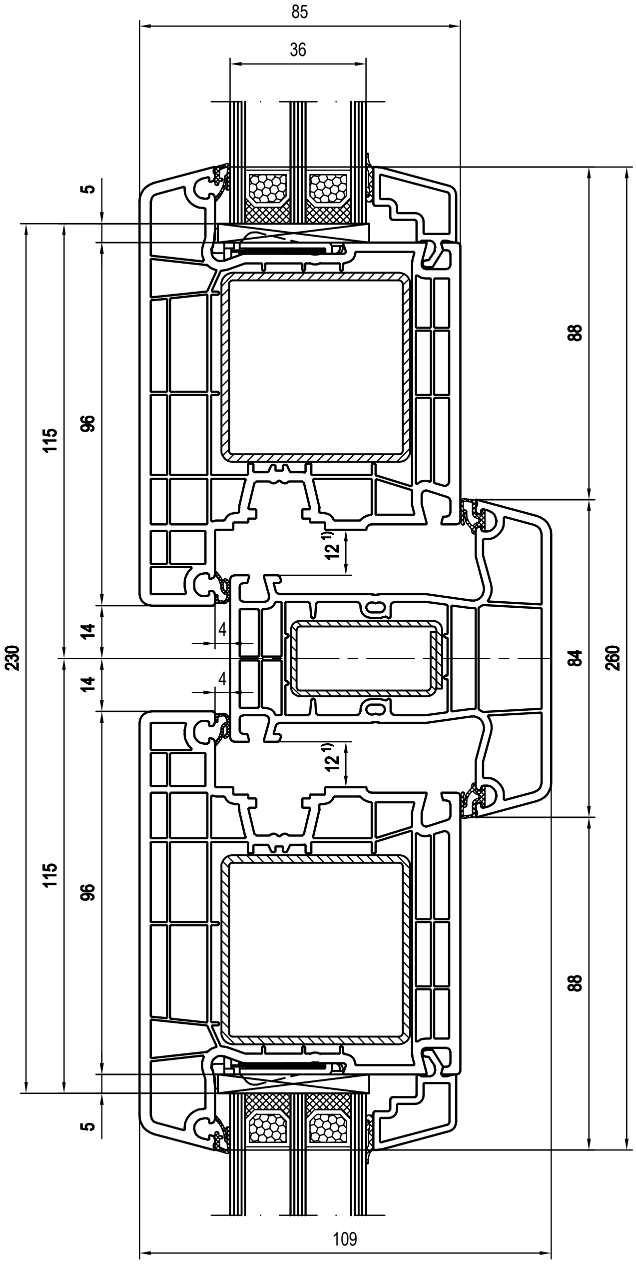


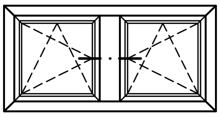
1) Rebate clearance of main entrance door on left and right side = 13 mm

Scale 1:2
03_G_01_7*
en May be subject to change and errors excepted!

Combinations: sash - mullion - sash
120636/120666 Glazing bead

Mullion 170x41
Sash 170x33



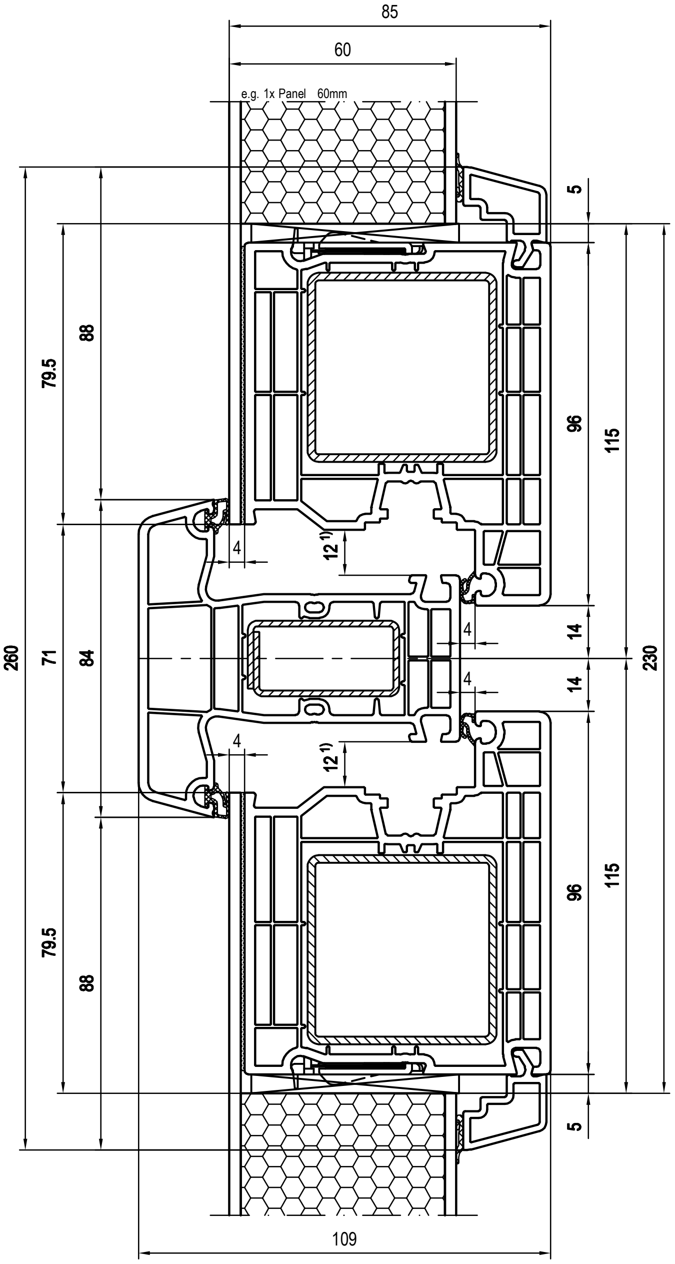


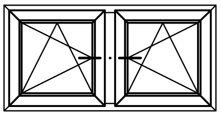
1) Rebate clearance of main entrance door on left and right side = 13 mm

Scale 1:2
03_G_01_7*
en

Combinations: sash - mullion - sash
120636/120666 Glazing bead

Mullion 170x41
Sash 170x35



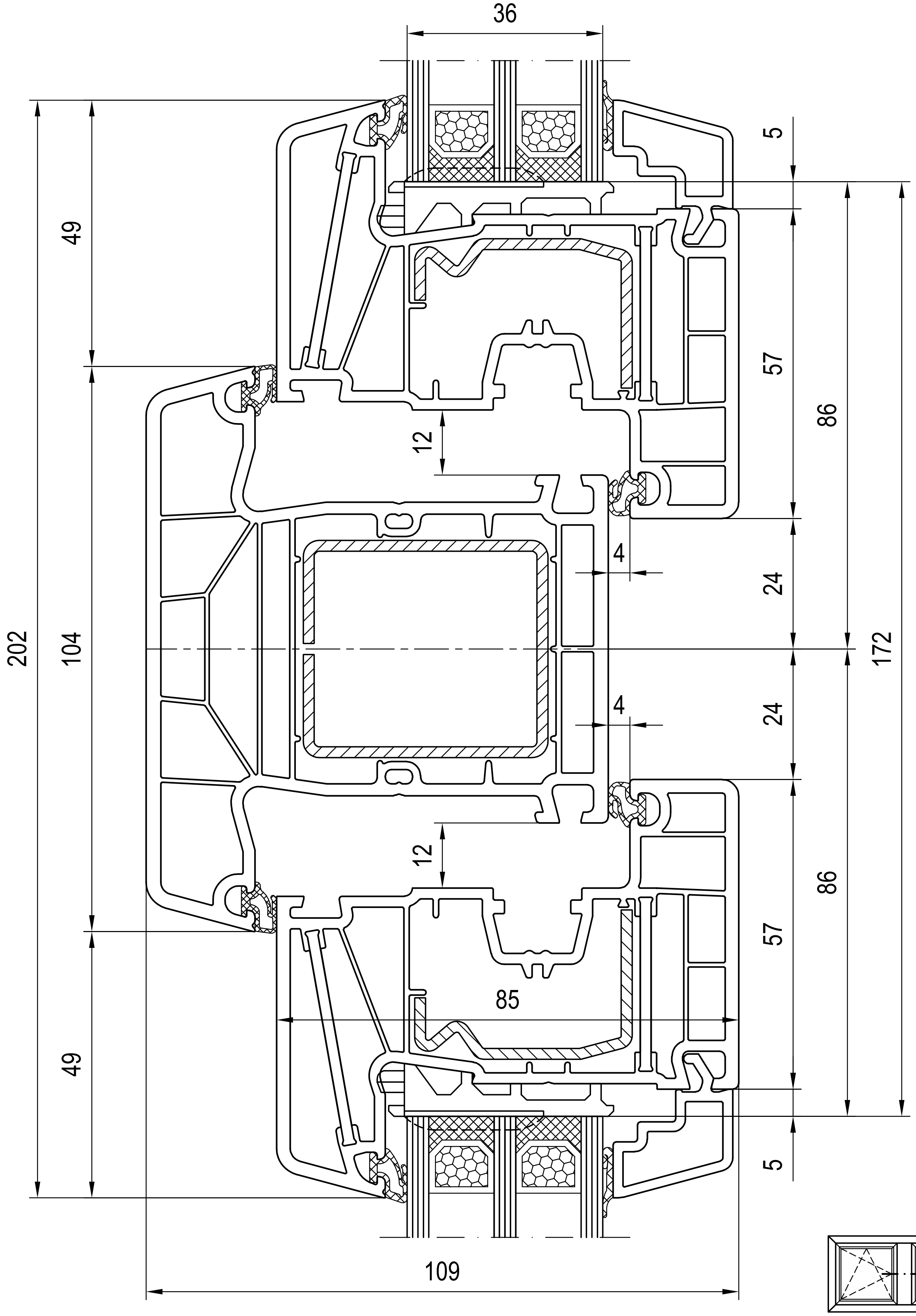


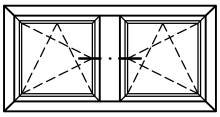
1) Rebate clearance of main entrance door on left and right side = 13 mm

Scale 1:2
03_G_01_7*
en

Combinations: sash - mullion - sash
120636/120666 Glazing bead

Mullion 170x41
Sash 170x39



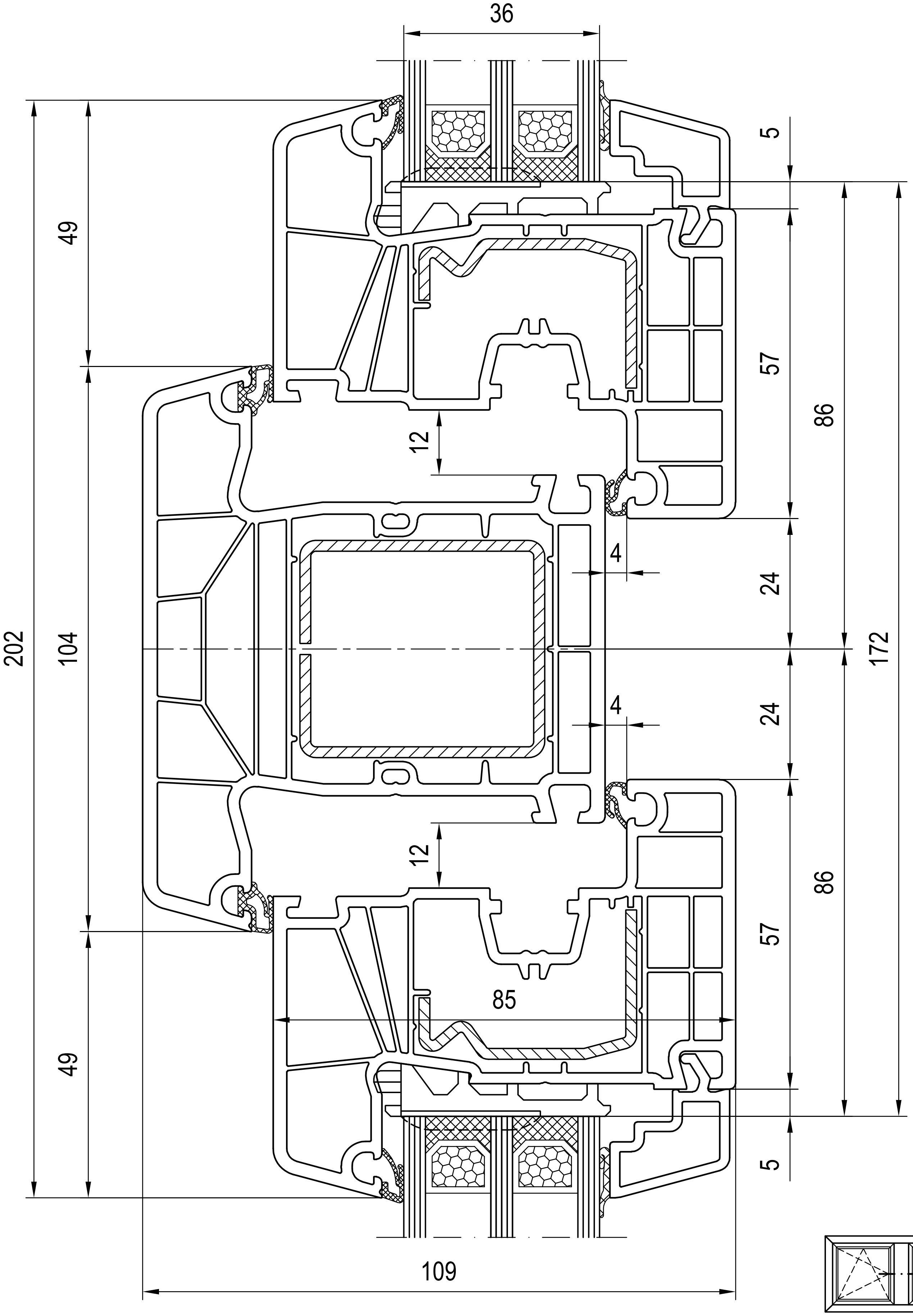


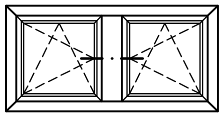
Combinations: sash - mullion - sash

120636/120666 Glazing bead

Mullion 170x44

Sash 070x20





Scale 1:1

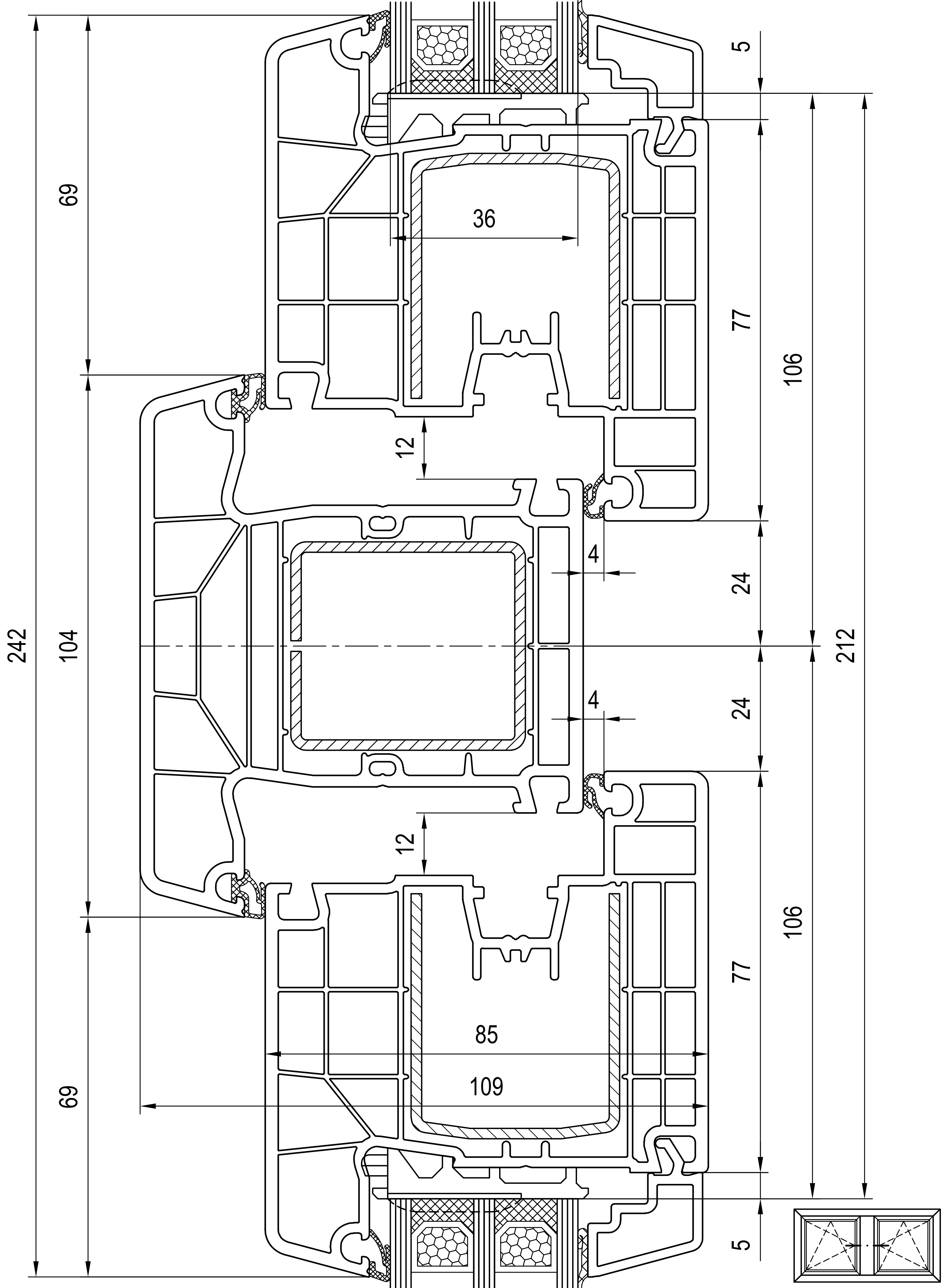
03_G_01_7*

en

Combinations: sash - mullion - sash

120636/120666 Glazing bead

Mullion 170x44
Sash 170x20

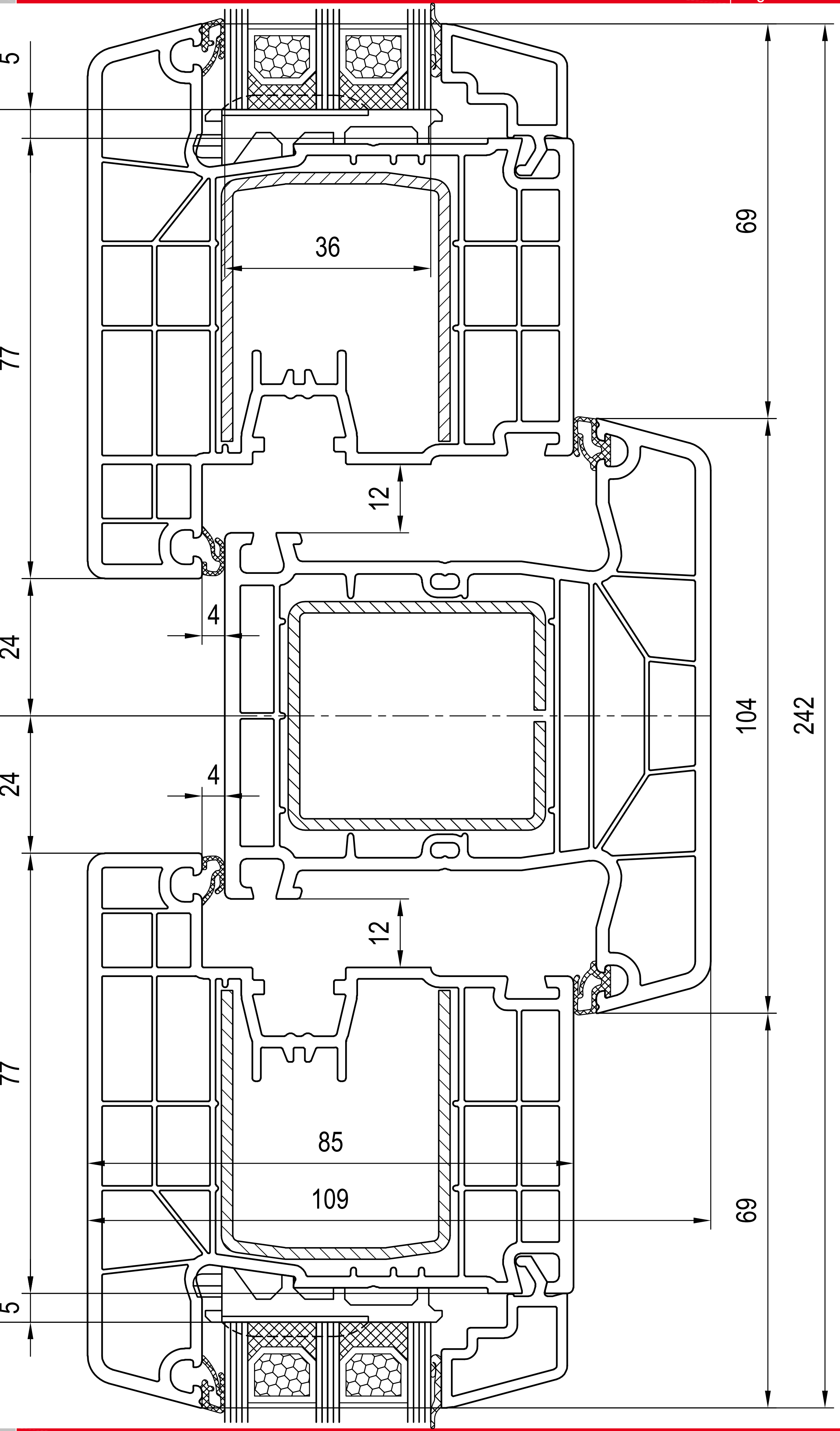


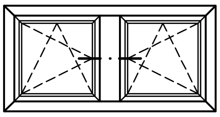
Scale 1:1
03_G_01_7*
en
May be subject to change and errors excepted!

Combinations: sash - mullion - sash

120636/120666 Glazing bead

Mullion 170x44
Sash 170x30



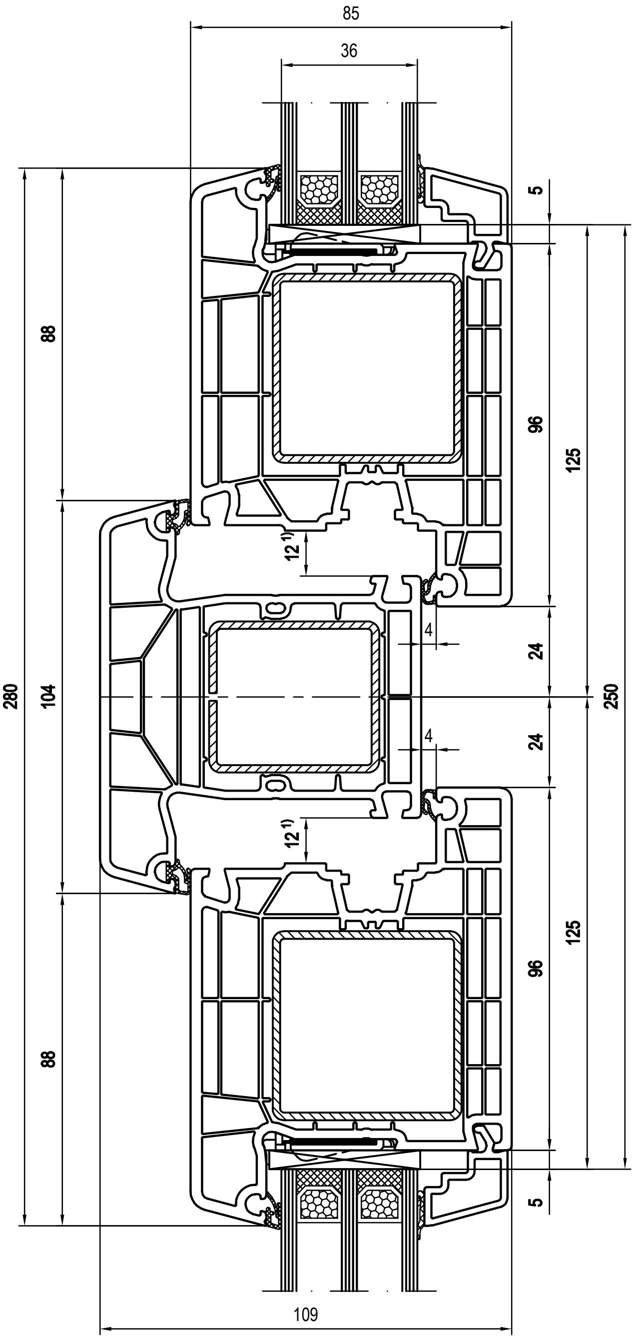


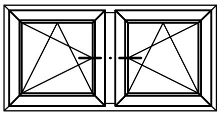
Scale 1:1
03_G_01_7*
en

Combinations: sash - mullion - sash

120636/120666 Glazing bead

Mullion 170x44
Sash 170x31





1) Rebate clearance of main entrance door on left and right side = 13 mm

Scale 1:2

03_G_01_7*

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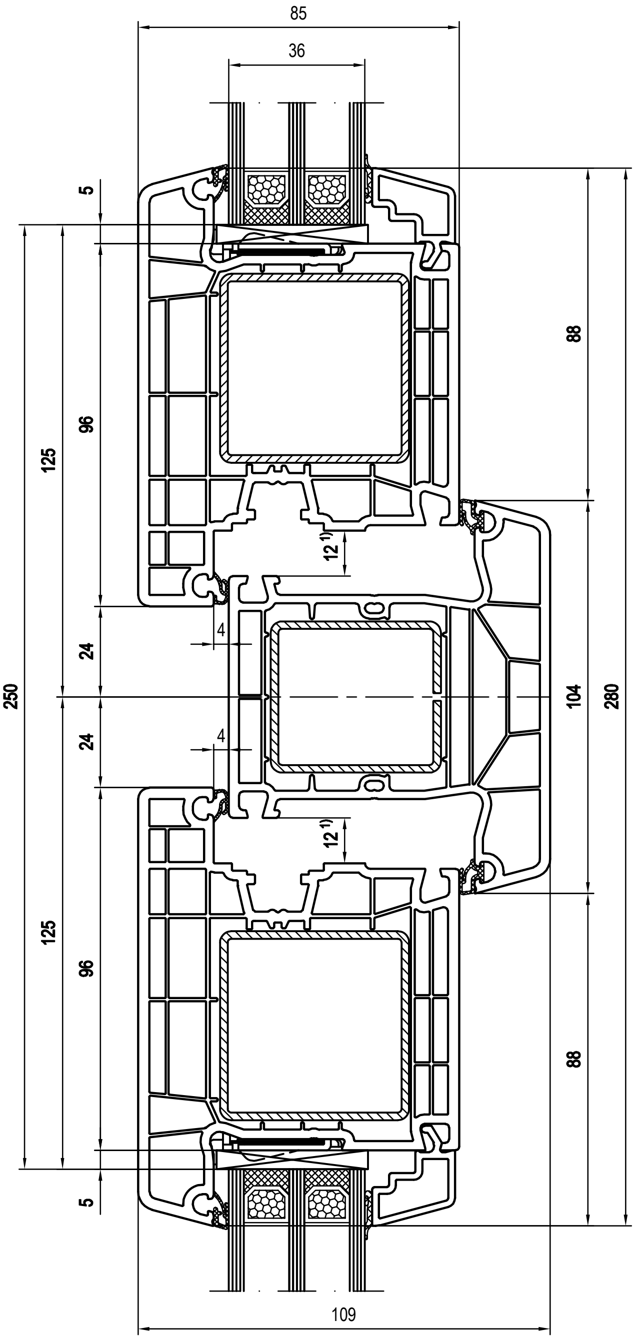
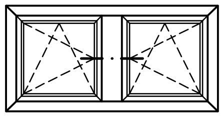
Combinations: sash - mullion - sash

120636/120666 Glazing bead

Mullion 170x44
Sash 170x33





[1] Rebate clearance of main entrance door on left and right side = 13 mm

Scale 1:2

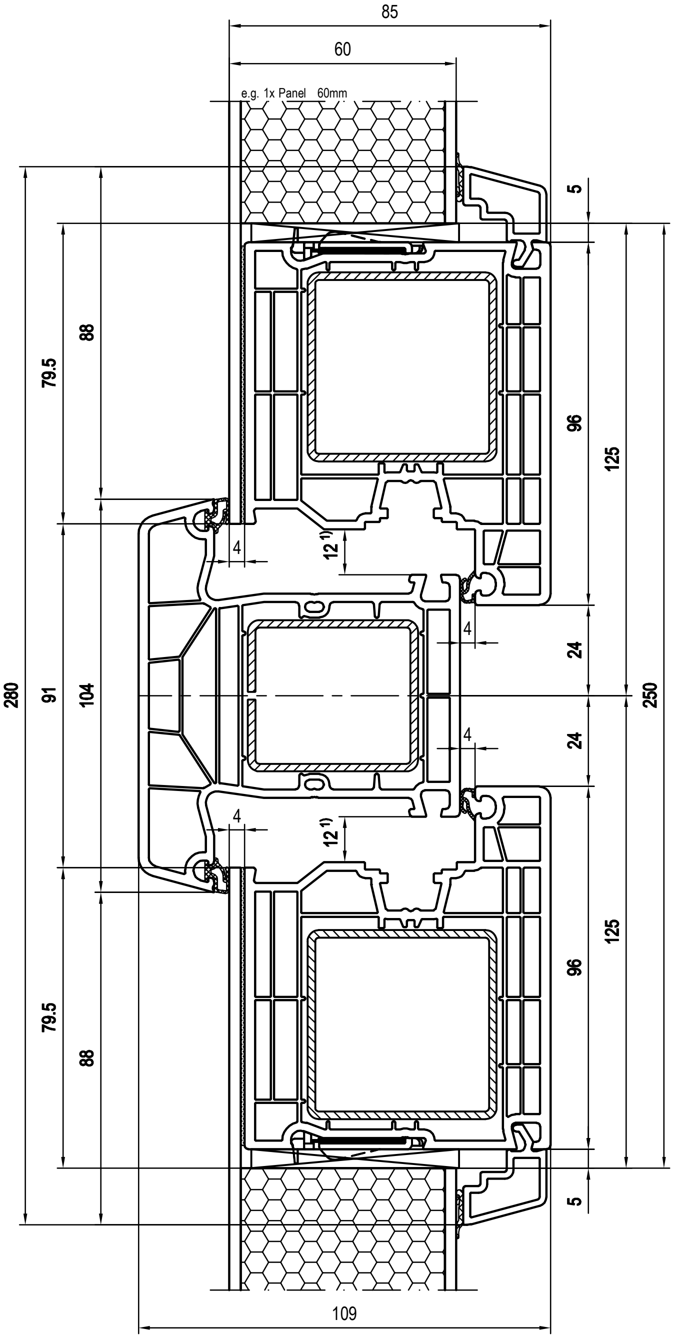
03_G_01_7*

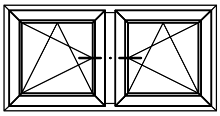
en

Combinations: sash - mullion - sash

120636/120666 Glazing bead

Mullion 170x44
Sash 170x35



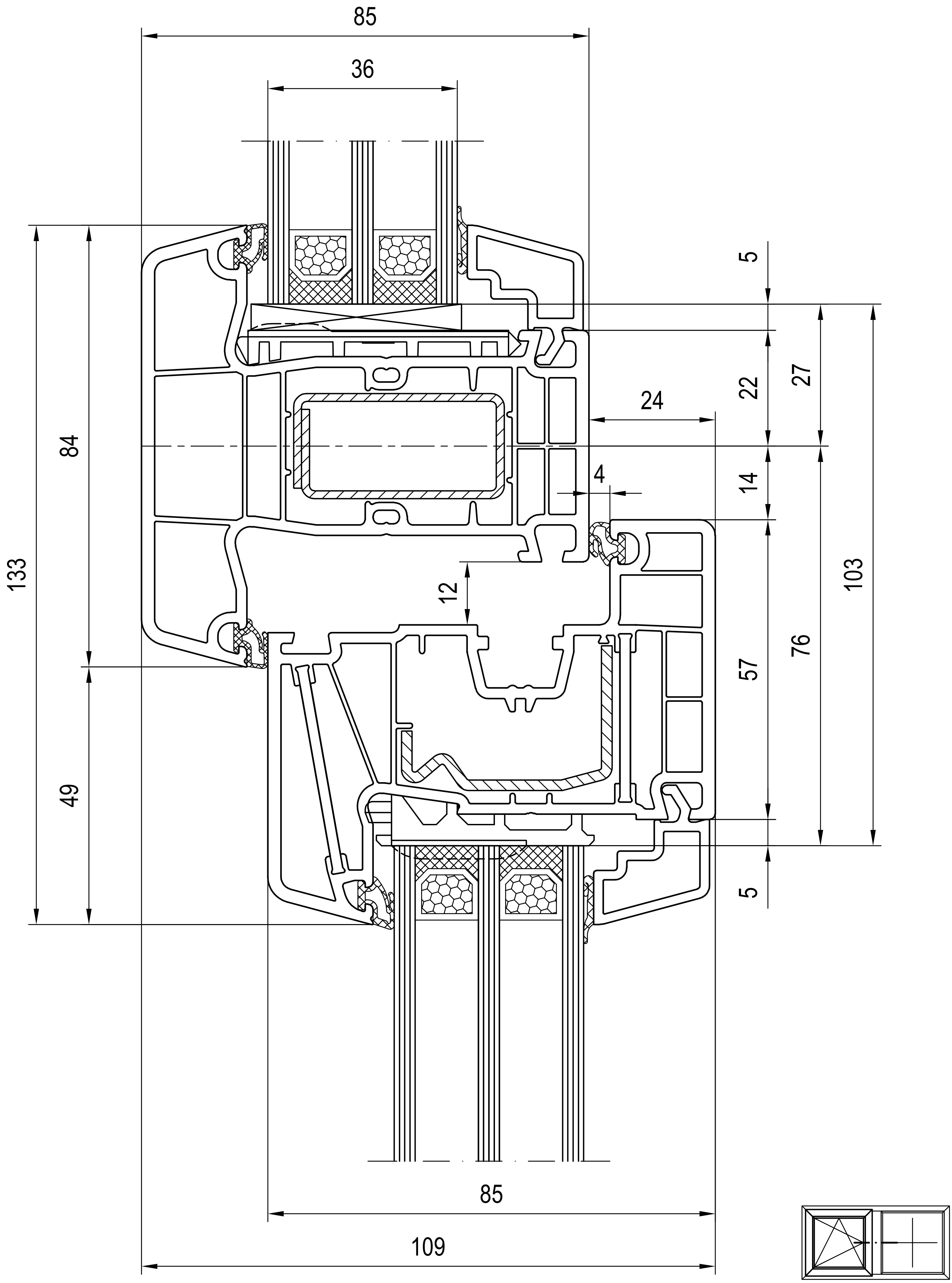


1) Rebate clearance of main entrance door on left and right side = 13 mm

Combinations: sash - mullion - sash

120636/120666 Glazing bead

Mullion 170x44
Sash 170x39

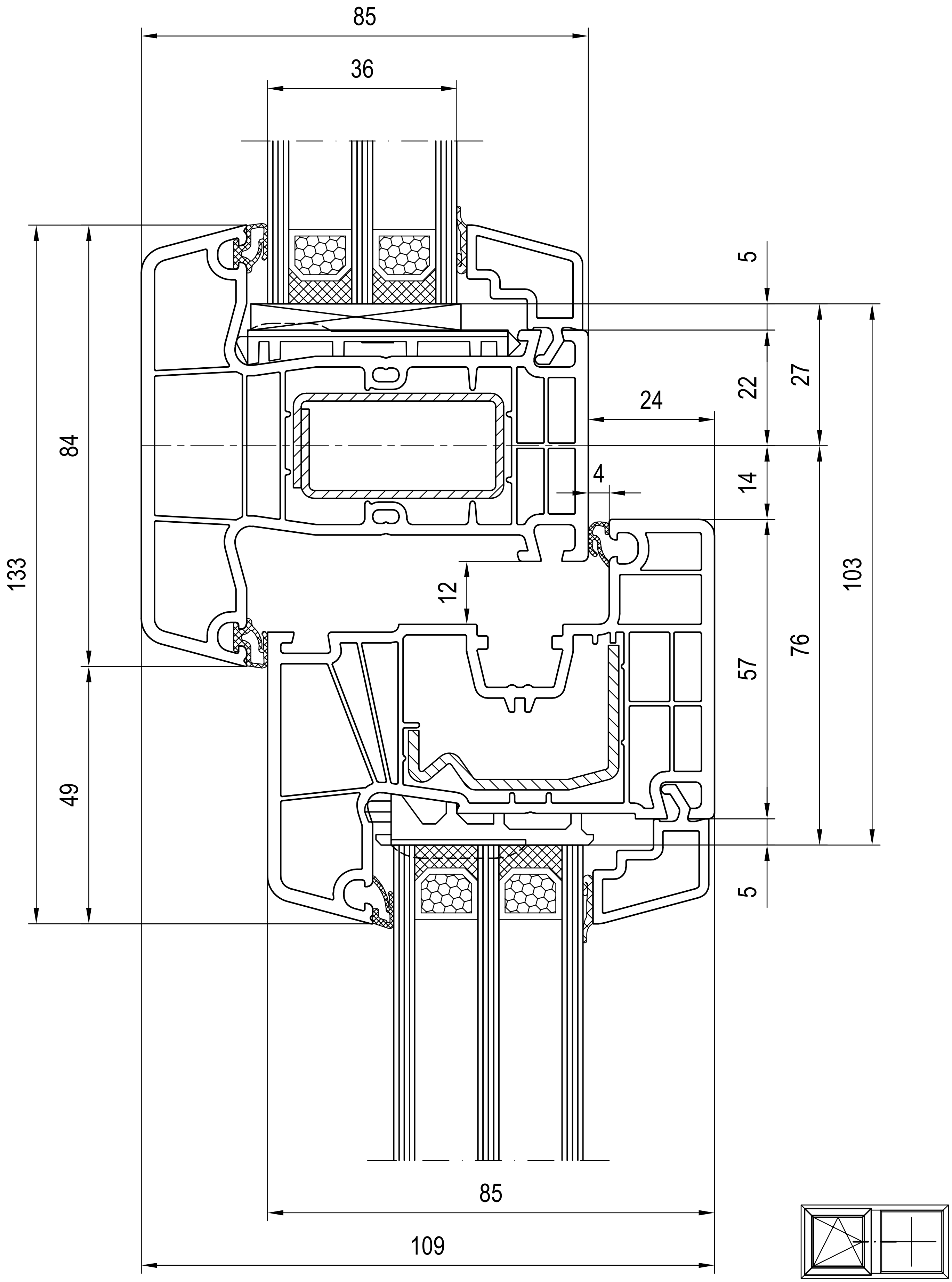


Scale 1:1
03_H_01_7*
en May be subject to change and errors excepted!

Combinations: sash - mullion - fixed glazing

120636/120666 Glazing bead

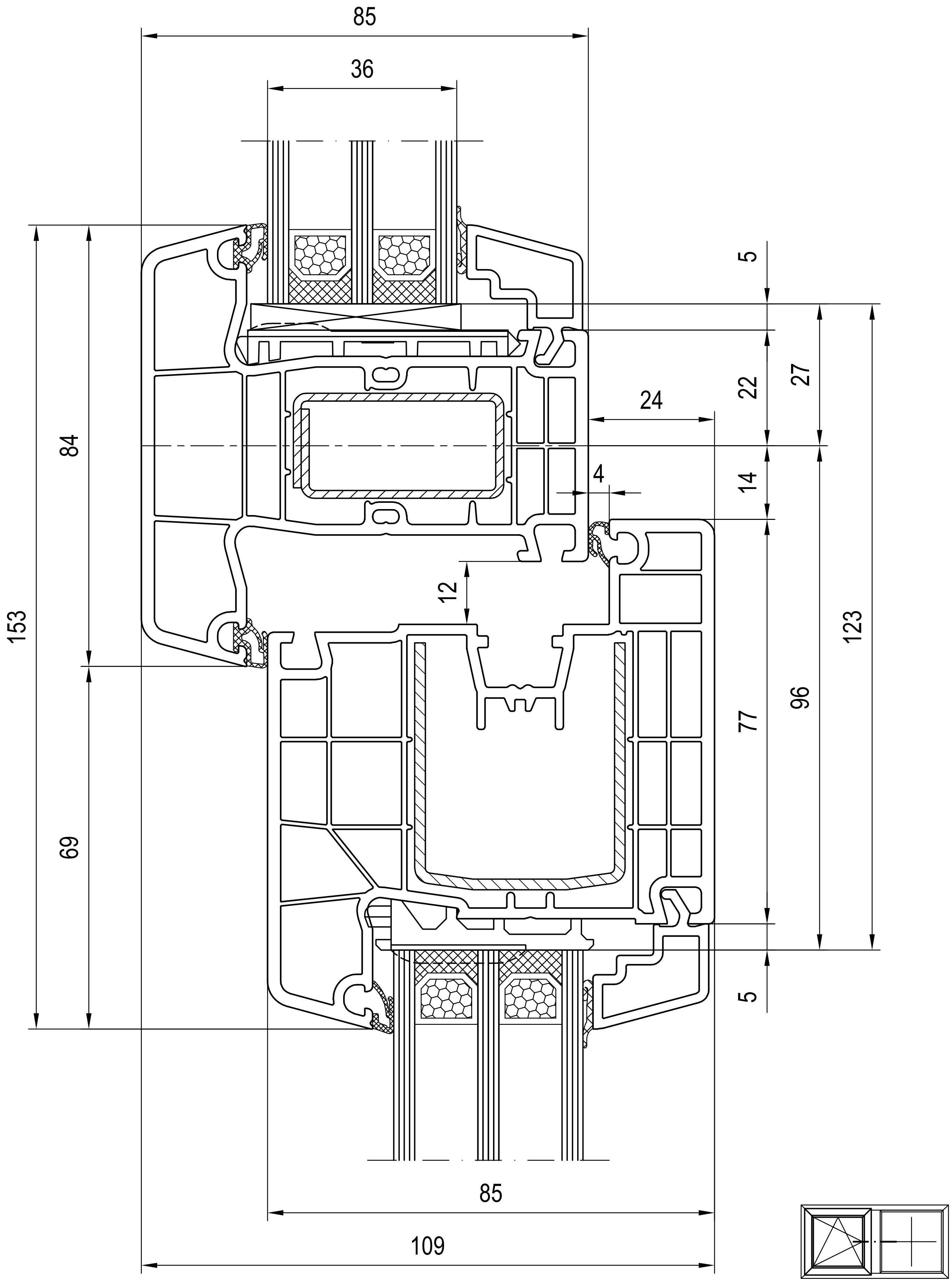
Mullion 170x41
Sash 070x20



Scale 1:1
03_H_01_7*
en May be subject to change and errors excepted!

Combinations: sash - mullion - fixed glazing
120636/120666 Glazing bead

Mullion 170x41
Sash 170x20



Scale 1:1
03_H_01_7*
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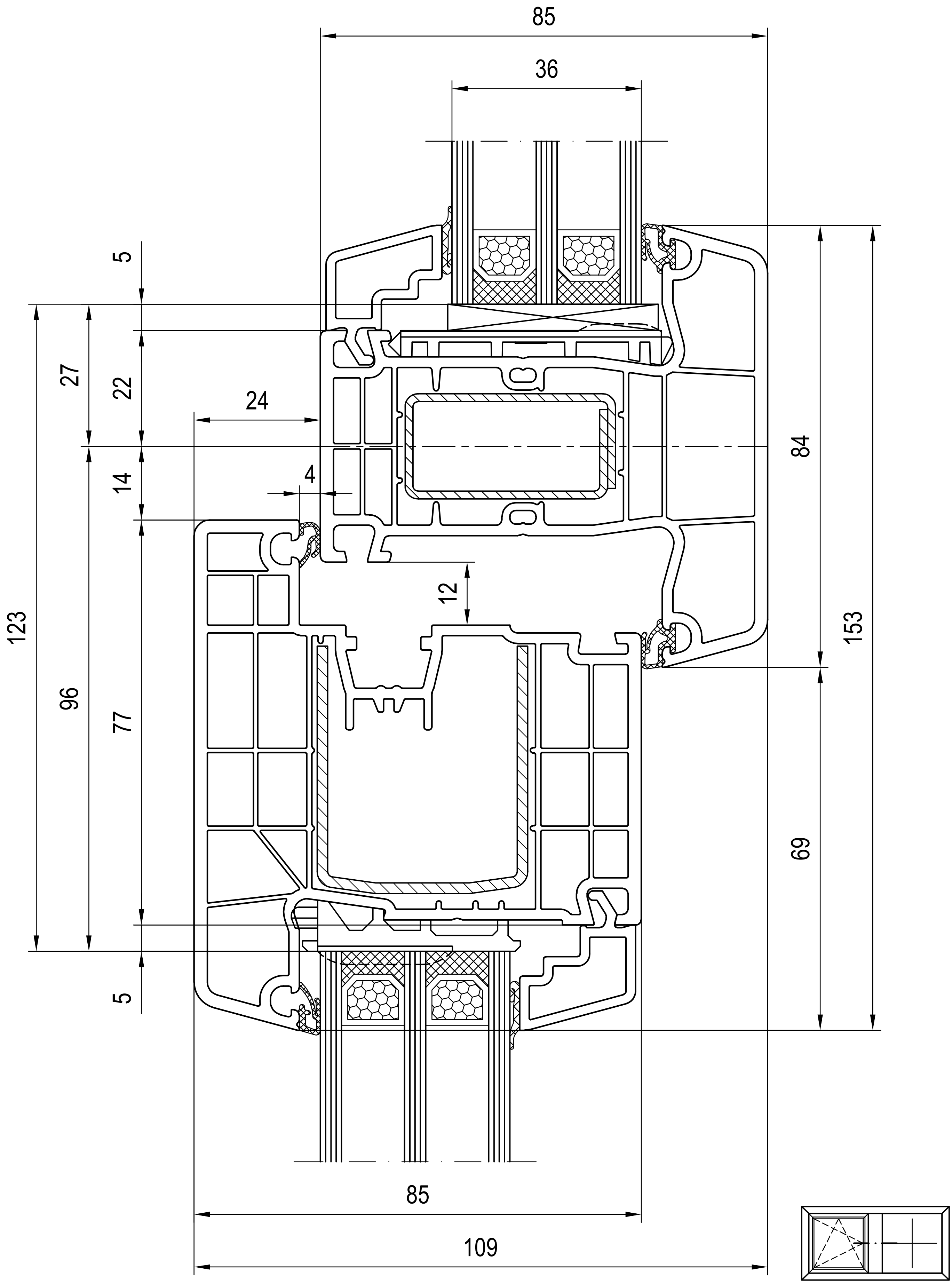
Combinations: sash - mullion - fixed glazing
120636/120666 Glazing bead

Mullion 170x41
Sash 170x30



Scale 1:1

03_H_01_7*

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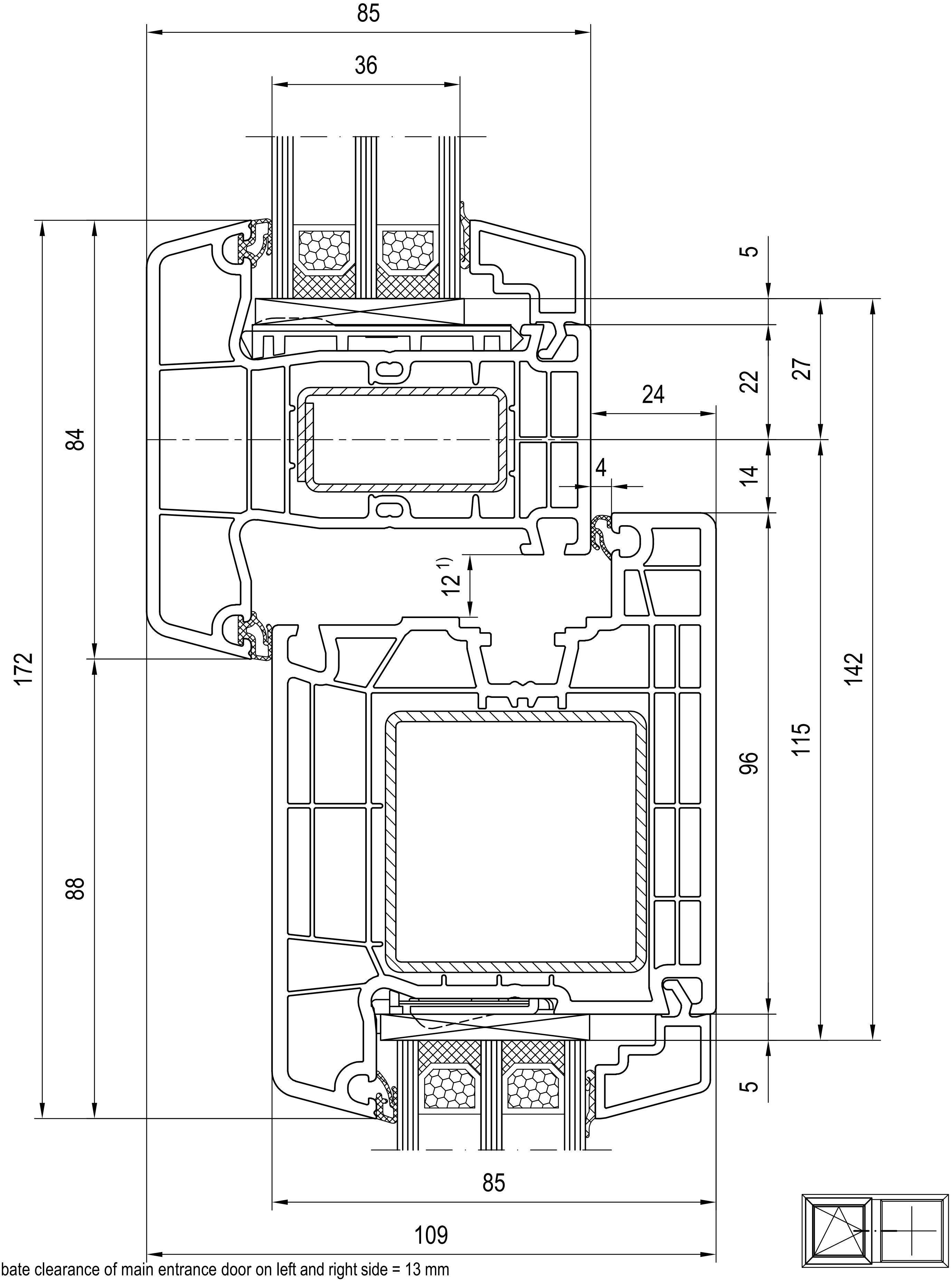
Combinations: sash - mullion - fixed glazing

120636/120666 Glazing bead

Mullion 170x41

Sash 170x31



1) Rebate clearance of main entrance door on left and right side = 13 mm

Scale 1:1

03_H_01_7*

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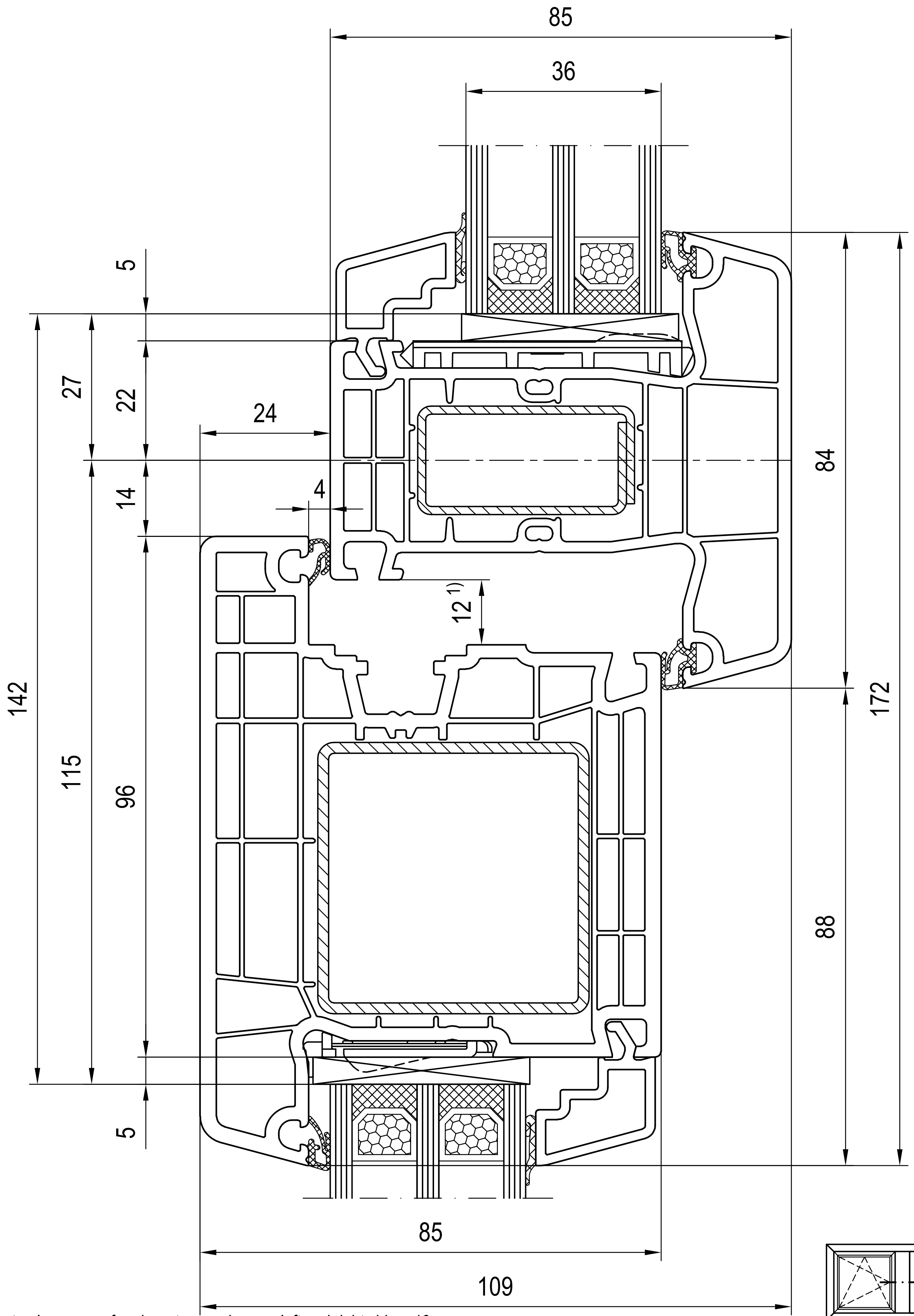
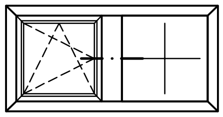
Combinations: sash - mullion - fixed glazing

120636/120666 Glazing bead

Mullion 170x41
Sash 170x33





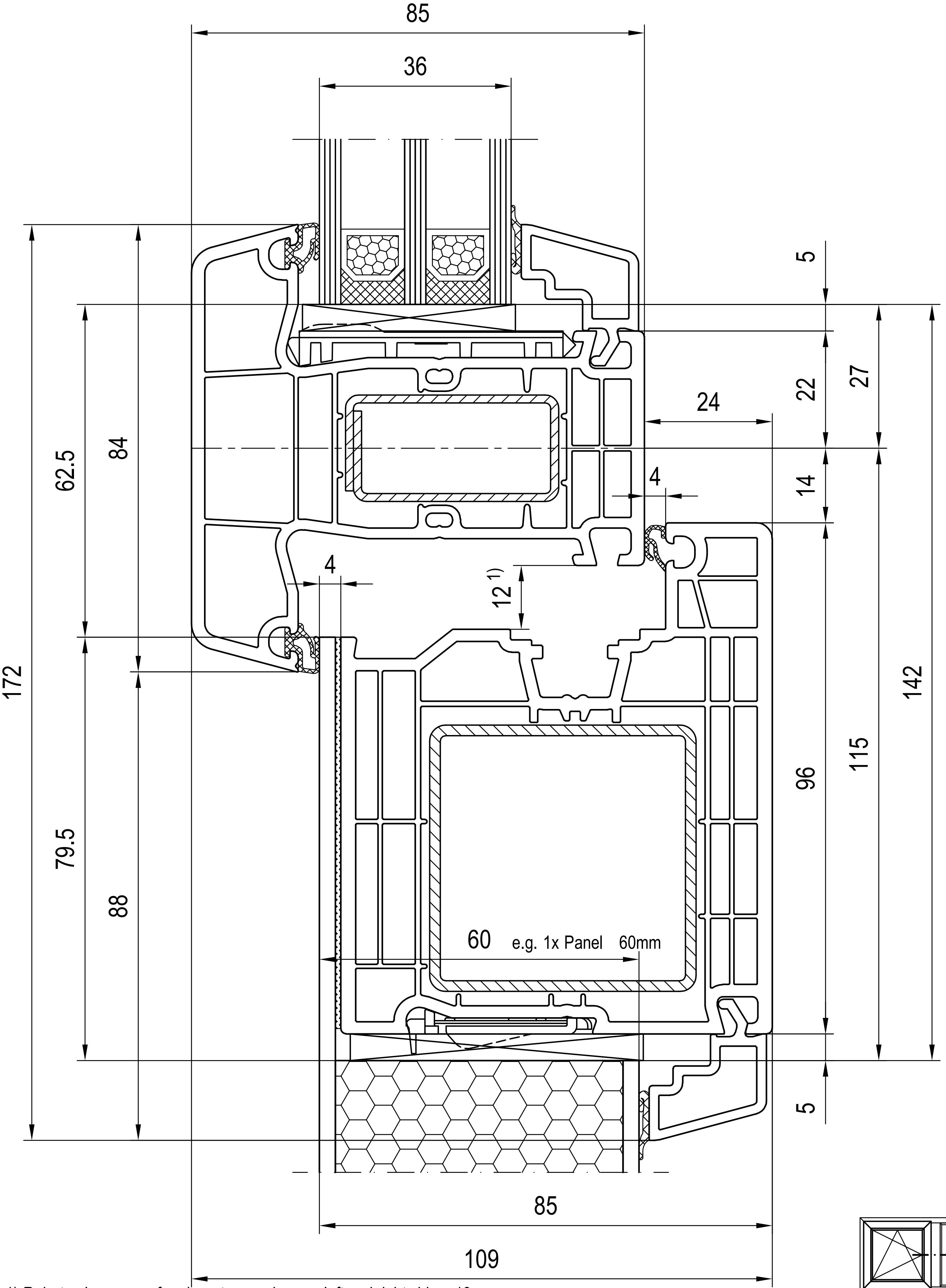
1) Rebate clearance of main entrance door on left and right side = 13 mm

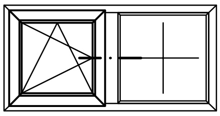
Scale 1:1
03_H_01_7*
en
May be subject to change and errors excepted!

Combinations: sash - mullion - fixed glazing

120636/120666 Glazing bead

Mullion 170x41
Sash 170x35





1) Rebate clearance of main entrance door on left and right side = 13 mm

Scale 1:1
03_H_01_7*
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Combinations: sash - mullion - fixed glazing

120636/120666 Glazing bead

Mullion 170x41
Sash 170x39

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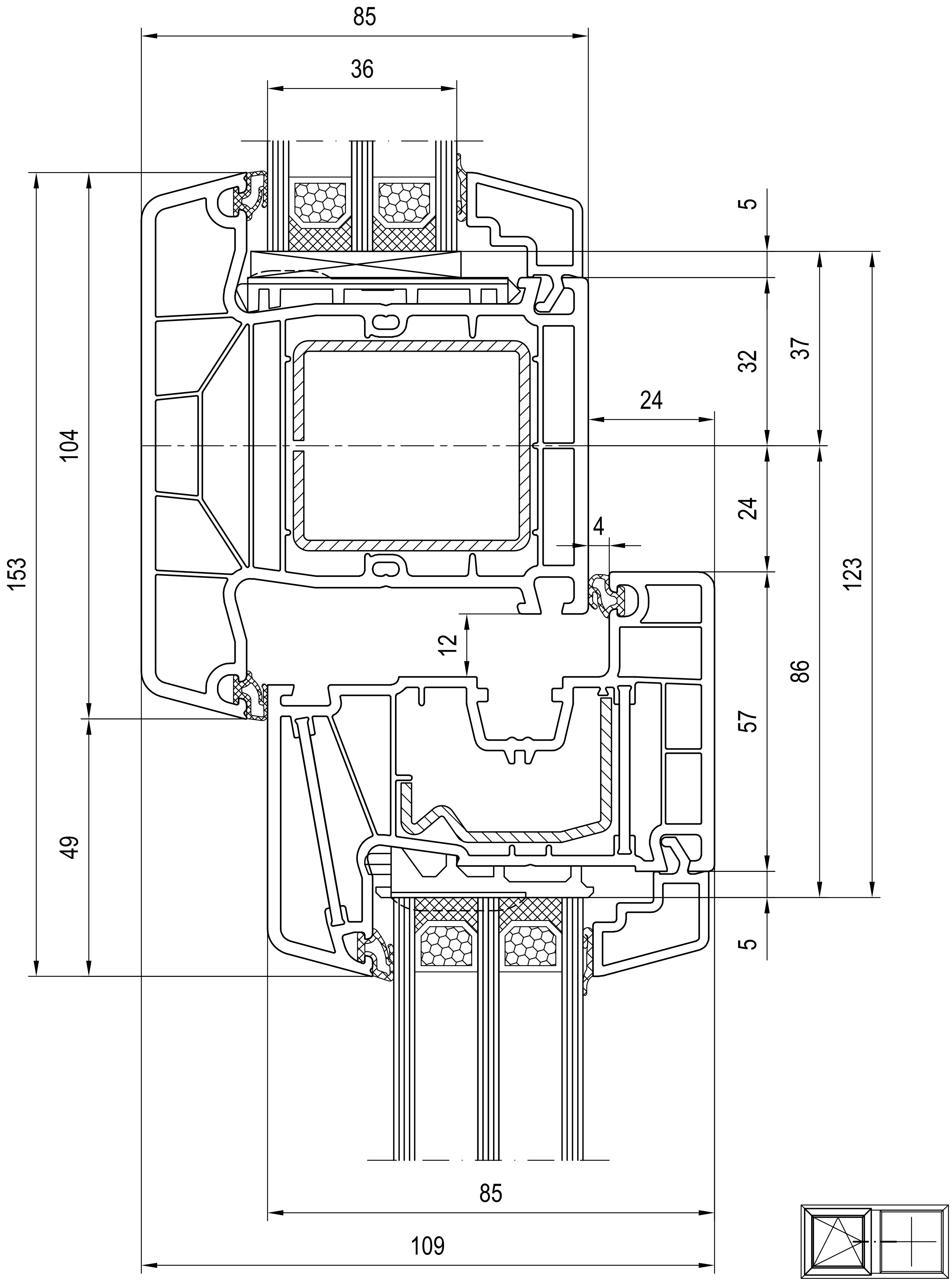
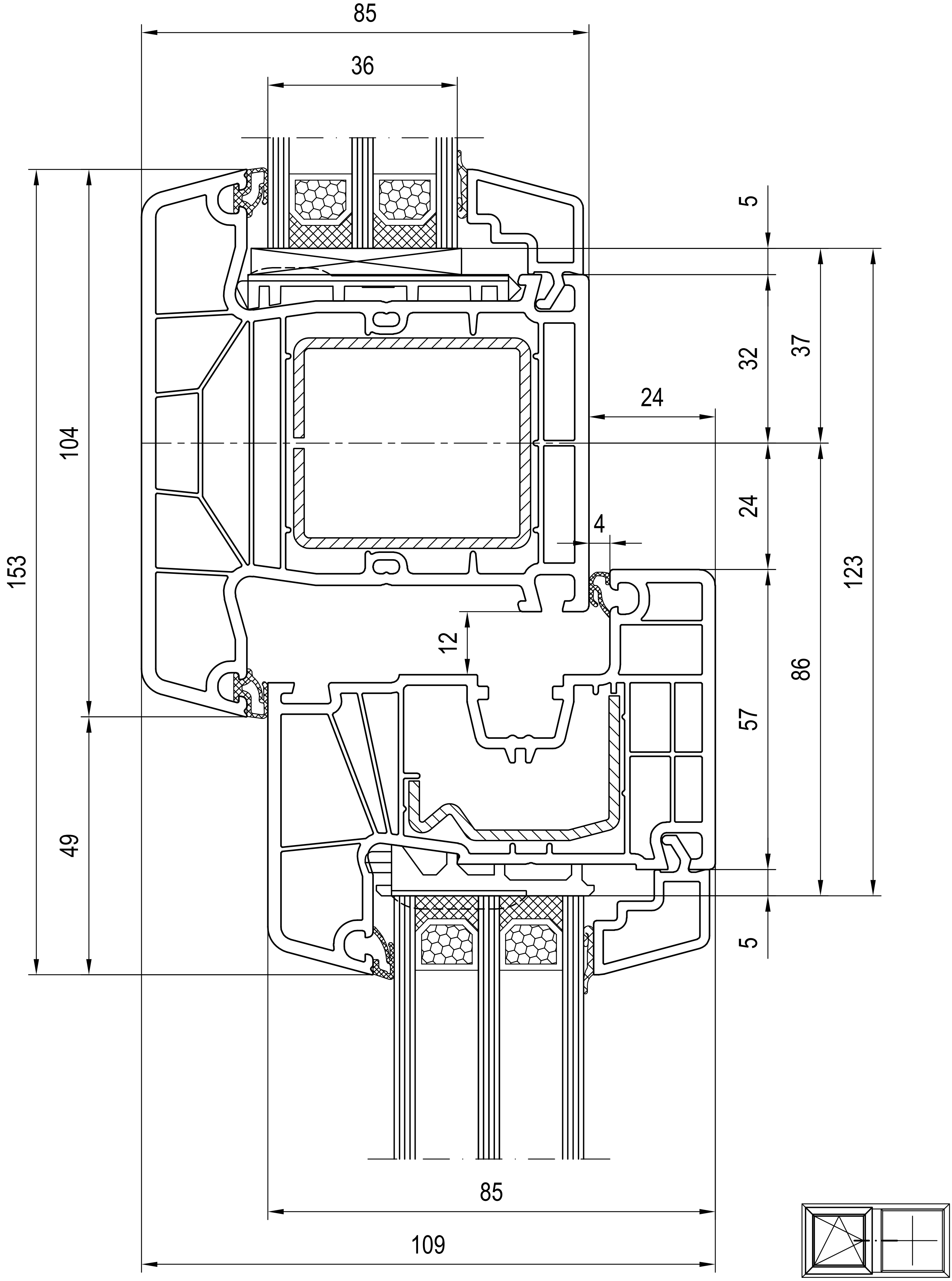


Scale 1:1
03_H_01_7*
en May be subject to change and errors excepted!

Combinations: sash - mullion - fixed glazing

120636/120666 Glazing bead

Mullion 170x44
Sash 070x20



Scale 1:1
03_H_01_7*
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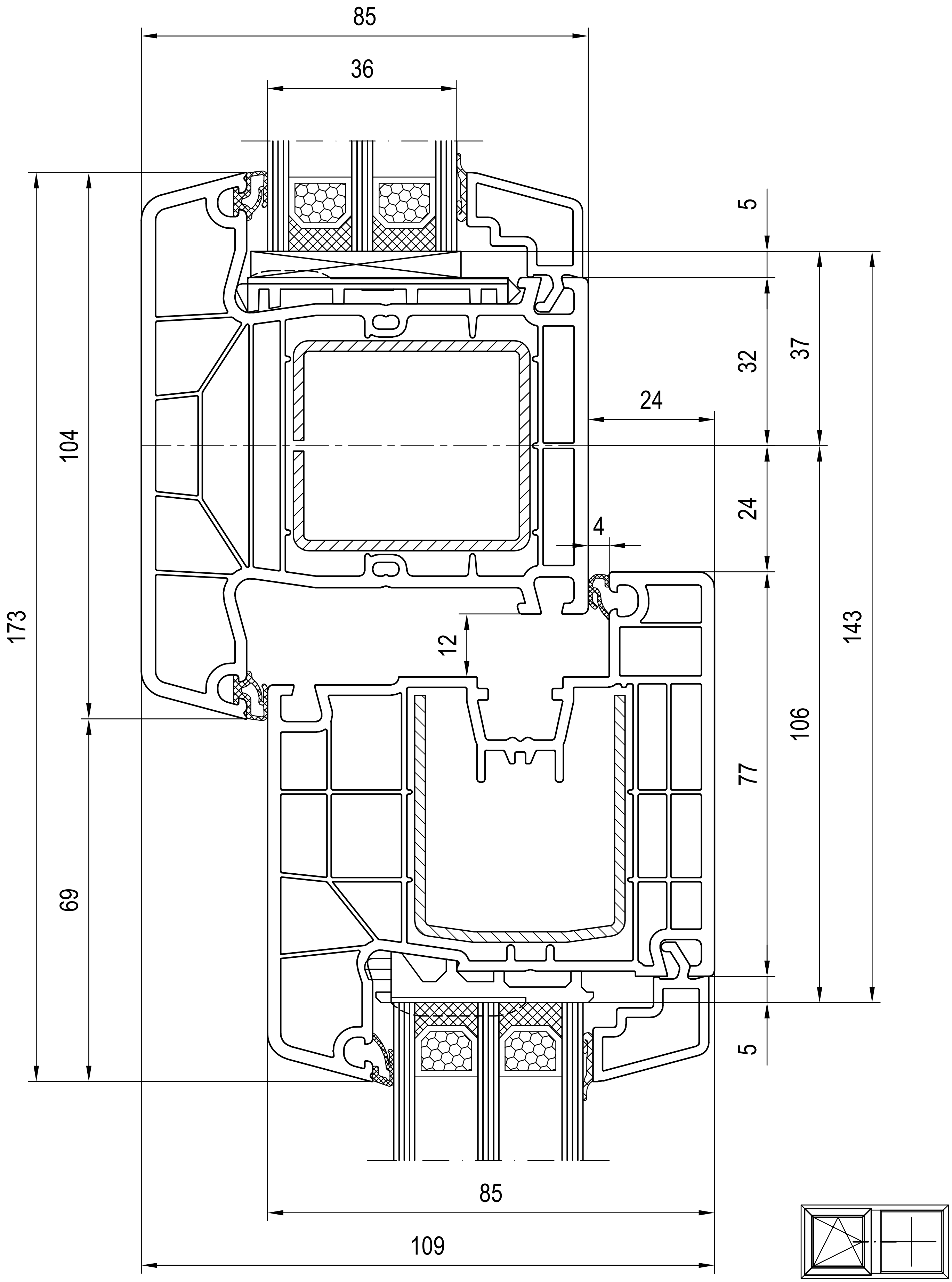
Combinations: sash - mullion - fixed glazing
120636/120666 Glazing bead

Mullion 170x44
Sash 170x20



Scale 1:1
03_H_01_7*
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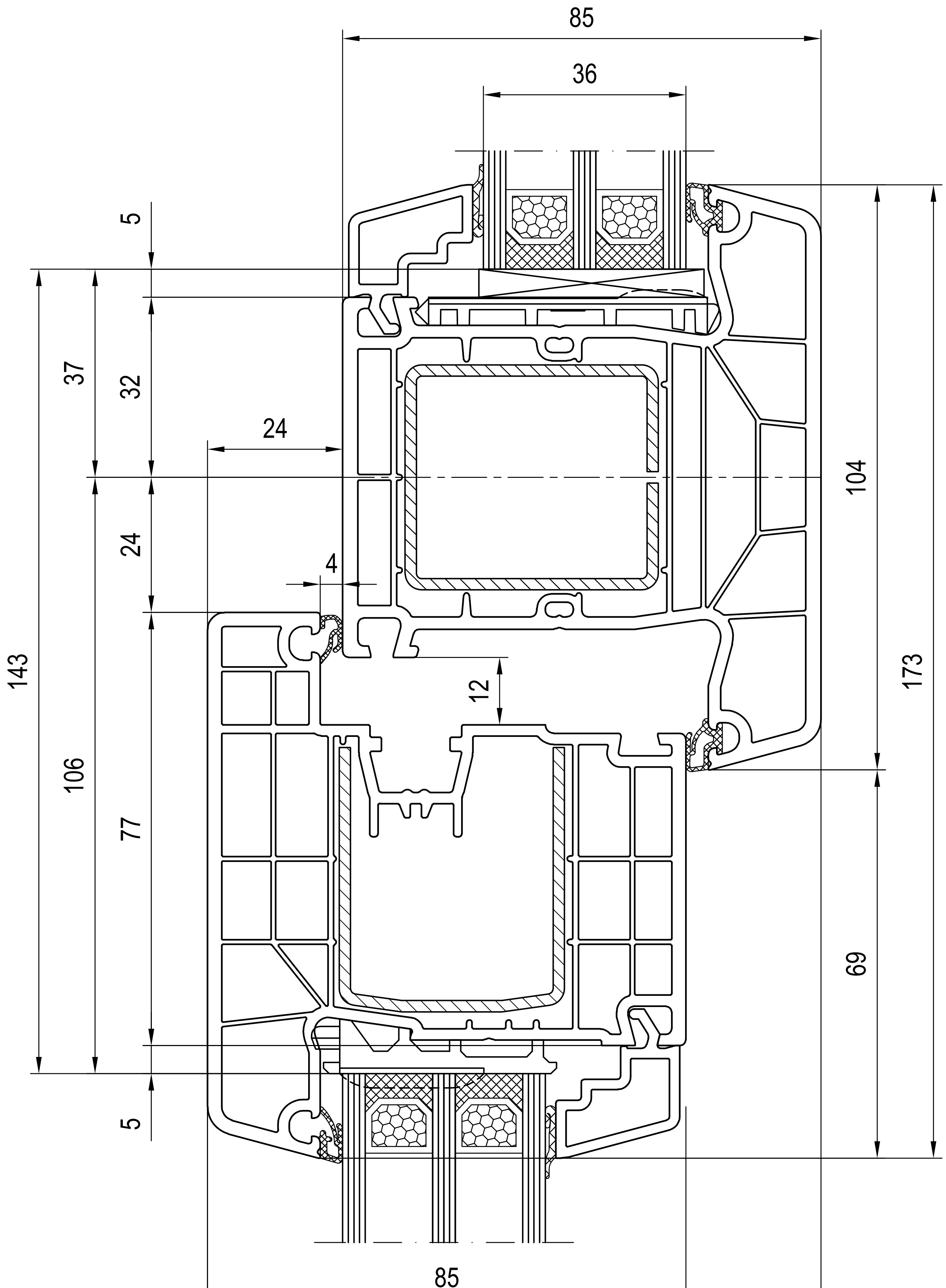
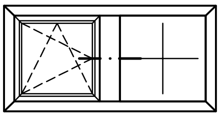
Combinations: sash - mullion - fixed glazing

120636/120666 Glazing bead

Mullion 170x44

Sash 170x30





Scale 1:1
03_H_01_7*
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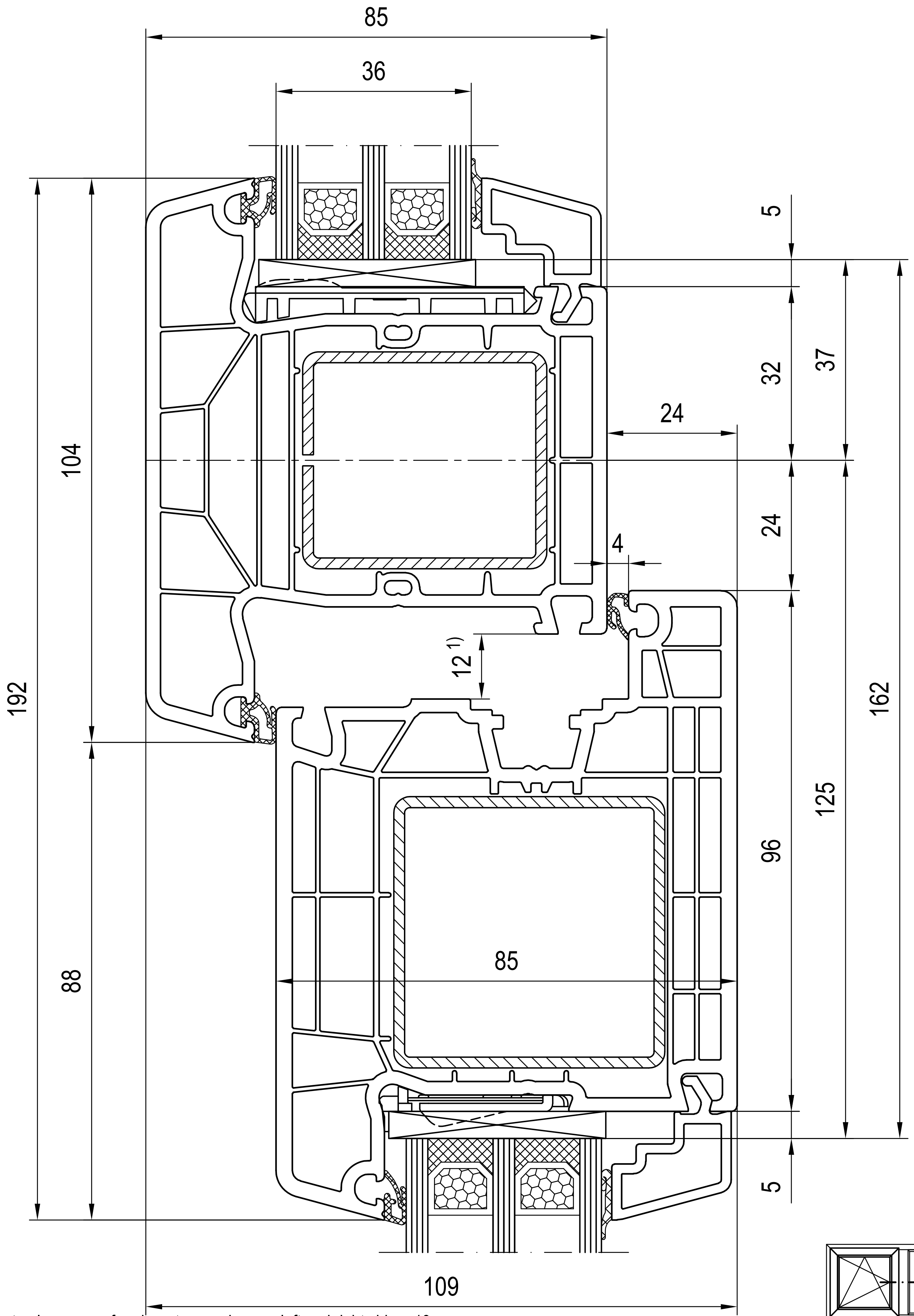
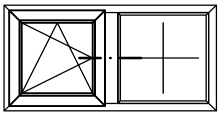
Combinations: sash - mullion - fixed glazing

120636/120666 Glazing bead

Mullion 170x44
Sash 170x31





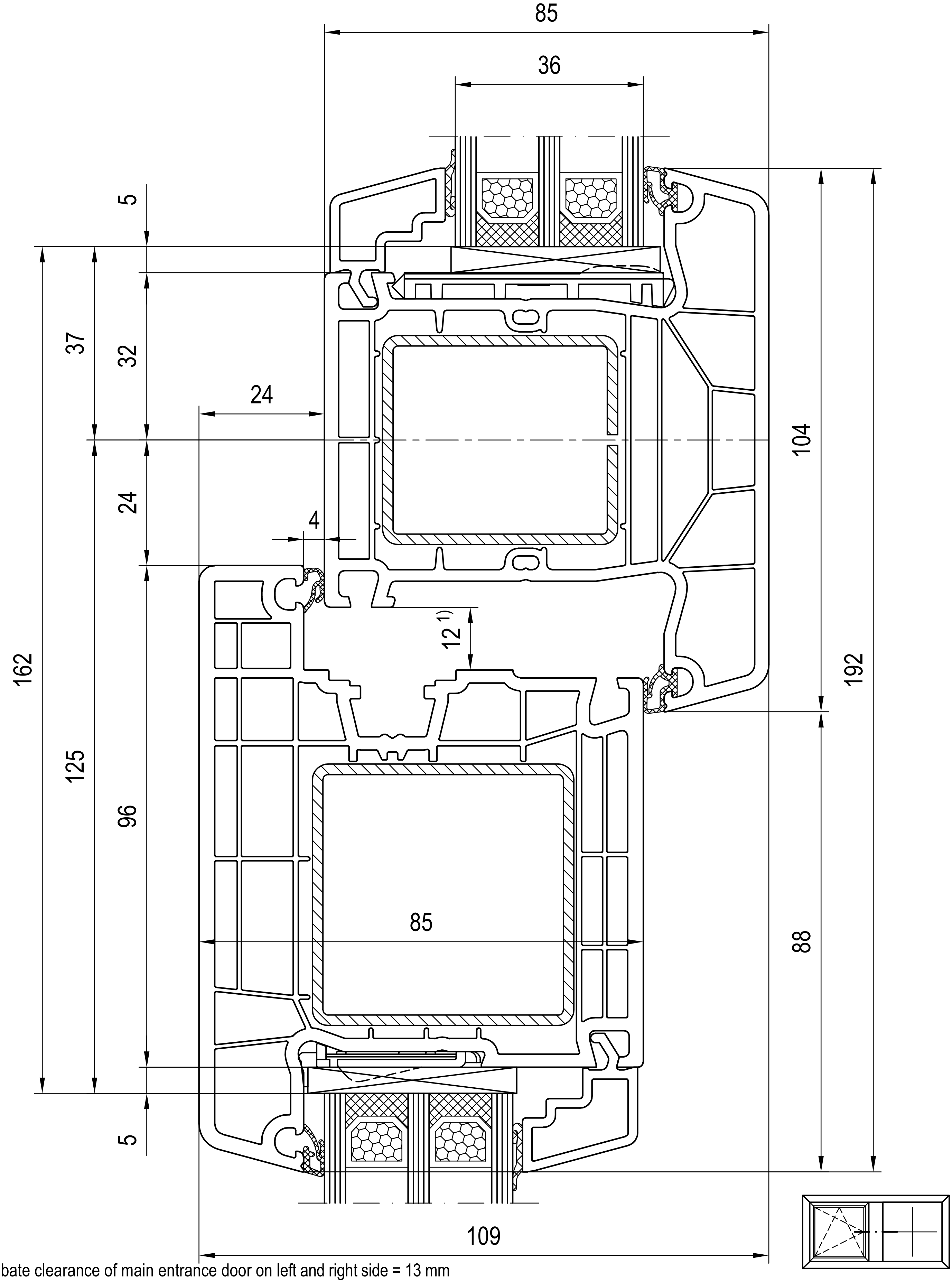
1) Rebate clearance of main entrance door on left and right side = 13 mm

Combinations: sash - mullion - fixed glazing

120636/120666 Glazing bead

Mullion 170x44

Sash 170x33

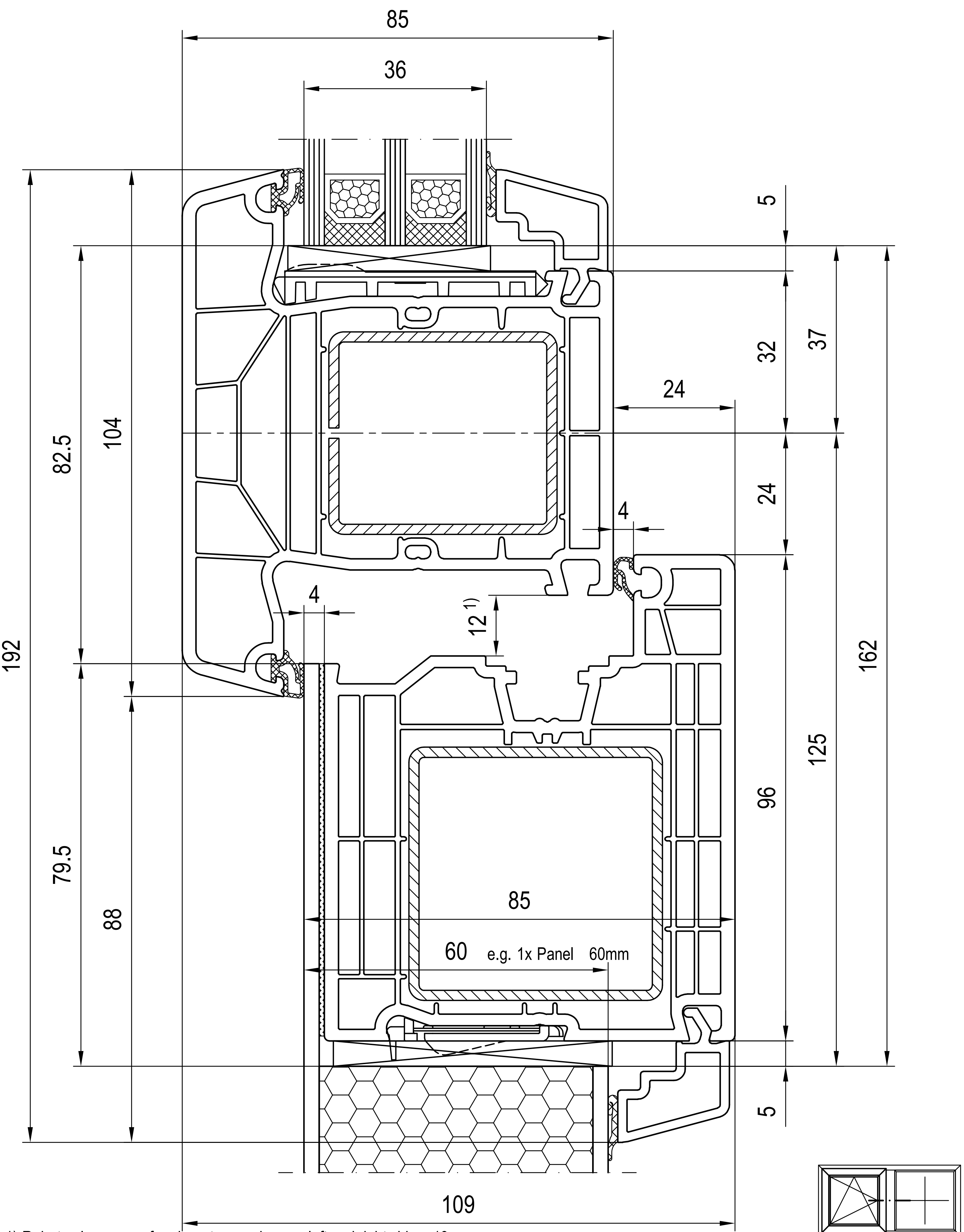


1) Rebate clearance of main entrance door on left and right side = 13 mm

Scale 1:1
03_H_01_7*
en

Combinations: sash - mullion - fixed glazing
120636/120666 Glazing bead

Mullion 170x44
Sash 170x35



1) Rebate clearance of main entrance door on left and right side = 13 mm

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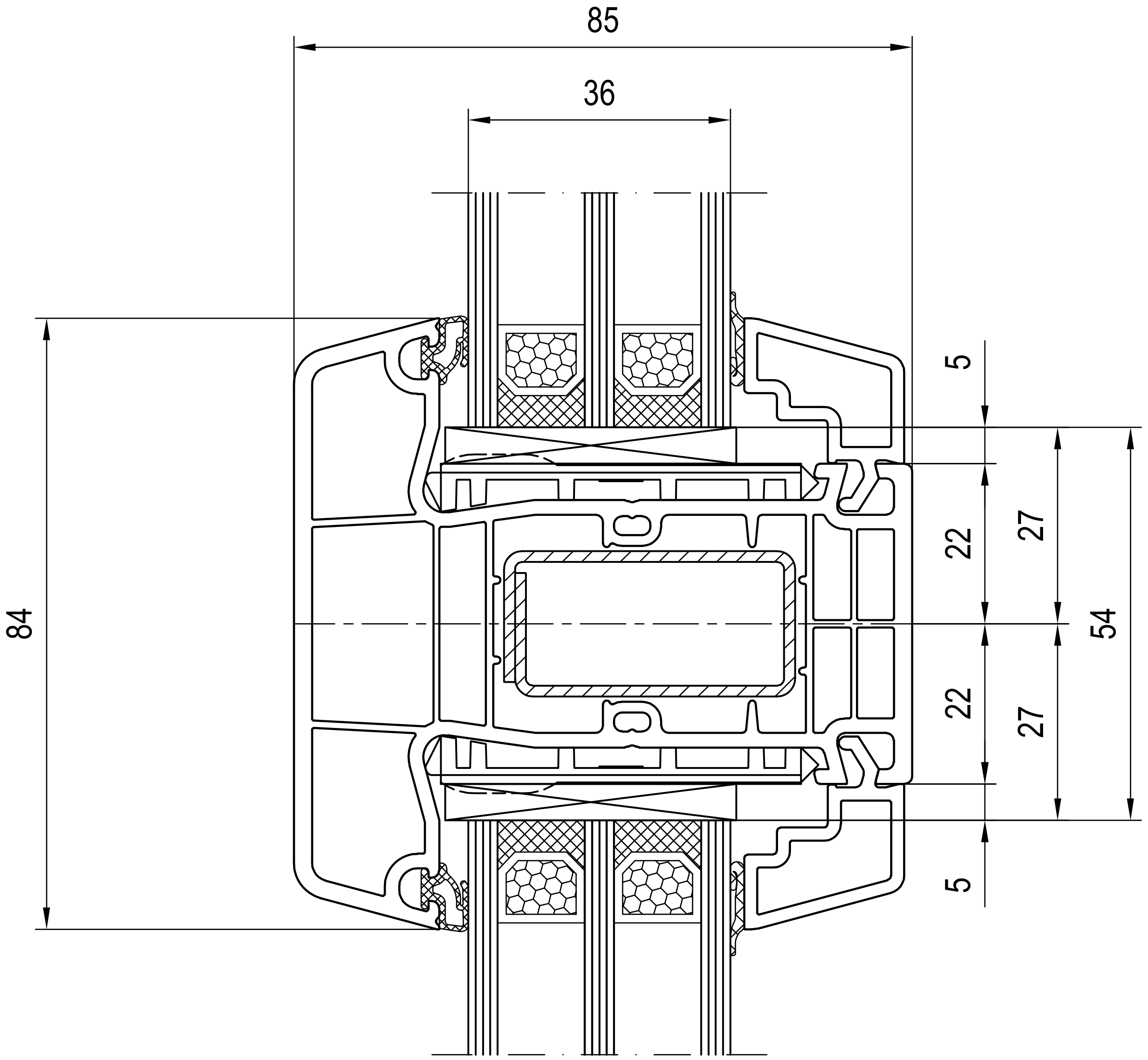
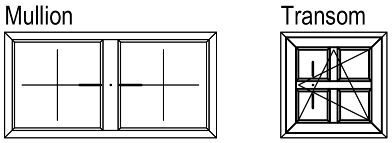
Combinations: sash - mullion - fixed glazing
120636/120666 Glazing bead

Mullion 170x44
Sash 170x39



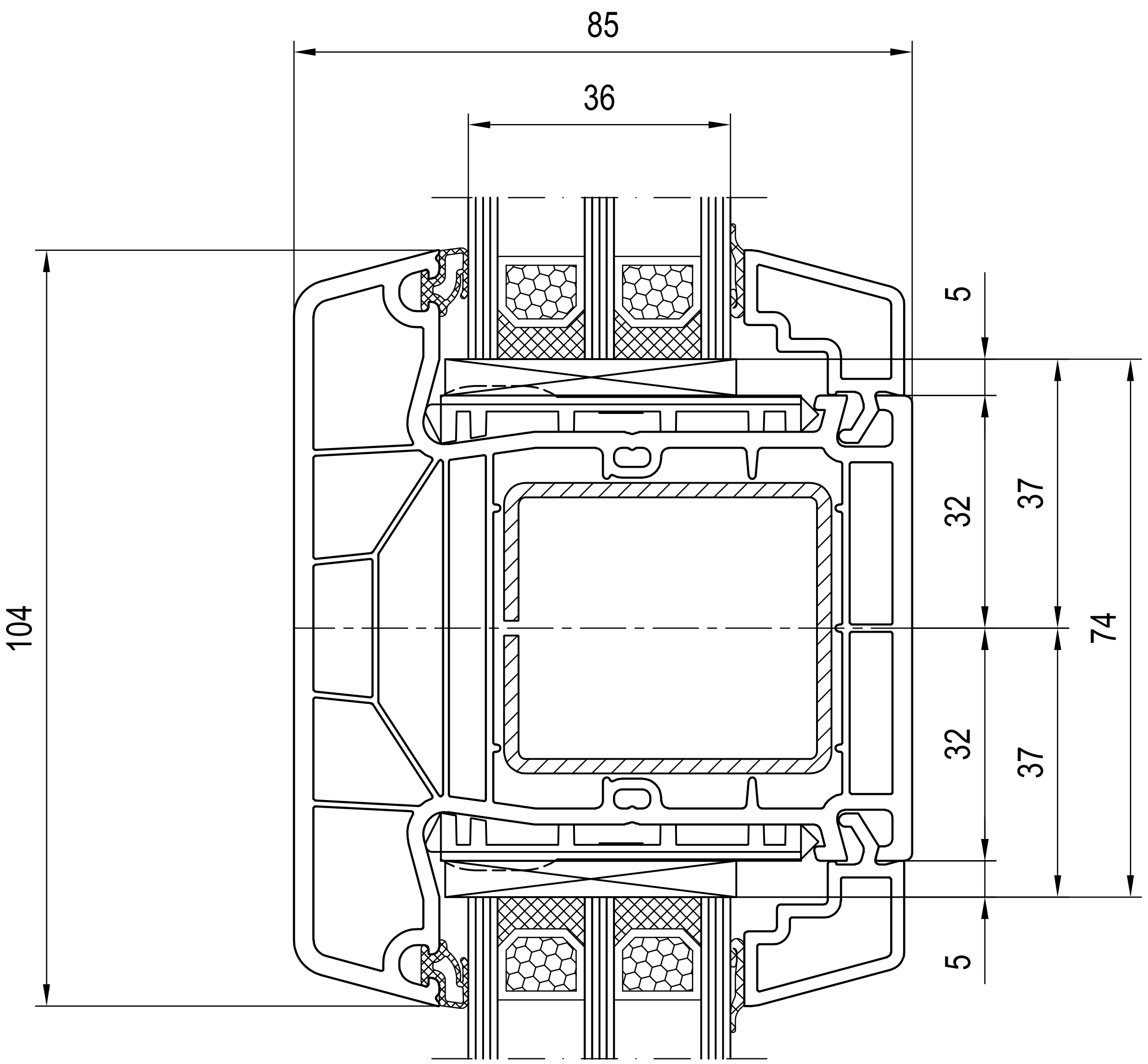


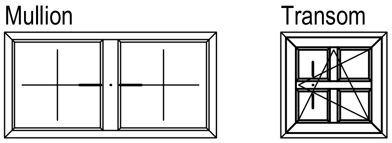
Scale 1:1
03_J_01_7*
en May be subject to change and errors excepted!

Combinations: mullions / transoms, glass-dividing

120636/120666 Glazing bead

Mullion / Transom 170x41



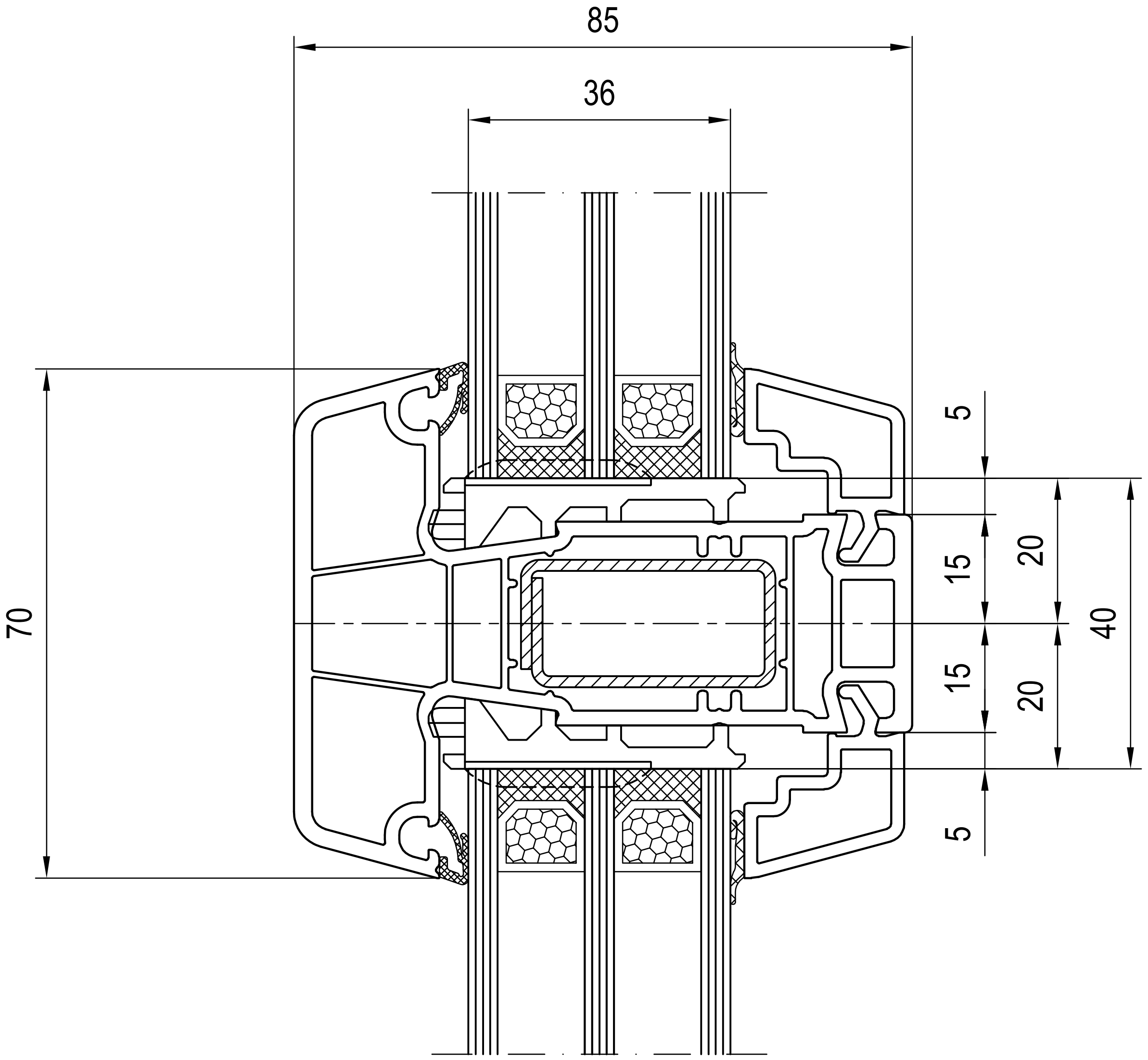


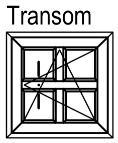
Scale 1:1
03_J_01_7*
en

Combinations: mullions / transoms, glass-dividing

120636/120666 Glazing bead

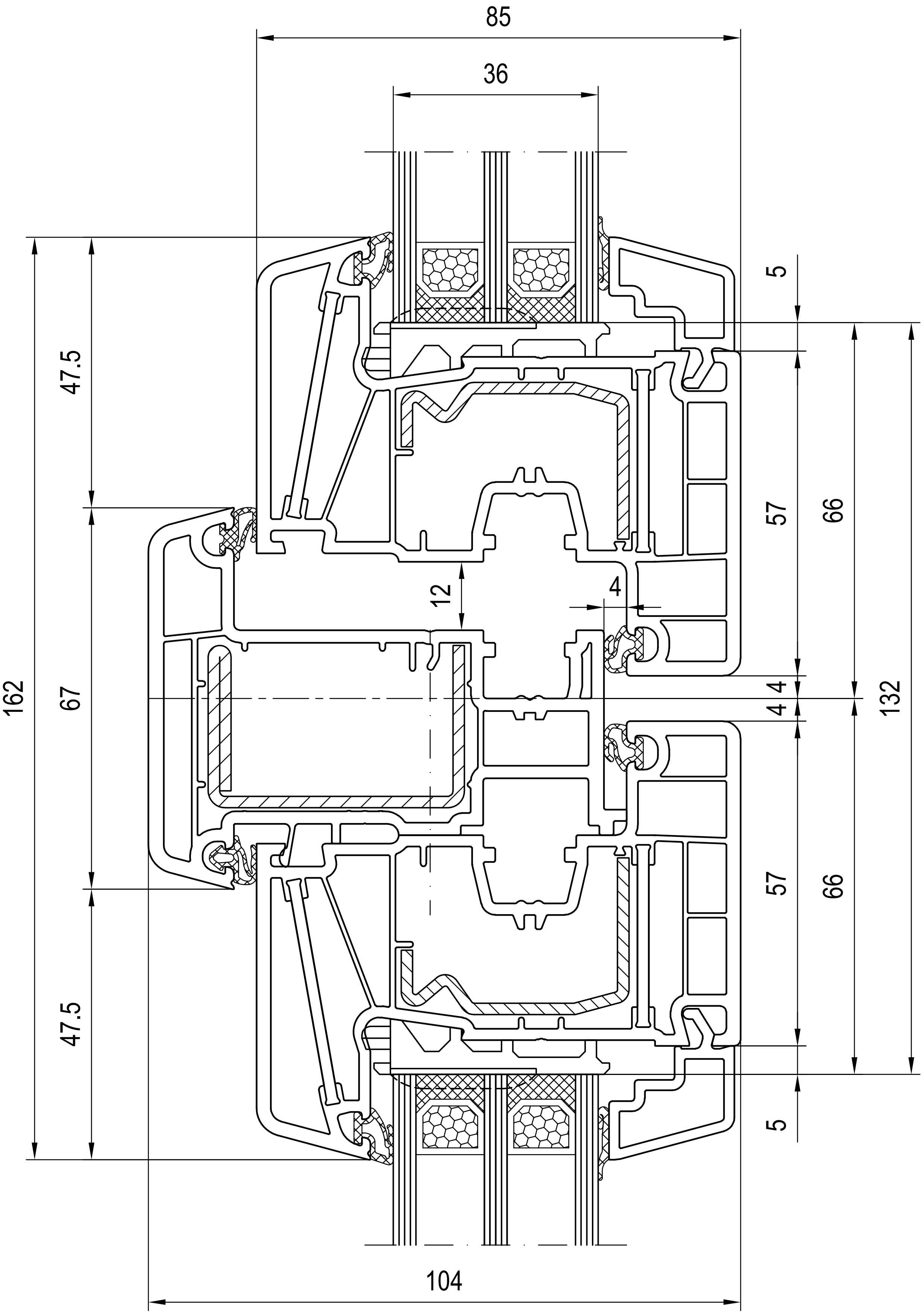
Mullion / Transom 170x44

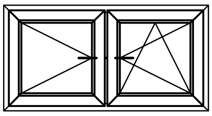




Combinations: mullions / transoms, glass-dividing -

120636/120666 Glazing bead Transom 180x46





Scale 1:1

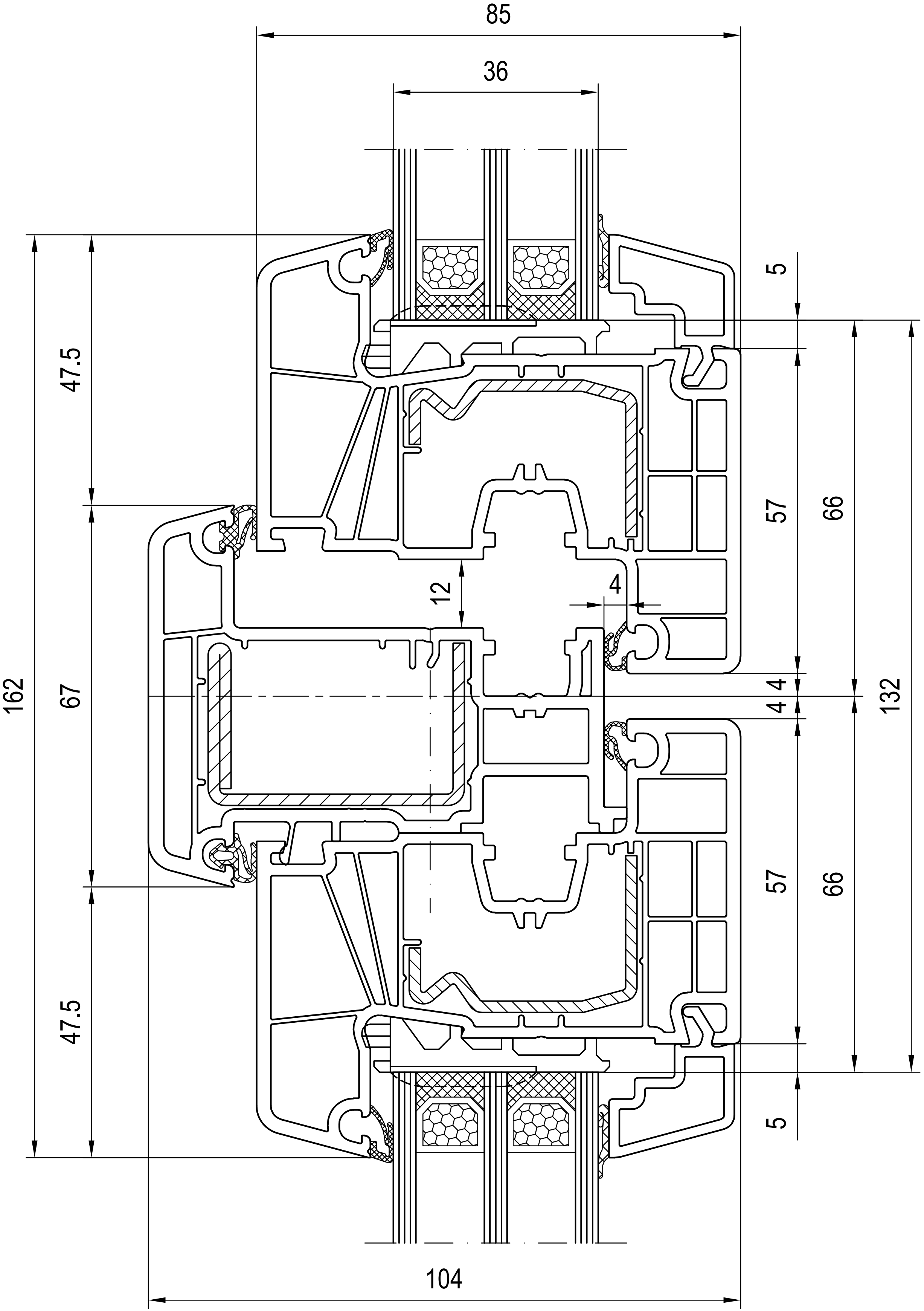
03_L_01_7*

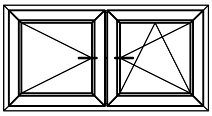
en May be subject to change and errors excepted!

Combinations: sash - false mullion - sash

120636/120666 Glazing bead

False mullion 170x64
Sash 070x20





Scale 1:1

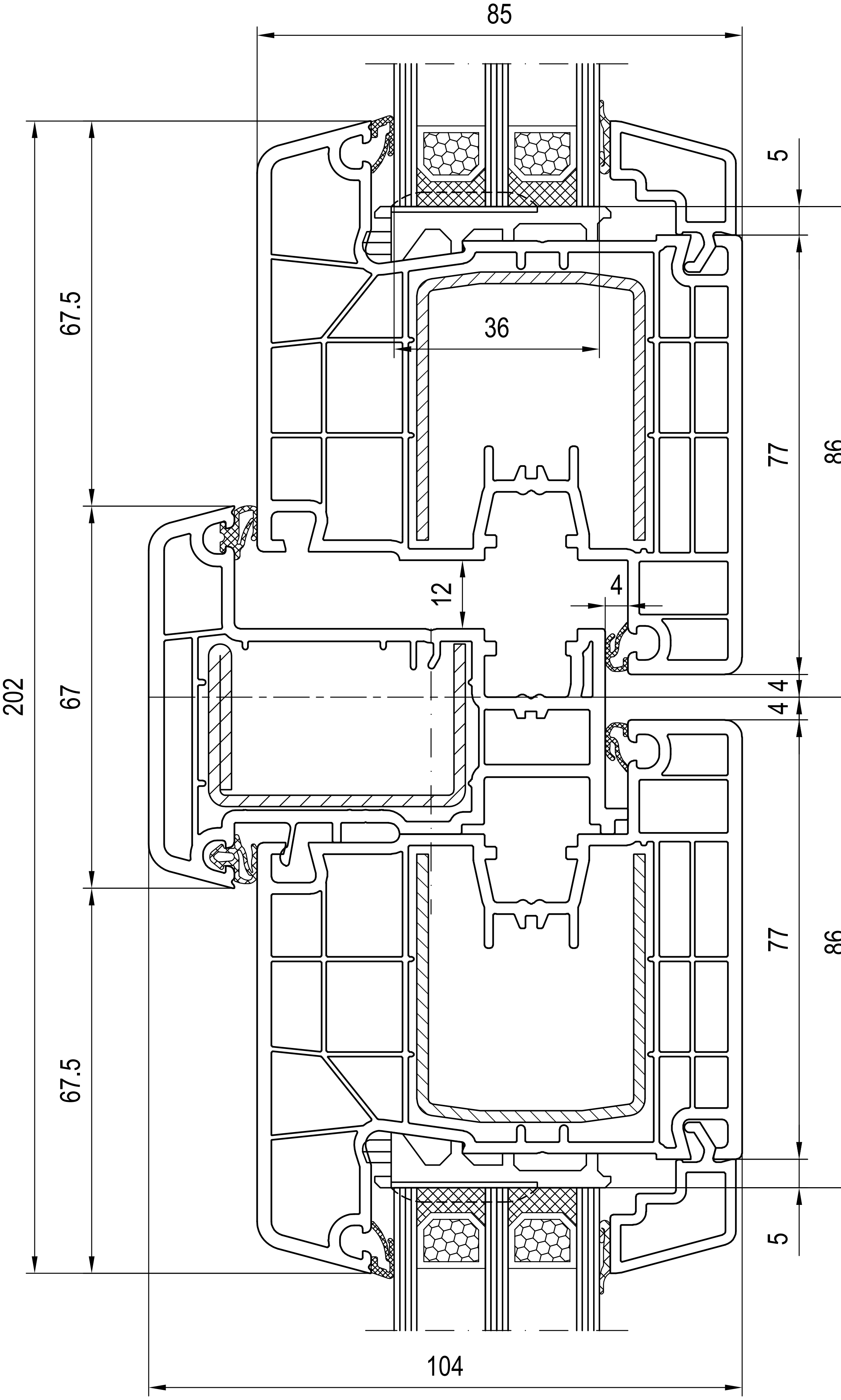
03_L_01_7*

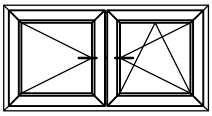
en

Combinations: sash - false mullion - sash

120636/120666 Glazing bead

False mullion 170x64
Sash 170x20



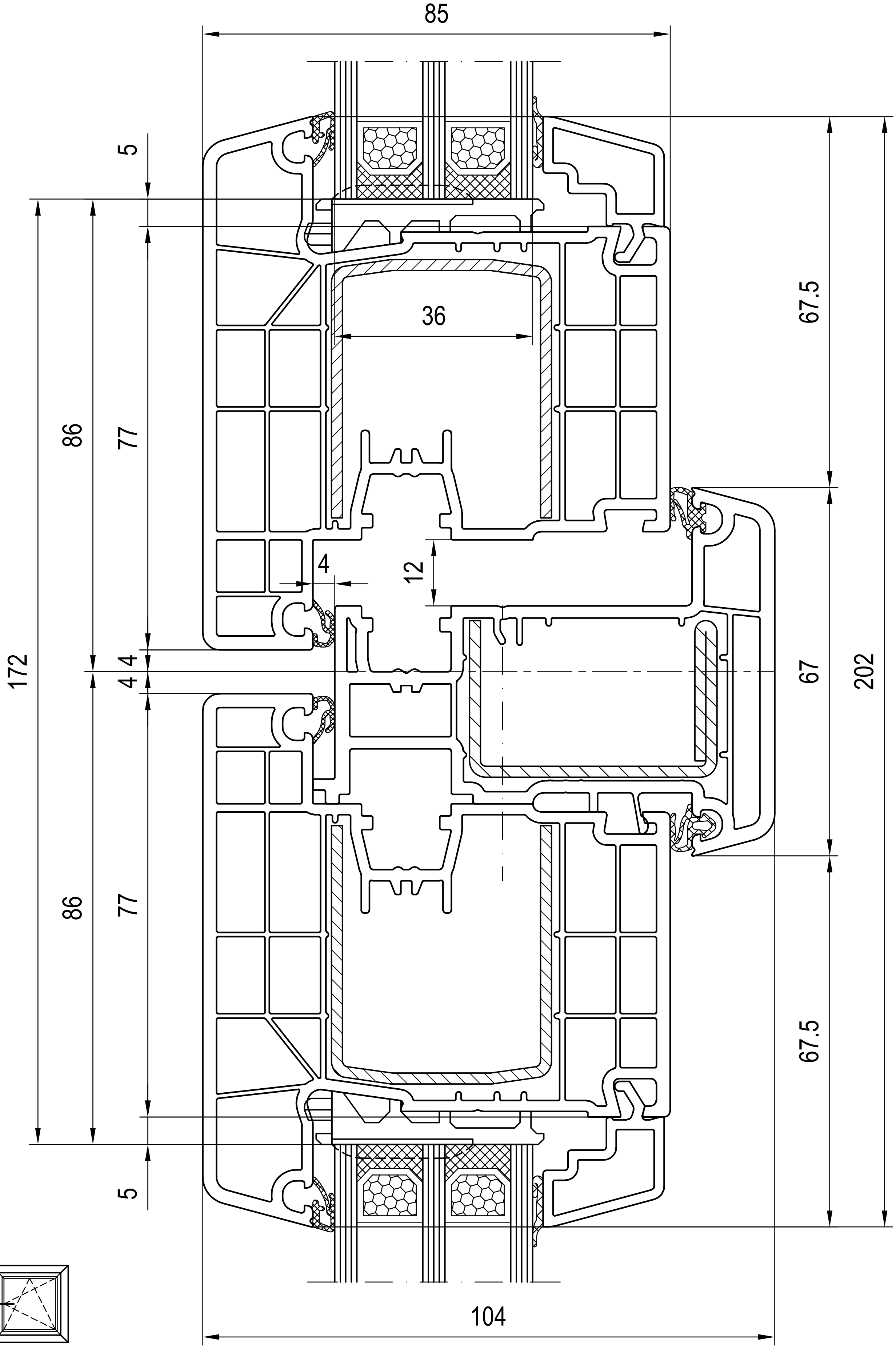


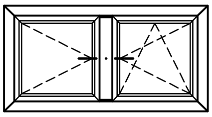
Scale 1:1
03_L_01_7*
en May be subject to change and errors excepted!

Combinations: sash - false mullion - sash

120636/120666 Glazing bead

False mullion 170x64
Sash 170x30





Scale 1:1

03_L_01_7*

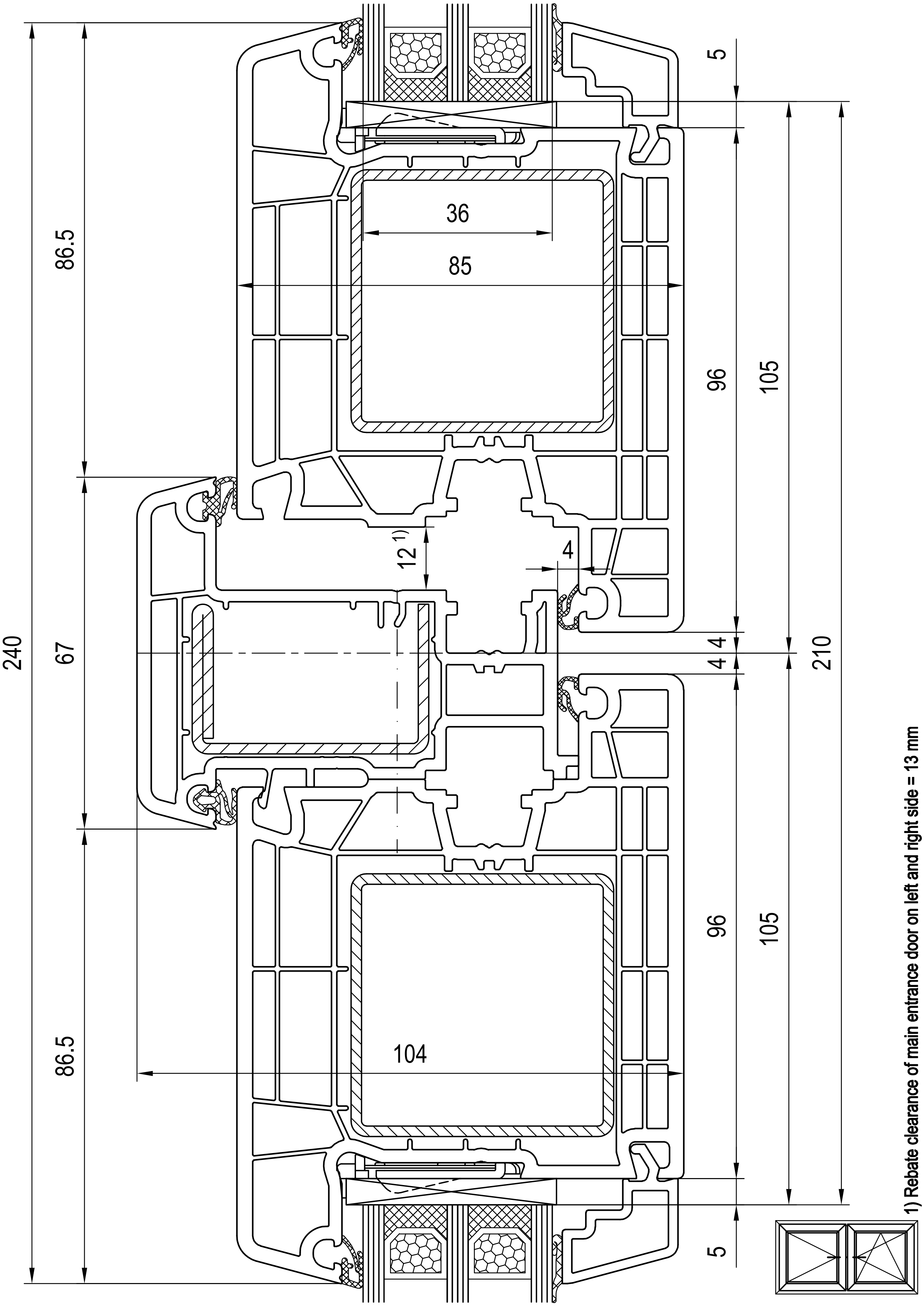
en

Combinations: sash - false mullion - sash

120636/120666 Glazing bead

False mullion 170x64

Sash 170x31



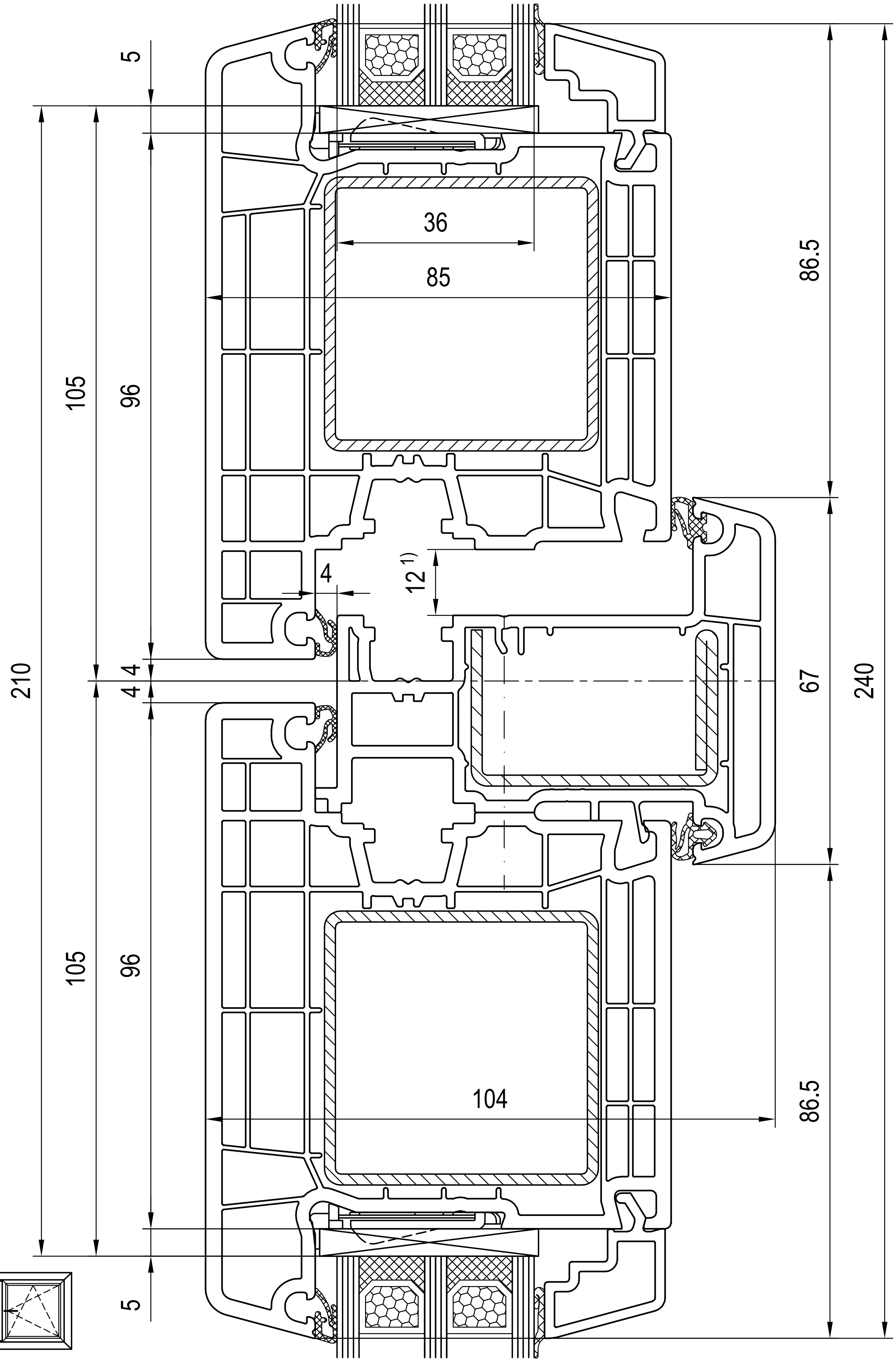
1) Rebate clearance of main entrance door on left and right side = 13 mm

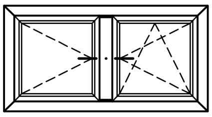
Combinations: sash - false mullion - sash

120636/120666 Glazing bead

False mullion 170x64

Sash 170x33



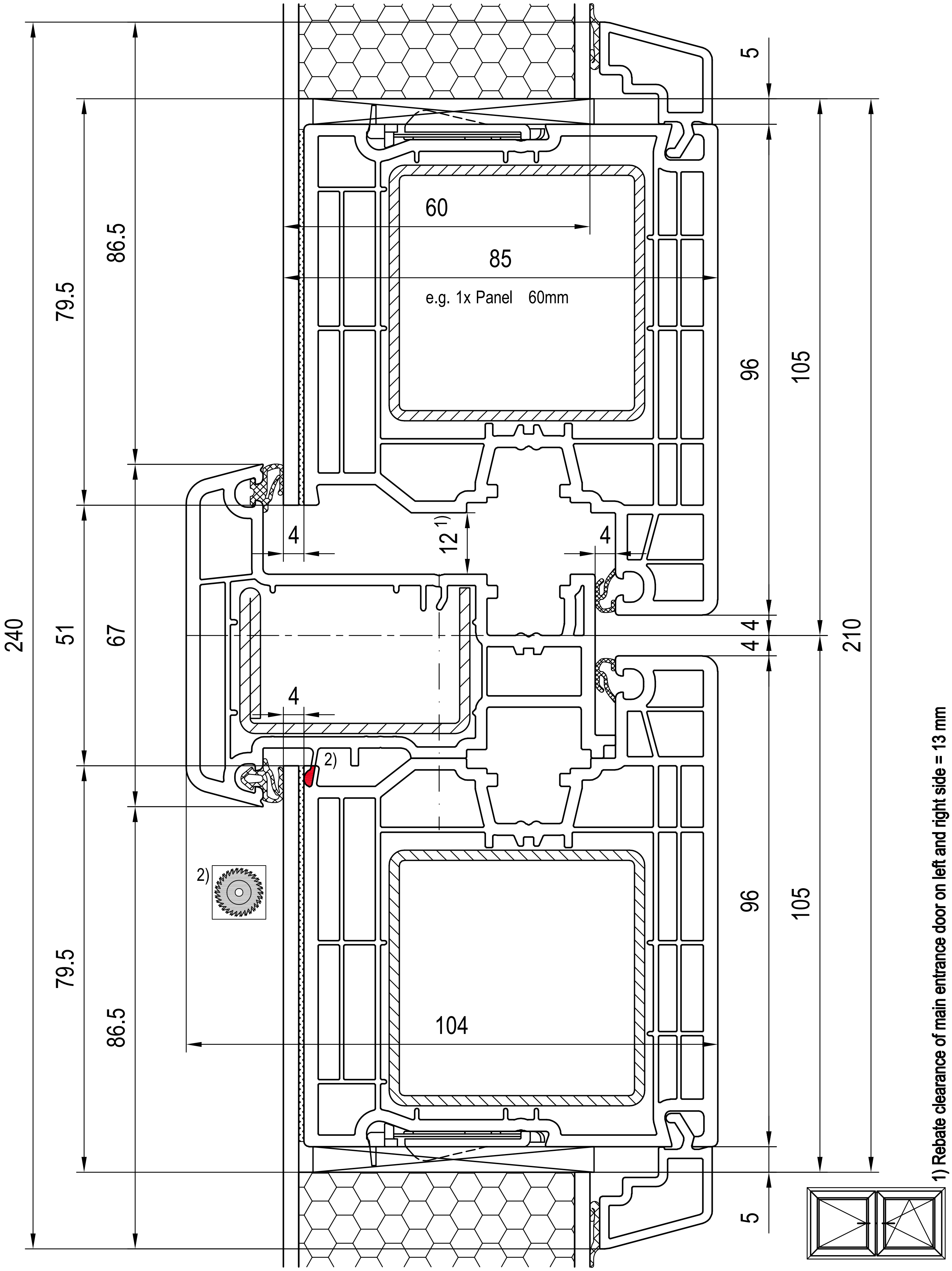


[1] Rebate clearance of main entrance door on left and right side = 13 mm

Combinations: sash - false mullion - sash

120636/120666 Glazing bead

False mullion 170x64
Sash 170x35



1) Rebate clearance of main entrance door on left and right side = 13 mm

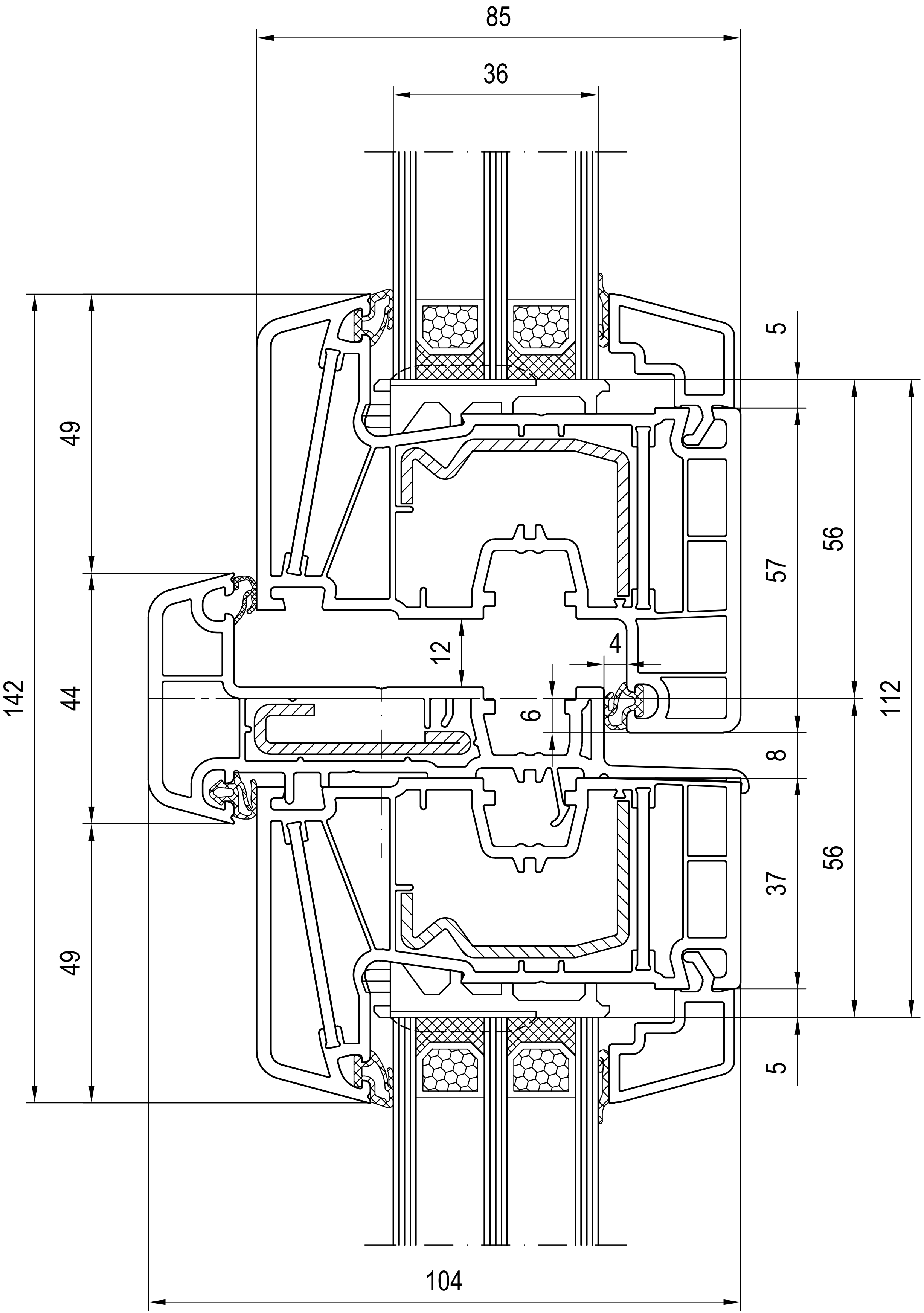
Scale 1:1
03_L_01_7*
en May be subject to change and errors excepted!

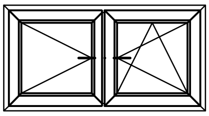
Combinations: sash - false mullion - sash

120636/120666 Glazing bead

False mullion 170x64

Sash 170x39

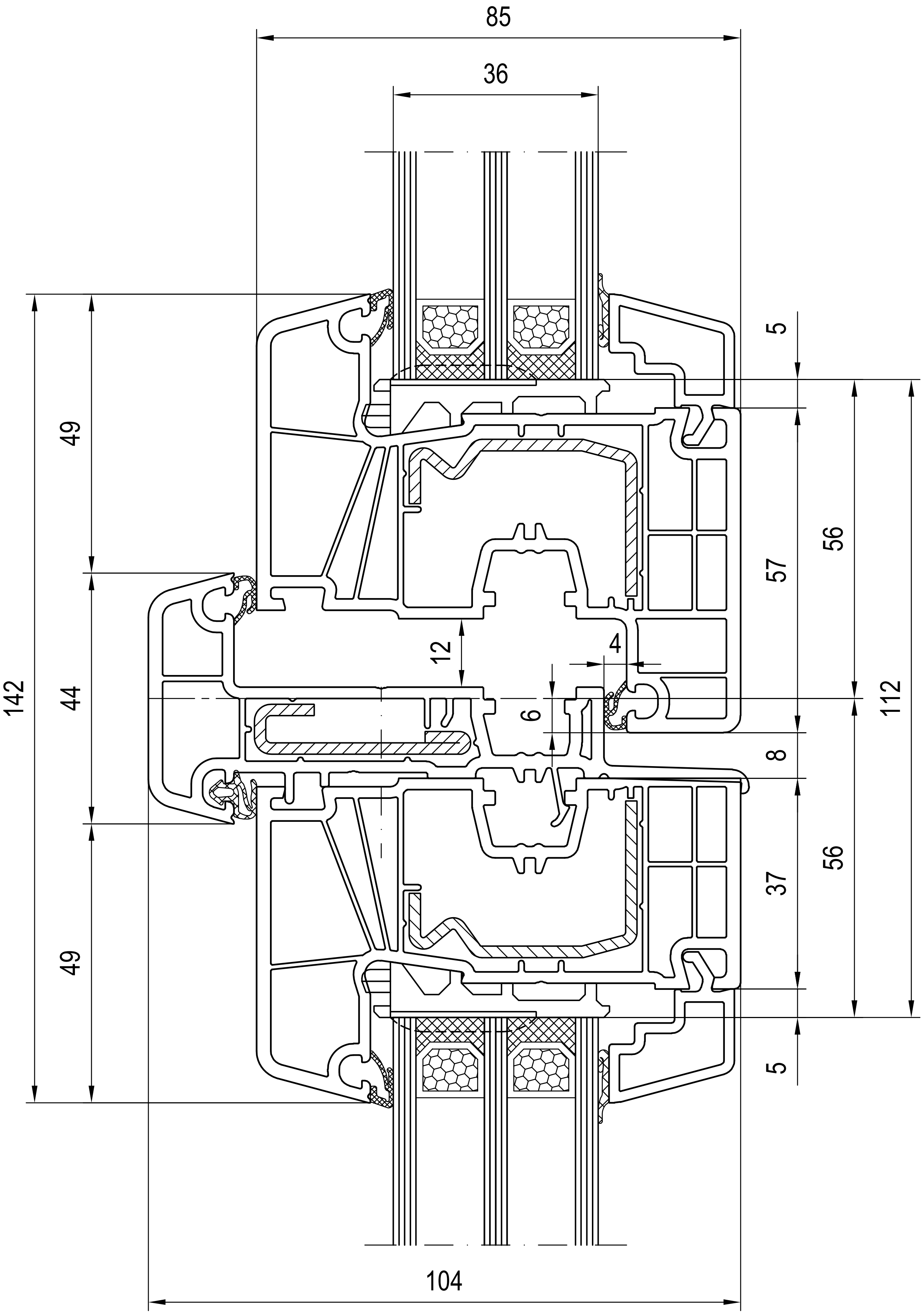


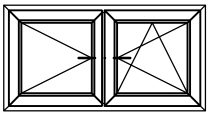


Scale 1:1
03_L_01_7*
en May be subject to change and errors excepted!

Combinations: sash - false mullion - sash
120636/120666 Glazing bead

False mullion 170x65
Sash 070x20



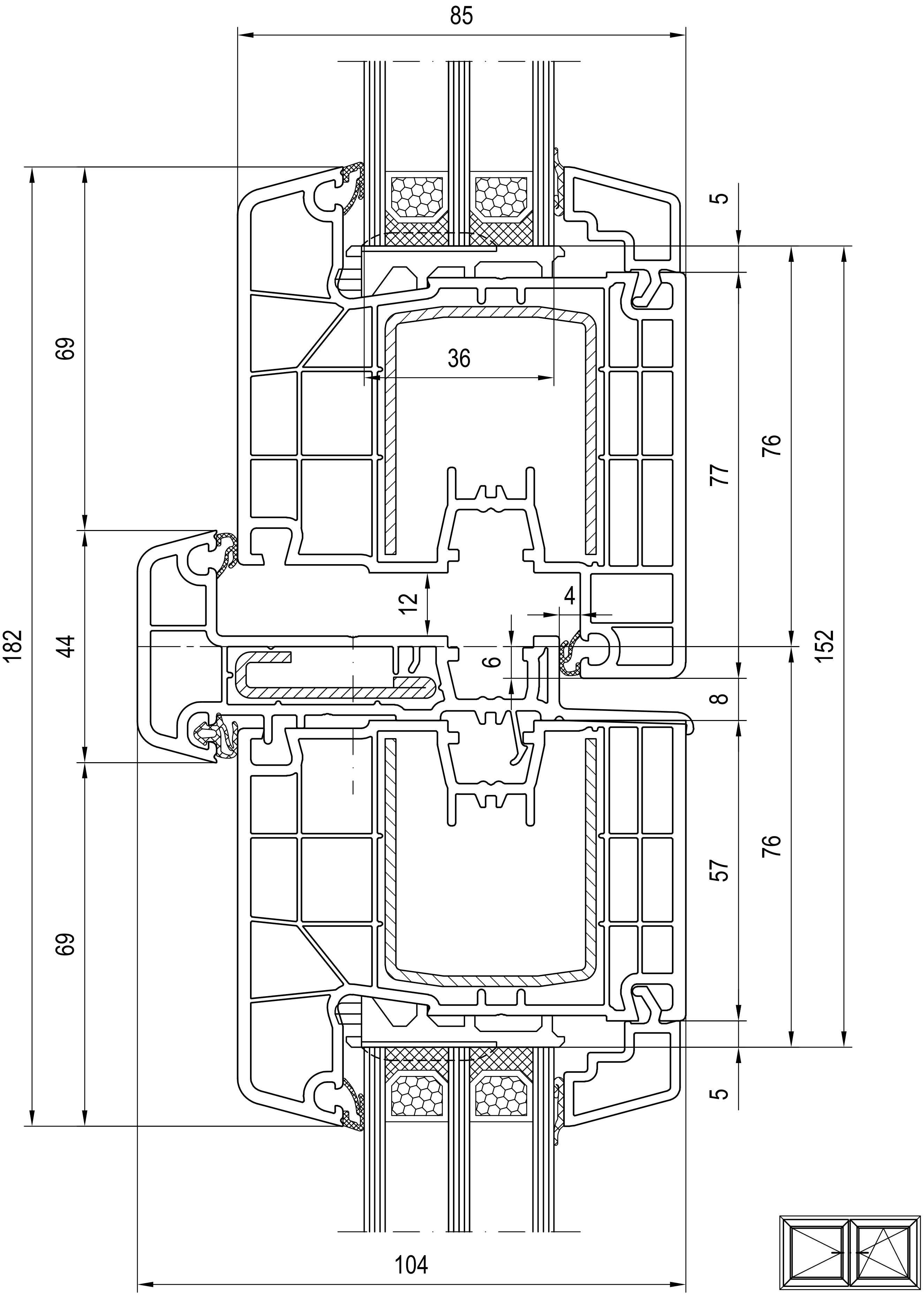


Scale 1:1
03_L_01_7*
en May be subject to change and errors excepted!

Combinations: sash - false mullion - sash

120636/120666 Glazing bead

False mullion 170x65
Sash 170x20

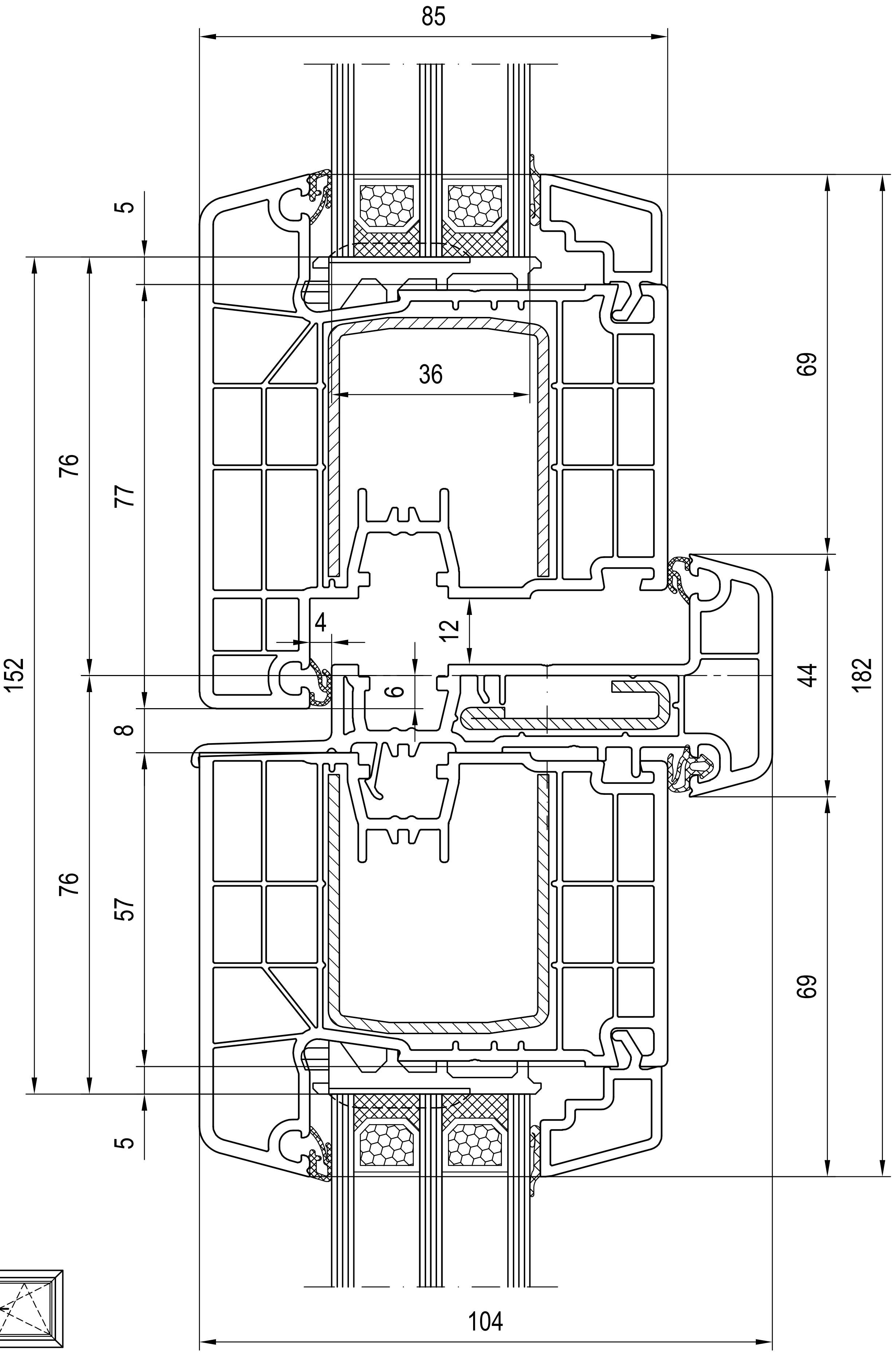


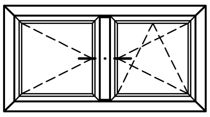
Combinations: sash - false mullion - sash

120636/120666 Glazing bead

False mullion 170x65

Sash 170x30



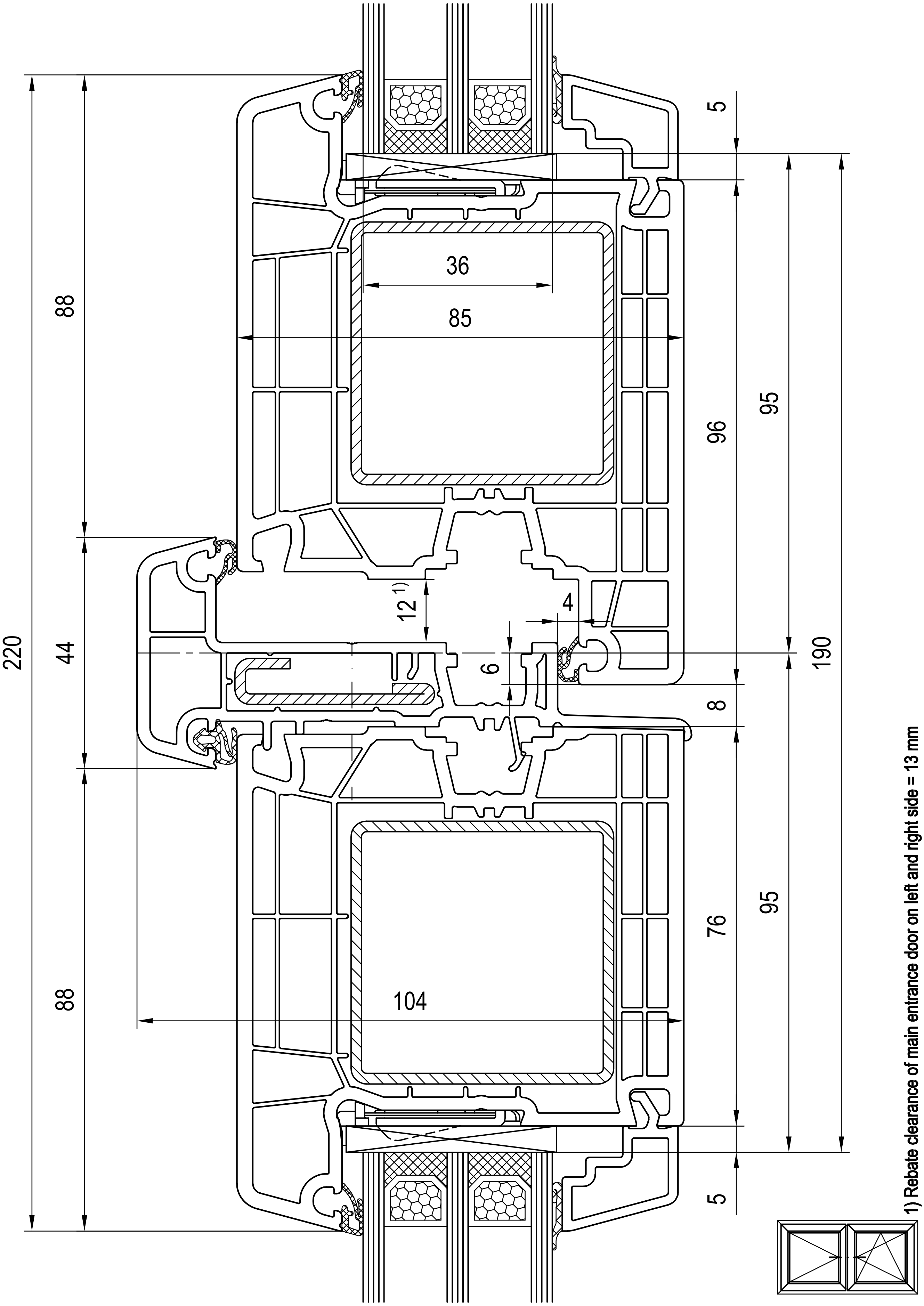


Scale 1:1
03_L_01_7*
en May be subject to change and errors excepted!

Combinations: sash - false mullion - sash

120636/120666 Glazing bead

False mullion 170x65
Sash 170x31

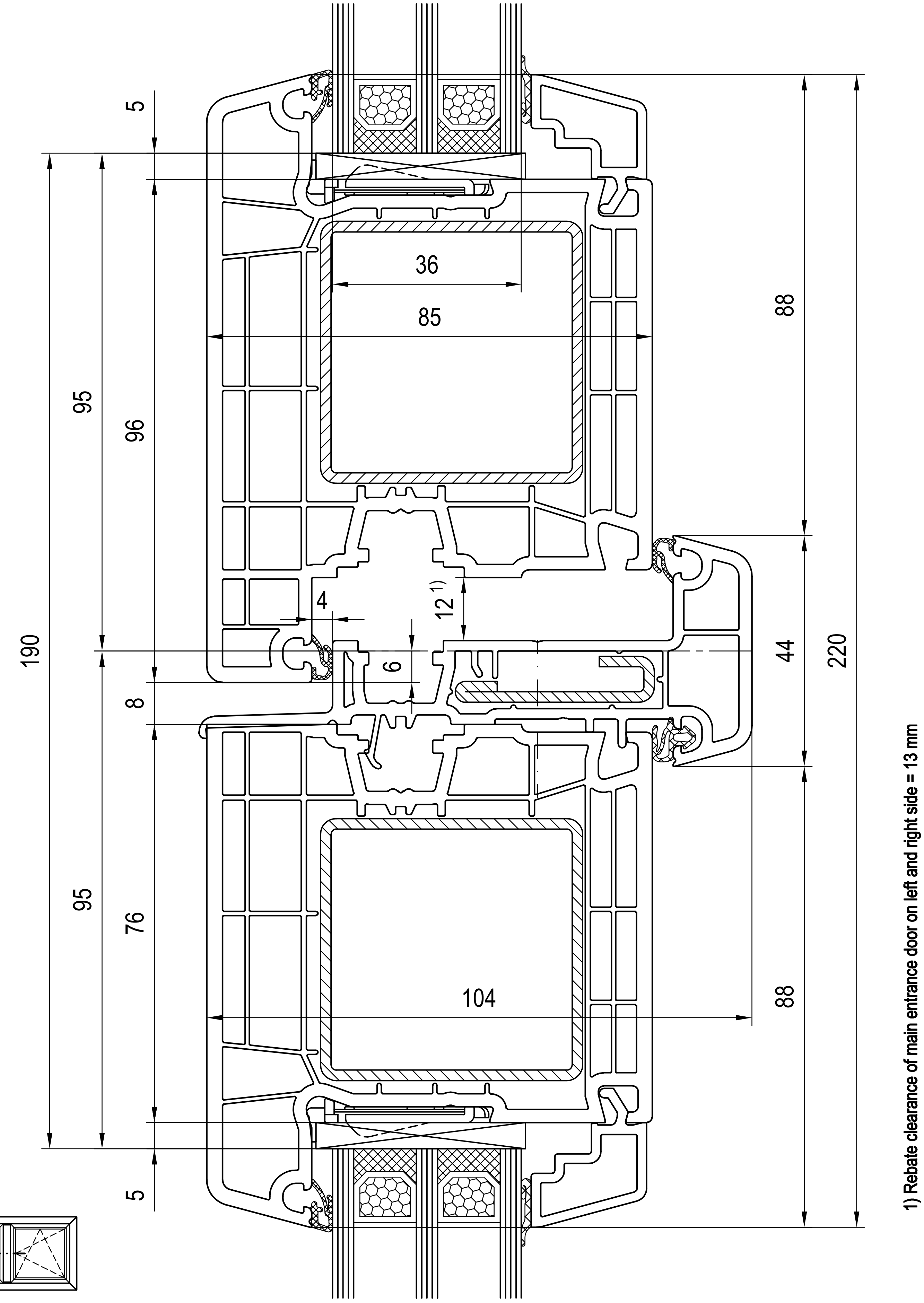


1) Rebate clearance of main entrance door on left and right side = 13 mm

Scale 1:1
03_L_01_7*
en

Combinations: sash - false mullion - sash
120636/120666 Glazing bead

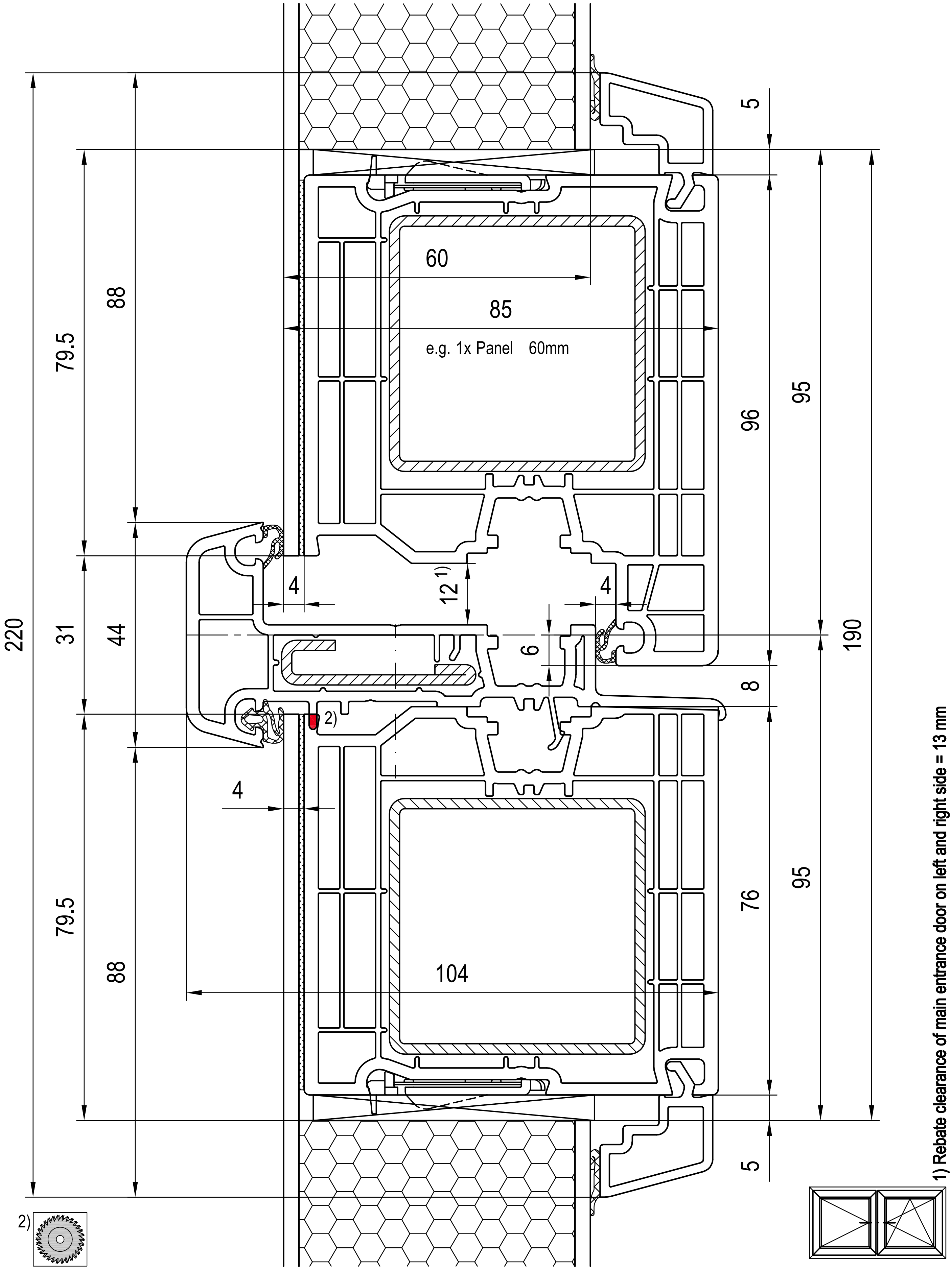
False mullion 170x65
Sash 170x33



1) Rebate clearance of main entrance door on left and right side = 13 mm

Combinations: sash - false mullion - sash
120636/120666 Glazing bead

False mullion 170x65
Sash 170x35



1) Rebate clearance of main entrance door on left and right side = 13 mm

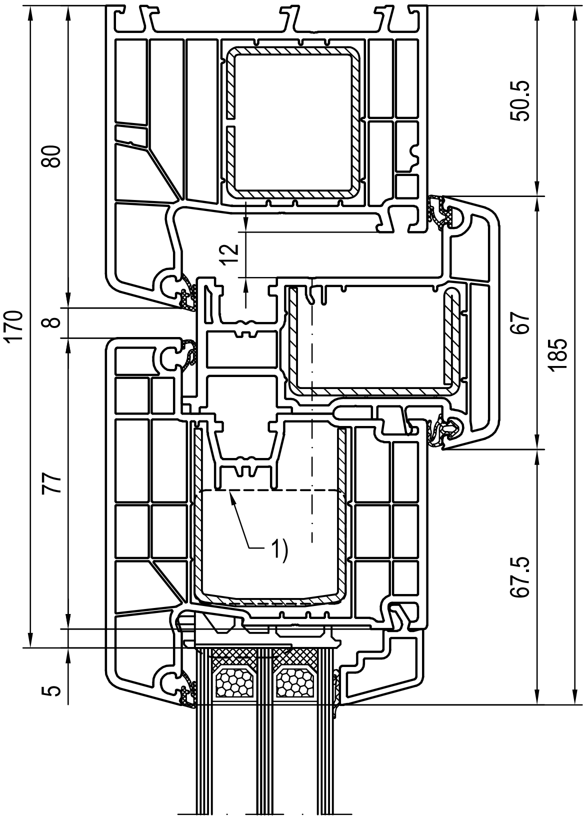
Combinations: sash - false mullion - sash

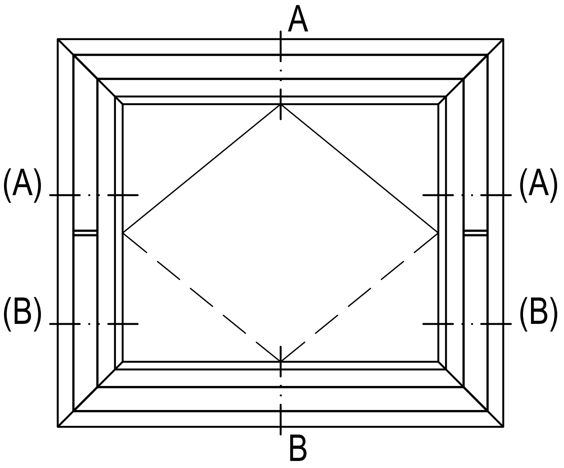
120636/120666 Glazing bead

False mullion 170x65

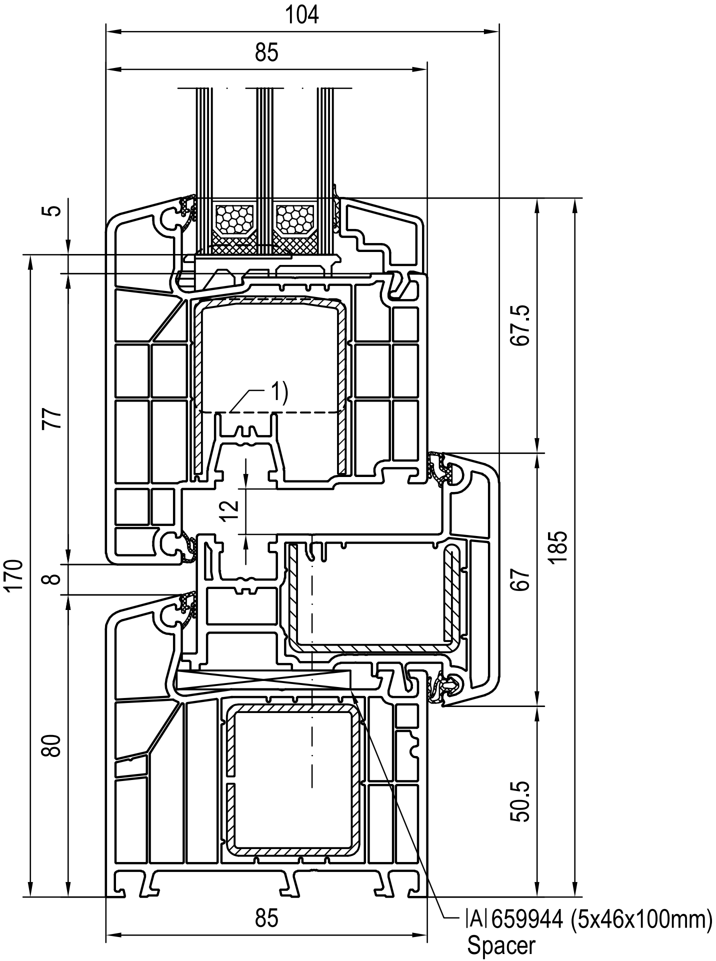
Sash 170x39

Section A





Section B



NOTE:

The feasibility of a pivoting window depends on the fittings!

IDEAL 7000:
Any frame can be used analogously!

Example with:

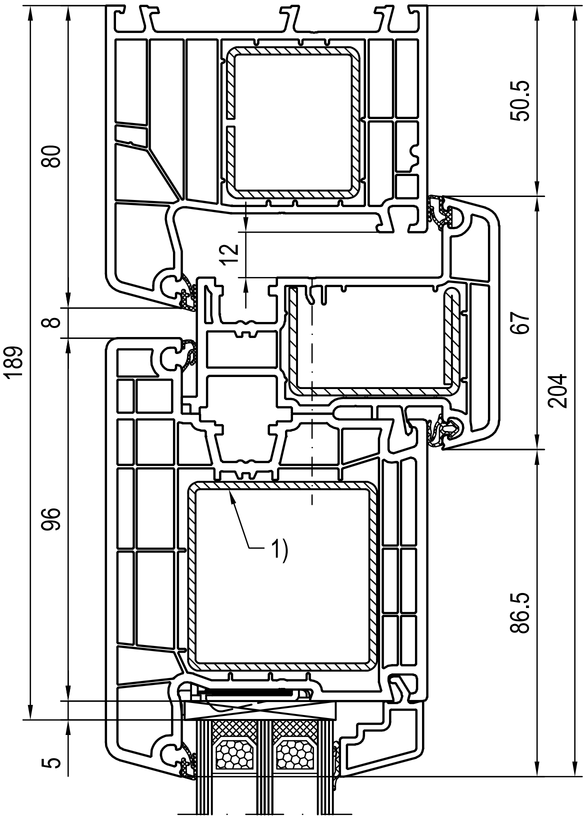
1) |F| laterally ->cross section (A) and (B): square steel
~ 40x30mm

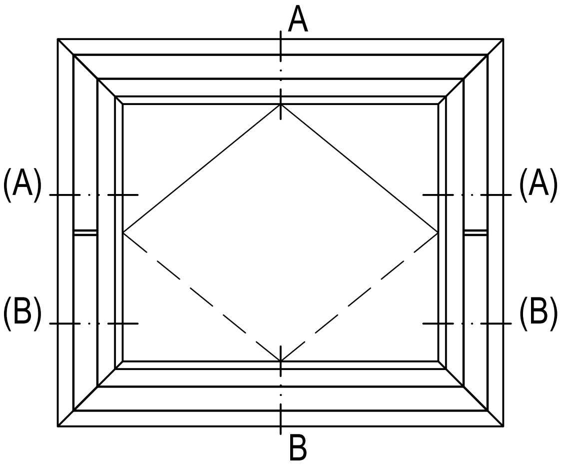
Scale 1:2
03_Y_01_7*
en

Combinations: Pivot windows
120636/120666 Glazing bead

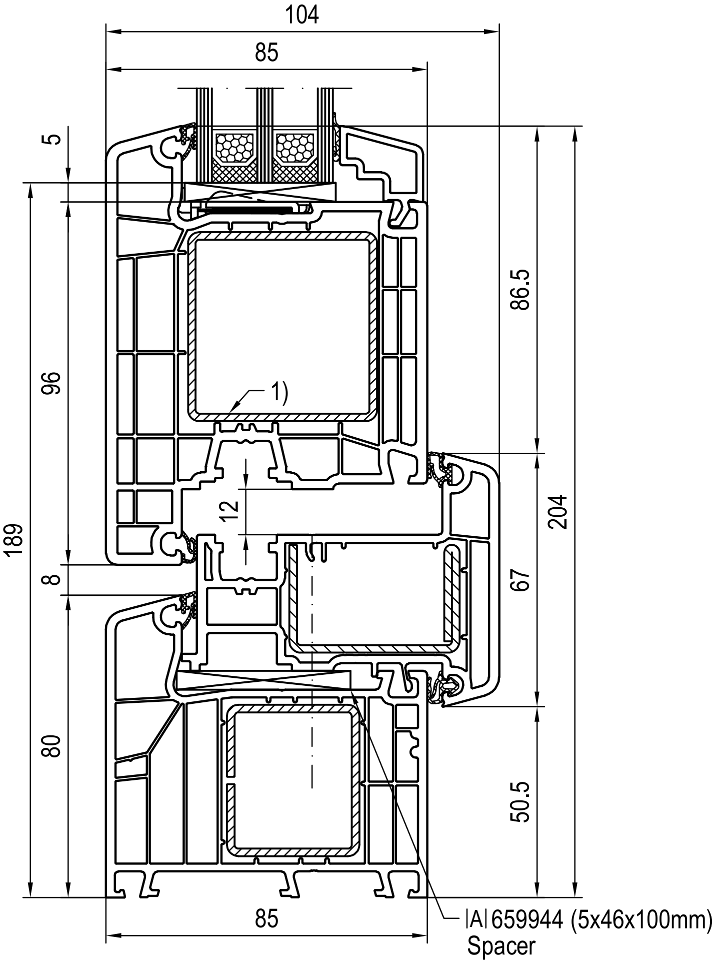
Frame 170x03
False mullion 170x64
Sash 170x31

Section A





Section B



|A| 659944 (5x46x100mm)
Spacer

1) |F| at top, bottom ->cross section A and B: countersink square steel or U steel
~ 50x53mm

NOTE:

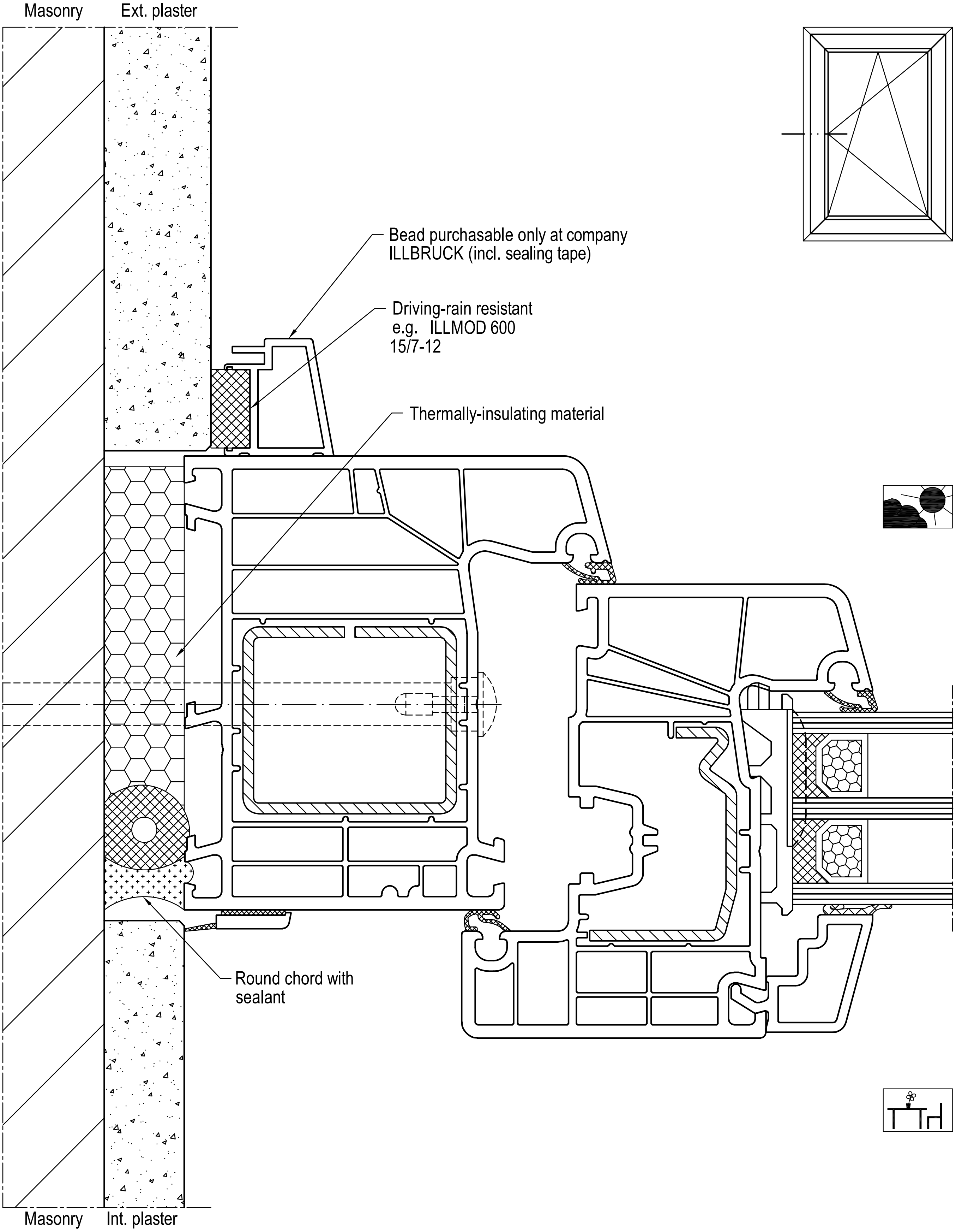
The feasibility of a pivoting window depends on the fittings!

IDEAL 7000:
Any frame can be used analogously!

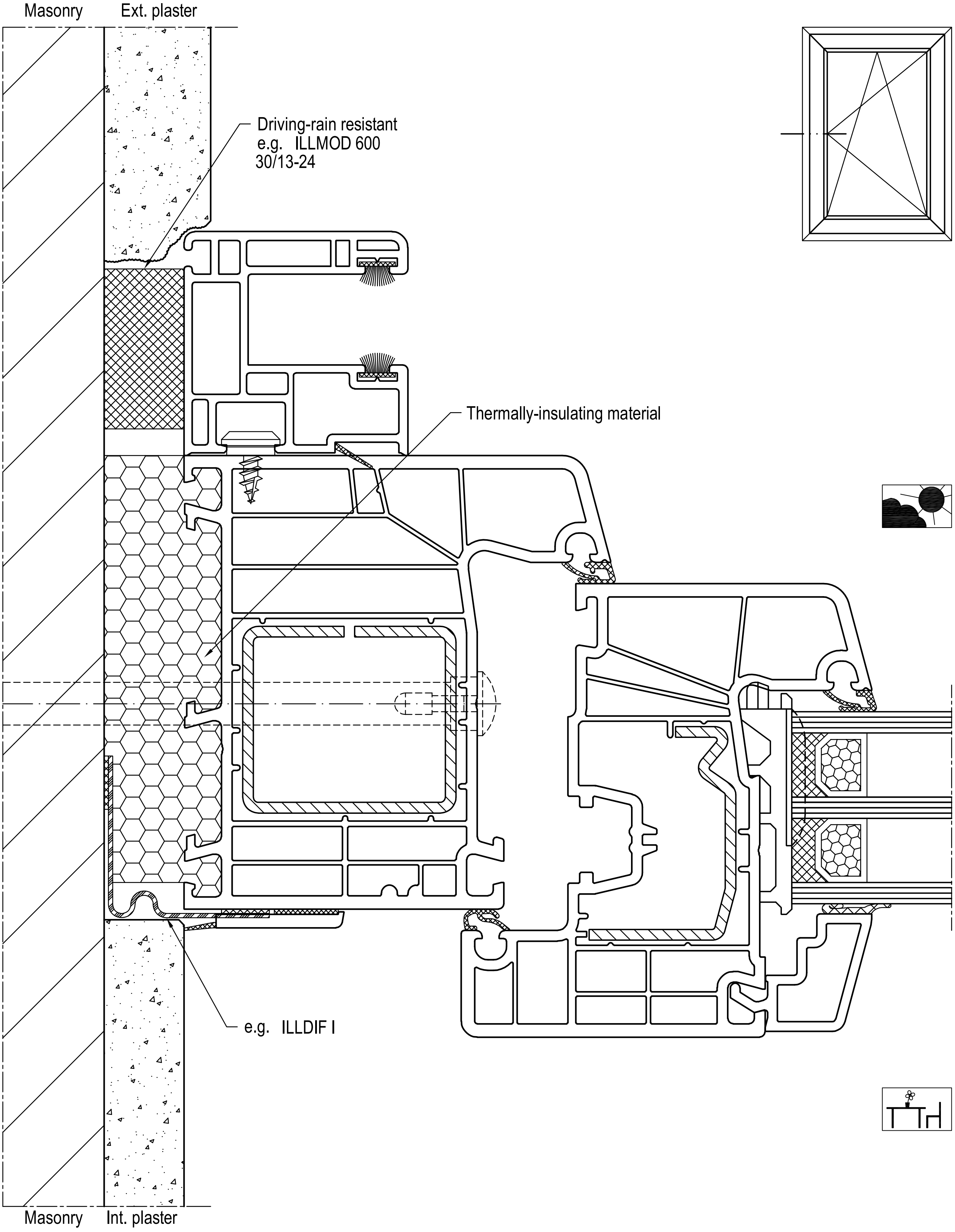
Example with:

Frame 170x03
False mullion 170x64
Sash 170x35

Combinations: Pivot windows
120636/120666 Glazing bead



Attention:
Basically, the interior connection to the wall structure shall be (vapour diffusion-) tighter than the exterior.
Inside: vapour barrier (vapour shall diffuse to the exterior) / airtight
Outside: driving rain resistant and vapour permeable (to the exterior)
Installation according to state of the art.
Respect gasket manufacturer's guidelines!



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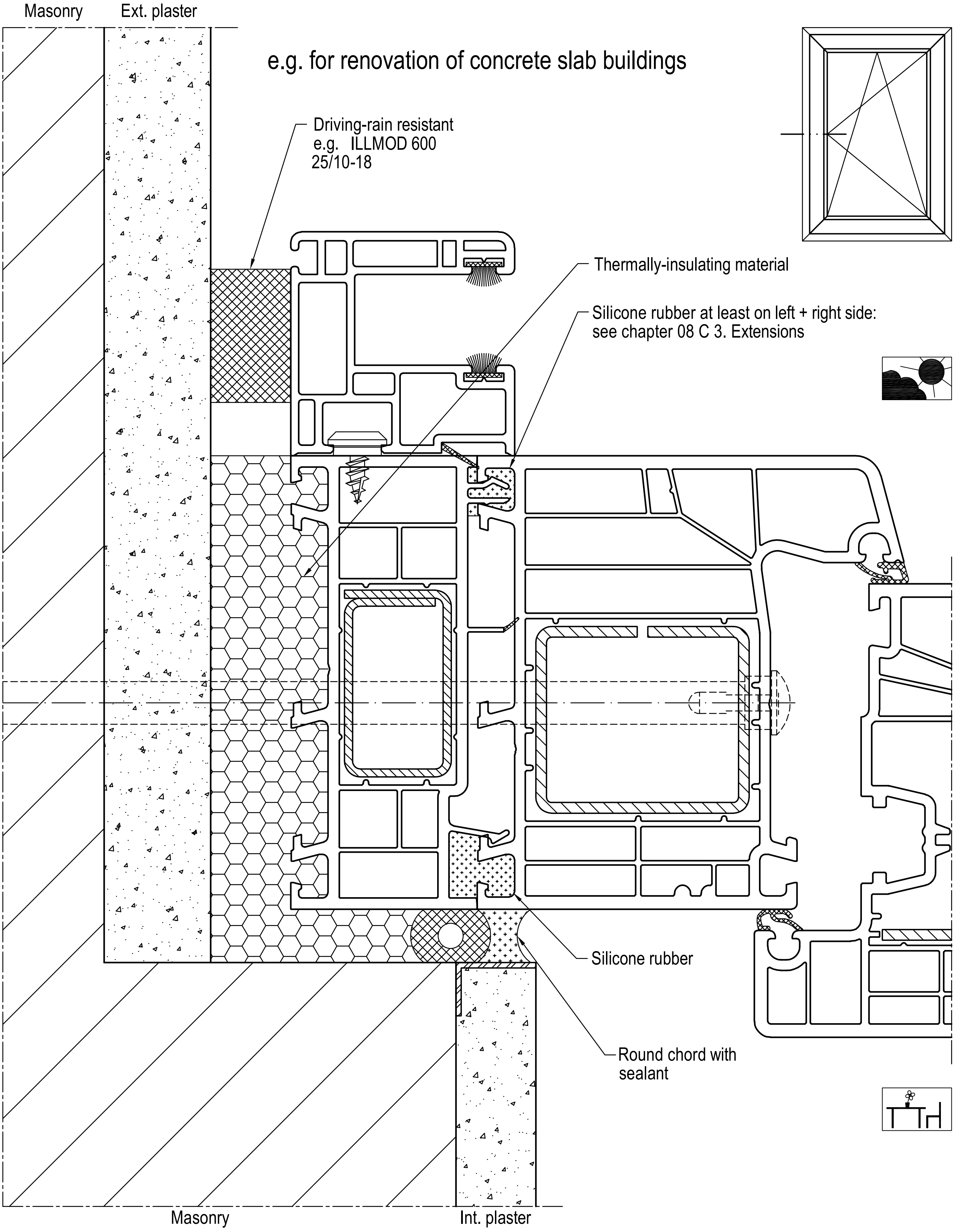
Installation according to state of the art.
Respect gasket manufacturer's guidelines!

Combinations:

Examples for the Connection to the Wall
without stop



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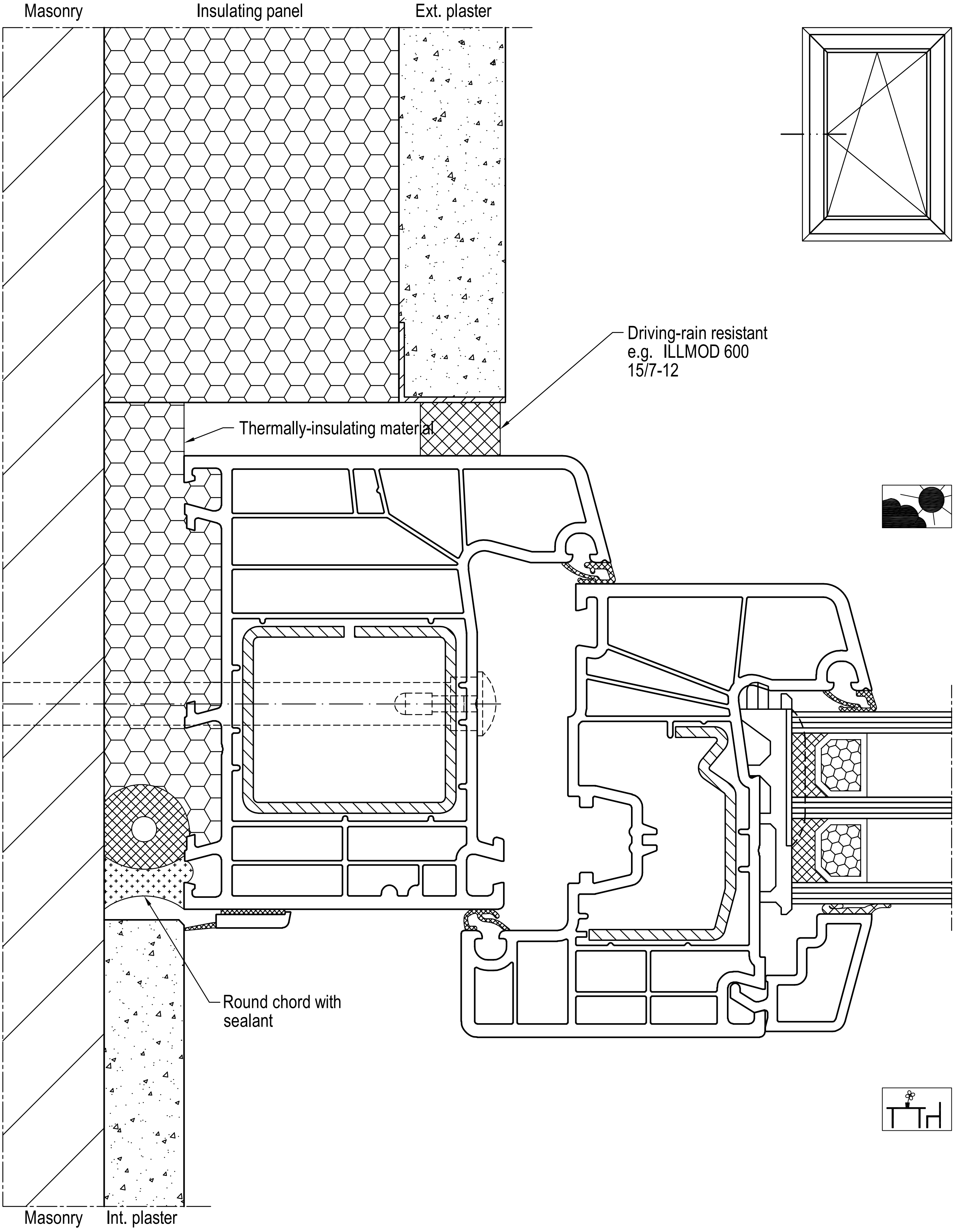
Installation according to state of the art.
Respect gasket manufacturer's guidelines!

Combinations:

Examples for the Connection to the Wall

exterior stop



Attention:
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Installation according to state of the art.
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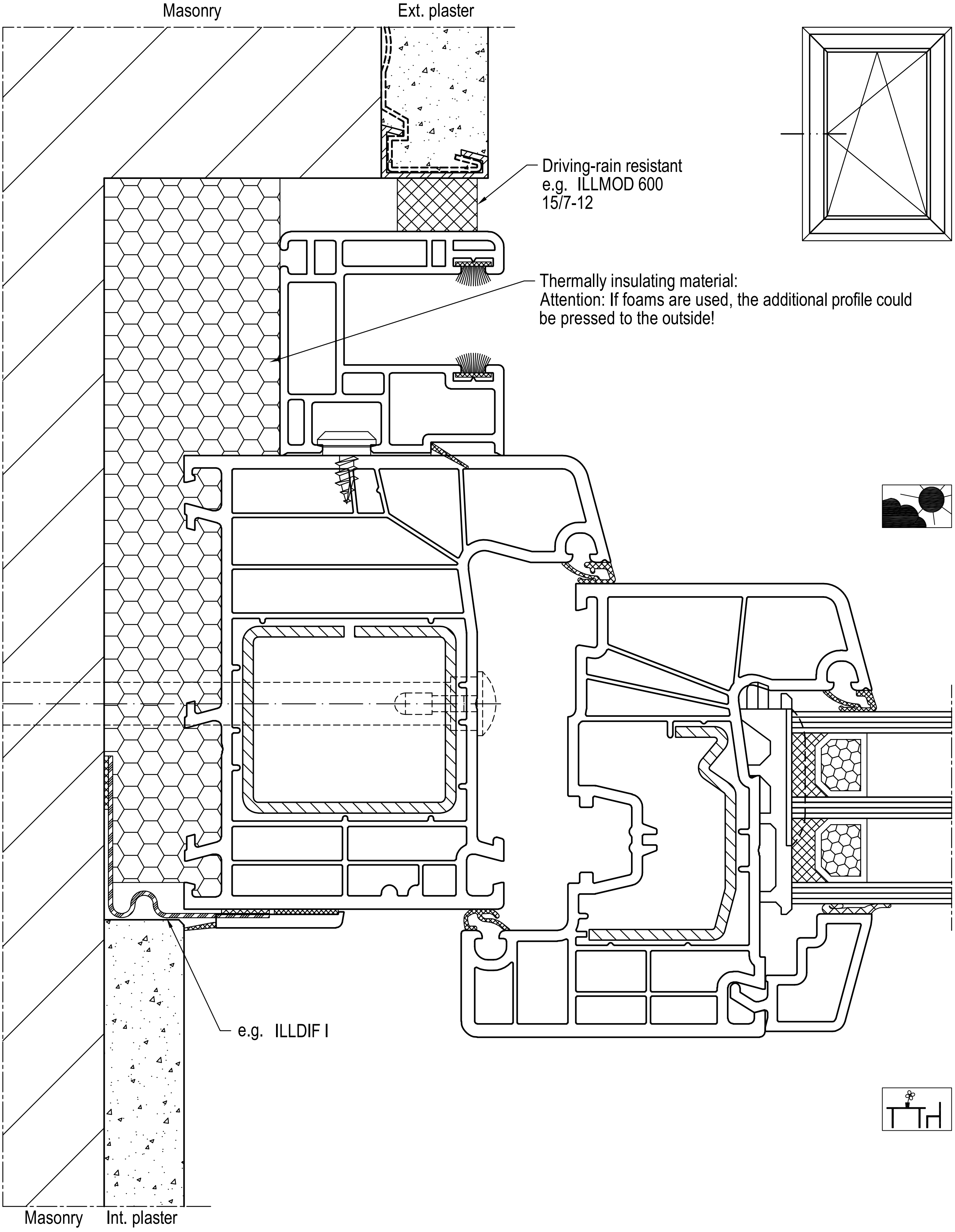

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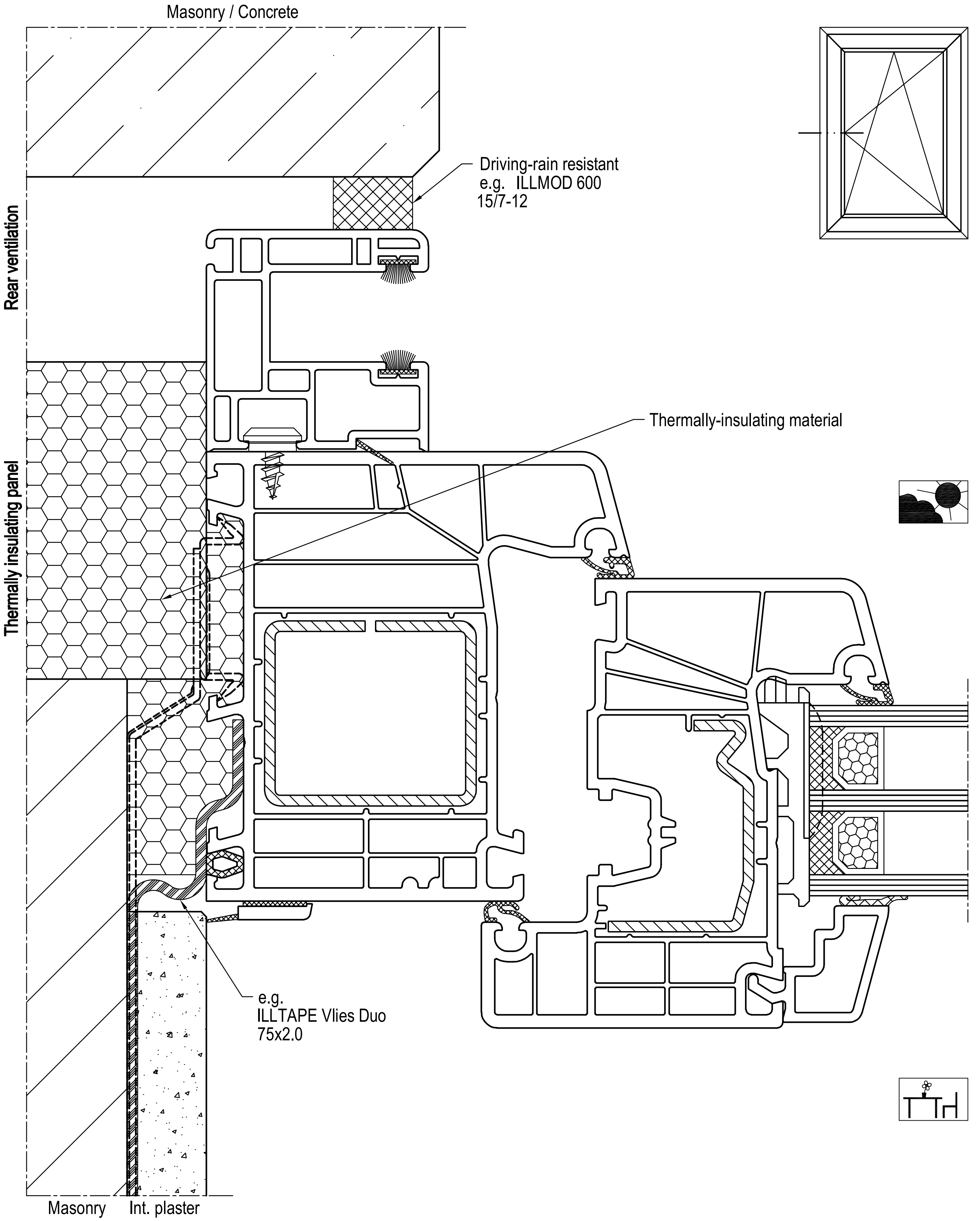
Respect gasket manufacturer's guidelines!



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Installation according to state of the art.
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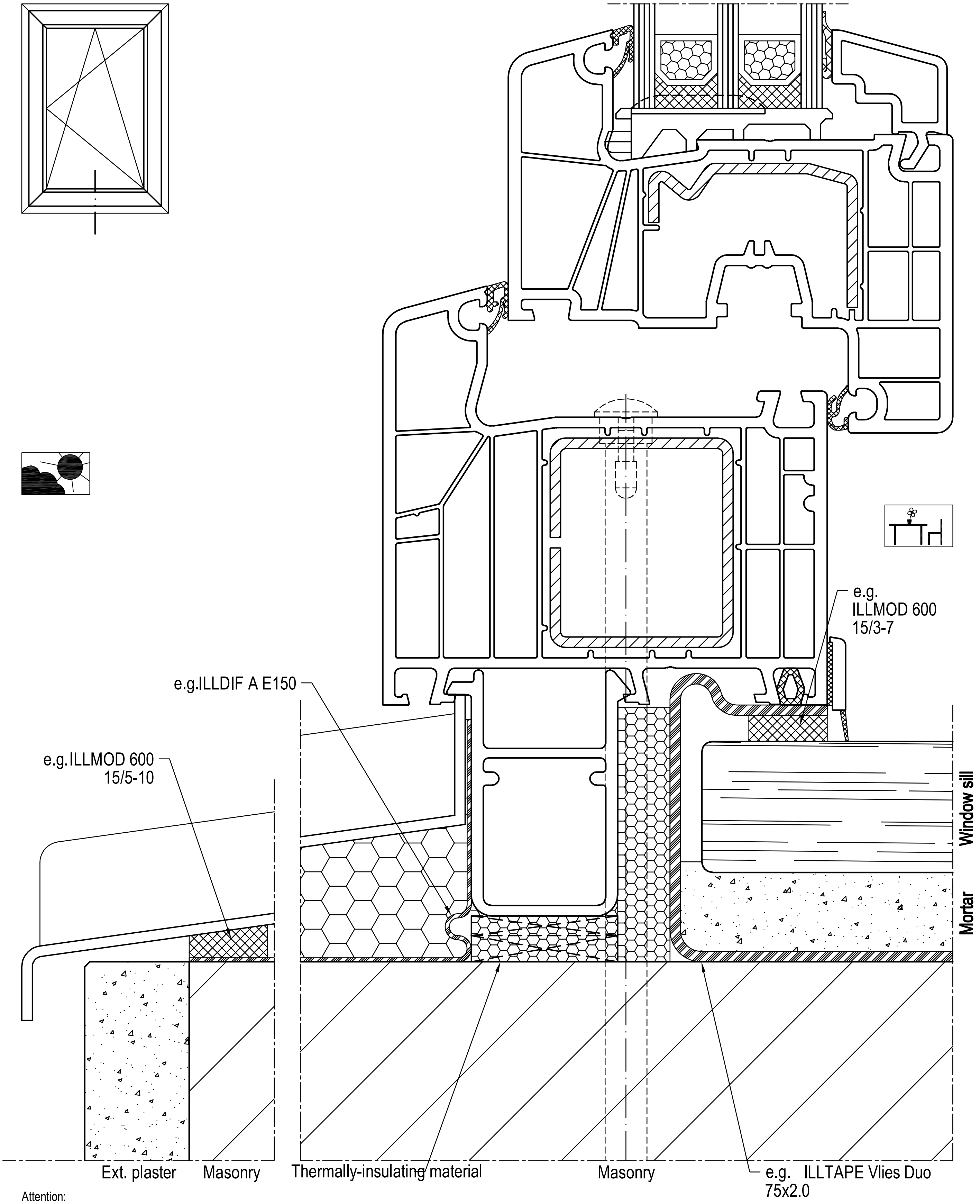

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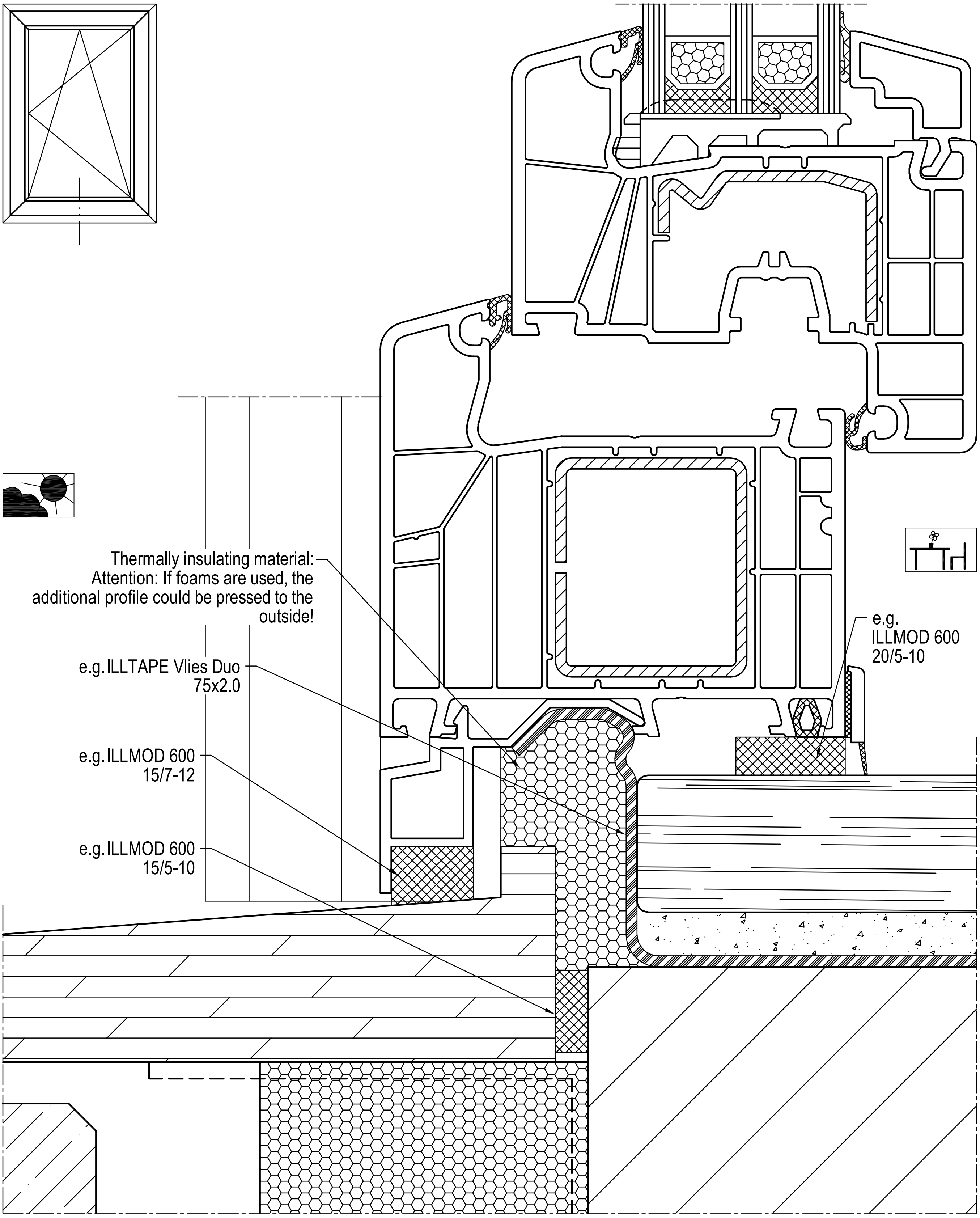
Installation according to state of the art.
Respect gasket manufacturer's guidelines!

Combinations: Examples for the Connection to the Wall

bottom connection



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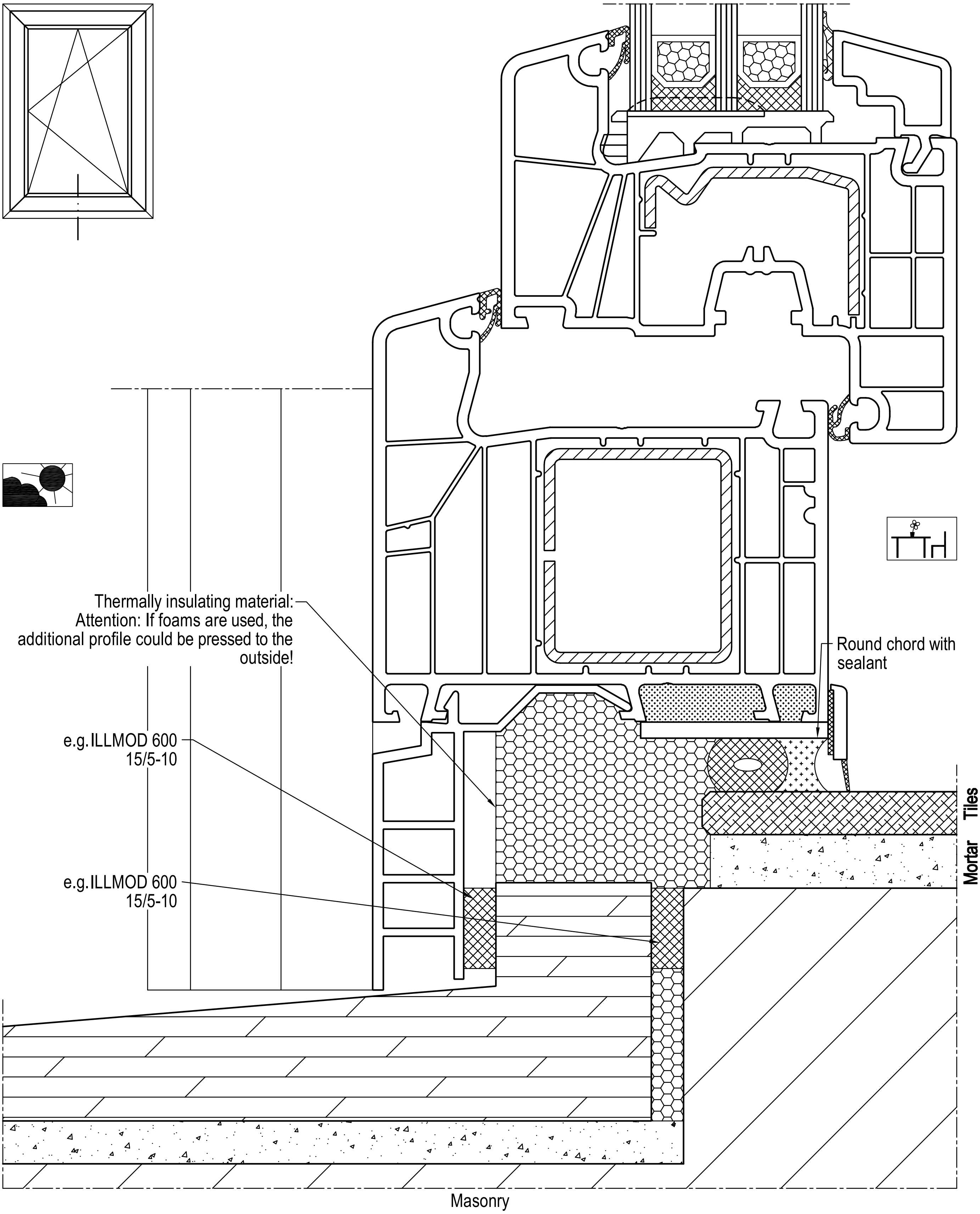
Installation according to state of the art.
Respect gasket manufacturer's guidelines!



Attention:
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Inside: vapour barrier (vapour shall diffuse to the exterior) / airtight
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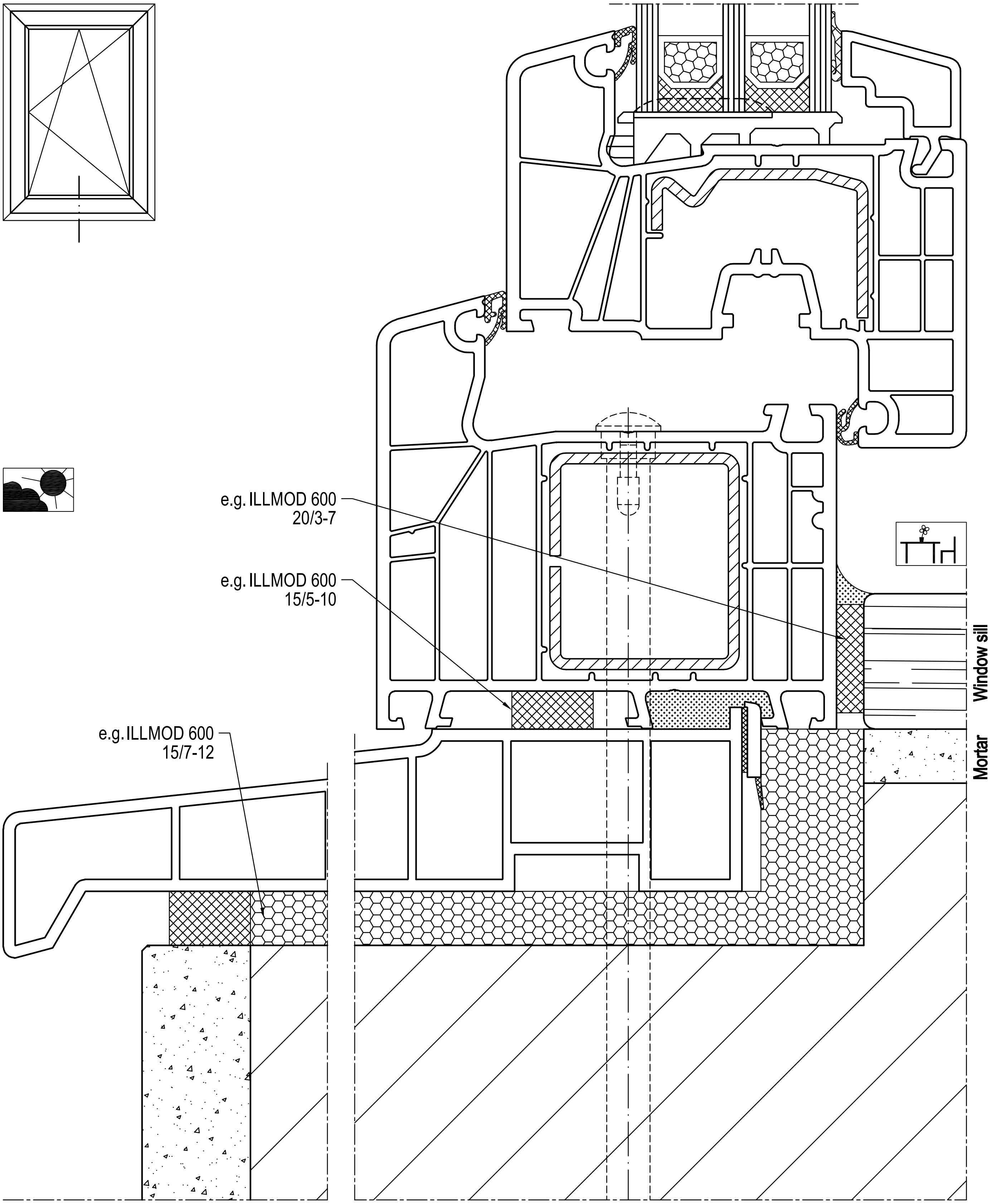
Respect gasket manufacturer's guidelines!

Combinations: Examples for the Connection to the Wall

bottom connection



Attention:
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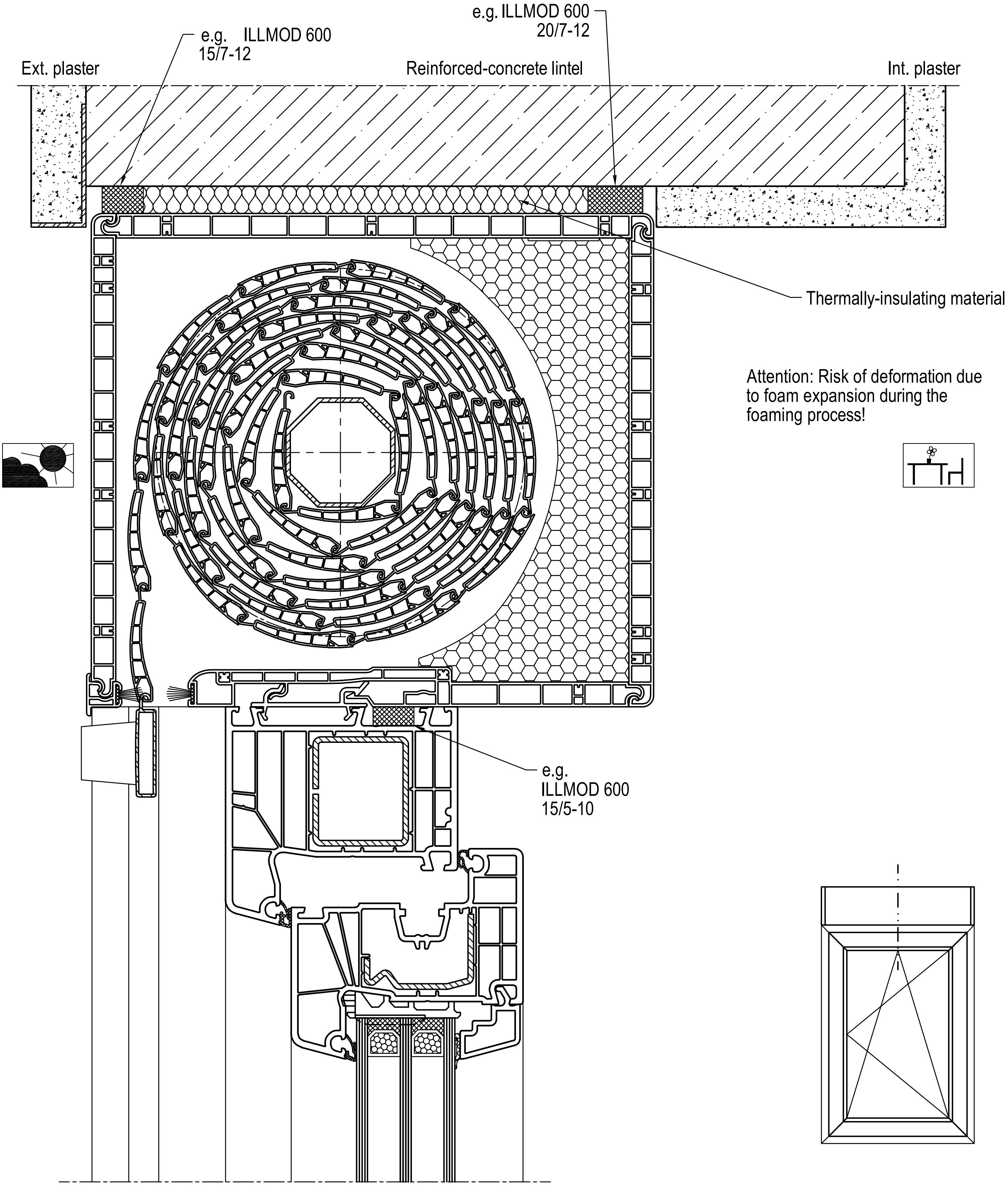
Installation according to state of the art.
Respect gasket manufacturer's guidelines!

Combinations:

Examples for the Connection to the Wall
bottom connection



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Installation according to state of the art.
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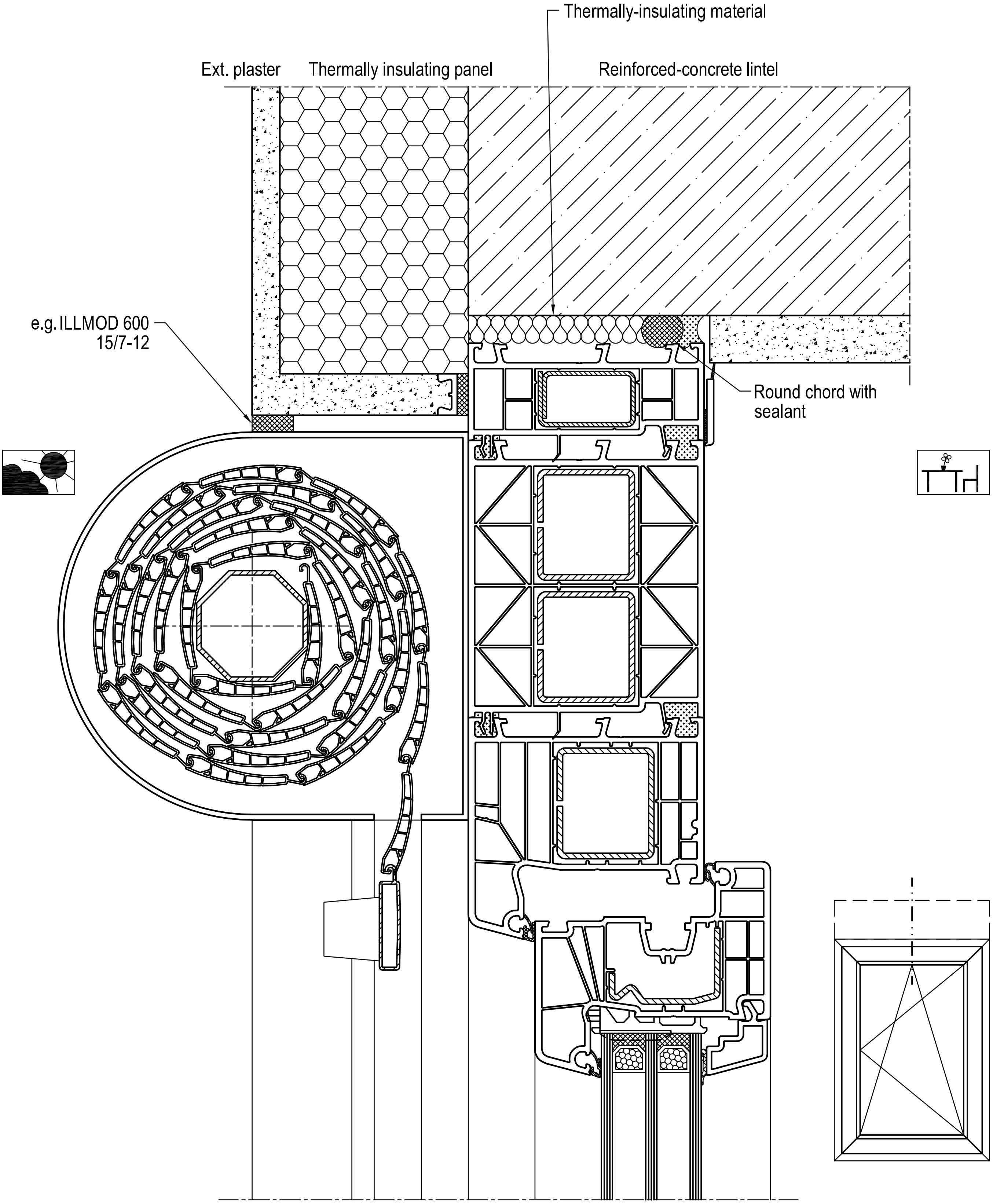

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Inside: vapour barrier (vapour shall diffuse to the exterior) / airtight
Outside: driving rain resistant and vapour permeable (to the exterior)
Installation according to state of the art.
Respect gasket manufacturer's guidelines!

Combinations:

Examples for the Connection to the Wall
at top with built-on roller shutter box

09 H Mechanical Connections

Note: Choose the compatible connector and the corresponding drilling jig or drilling pattern from chapter 02 D (Main Profiles) Mullions / Transoms.

The **Chapter 09 H Mechanical Connections** is subdivided into:
General information - Drilling patterns - Connectors

09 H 1 Mechanical Mullion and Transom Connections

Mullion and transom profiles are counter-milled (unless they get welded with the other profiles) and screwed to the frame / sash profile or mullion / transom profile with special zink-diecast connectors.

Use all the screws shown in the assembly drawings for all connection.

09 H 2 Cleaning and Care after the installation

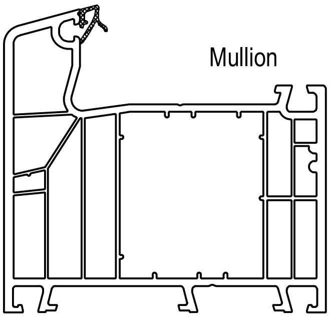
refer to Chapter 10 R Cleaning, 10 S Maintenance, and 10 T Ventilation

It is normal that windows get soiled during the window manufacturing process, for example when installing the hardware (grease) or due to ancillary marks (do not use felt markers as they often leave stubborn stains and therefore are not recommended for marking). Plastic window profiles can be cleaned easily using water and commercially-available mild cleansing agents (e.g. washing-up liquid, curd soap, soft soap). Solvents or abrasive cleansing agents must not be used.

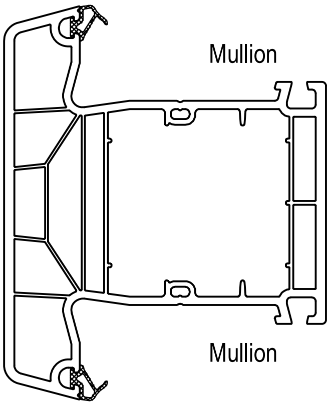
We recommend using the **aluplast** PVC window cleanser, **item number 699919** (for laminated profiles: **699920**). The cleansing agent has been developed especially for surfaces of white colour or wood texture design. It keeps the recently cleaned profiles or windows clean for a considerably longer time. The cleansing agent is suitable only for profile surfaces. Do not apply on other surfaces.

Apply the cleansing agent with a dry, clean cloth. Remove heavy soiling applying soft pressure. Wipe the profile surfaces with a damp cloth. Shake the bottle well before using the cleansing agent.

Profiles with wood texture design are resistant to corrosive agents as hard plaster, chlorinated lime and cement. Do not treat these profiles with alcohol, nitrocellulose lacquer, lacquer diluents, and organic solvents.

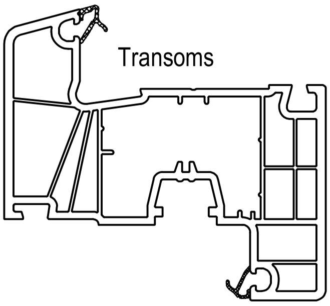


e.g. Frame (170x03)

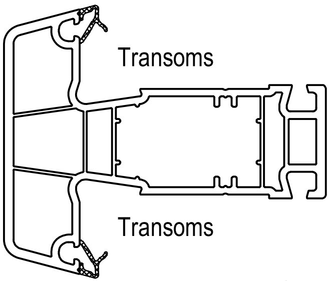


e.g. Mullion (170x44)

-> Mullion



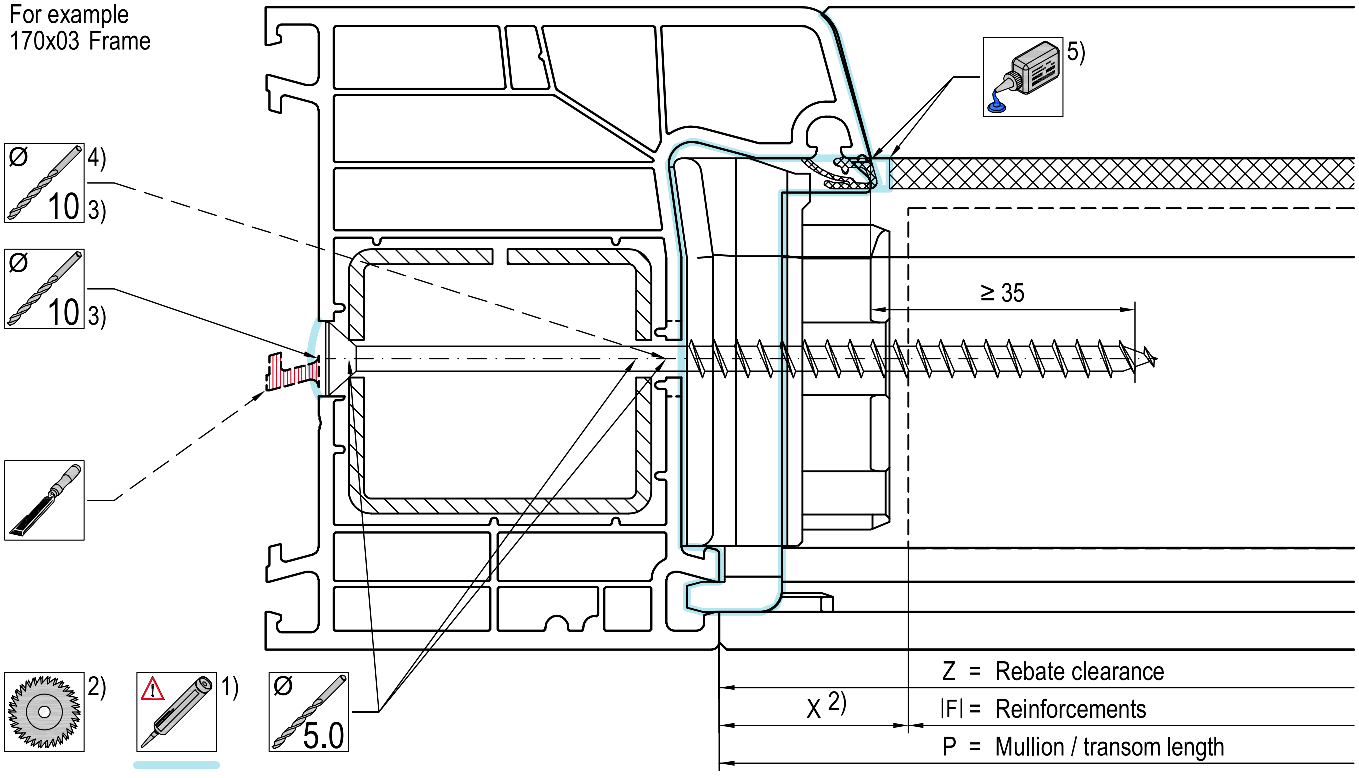
e.g. Sash (170x20) Ⓜ



e.g. Transoms (180x46) Ⓜ

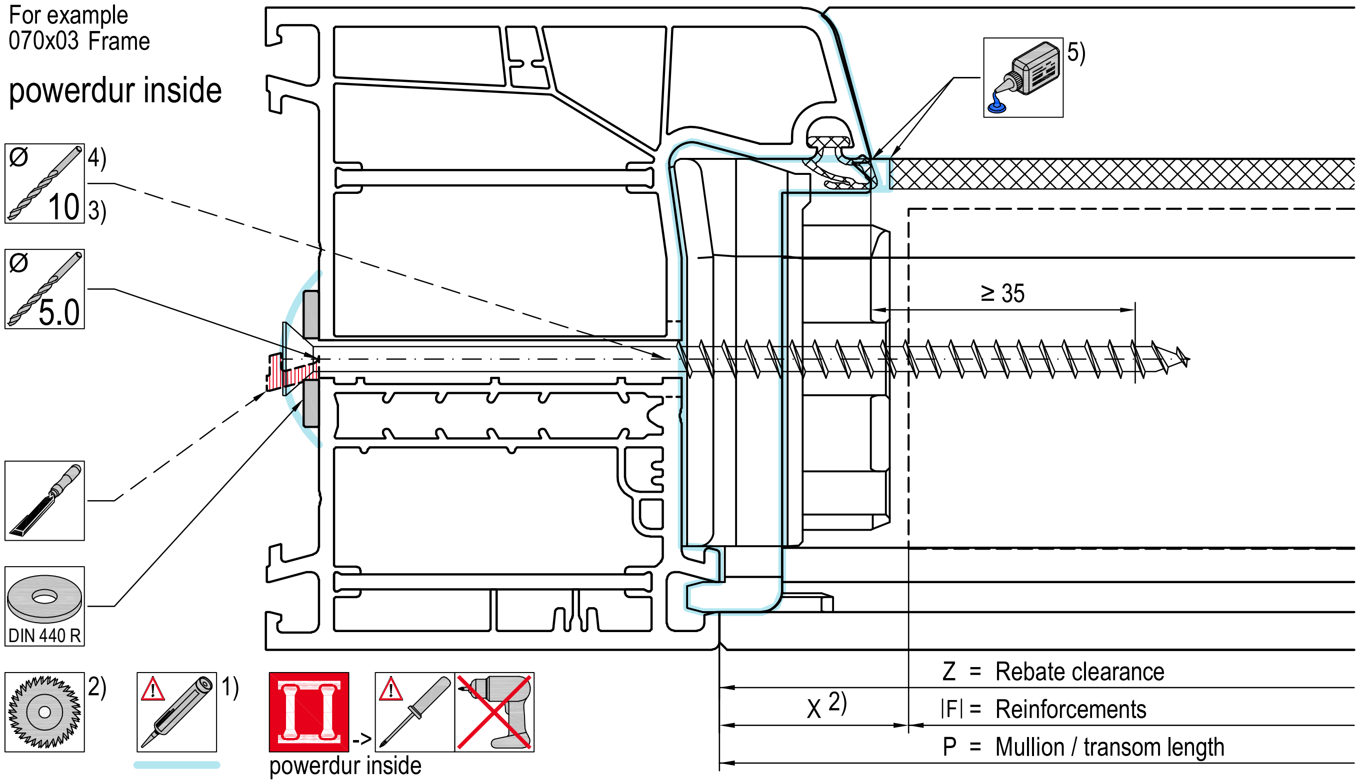
-> Transoms

For example
170x03 Frame



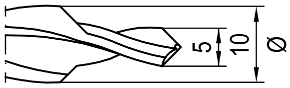
For example
070x03 Frame

powerdur inside



Mullion on frame/mullion: The screw shall project the profile edge by approximately 35mm. Drill a ø5mm hole through the reinforcement. We recommend drilling a blind hole of ø10mm into reinforced frames and mullions (drill diameter depends on screw head, required when connectors with knobs are used).

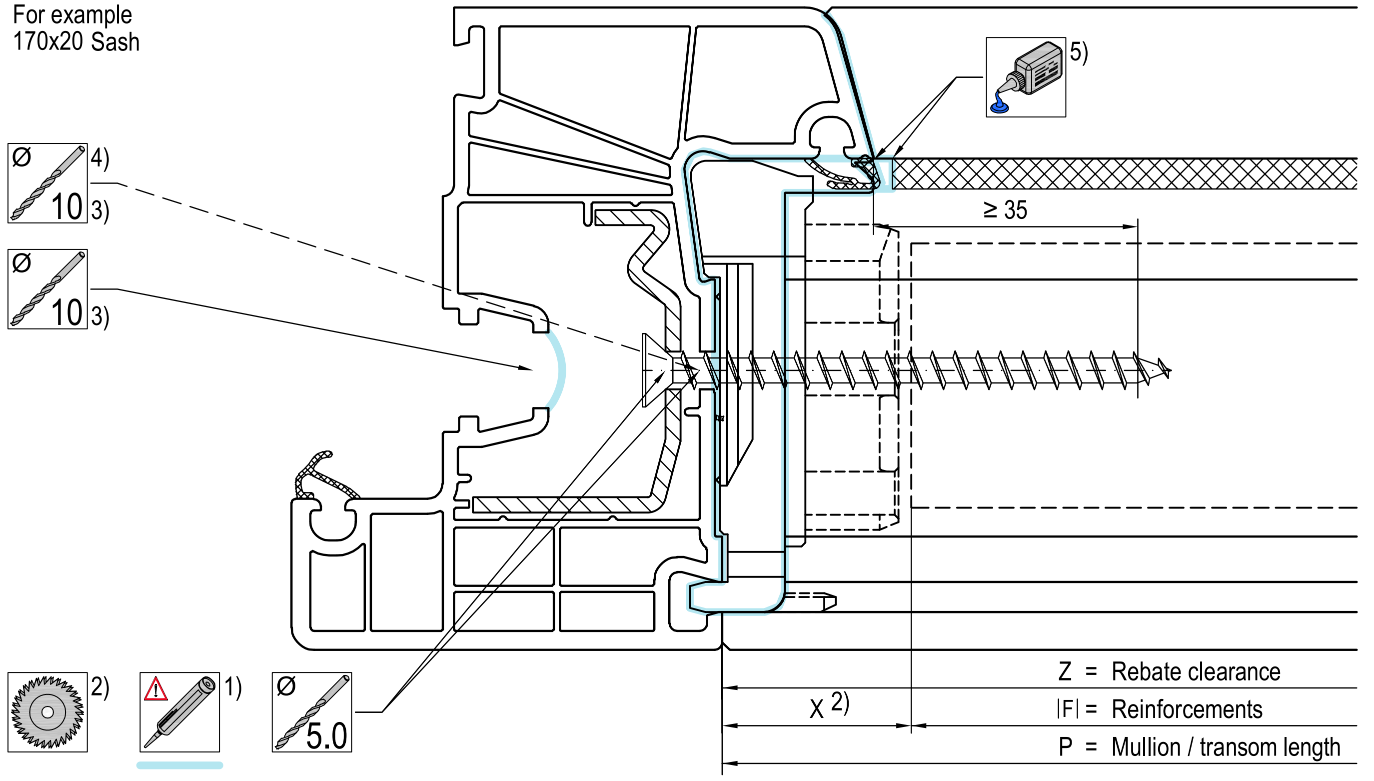
1) Seal all drill holes (or screws / washers) after screwing!
2) Milling patterns upon request only. For further information contact the aluplast application engineering team (AWT).
3) e.g. Step drill



4) -> |D| Connector with knobs

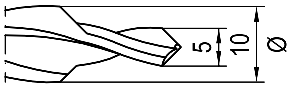
5) -> |X| ... Gaskets

For example
170x20 Sash



Transom on sash/transom: The screw shall project the profile edge by approximately 35mm. We recommend drilling a blind hole of ø10mm into reinforced sashes and transoms (drill diameter depends on screw head, required when connectors with knobs are used), and a through-hole ø5mm in the steel channel. (comparable with drilling in the frame).

1) Seal all drill holes (or screws / washers) after screwing!
2) Milling patterns upon request only. For further information contact the aluplast application engineering team (AWT).
3) e.g. Step drill

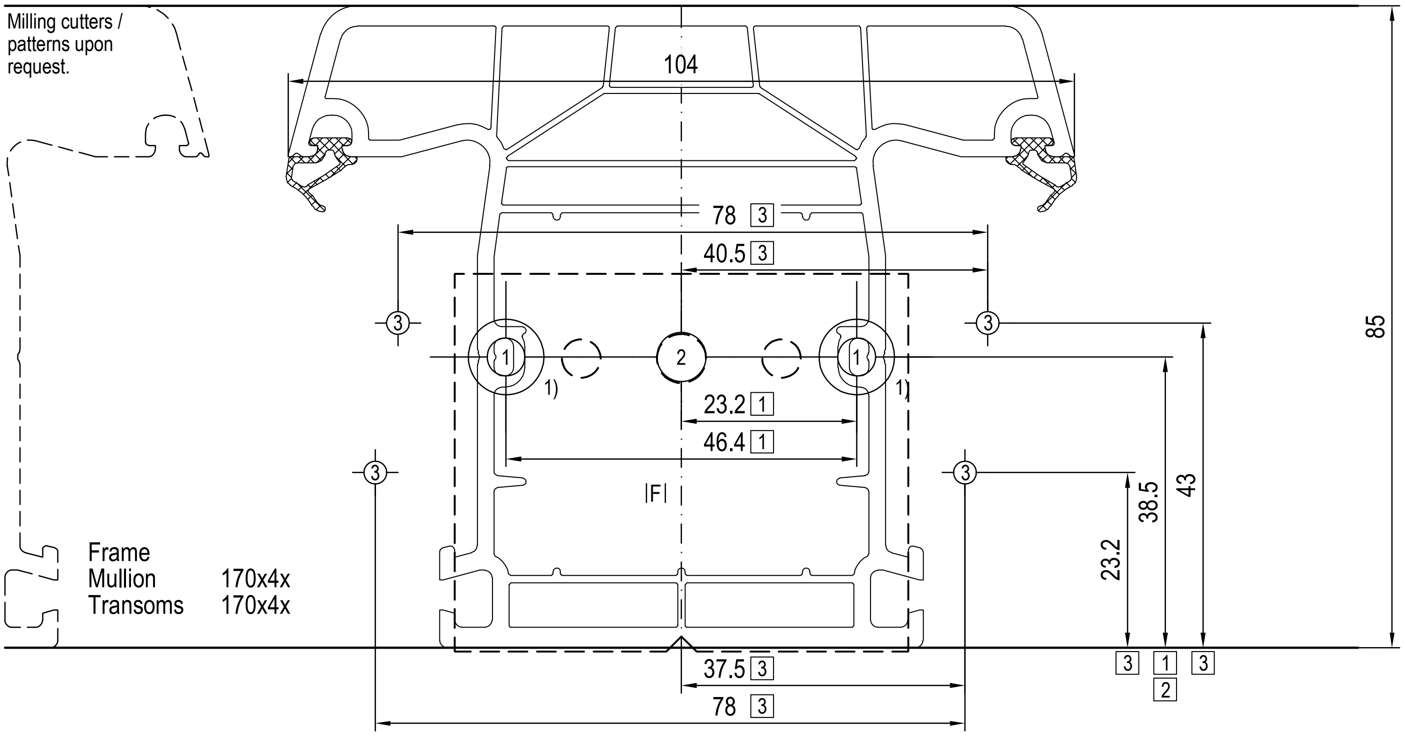


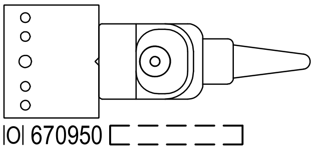
4) -> |D| Connector
with knobs

5) -> |X| ... Gaskets

⚠ All measures refer to drill holes without drilling jig!

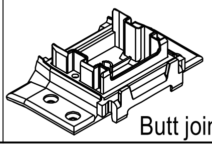
|F| Reinforcements required

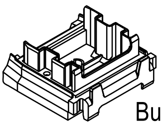




Drill hole				Processing			
1 2x	✗	✗		-	Standard	✗	-
1 2x	Ø 5.0			-	Option A	Option C 1)	-
2 1x	Ø 6.5			-	Option B	Option D	-
3 4x	Ø 3.0			-	required	✗	-
✗	✗	✗	✗	-	✗	✗	-
1) 2x	Ø 10			-	✗	required 1)	-

Connector	with knobs	without knobs	with knobs	without knobs
F~Metal	|D| - F	|Ø| 677145 F	|D| 677146 F	|Ø| - F
P~Plastic	|D| - P	|Ø| - P	|D| - P	|Ø| - P
see Chapter 05 D 3) ~45x20x1000 mm 2x |Ø| 640046 P		Butt joint or cross		Butt joint





1) Blind hole Ø10mm in the PVC is required (e.g. with step drill Ø5/Ø10mm).

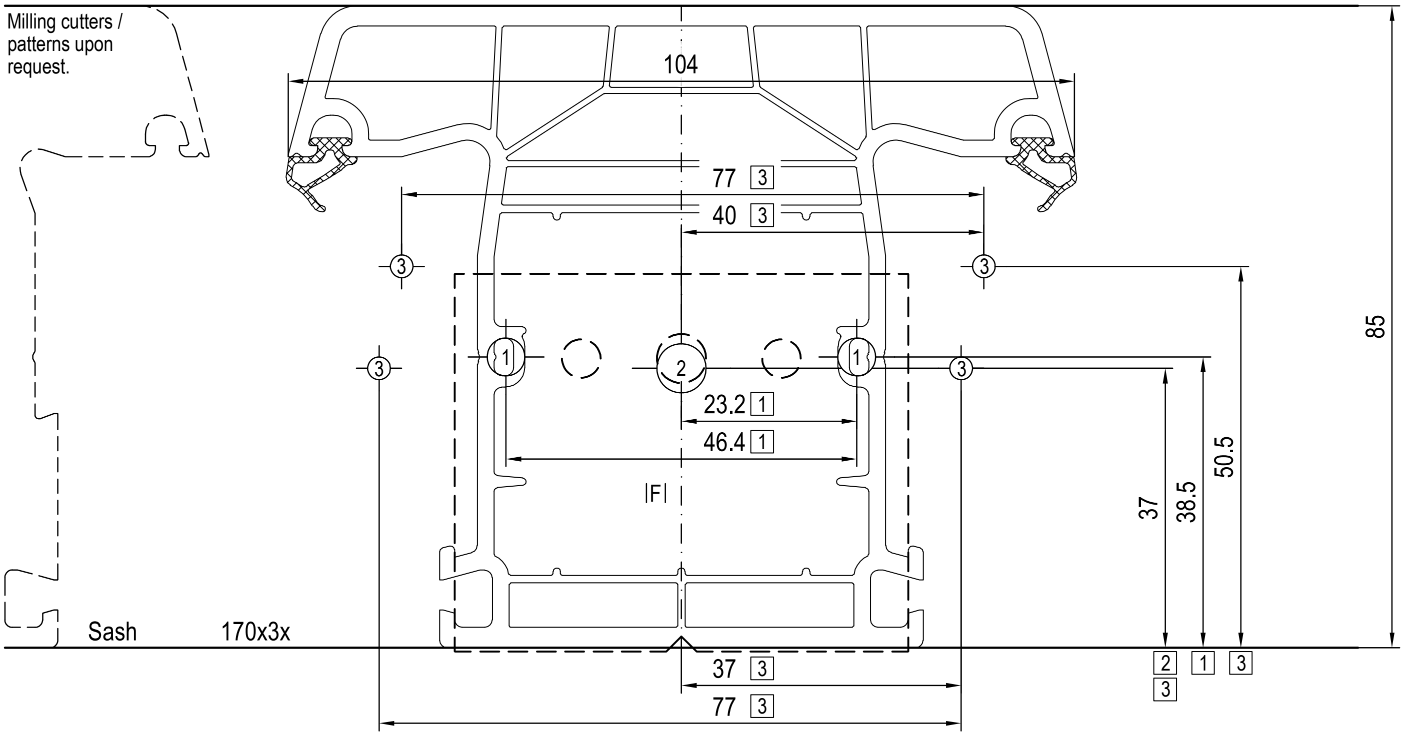
3) Manual "Additional Profiles / Accessories"

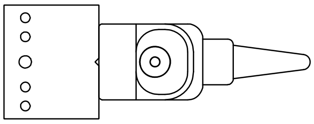
Drilling pattern

⚠ All measures refer to drill holes without drilling jig!

|F| Reinforcements required

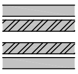
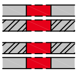
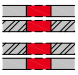
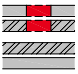
Milling cutters / patterns upon request.





|O| 670950

Drilling jig

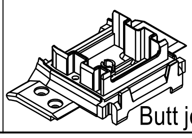
Drill hole				Processing	
1 2x	✗	✗		-	Standard
1 2x	Ø 5.0			-	Option A
2 1x	Ø 6.5			-	Option B
3 4x	Ø 3.0			-	required
✗	✗	✗	✗	-	✗
✗	✗	✗	✗	-	✗

Connector	with knobs		without knobs	
F~Metal	|D| -	F	|D| 677144	F
P~Plastic	|D| -	P	|D| -	P

see Chapter 05 D 3)

~45x20x1000 mm

2x |D| 640046 P



Butt joint or cross

3) Manual "Additional Profiles / Accessories"

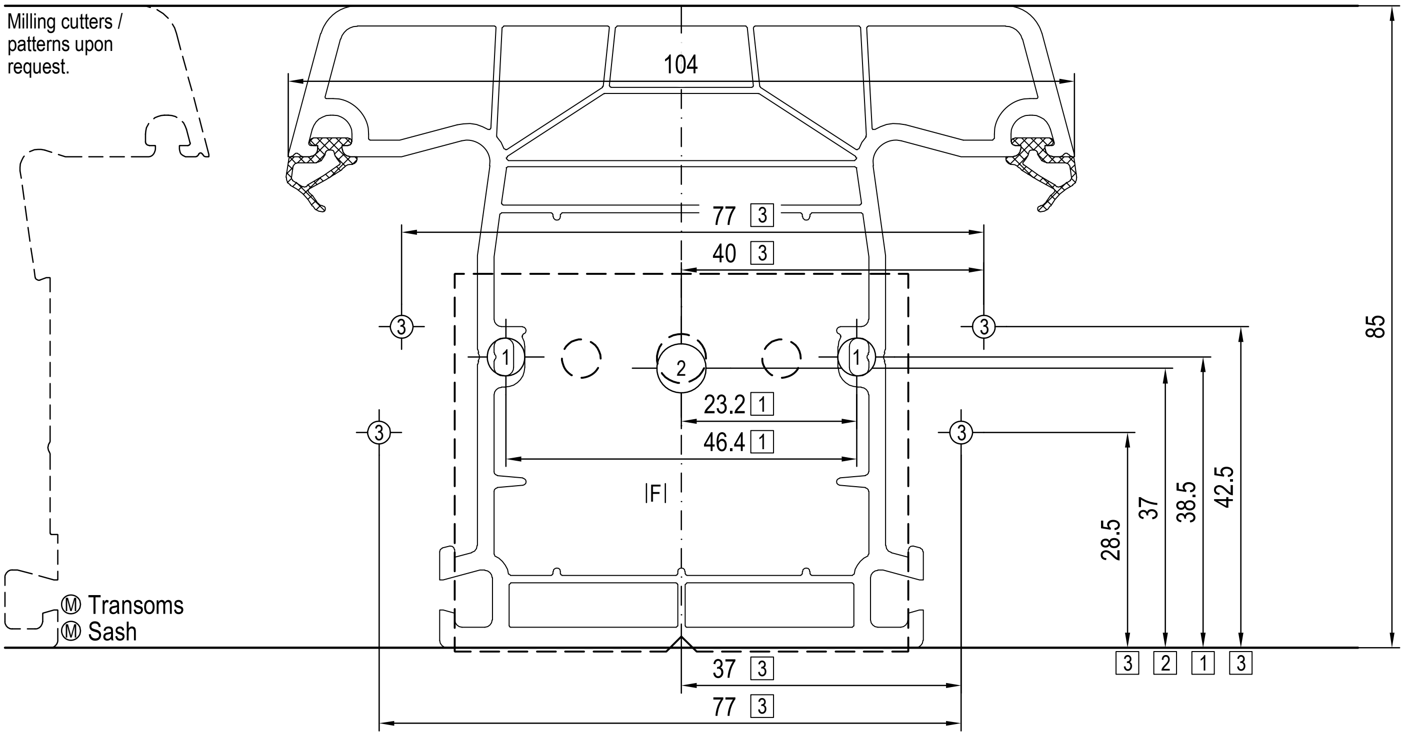
Drilling pattern

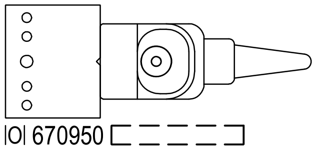
Mechanical Connections

Transom 170x44

⚠ All measures refer to drill holes without drilling jig!

|F| Reinforcements required





|O| 670950

Drilling jig

Drill hole				Processing	
1 2x	✗	✗	▨	-	Standard
1 2x	Ø 5.0			-	Option A
2 1x	Ø 6.5	✗		-	Option B
3 4x	Ø 3.0	✗		-	required
✗	✗	✗	✗	-	✗
✗	✗	✗	✗	-	✗

Connector

F~Metal

P~Plastic

see Chapter 05 D 3)

~45x20x1000 mm

2x |D| 640046 P

with knobs

|D| - F

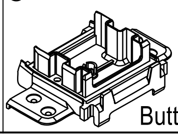
|D| - P

Ⓜ

without knobs

|D| 677244 F

|D| - P

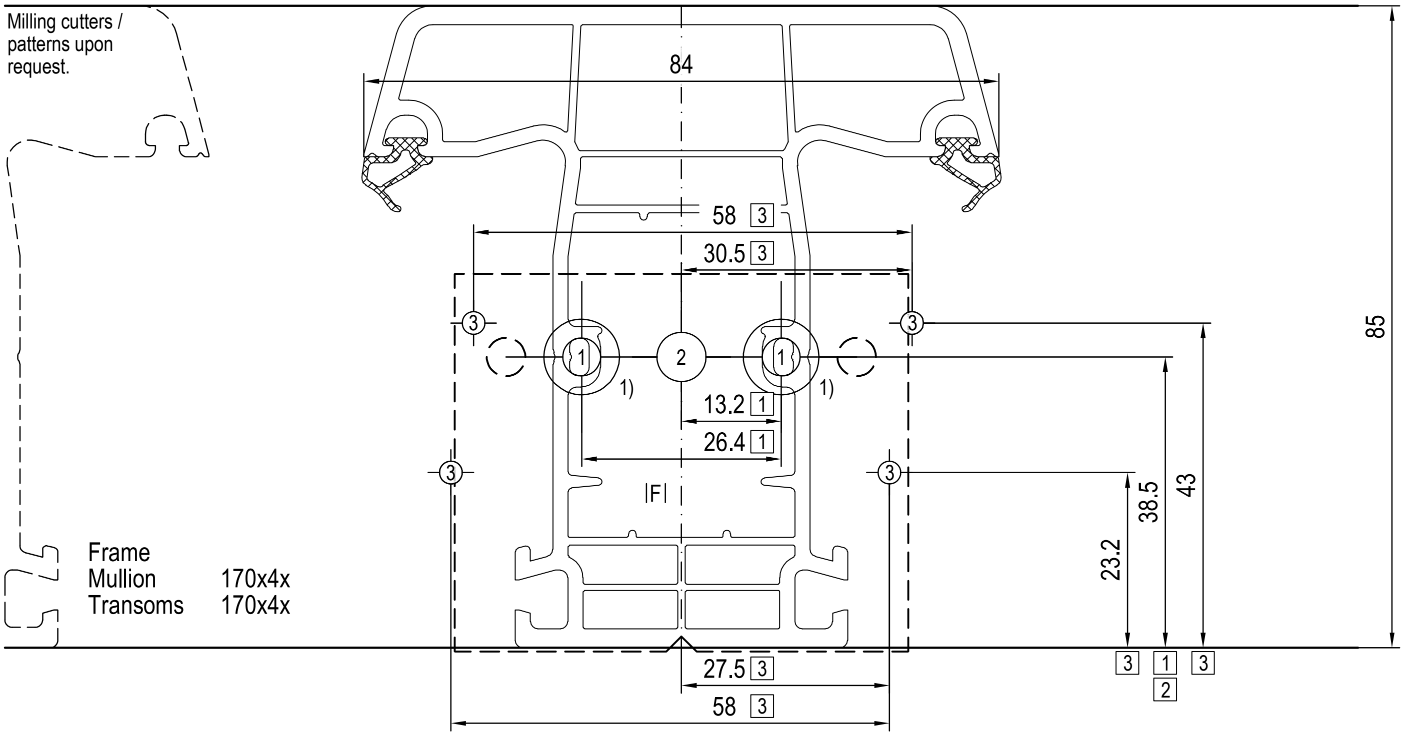


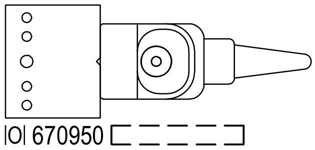
Butt joint or cross

3) Manual "Additional Profiles / Accessories"

⚠ All measures refer to drill holes without drilling jig!

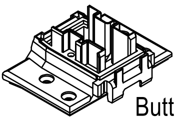
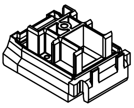
|F| Reinforcements required





|O| 670950

Drilling jig

Drill hole				Processing			
1 2x	✗	✗		Standard 1)	-	✗	-
1 2x	Ø 5.0			Option A 1)	-	Option C 1)	-
2 1x	Ø 6.5			✗	-	Option D	-
3 4x	Ø 3.0			required	-	✗	-
✗	✗	✗	✗	✗	-	✗	-
1) 2x	Ø 10			required 1)	-	required 1)	-
Connector				with knobs	without knobs	with knobs	without knobs
F~Metal				|D| 677101 F	|D| - F	|D| - F	|D| - F
P~Plastic				|D| - P	|D| - P	|D| 679141 P	|D| - P
see Chapter 05 D 3) 5 ~35x20x1000 mm |D| 620046 P or ~45x20x1000 |D| 640046 P				 Butt joint or cross		 Butt joint	

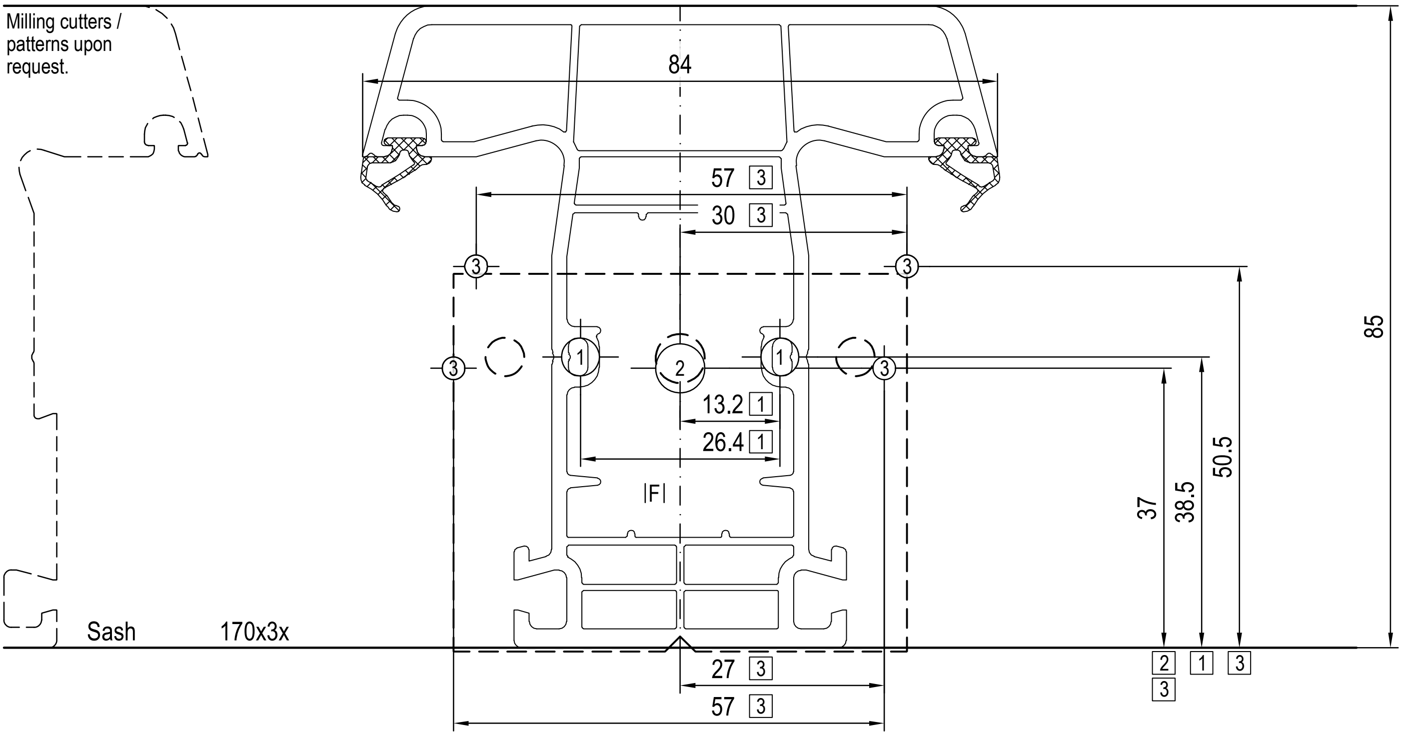
1) Blind hole Ø10mm in the PVC is required (e.g. with step drill Ø5/Ø10mm).

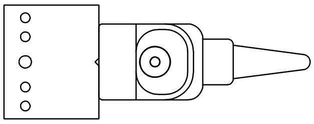
3) Manual "Additional Profiles / Accessories"

Drilling pattern

⚠ All measures refer to drill holes without drilling jig!

|F| Reinforcements required



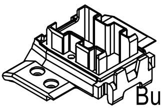


Drill hole				Processing	
1 2x	✗	✗	▨ ▨	-	Standard
1 2x	Ø 5.0		▨	-	Option A
2 1x	Ø 6.5		▨	-	Option B
3 4x	Ø 3.0		▨	-	required
✗	✗	✗	✗	-	✗
✗	✗	✗	✗	-	✗

Connector	with knobs	without knobs
F~Metal	|D| - F	|D| 677142 F
P~Plastic	|D| - P	|D| - P

see Chapter 05 D 3) 5

~35x20x1000 mm or ~45x20x1000
|D| 620046 P |D| 640046

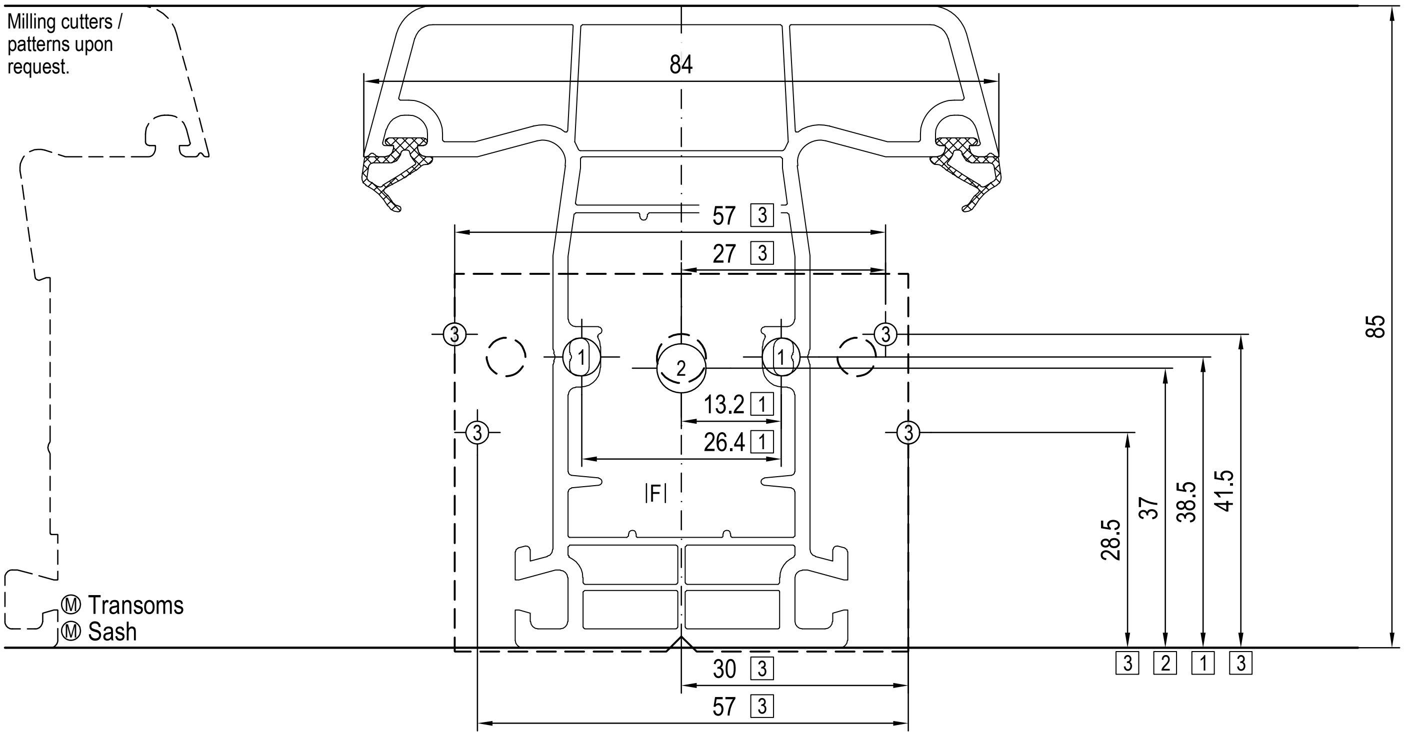

Butt joint or cross

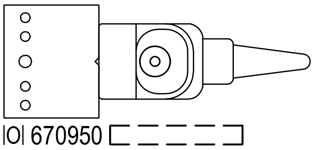
3) Manual "Additional Profiles / Accessories"

Drilling pattern

⚠ All measures refer to drill holes without drilling jig!

|F| Reinforcements required





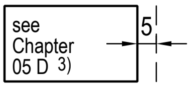
|O| 670950

Drilling jig

Drill hole				Processing	
1 2x	✗	✗	▨	-	Standard
1 2x	Ø 5.0		▨	-	Option A
2 1x	Ø 6.5	✗	▨	-	Option B
3 4x	Ø 3.0	✗	▨	-	required
✗	✗	✗	✗	-	✗
✗	✗	✗	✗	-	✗

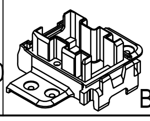
Connector

	with knobs	without knobs
F~Metal	|D| - F	|D| 677241 F
P~Plastic	|D| - P Ⓜ	|D| - P



~35x20x1000 mm or ~45x20x1000

|D| 620046 P |D| 640046



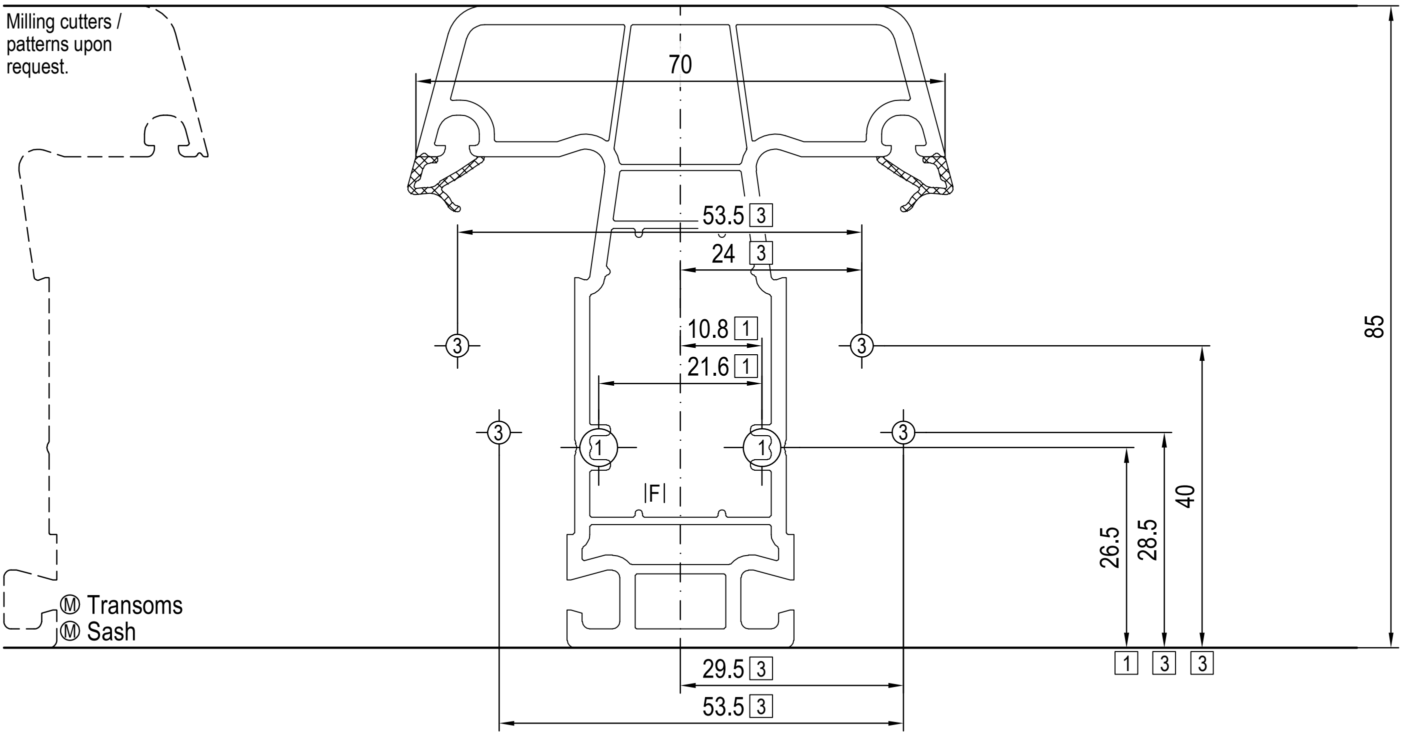
Butt joint or cross

3) Manual "Additional Profiles / Accessories"

Drilling pattern Ⓜ

⚠ All measures refer to drill holes without drilling jig!

|F| Reinforcements required



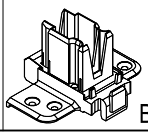
Drill hole				Processing	
1 2x	✗	✗	▨	-	Standard
1 2x	Ø 5.0	☒	▨	-	Option A
✗	✗	✗	✗	-	✗
3 4x	Ø 3.0	☒	▨	-	required
✗	✗	✗	✗	-	✗
✗	✗	✗	✗	-	✗

Connector	with knobs	without knobs
F~Metal	|D| - F	|D| 687246 F
P~Plastic	|D| - P	|D| - P

see Chapter 05 D 3)

~35.4x17.9x1000 mm
|D| 680046 P

Ⓜ

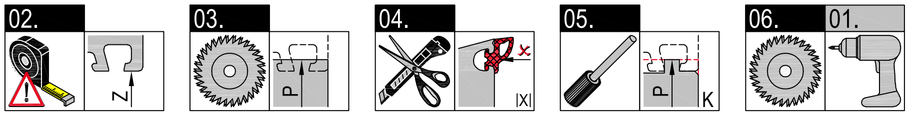


Butt joint or cross

3) Manual "Additional Profiles / Accessories"

Drilling pattern Ⓜ

Transom 180x46



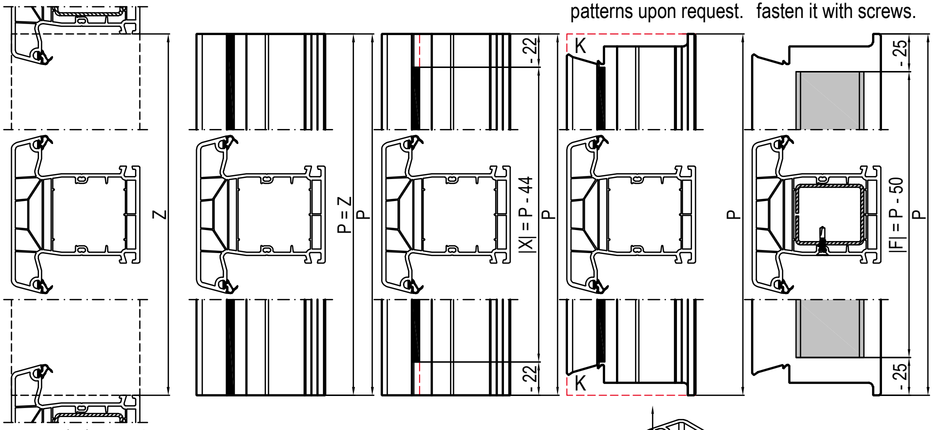
02. Measure rebate dimension Z.

03. Cut the mullion/transom P.

04. Shorten the gasket |X|.

05. Mill the contour K. Milling cutters / patterns upon request.

06. 01. Cut the reinforcement |F|, position it and fasten it with screws.



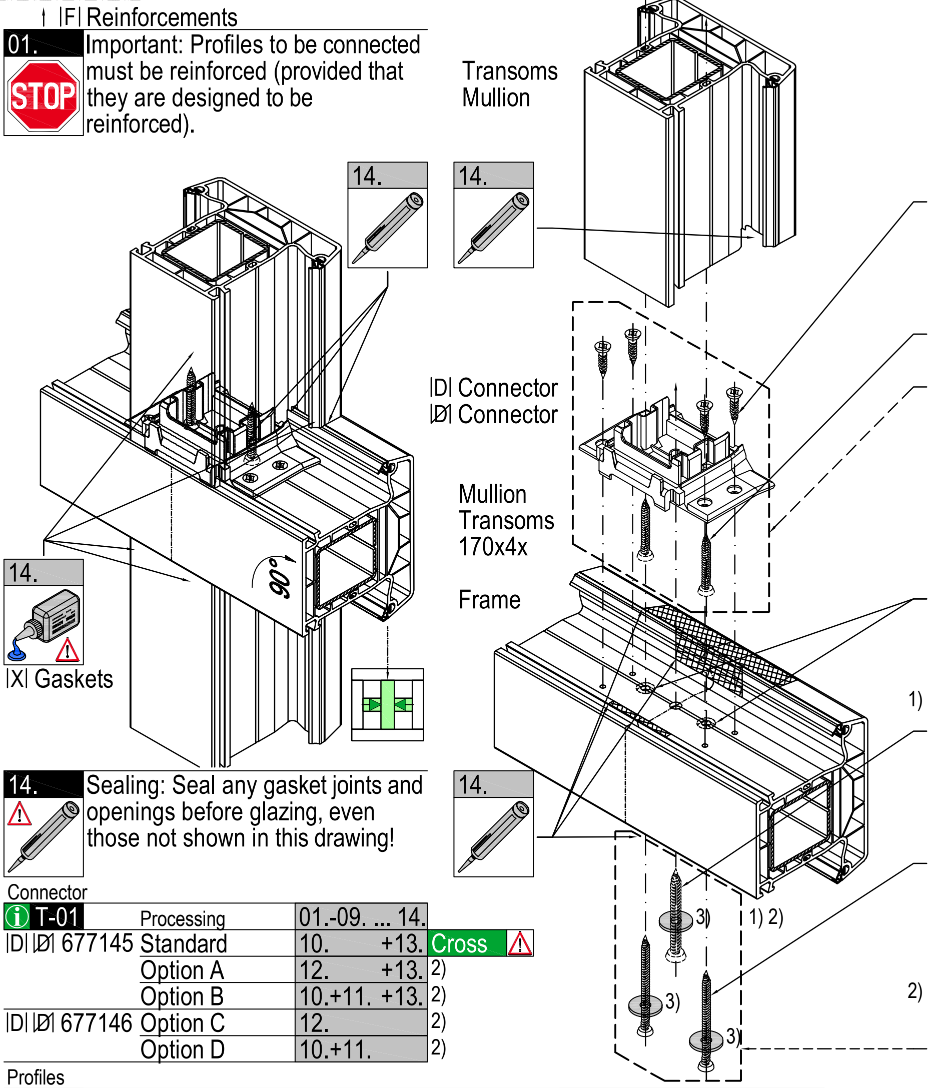
| |F| Reinforcements

Profile serial	IDEAL 7000
Construction depth	85mm
Mullions/Transoms	170x44 Mullions/Transoms
Connector	Butt joint or cross
|D| -	with knobs
|Ø| 677145	without knobs
|D| 677146	with knobs 2)
|Ø| -	without knobs 2)
|F| Reinforcements	

Mounting accessories
⬚ Drilling pattern
|O| 670950 Drilling jig
Step drill

677145
677146 2)

01. STOP Important: Profiles to be connected must be reinforced (provided that they are designed to be reinforced).



14. Sealing: Seal any gasket joints and openings before glazing, even those not shown in this drawing!

09. OMITTED

13. -> |D| |Ø| 677145 T-01
Ø 3.0 3
4x Screw
~ DIN 7504 P
ø4.2x19mm
Drill hole = Option

10. T-01
Cross ⚠
10.+13.
2x Screw
~ SPAX / ASSY
ø5x60mm

08. OMITTED

07. -> |D| |Ø| 677146 with knobs
Ø 10 1)
2x Drill hole
1) Step drill ~ Blind hole

11. 2) T-01
Ø 6.5 2
3)
1x Screw
~ DIN 7981
T-02
|O| 670950 Drilling jig

12. 2) T-01
Ø 5.0 1
3)
2x Screw
~ SPAX / ASSY
T-02
|O| 670950 Drilling jig

2) Butt join STOP For butt joint only, or only 1x on one side for cross joints. 11. 12.

3) -> powerdur inside 11. 12.
DIN 440 R

Connector

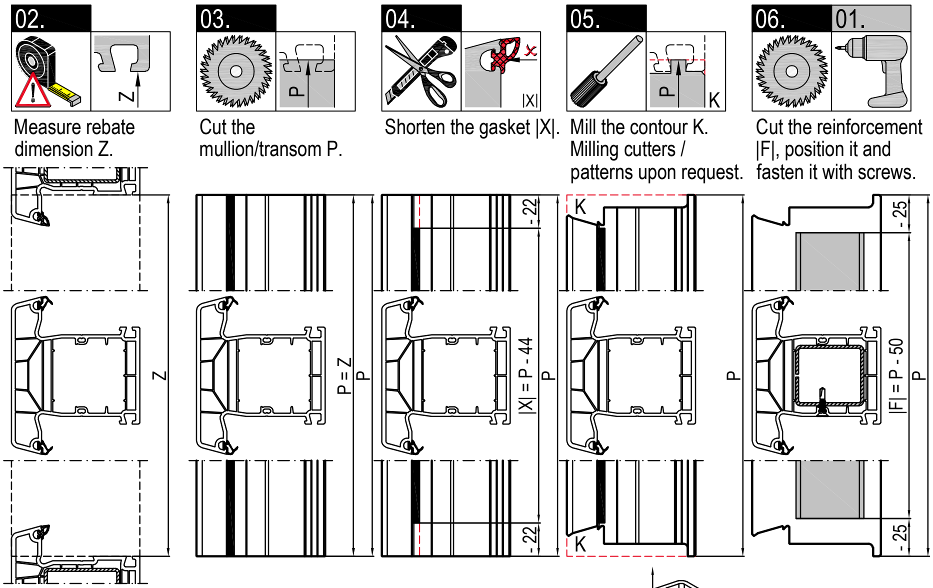
T-01	Processing	01.-09. ... 14.
|D| |Ø| 677145	Standard	10. +13. Cross ⚠
	Option A	12. +13. 2)
	Option B	10.+11. +13. 2)
|D| |Ø| 677146	Option C	12. 2)
	Option D	10.+11. 2)

Profiles

T-02 screw	11.	12.
R(170x02)	3) |F| ø6.3x50mm	ø5x100mm
R(070x03, 170x03, 170x81), P(170x44)	3) |F| ø6.3x60mm	ø5x110mm
P(170x41)	|F| ø6.3x38mm	ø5x90mm

R(frame), Fu(sash reinforced with L or U steel channel), Fo(sash reinforced with O steel channel), P(mullion/transom)

Connector



02. Measure rebate dimension Z.

03. Cut the mullion/transom P.

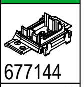
04. Shorten the gasket |X|.

05. Mill the contour K. Milling cutters / patterns upon request.

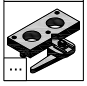
06. Cut the reinforcement |F|, position it and fasten it with screws.

Profile serial	IDEAL 7000
Construction depth	85mm
Mullions/Transoms	170x44 Transoms
Connector	Butt joint or cross
|D| -	with knobs
|Ø| 677144	without knobs
|D| -	with knobs 2)
|Ø| -	without knobs 2)
|F| Reinforcements	

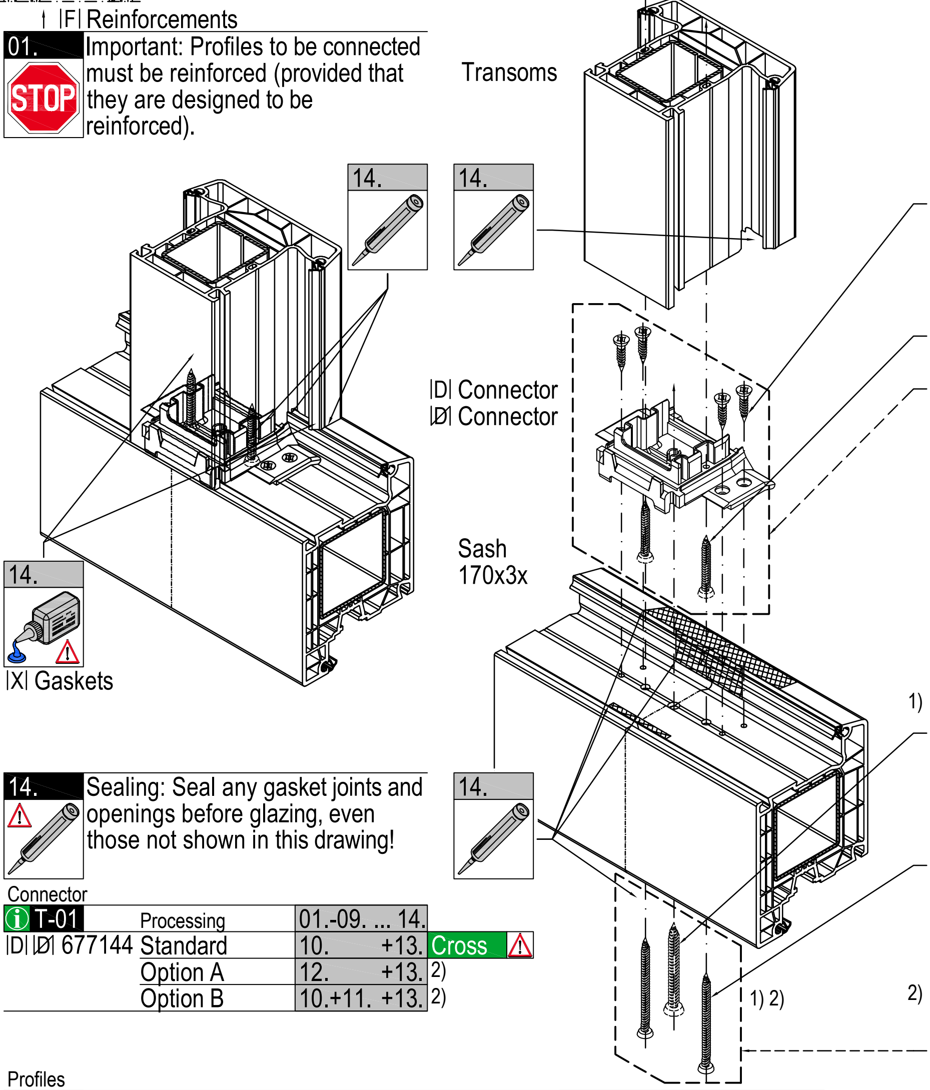
Mounting accessories
⬚ Drilling pattern
|O| 670950 Drilling jig
Step drill


677144

2)

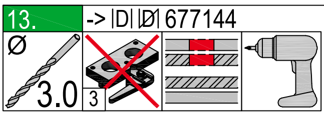


01. **STOP** Important: Profiles to be connected must be reinforced (provided that they are designed to be reinforced).



09. OMITTED

13. -> |D| |Ø| 677144 T-01

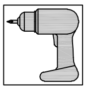


4x Screw
~ DIN 7504 P
ø4.2x19mm

Drill hole = Option

10. T-01

Cross ⚠
10.+13.



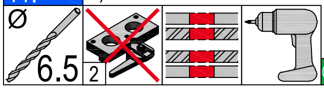
2x Screw
~ SPAX / ASSY
ø5x60mm

08. OMITTED

07. OMITTED

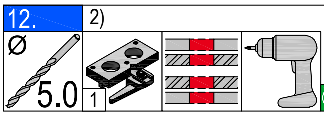
1) Step drill ~ Blind hole

11. 2) T-01



1x Screw
~ DIN 7981
T-02

12. 2) T-01



2x Screw
~ SPAX / ASSY
T-02

|O| 670950 Drilling jig

2) Butt join **STOP** For butt joint only, or only 1x on one side for cross joints. 11. 12.

14. ⚠ Sealing: Seal any gasket joints and openings before glazing, even those not shown in this drawing!

Connector

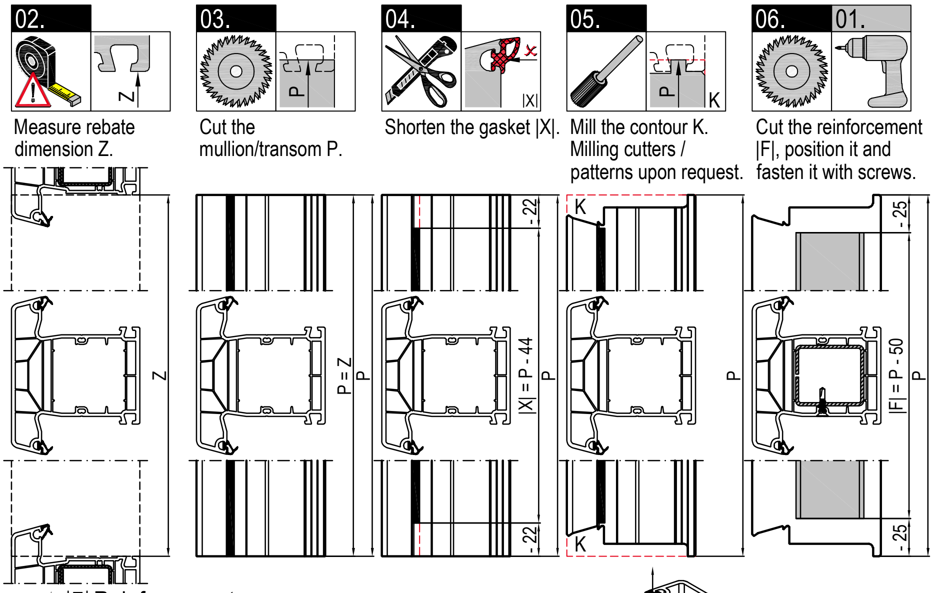
T-01	Processing	01.-09. ... 14.	
|D| |Ø| 677144	Standard	10. +13.	Cross ⚠
	Option A	12. +13.	2)
	Option B	10.+11. +13.	2)

Profiles

T-02	screw		11.	12.
Fo(170x33, 170x35, 170x36)		|F|	ø6.3x70mm	ø5x115mm

R(frame), Fu(sash reinforced with L or U steel channel), Fo(sash reinforced with O steel channel), P(mullion/transom)

Connector



02. Measure rebate dimension Z.

03. Cut the mullion/transom P.

04. Shorten the gasket |X|.

05. Mill the contour K. Milling cutters / patterns upon request.

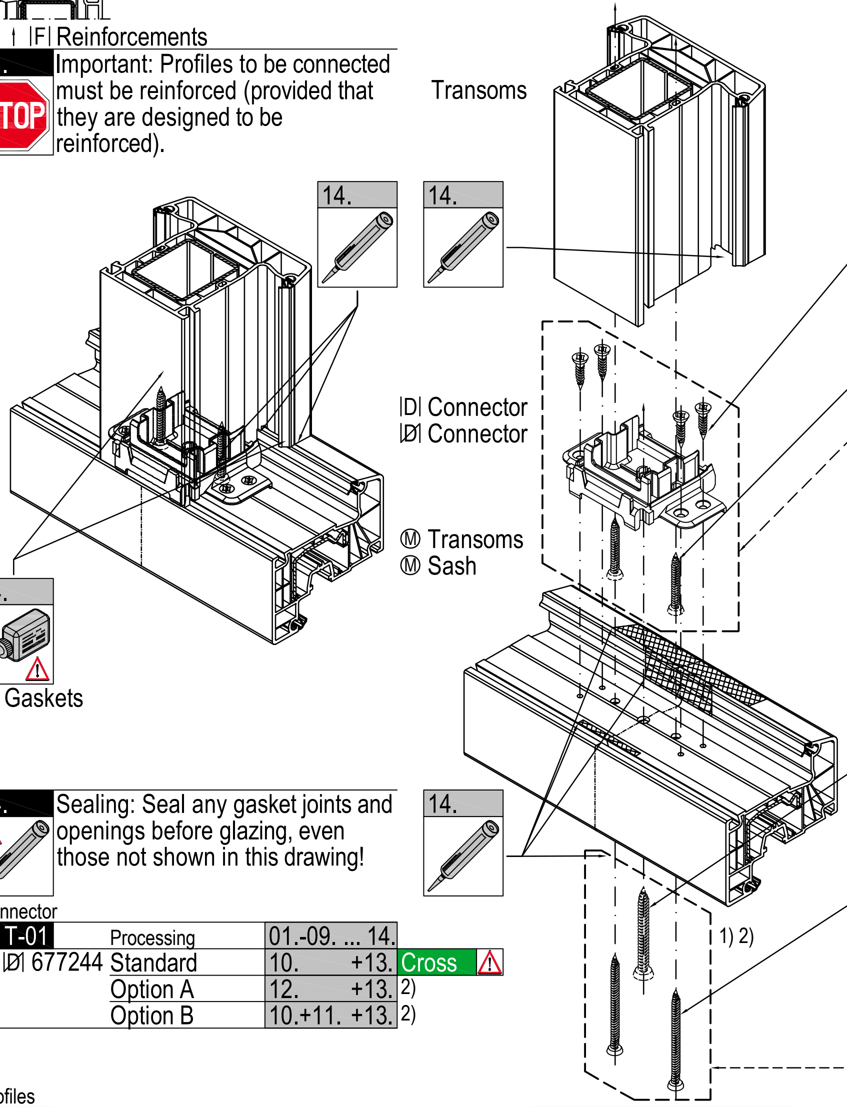
06. 01. Cut the reinforcement |F|, position it and fasten it with screws.

Profile serial	IDEAL 7000	
Construction depth	85mm	
Mullions/Transoms	170x44 Transoms	677244
Connector	Butt joint or cross	2)
|D| -	with knobs	
|Ð| 677244	without knobs	
|D| -	with knobs 2)	
|Ð| -	without knobs 2)	...
|F| Reinforcements		

Mounting accessories
⬚ Drilling pattern
|O| 670950 Drilling jig
Step drill

|F| Reinforcements

01. STOP Important: Profiles to be connected must be reinforced (provided that they are designed to be reinforced).



09. OMITTED

13. -> |D| |Ð| 677244 ⓘT-01
Ø 3.0 3
4x Screw
~ DIN 7504 P
ø4.2x19mm
Drill hole = Option

10. ⓘT-01
Cross ⚠
10.+13.
2x Screw
~ SPAX / ASSY
ø5x60mm

08. OMITTED

07. OMITTED

14. ⚠ |X| Gaskets

1) Step drill ~ Blind hole

11. 2) ⓘT-01
Ø 6.5 2
1x Screw
~ DIN 7981
ⓘT-02

12. 2) ⓘT-01
Ø 5.0 1
2x Screw
~ SPAX / ASSY
ⓘT-02
|O| 670950 Drilling jig

2) Butt join STOP For butt joint only, or only 1x on one side for cross joints. 11. 12.

14. ⚠ Sealing: Seal any gasket joints and openings before glazing, even those not shown in this drawing!

14.

Connector

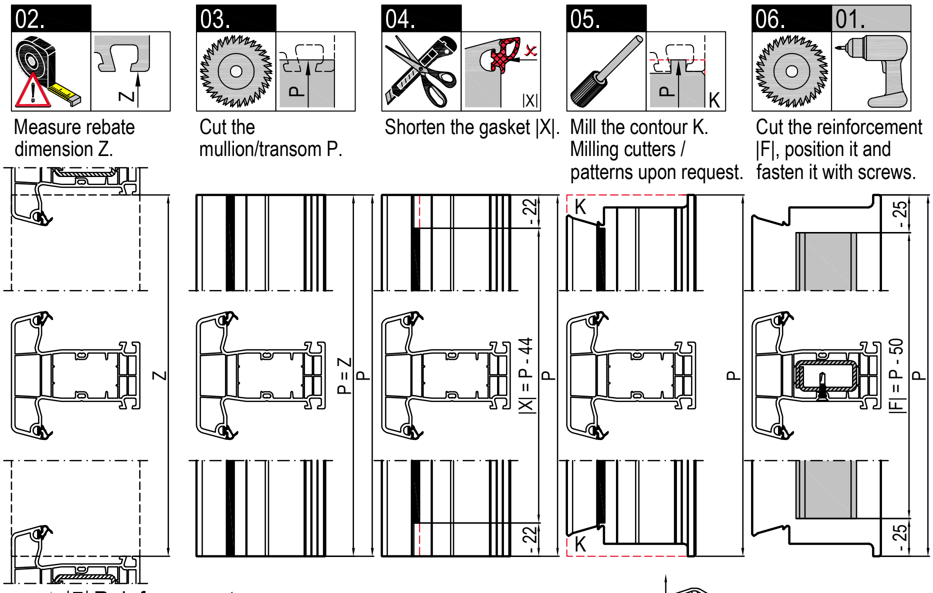
ⓘT-01	Processing	01.-09. ... 14.		
|D| |Ð| 677244	Standard	10.	+13.	Cross ⚠
	Option A	12.	+13.	2)
	Option B	10.+11.	+13.	2)

Profiles

ⓘT-02	screw	11.	12.
Ⓜ Fu(General)	|F|	ø6.3x32mm	ø5x70mm
Ⓜ P(180x46)	|F|	ø6.3x38mm	ø5x80mm

R(frame), Fu(sash reinforced with L or U steel channel), Fo(sash reinforced with O steel channel), P(mullion/transom)

Connector Ⓜ



02. Measure rebate dimension Z.

03. Cut the mullion/transom P.

04. Shorten the gasket |X|.

05. Mill the contour K. Milling cutters / patterns upon request.

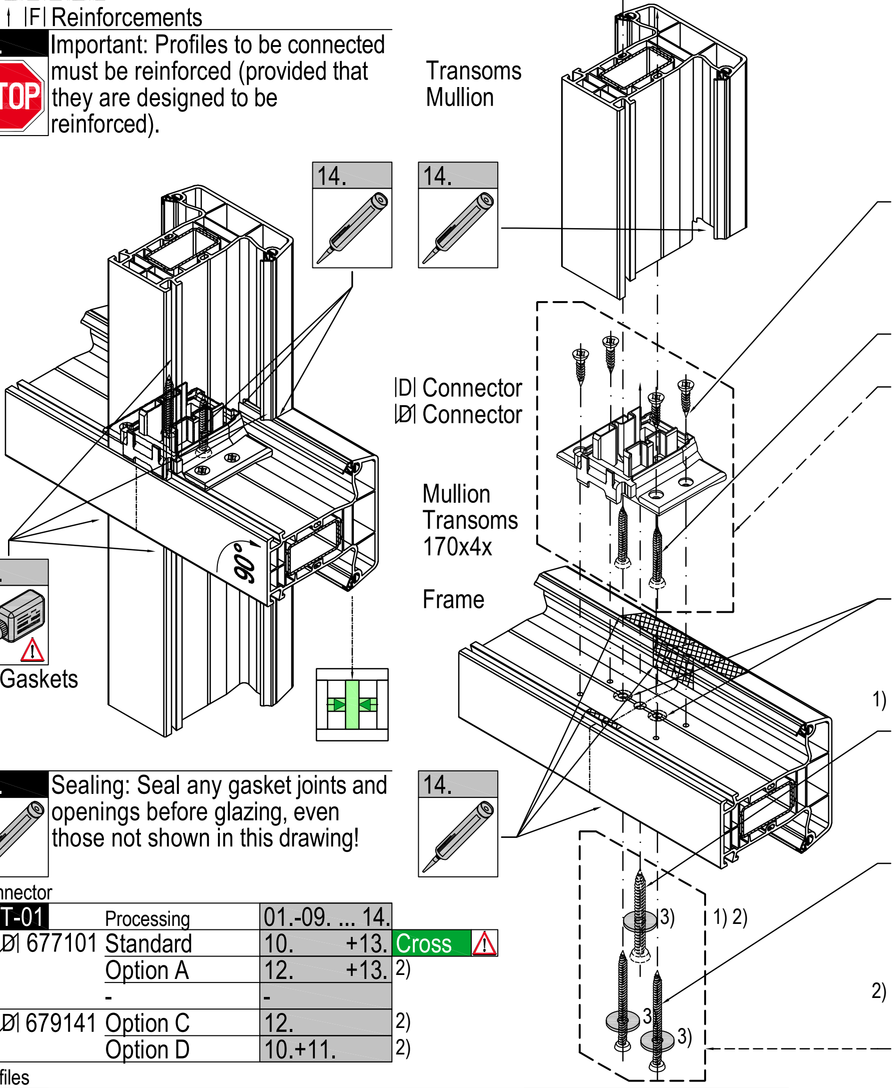
06. 01. Cut the reinforcement |F|, position it and fasten it with screws.

Profile serial
IDEAL 7000
Construction depth
85mm
Mullions/Transoms
170x41 Mullions/Transoms
Connector Butt joint or cross
|D| 677101 with knobs
|Ø| - without knobs
|D| 679141 with knobs 2)
|Ø| - without knobs 2)
|F| Reinforcements
Mounting accessories
⬚ Drilling pattern
|O| 670950 Drilling jig
Step drill

677101
679141 2)

|F| Reinforcements

01. Important: Profiles to be connected must be reinforced (provided that they are designed to be reinforced).



|X| Gaskets

14. Sealing: Seal any gasket joints and openings before glazing, even those not shown in this drawing!

09. OMITTED

13. -> |D| |Ø| 677101 T-01
Ø 3.0 3
4x Screw ~ DIN 7504 P ø4.2x19mm
Drill hole = Option

10. T-01
Cross ⚠ 10.+13.
2x Screw ~ SPAX / ASSY ø5x60mm

08. OMITTED

07. -> |D| |Ø| 6xx1xx with knobs
Ø 10 1)
2x Drill hole
1) Step drill ~ Blind hole

11. 2) T-01
Ø 6.5 2
3)
1x Screw ~ SPAX / ASSY
T-02
|O| 670950 Drilling jig

12. 2) T-01
Ø 5.0 1
3)
2x Screw ~ SPAX / ASSY
T-02
|O| 670950 Drilling jig

2) Butt join
STOP For butt joint only, or only 1x on one side for cross joints.
11.
12.

3) -> powerdur inside
DIN 440 R
11.
12.

Connector

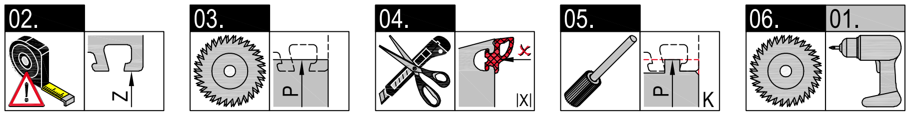
T-01	Processing	01.-09. ... 14.	
|D| |Ø| 677101	Standard	10. +13.	Cross ⚠
	Option A	12. +13.	2)
	-	-	
|D| |Ø| 679141	Option C	12.	2)
	Option D	10.+11.	2)

Profiles

T-02 screw		11.	12.
R(170x02)	3) |F|	ø5x90mm	ø5x100mm
R(070x03, 170x03, 170x81), P(170x44)	3) |F|	ø5x100mm	ø5x110mm
P(170x41)	|F|	ø5x80mm	ø5x90mm

R(frame), Fu(sash reinforced with L or U steel channel), Fo(sash reinforced with O steel channel), P(mullion/transom)

Connector



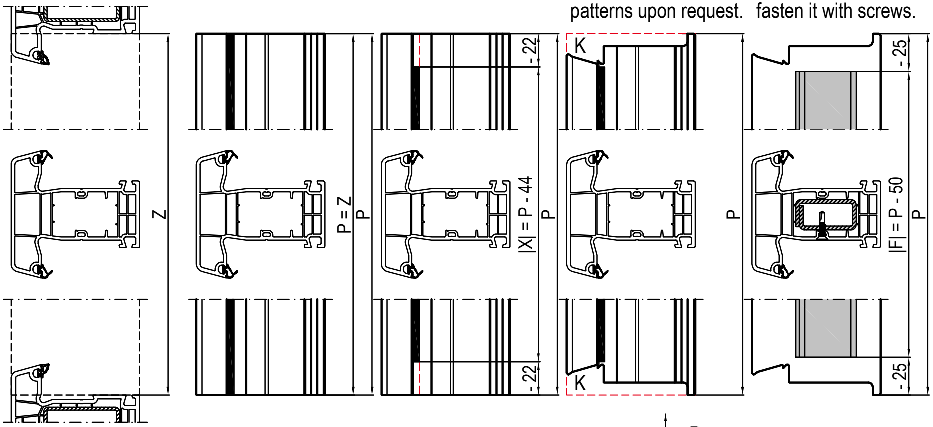
02. Measure rebate dimension Z.

03. Cut the mullion/transom P.

04. Shorten the gasket |X|.

05. Mill the contour K. Milling cutters / patterns upon request.

06. **01.** Cut the reinforcement |F|, position it and fasten it with screws.



Profile serial
IDEAL 7000
Construction depth
85mm
Mullions/Transoms
170x41 Transoms

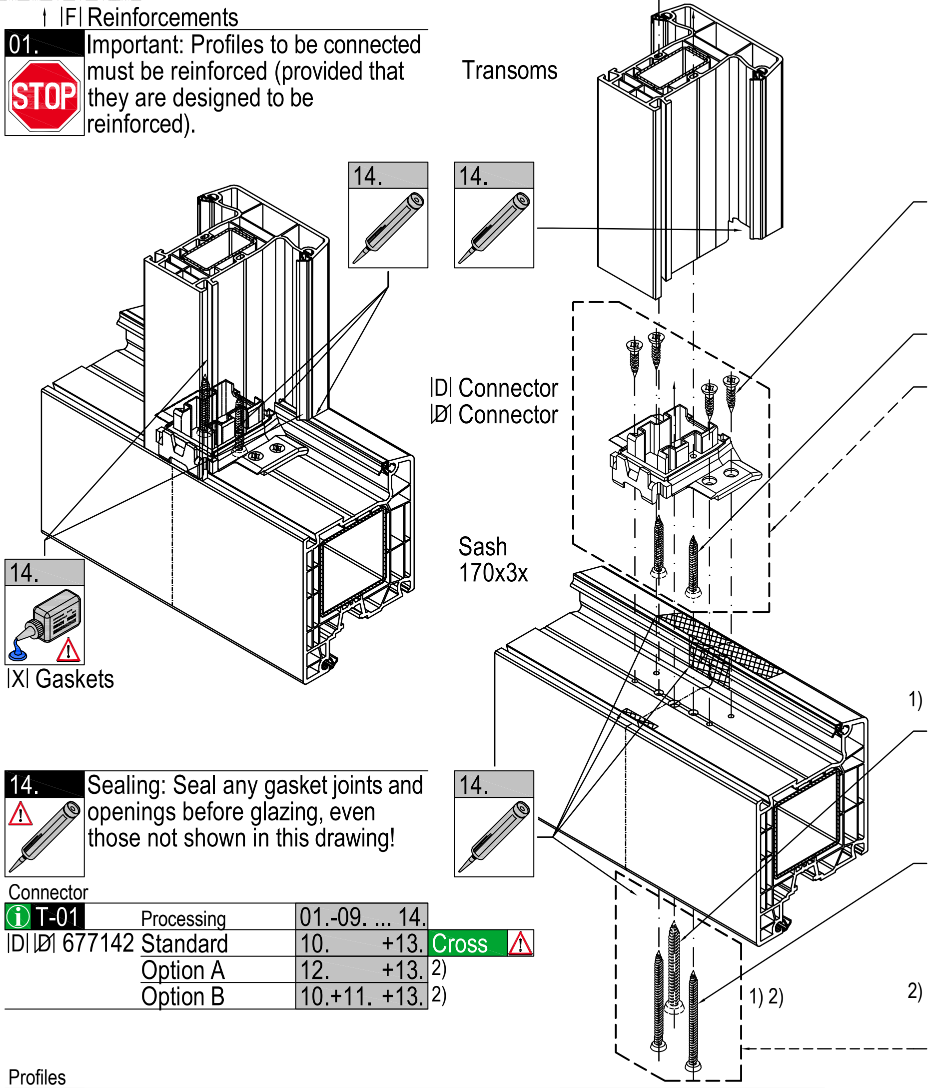
Connector		Butt joint or cross
|D| -	with knobs	
|Ø| 677142	without knobs	
|D| -	with knobs	2)
|Ø| -	without knobs	2)

|F| Reinforcements
Mounting accessories
⋯ Drilling pattern
|O| 670950 Drilling jig
Step drill

677142
2)

|F| Reinforcements

01. Important: Profiles to be connected must be reinforced (provided that they are designed to be reinforced).



14. Sealing: Seal any gasket joints and openings before glazing, even those not shown in this drawing!

Connector

T-01	Processing	01.-09. ... 14.	
|D| |Ø| 677142	Standard	10. +13.	Cross ⚠
	Option A	12. +13.	2)
	Option B	10.+11. +13.	2)

09. OMITTED

13. -> |D| |Ø| 677142 T-01
Ø 3.0 3
4x Screw
~ DIN 7504 P
ø4.2x19mm
Drill hole = Option

10. T-01
Cross ⚠
10.+13.
2x Screw
~ SPAX / ASSY
ø5x60mm

08. OMITTED

07. OMITTED

1) Step drill ~ Blind hole

11. 2) T-01
Ø 6.5 2
1x Screw
~ DIN 7981
T-02

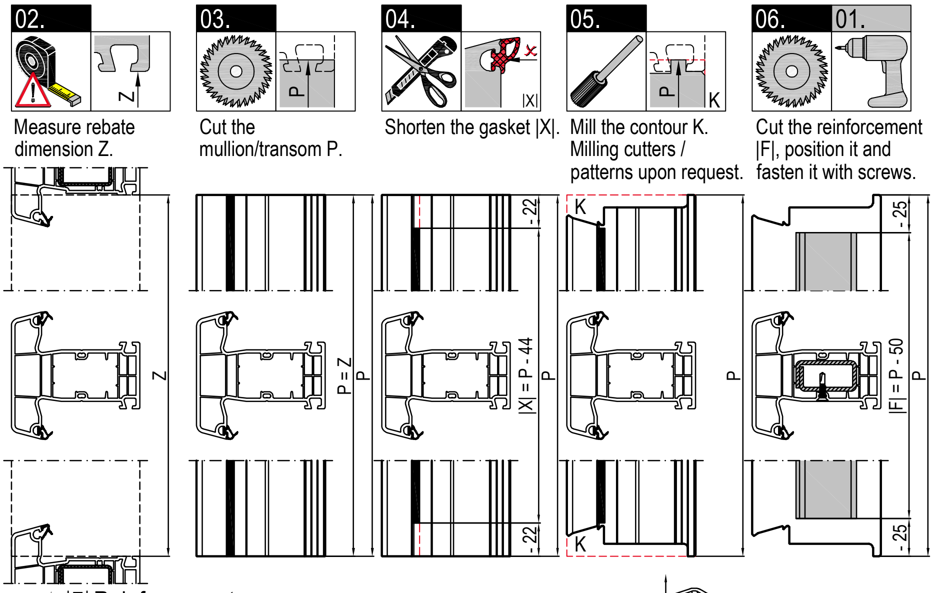
12. 2) T-01
Ø 5.0 1
2x Screw
~ SPAX / ASSY
T-02
|O| 670950 Drilling jig

2) Butt join
STOP For butt joint only, or only 1x on one side for cross joints.
11.
12.

Profiles

T-02	screw	11.	12.
Fo(170x33, 170x35, 170x36)		|F| ø6.3x70mm	ø5x115mm

R(frame), Fu(sash reinforced with L or U steel channel), Fo(sash reinforced with O steel channel), P(mullion/transom)



02. Measure rebate dimension Z.

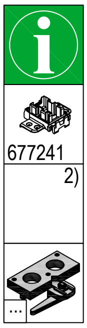
03. Cut the mullion/transom P.

04. Shorten the gasket |X|.

05. Mill the contour K. Milling cutters / patterns upon request.

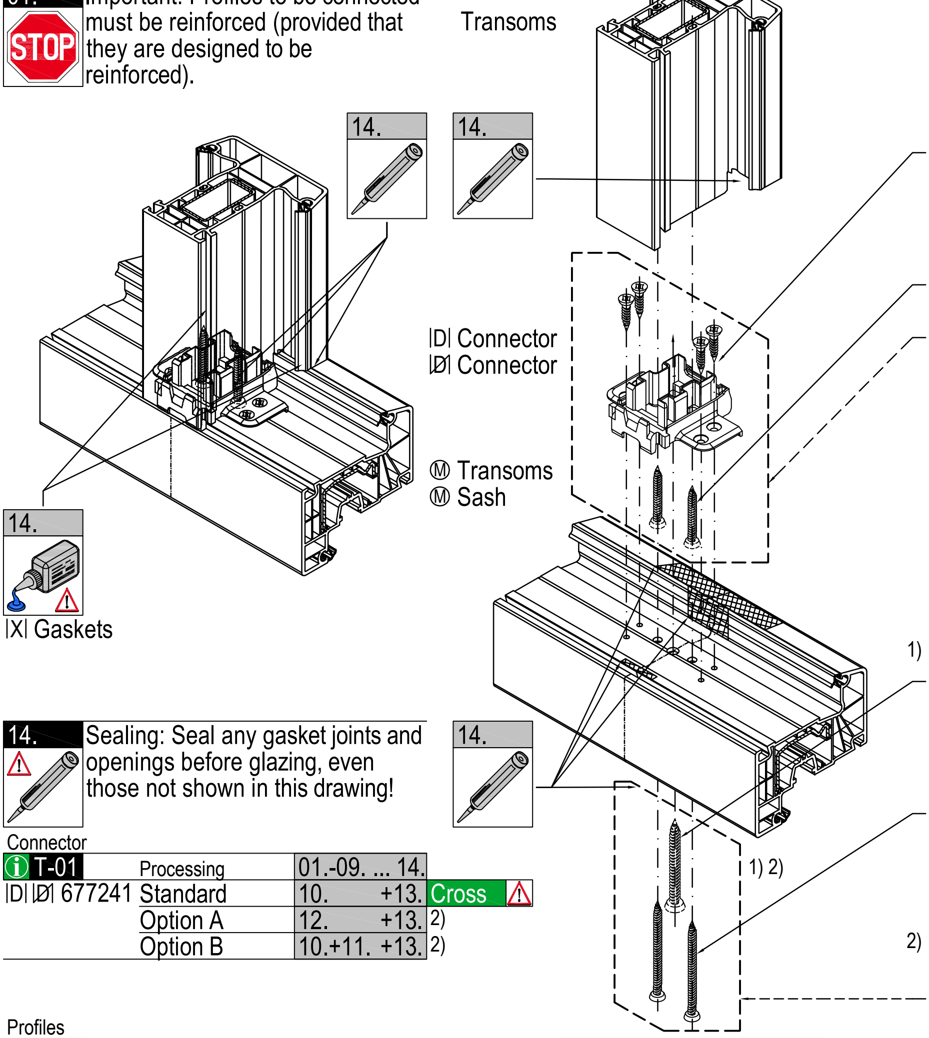
06. 01. Cut the reinforcement |F|, position it and fasten it with screws.

Profile serial
IDEAL 7000
Construction depth
85mm
Mullions/Transoms
170x41 Transoms
Connector Butt joint or cross
|D| - with knobs
|Ø| 677241 without knobs
|D| - with knobs 2)
|Ø| - without knobs 2)
|F| Reinforcements
Mounting accessories
⋯ Drilling pattern
|O| 670950 Drilling jig
Step drill



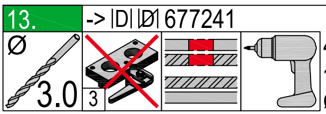
|F| Reinforcements

01. Important: Profiles to be connected must be reinforced (provided that they are designed to be reinforced).



09. OMITTED

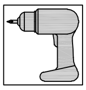
13. -> |D| |Ø| 677241 ⓘT-01



4x Screw
~ DIN 7504 P
ø4.2x19mm

Drill hole = Option

10. ⓘT-01



2x Screw
~ SPAX / ASSY
ø5x60mm

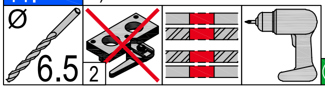
Cross ⚠
10.+13.

08. OMITTED

07. OMITTED

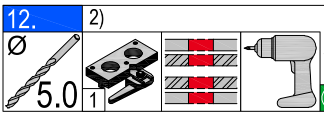
1) Step drill ~ Blind hole

11. 2) ⓘT-01



1x Screw
~ DIN 7981
ⓘT-02

12. 2) ⓘT-01



2x Screw
~ SPAX / ASSY
ⓘT-02

|O| 670950 Drilling jig

2) Butt join

STOP For butt joint only, or only 1x on one side for cross joints.

11.
12.

14. ⚠ Sealing: Seal any gasket joints and openings before glazing, even those not shown in this drawing!

Connector

ⓘ T-01	Processing	01.-09. ... 14.	
|D| |Ø| 677241	Standard	10. +13.	Cross ⚠
	Option A	12. +13.	2)
	Option B	10.+11. +13.	2)

Profiles

ⓘ T-02	screw	11.	12.
Ⓜ Fu(General)	|F|	ø6.3x32mm	ø5x70mm
Ⓜ P(180x46)	|F|	ø6.3x38mm	ø5x80mm

R(frame), Fu(sash reinforced with L or U steel channel), Fo(sash reinforced with O steel channel), P(mullion/transom)

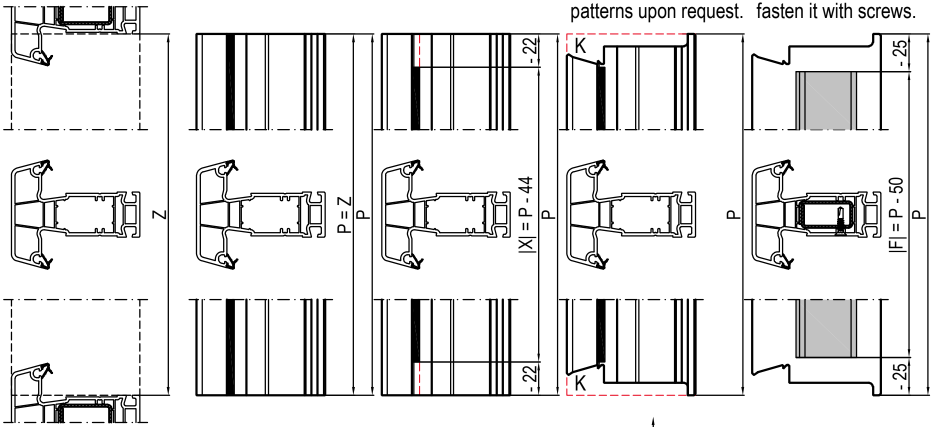
02. Measure rebate dimension Z.

03. Cut the mullion/transom P.

04. Shorten the gasket |X|.

05. Mill the contour K. Milling cutters / patterns upon request.

06. **01.** Cut the reinforcement |F|, position it and fasten it with screws.

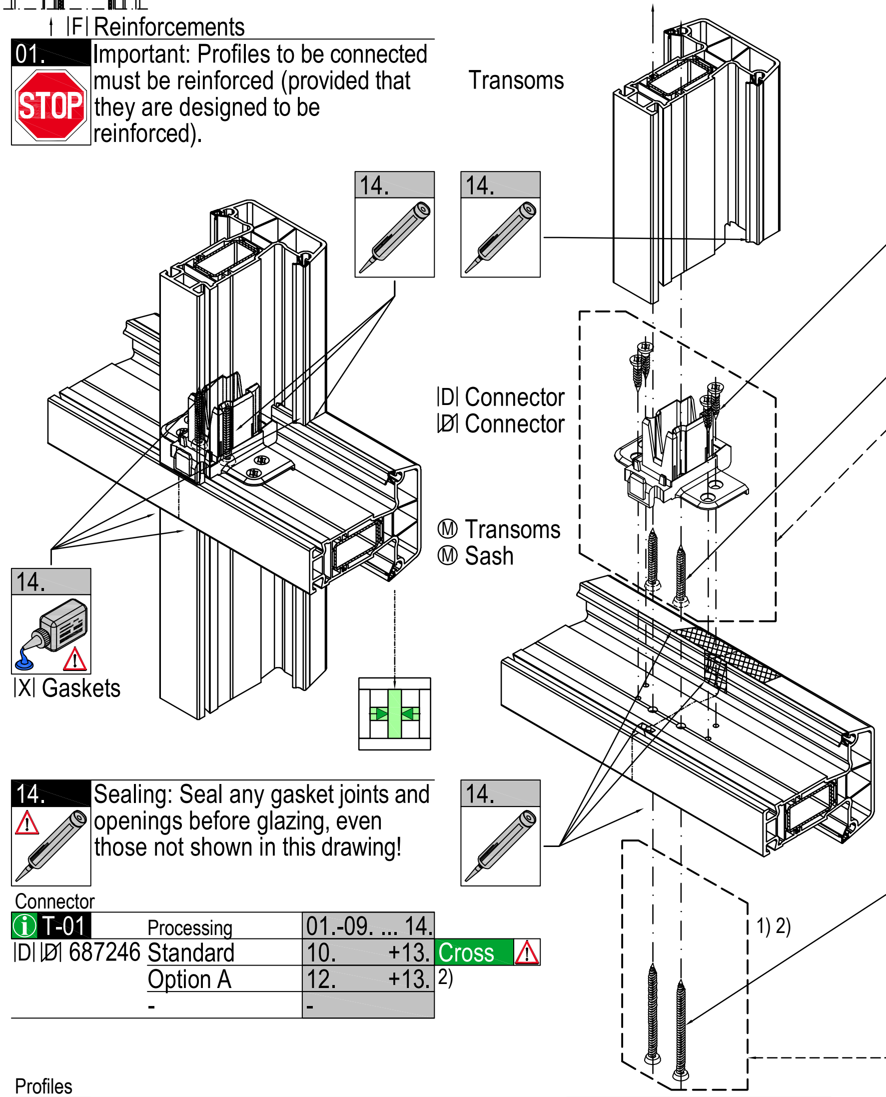


Profile serial	IDEAL 7000
Construction depth	85mm
Mullions/Transoms	180x46 Transoms
Connector	Butt joint or cross
|D| -	with knobs
|Ø| 687246	without knobs
|D| -	with knobs 2)
|Ø| -	without knobs 2)
|F| Reinforcements	
Mounting accessories	
⋯ Drilling pattern	
Step drill	

687246
2)

|F| Reinforcements

01. STOP Important: Profiles to be connected must be reinforced (provided that they are designed to be reinforced).



09. OMITTED

13. -> |D| |Ø| 687246 T-01
Ø 3.0 3
4x Screw ~ DIN 7504 P ø4.2x19mm
Drill hole = Option

10. T-01
Cross ⚠
10.+13.
2x Screw ~ SFS STP ø4.3x55mm

08. OMITTED

07. OMITTED

1) Step drill ~ Blind hole

11. OMITTED

14. ⚠ Sealing: Seal any gasket joints and openings before glazing, even those not shown in this drawing!

12. 2) T-01
Ø 5.0 1
2x Screw ~ SFS STP
T-02

2) Butt join
STOP For butt joint only, or only 1x on one side for cross joints.
11.
12.

Connector

T-01	Processing		
|D| |Ø| 687246	Standard	10. +13.	Cross ⚠
	Option A	12. +13.	2)
	-	-	

Profiles

T-02	screw		11.	12.
Ⓜ Fu(General)		|F|	-	ø4.3x65mm

R(frame), Fu(sash reinforced with L or U steel channel), Fo(sash reinforced with O steel channel), P(mullion/transom)

Connector Ⓜ

Assembly Instruction Threshold Connector (frame on thresholds)

[1] Cut the reinforced frame at the bottom to 90° and weld the frame on three sides: H (element height) -20mm.
[2] Cut the threshold to length: B (element width) -10mm (2x -5mm).
[3] Screw the threshold connector laterally to the threshold.
[4] Screw the threshold connector from above to the threshold [4a], where needed, pre-drill [4b].
[5] Drill through the threshold and the threshold connector.
[6] Place the welded frame (optionally with the already mounted mullion: refer to Assembly Instruction Mullion Coupler) on the threshold with the mounted threshold connector.
[7] Screw the threshold connector to the back of the door frame box.
[8] Screw the frame from below through the threshold and the threshold connector.
[9] Screw the threshold connector to the frame rebate.
[10] Insert the windstop |X| 4xxx91 into the frame (optionally into the mounted mullion: refer to Assembly Instruction Mullion Coupler) and accordingly, insert the windstop |X| 4xxx92 into the sash opposite (Refer to manual Additional Profiles / Accessories, chapter 05 X Gaskets).

Profile series
IDEAL 7000
IDEAL 8000

Construction depth	
85mm	Frame

|F| Reinforcements
▣ powerdur inside

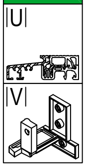
Threshold connector		
|V| 686475 Set	170x02	|F|
|V| 686471 Set	070x03	▣
	170x03 [1]	|F|
	080x05	▣
	180x05	|F|

Aluminium thresholds	
|U| 269060 h= 20mm	85mm
|U| 249058 h= 20mm	120mm

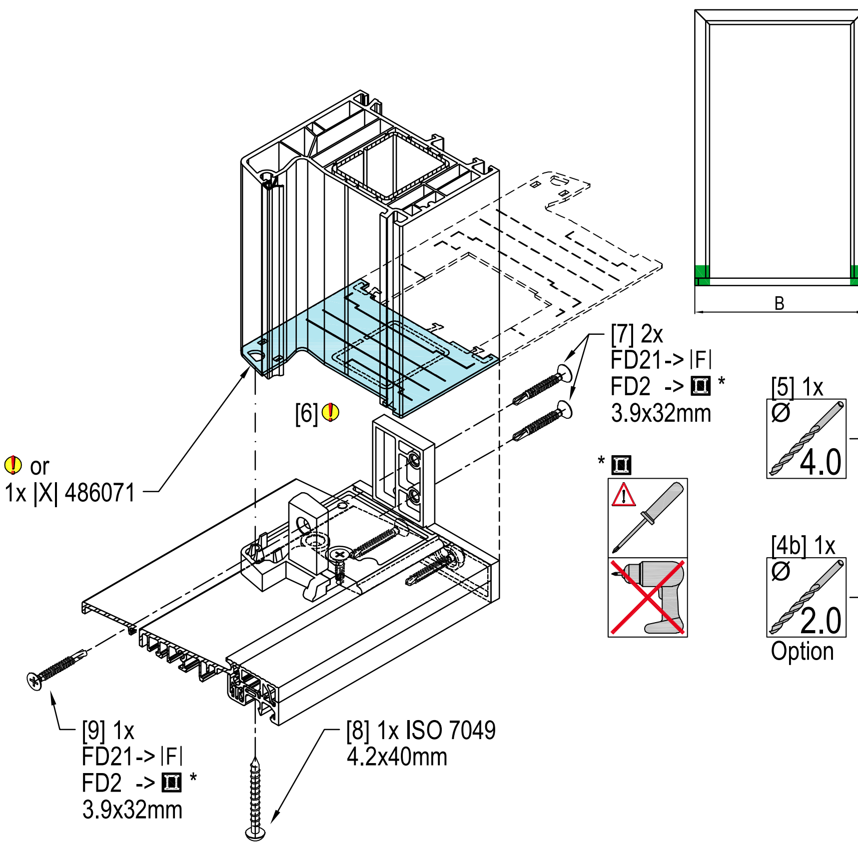
Gaskets	IDEAL 7000
|X| 476091, 446091	|X| 476091
|X| 476092, 446092	|X| 476092
|X| 486071	

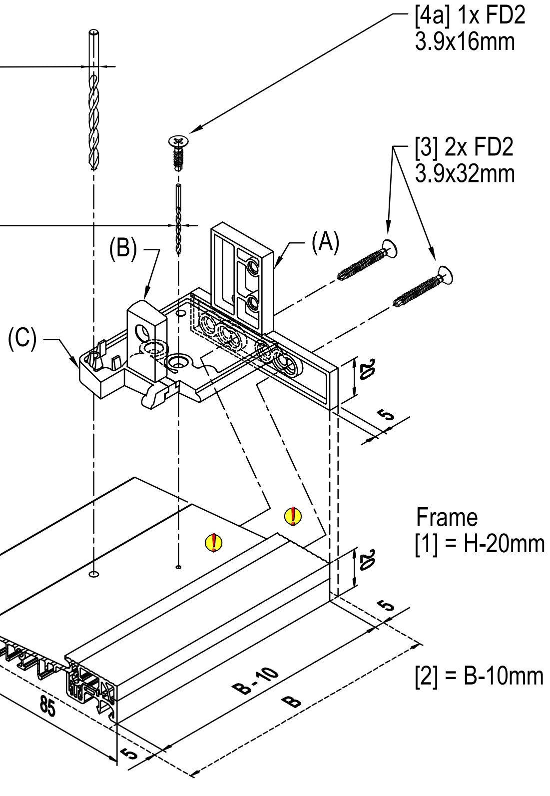
Screws			
2x	3.9x16mm	FD2	
4x	3.9x32mm	FD2	
6x	3.9x32mm	FD21	-> |F|
		FD2	-> ▣
2x	4.2x40mm [2]		

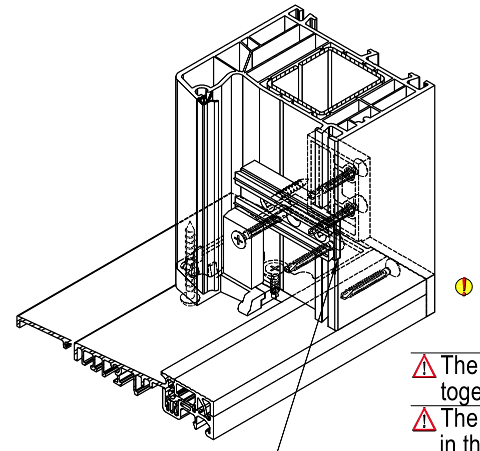
[1] Example
[2] ISO 7049



1x (l+r)







[10] 1x |X| 476091, 446091
IDEAL 7000: [10] 1x |X| 476091 ⚠

⚠ The threshold connector consists of three single parts, (A)-(B)-(C), that must be stuck together before assembly.

⚠ The threshold connector may only be used in connection with admissible reinforcements in the profiles! ~ |F| or ▣

⚠ Seal the thresholds laterally, and any joints, openings, drill-holes etc. with silicone rubber! ~ !

Individual Handling
Thresholds/Doors

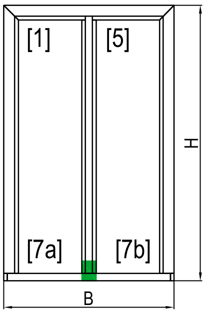
Threshold connector 686471, 686475

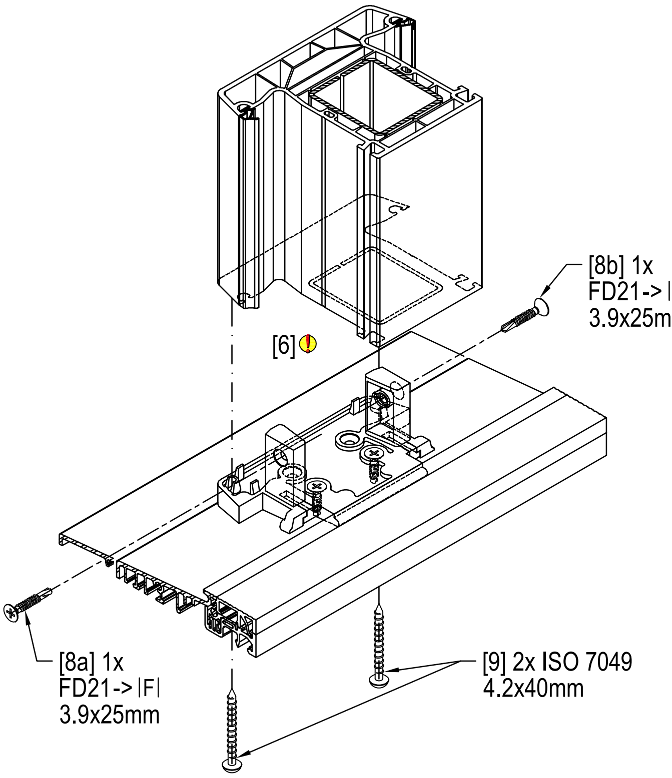
Assembly Instruction Mullion Coupler (mullion on thresholds)
[1] Prepare the frame and the threshold connector. Refer to Assembly Instruction Threshold Connector.
[2] Cut the reinforced mullion profile at the bottom to 90°: H (element height) -20mm. Observe the deduction dimensions for the top: see the manual "Handling", chapter 09 H Mechanical Connections between mullion and frame.
[3] Screw the mullion coupler from above to the threshold [3a], where needed, pre-drill [3b].
[4] Drill from above through the threshold. Drill through the screw channels in the threshold connector.
[5] Mount the mullion with the coupler into the top crosspiece of the welded frame: Refer to chapter 09 H Mechanical Connections for further information.
[6] Place the welded frame with the already mounted mullion on the threshold with the mounted mullion coupler.
[7] Screw the frame to the threshold connector [7a] + [7b]. Refer to Assembly Instruction Threshold Connector.
[8] Screw the mullion coupler to the mullion rebate on the left [8a] and right [8b] side.
[9] Screw the mullion from below through the threshold and the mullion coupler.
[10] (Not applicable in the case of fixed elements) Insert the windstop |X| 4xxx91 into the mullion and accordingly, insert the windstop |X| 4xxx92 into the sash opposite (Refer to manual Additional Profiles / Accessories, chapter 05 X Gaskets).

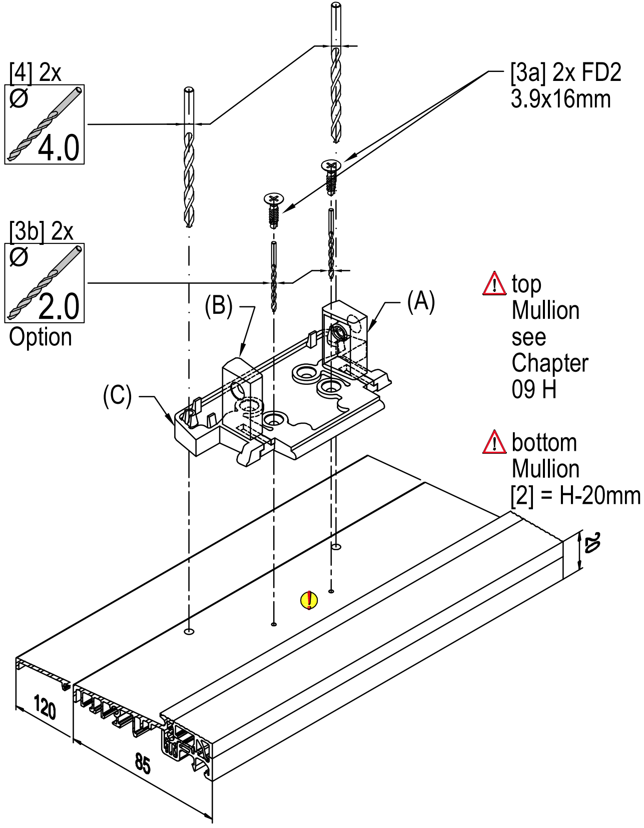
Profile series		
IDEAL 7000		
IDEAL 8000		
Construction depth		
85mm	Mullion	
|F| Reinforcements		
Mullion coupler		
|M| 686473 Set	170x44 1)	|F|
	180x44	|F|
Aluminium thresholds		
|U| 269060 h= 20mm	85mm	
|U| 249058 h= 20mm	120mm	
Gaskets	IDEAL 7000	
|X| 476091, 446091	|X| 476091	
|X| 476092, 446092	|X| 476092	
Screws		
2x 3.9x16mm FD2		
2x 3.9x25mm FD21		-> |F|
2x 4.2x40mm 2)		

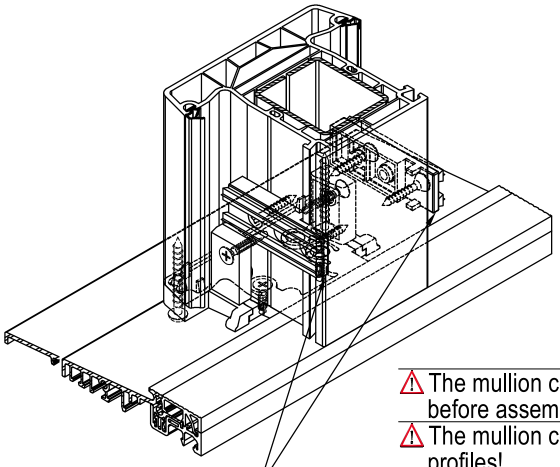
1) Example
2) ISO 7049

|U|
|M|







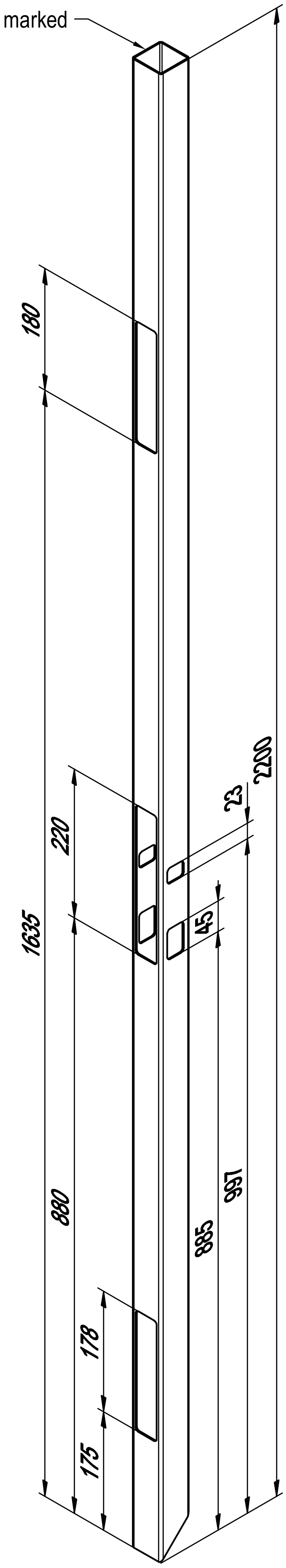


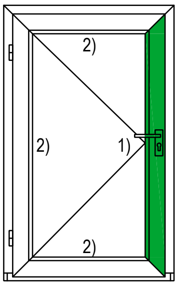
[10] 2x |X| 476091, 446091
IDEAL 7000: [10] 2x |X| 476091 ⚠

⚠ The mullion coupler consists of three single parts, (A)-(B)-(C), that must be stuck together before assembly.

⚠ The mullion coupler may only be used in connection with admissible reinforcements in the profiles! ~ |F|

⚠ Seal the thresholds laterally, and any joints, openings, drill-holes etc. with silicone rubber! ~



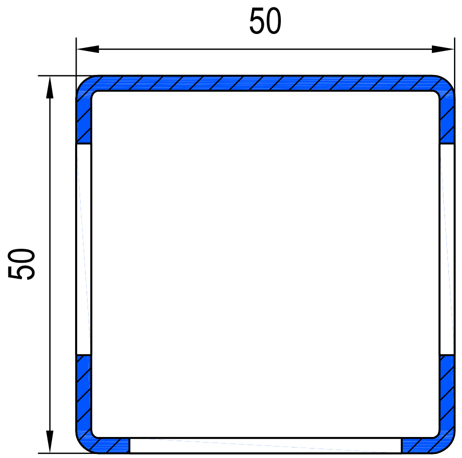


Profile series	Construction depth	Sash	
IDEAL 4000	70mm	140x38	|F|
IDEAL 7000	85mm	170x33	|F|
		170x35	|F|
		170x39	|F|

|F| Reinforcements

1) Lock side

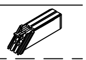
2) Hinge side



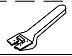
|F| 229137 1) Lock side
3x punched-out
s=2.0mm 14.4/14.4cm4
l= 2200mm, marked in blue
universally applicable

|F| 229135 2) Hinge side

Weldable corner connector
|E| 640038



Auxiliary parts
|O| 640938 -> |E|



Compatible residential door hardware: Many of the customary and commercially available standard fittings for residential doors, distributed by the recognized hardware manufacturers, can be used. For detailed descriptions of the different fitting types, please refer to the corresponding hardware manual. Check the fittings' compatibility in any case! In case of doubt, please contact your hardware manufacturer!

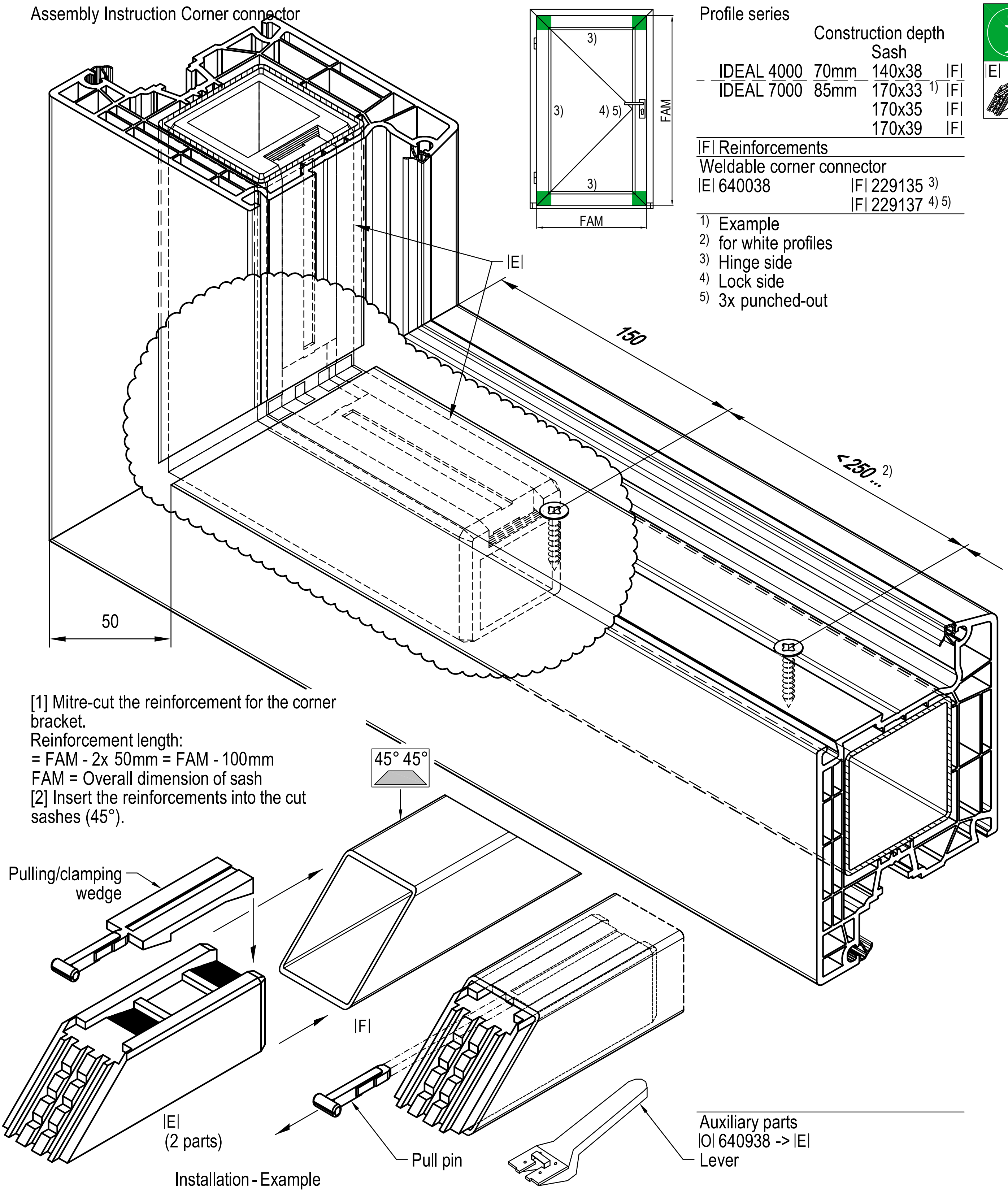
Note: The false mullion possibly needs to be cut!

Examples for admissible hardware (subject to change, errors excepted!):

-> 3x
FUHR ->855GL
GU ->Secury SH2; SH4; DR
KFV / Siegenia AUBI ->B001:e.g. AS 2300; AS 2300
ROTO ->V02/03:e.g. MVZ 500 V3; MVZ 400 V3 / 752 upper dimension
WINKHAUS ->F1880/M; STV-F1660/D 92/... M2; STV-F1607/D 92/... B2

Residential door hardware: reinforcement 229137

Assembly Instruction Corner connector



Profile series

	Construction depth	Sash	
IDEAL 4000	70mm	140x38	|F|
IDEAL 7000	85mm	170x33 1)	|F|
		170x35	|F|
		170x39	|F|

|F| Reinforcements

Weldable corner connector

|E| 640038	|F| 229135 3)
	|F| 229137 4) 5)

|E|

1) Example
2) for white profiles
3) Hinge side
4) Lock side
5) 3x punched-out

[1] Mitre-cut the reinforcement for the corner bracket.
Reinforcement length:
= FAM - 2x 50mm = FAM - 100mm
FAM = Overall dimension of sash
[2] Insert the reinforcements into the cut sashes (45°).

Installation - Example

Auxiliary parts
|O| 640938 -> |E|
Lever

[3] Insert the corner bracket (consisting of pulling/clamping wedge and connector) into the reinforcement located in the profile.
[4] The corner connector must be flush with the sash's cutting edge.

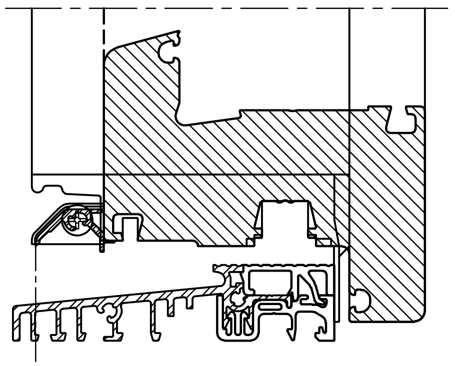
[5] Position and fix the corner bracket on both sides in the reinforcement. Clamp the pulling/clamping wedge with the lever 640938 (give a jerk to the pull-pin) to make sure that the bracket is very tight. The pin should break off due to the jerk.
[6] Weld the sash profiles including the bracket and the reinforcement.

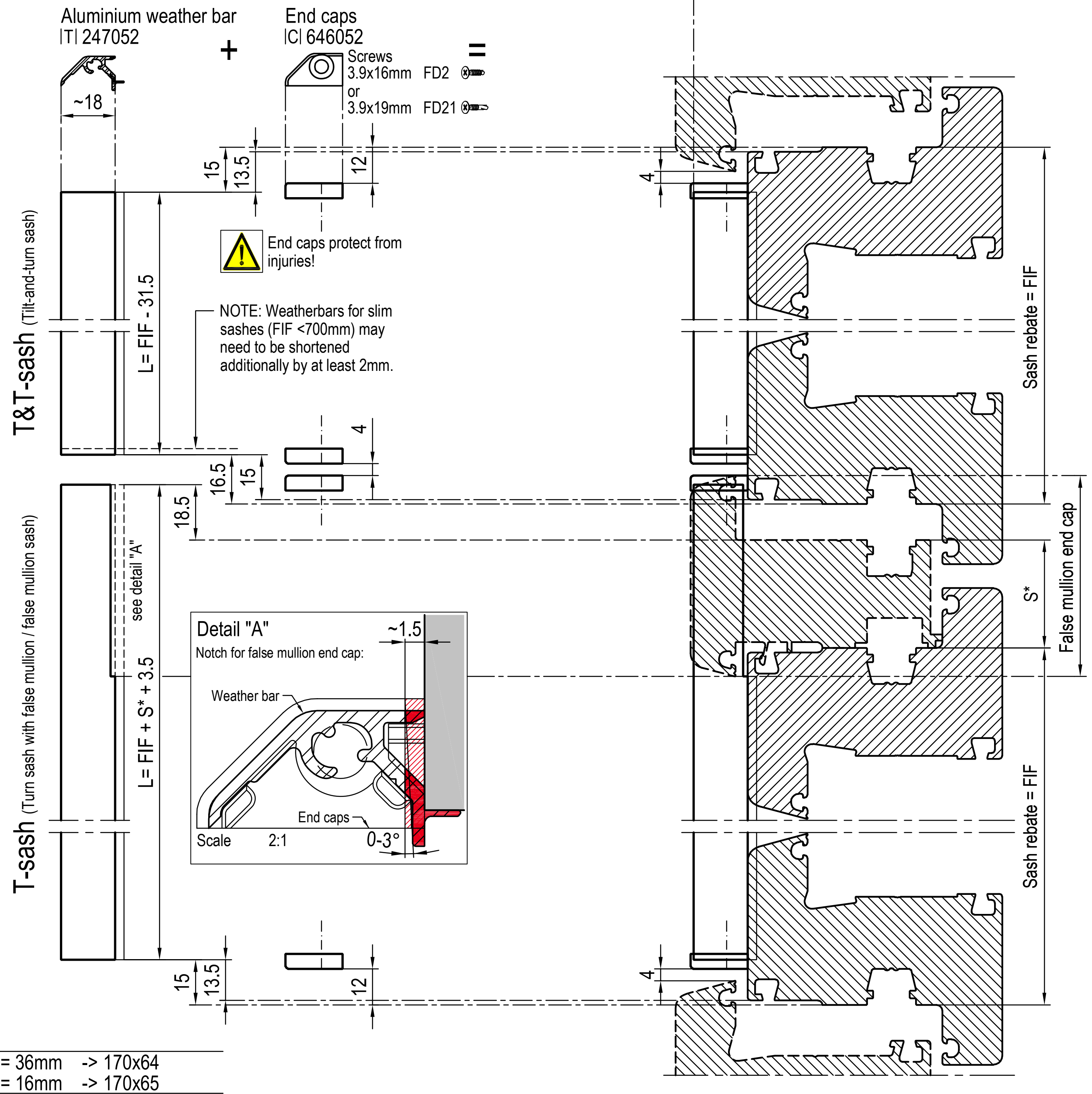
Assembly instruction Weather bars
Single-sash window (without drawing)
[1] Cut the weather bar: L= FIF - 30
[2] Screw the end caps: FD2 3.9x16mm or FD21 3.9x19mm.
[3] Install the weather bar incl. the end caps.
[4] Seal all lateral joints and openings.

Double-sash window with false mullion (French Casement) (see drawing / example)
[1] Cut the weather bar of the turn and tilt&turn sash: see drawing!
[2] Screw the end caps: FD2 3.9x16mm or FD21 3.9x19mm.
[3] Notch the weather bar of the turn sash incl. the end caps in the area of the false mullion end cap by approximately 1.5mm (detail "A").
[4] Install the weather bar incl. the end caps.
[5] Seal all lateral joints and openings around the false mullion end caps.

Profile series
IDEAL 7000
Construction depth
85mm

|T|





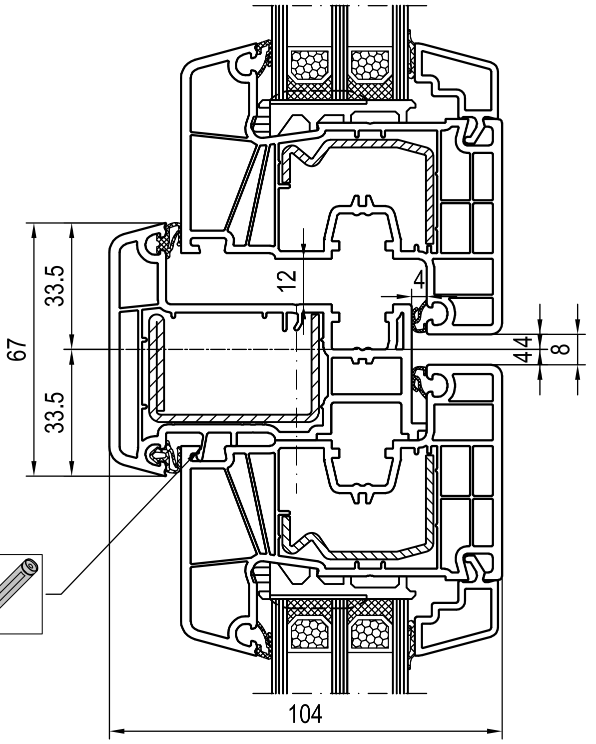
End caps protect from injuries!

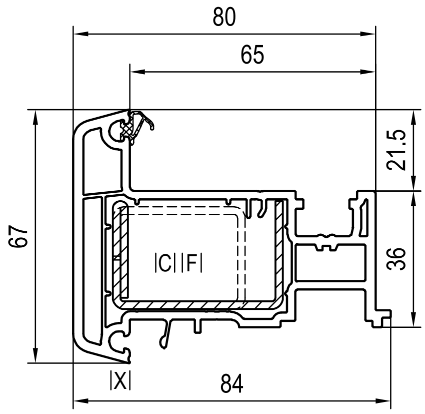
NOTE: Weatherbars for slim sashes (FIF <700mm) may need to be shortened additionally by at least 2mm.

*S = 36mm -> 170x64
*S = 16mm -> 170x65

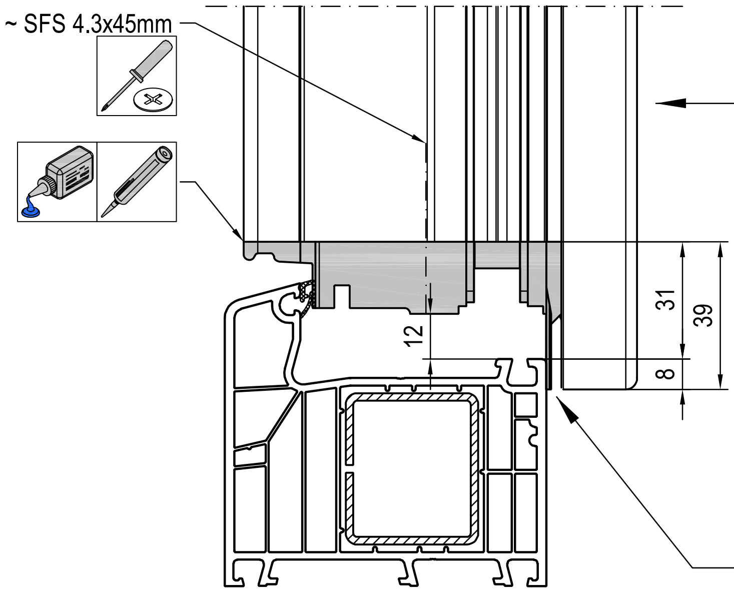
(Example with) frame - sash 170x20 - false mullion 170x64 - false mullion end cap 670064 - threshold 269060

Horizontal section





Vertical section



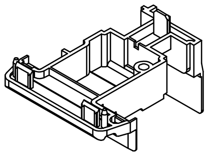
Cutting length of false mullion: sash height - 78mm

170x64 False mullion

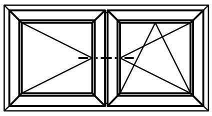
|X| 447340, 449340
Gaskets

TPE
|X| 447042, 449042

|F| 229029 s=1.25mm 2.5/1.7cm4
|F| 229030 s=2.0mm 3.7/2.5cm4
|F| 289066 s=2.0mm 7.7/2.0cm4
Reinforcements

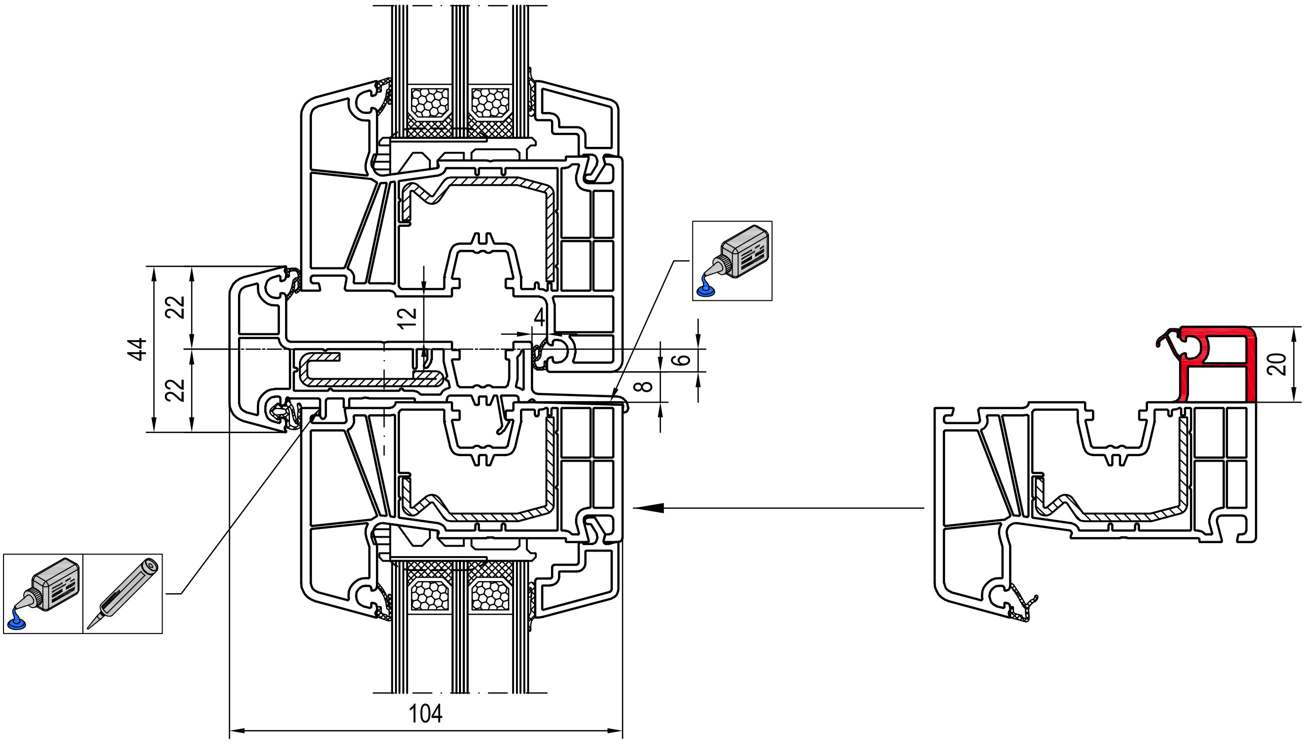


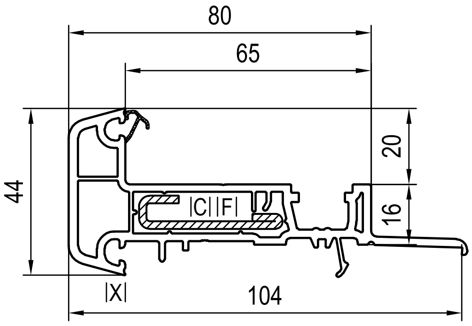
|C| 670064
End caps



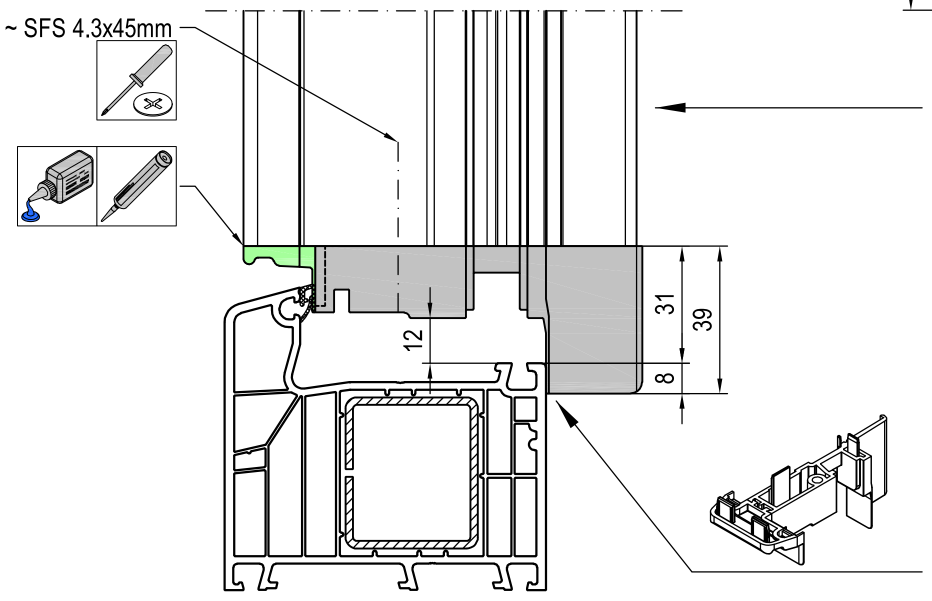
(Example with) frame 170x03 - sash 170x20

Horizontal section





Vertical section



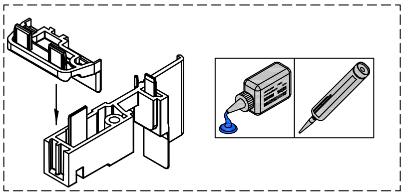
Cutting length of false mullion: sash height - 78mm

170x65 False mullion

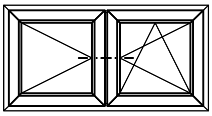
TPE

|X| 447340, 449340 |X| 447042, 449042
Gaskets

|F| 259080 s=2.0mm 1.8/0.08cm4
Reinforcements



|C| 670365 + |C| 670465
End caps



(Example with) frame 170x03 - sash 170x20