PVC WINDOWS



WIŚNIOWSKI
GATES | WINDOWS | DOORS | FENCES

WINDOWS
PRIMO 76

Intended use: PVC windows meeting the requirements for energy efficient and passive buildings are intended for use in residential housing, industrial buildings, and public utility facilities.

U
0.79
W/m² x K

THERMAL INSULATION

The heat transfer coefficient of the entire window from 0.79 W/m²K for the PRIMO 76 windows. The values apply to window size 1,230 x 1,480 [mm].

RC2

SAFETY

Intruders? Not in a house furnished with WIŚNIOWSKI windows. Their precision-made structure ensures burglary resistance.

7

WARRANTY

WIŚNIOWSKI windows are covered by a 7-year warranty. This is just to be on the safe side, but we want you to know that you can count on us.

PVC WINDOWS CAN BE GROUPED AS FOLLOWS:

- according to the number of leafs: single-leaf, double-leaf, three-leaf, multi-leaf,
- according to the opening method: fixed windows, turn-only (side hung; R) windows, tilt-only (awning/hopper; U) windows, turn and tilt (RU) windows, tilt and turn windows, tilt and slide patio door, parallel-stop-slide.



PRIMO 76

WINDOW CHARACTERISTICS:

- Class A 5-chamber profiles, installation depth 76 [mm]
- Non-flush with the frame – straight
- Invisible effect (seam) profile joint, multi-chamber structure ensuring high thermal and acoustic insulation
- An arrangement of three gaskets (outer, central, and inner) perfectly insulates from noise, humidity, and cold
- Fitted as standard is a two-chamber glazing unit 4/18/4/18/4 Ug=0.5 W/m^{2}K in acc. with EN 673, glazing bead 107.278, optionally a panel 24-44 [mm] thick infilled with extruded polystyrene XPS
- Glass units 24 [mm] to 48 [mm] thick can be used
- Reinforcement made of galvanized steel: frame 1.5 [mm] 113.025, steel box section, white leaf 1.5 [mm] 113.292, film coating 1.75 [mm] 113.294.2, extruded gasket with a profile
- Bonded gasket available in the following colours – black, grey, caramel. Dedicated for the colour of the film coating
- Profile core – two-sided film coating: caramel, brown, grey, white; single-side film coating: white
- Sound insulation Rw=33(-2,-7)dB
- Thermal insulation of the reference turn and tilt (RU) window, dimensions 1.23 [m] x 1.48 [m] RU: Uw = 0.79 W/ m^{2}K with a triple glazed unit Ug = 0.5 W/m^{2}K
- Burglary resistance up to RC2 class,
- The PRIMO 76 window is available: with a low threshold (PRIMO 76 with a low threshold), as PRIMO PSK-76 tilt and slide patio door

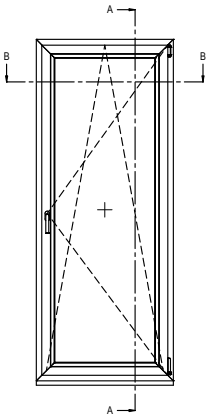
STANDARD WINDOW ACCESSORIES

- drive gear with a lifting mishandling device and leaf lifter,
- all moving rollers i.S.,
- alloy strikers; additionally, the U, R and RU leaf features two anti-burglary strikers,
- in RU leafs, bottom striker plate as standard,
- microventilation in scissor stay,
- surface hinges with contact pressure adjustment in three dimensions,
- anti-draught lock in RU leafs,
- aluminium handle,
- infilled bottom hardware groove opening frame,
- the standard glass unit for the PRIMO 76 system is 4/18/4/18/4 Ug=0.5 W/m^{2}K in acc. with EN-673,
- transport and installation bar,
- band handles for handling windows,
- installation anchors,
- system widening 30 [mm] in white for balcony windows with a low threshold,
- transport slides,
- leaf lifter used for all leafs with widths exceeding 700 [mm]

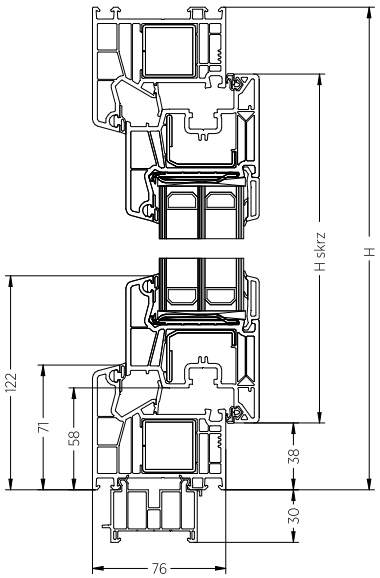
CROSS-SECTIONS AND VIEWS

Single-leaf, turn and tilt PRIMO 76 window, window leaf

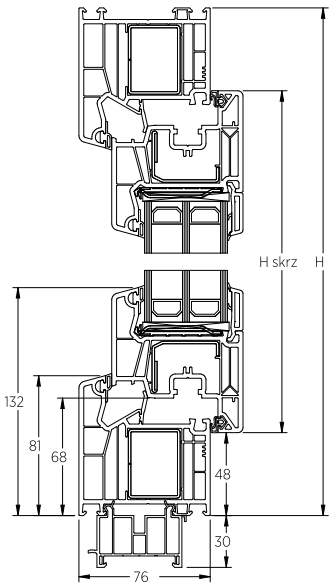
As seen from the inside



Vertical cross-section

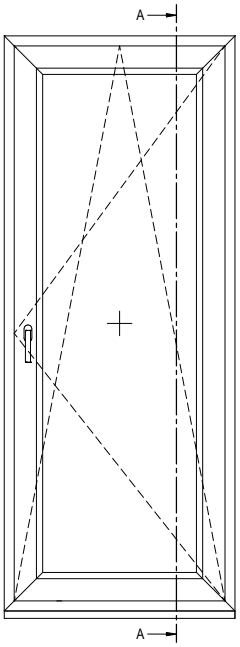


Vertical cross-section tall frame

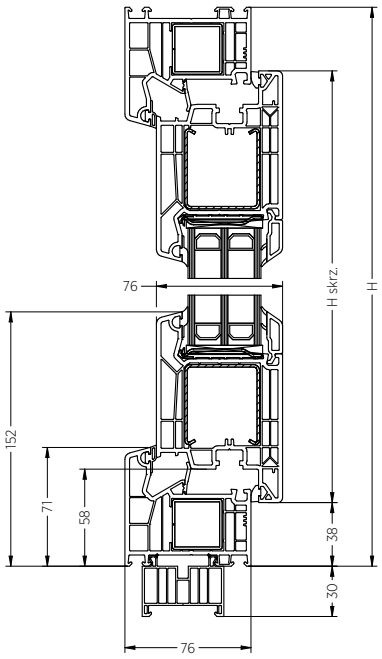


Single-leaf, turn and tilt PRIMO 76 window, wide leaf

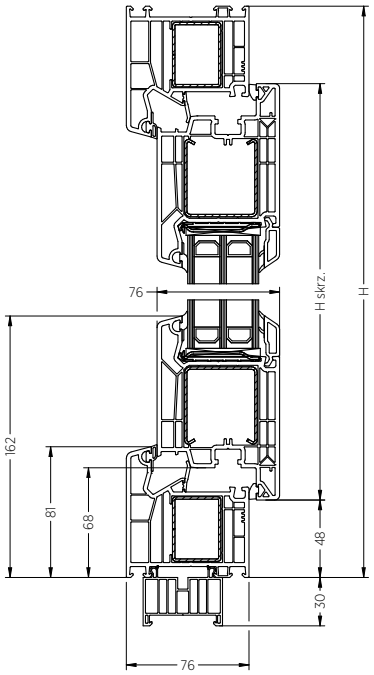
As seen from the inside



Vertical cross-section

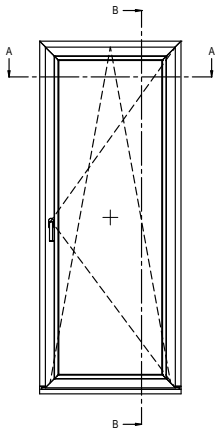


Vertical cross-section tall frame

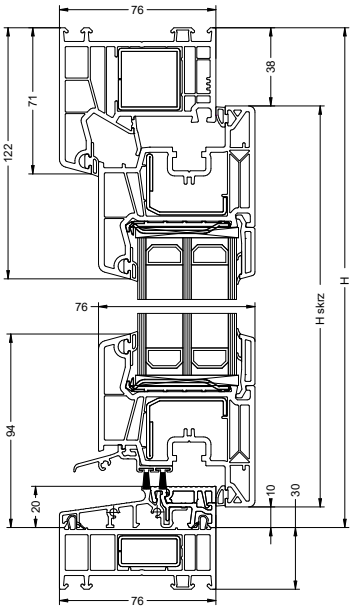


Single-leaf turn and tilt PRIMO 76 window with a low threshold

As seen from the inside

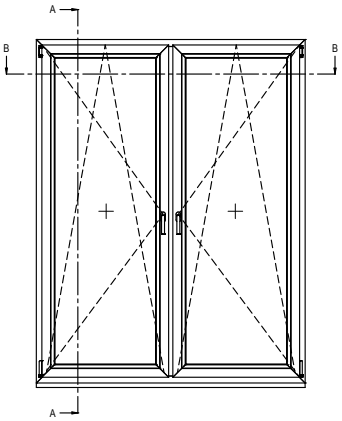


Vertical cross-section

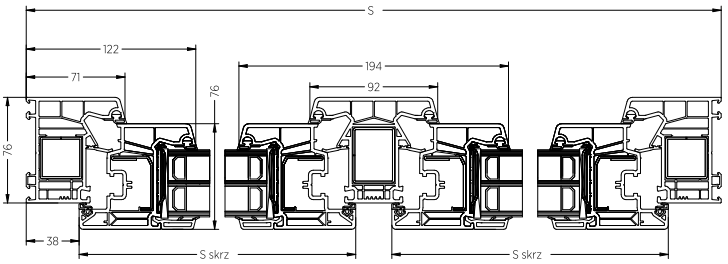


Double-leaf PRIMO 76 window with a fixed mullion

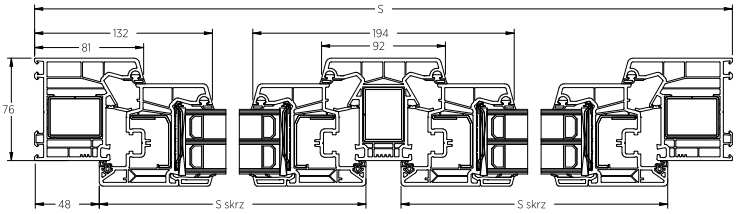
As seen from the inside



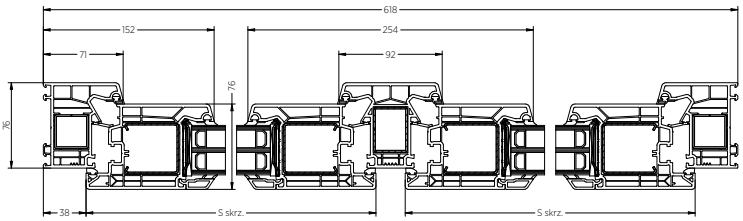
Horizontal cross-section, window leaf, standard mullion



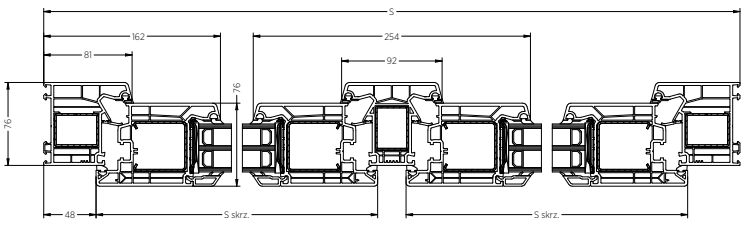
Horizontal cross-section, tall frame, window leaf, standard mullion



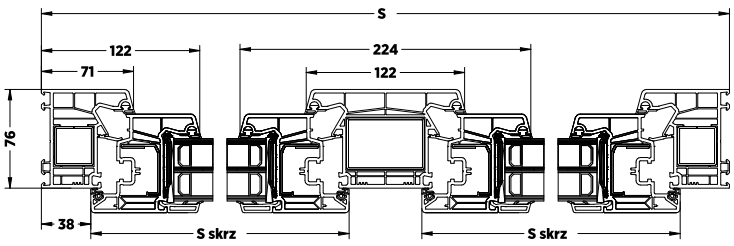
Horizontal cross-section, wide leaf, standard mullion



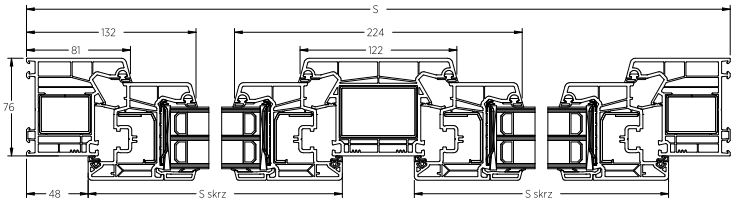
Horizontal cross-section, tall frame, wide leaf, standard mullion



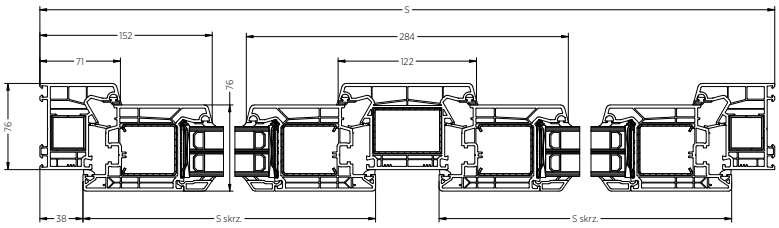
Horizontal cross-section, window leaf, wide mullion



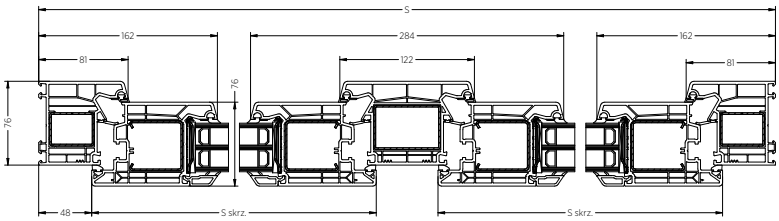
Horizontal cross-section, tall frame, window leaf, wide mullion



Horizontal cross-section, wide leaf, wide mullion

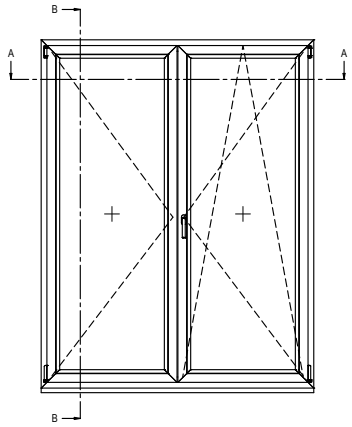


Horizontal cross-section, tall frame, wide leaf, wide mullion

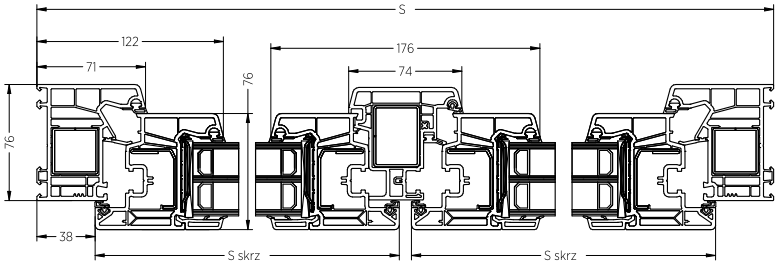


Double-leaf PRIMO 76 window with a movable mullion

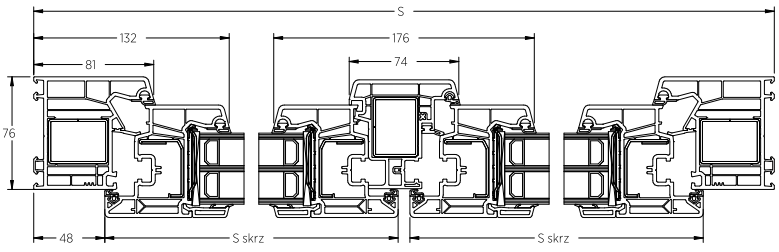
As seen from the inside



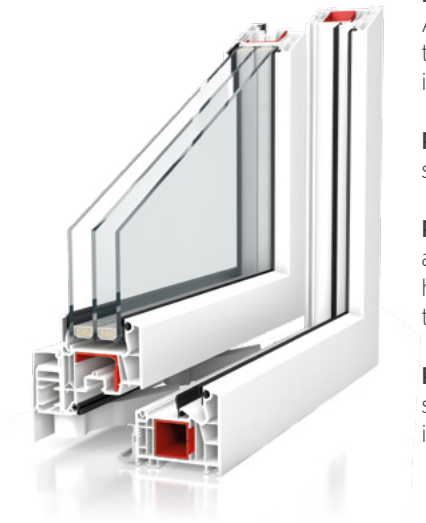
Horizontal cross-section



Horizontal cross-section, tall frame



PRIMO PSK-76



PARALLEL SLIDING DOOR
Available in the PSK-S, PSK-Z, and PSK-PAS versions. The running system track is installed in the bottom section of the opening frame, which makes it visible to the user. The carriages are installed on the inner side of the sliding leaf.

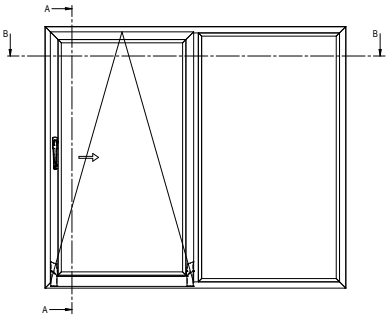
PSK-S STANDARD VERSION – manually operated, parallel tilt and slide door without motor support.

PSK-Z AUTOMATIC VERSION – automated, parallel tilt and slide door. This system features an additional control function "in the handle," which makes it easier to tilt, slide, and close even very heavy leafs, and the integrated catch system enables easy transition between the sliding and tilting position.

PSK-PAS PARALLEL-STOP-SLIDE VERSION – the PSK-PAS system enables three functions: sliding, latching, and gap ventilation – parallel action gap up to 6 [mm] from the frame. The built-in damper stores energy and allows the sliding door to be easily closed shut.

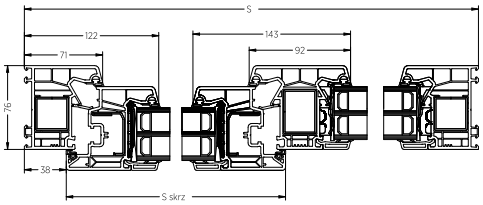
PRIMO 76 patio window – PSK fix in the frame – Scheme A

As seen from the inside

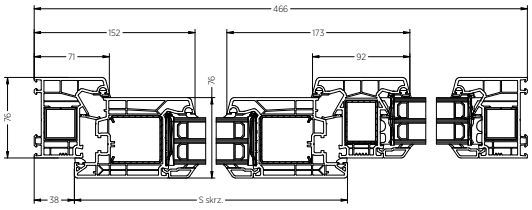


Horizontal cross-section

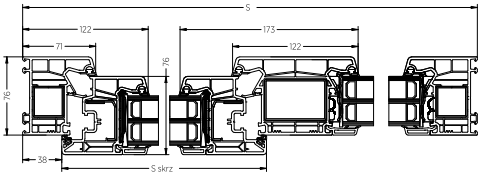
Window leaf, standard mullion



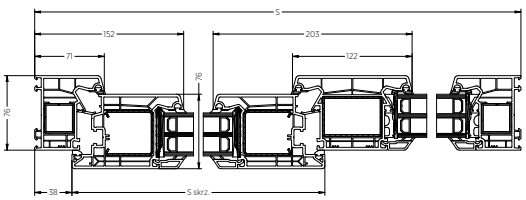
Wide leaf, standard mullion



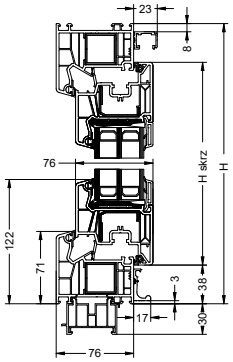
Window leaf, wide mullion



Wide leaf, wide mullion

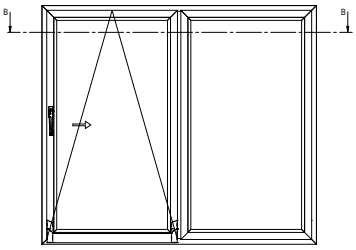


Vertical cross-section



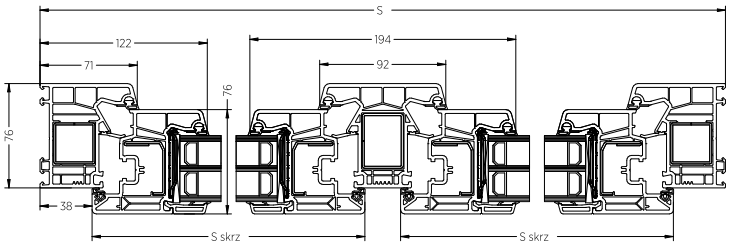
PRIMO 76 patio window – PSK fix in the leaf – Scheme A

As seen from the inside

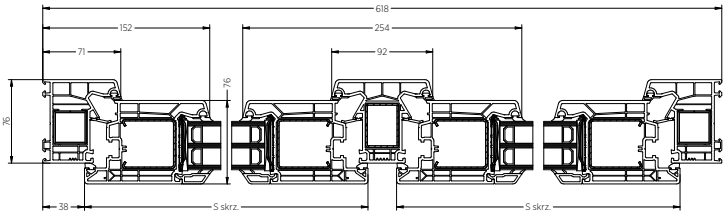


Horizontal cross-section

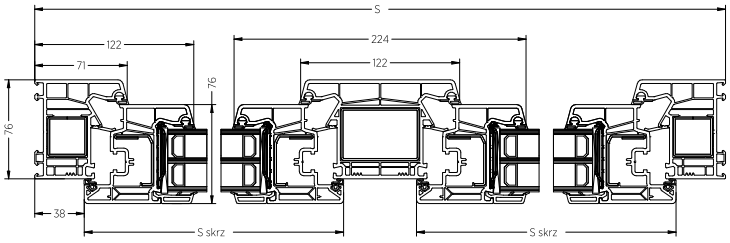
Window leaf, standard mullion



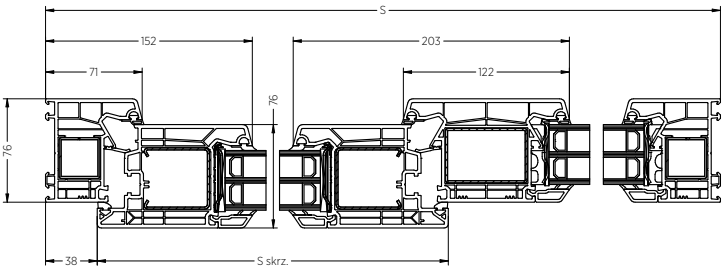
Wide leaf, standard mullion



Window leaf, wide mullion

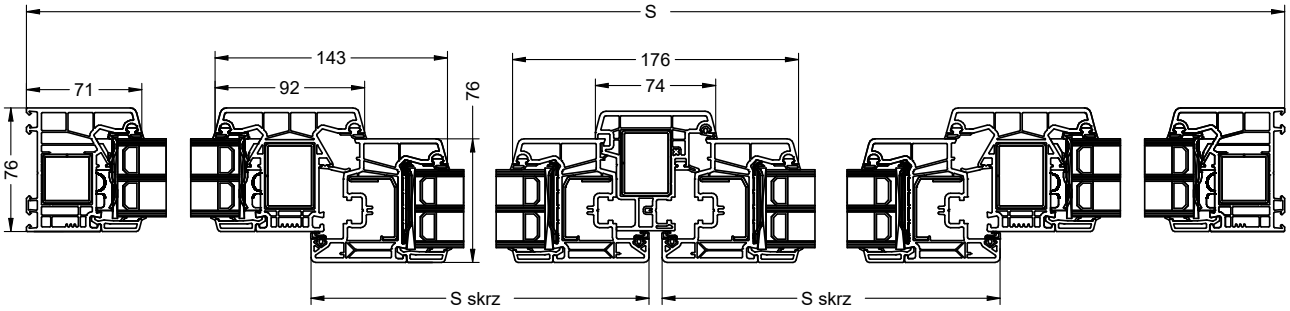


Wide leaf, wide mullion

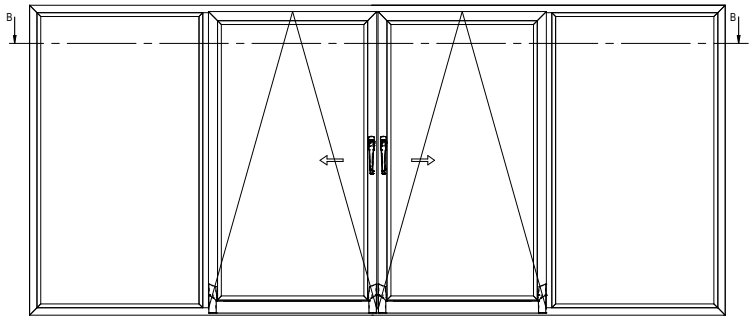


PRIMO 76 patio window – PSK fix in the frame – Scheme C

Horizontal cross-section

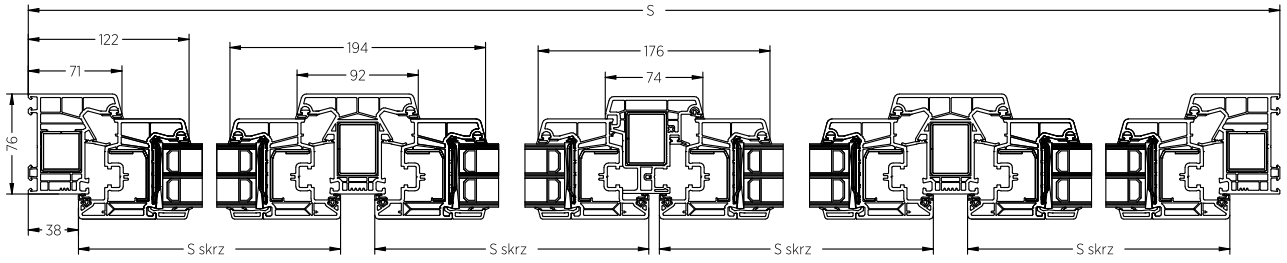


As seen from the inside

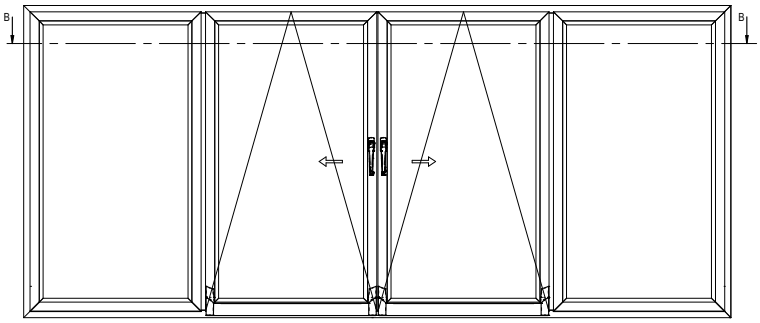


PRIMO 76 patio window – PSK fix in the leaf – Scheme C

Horizontal cross-section

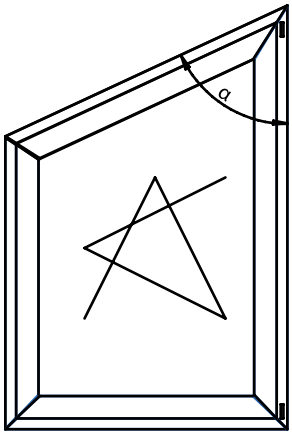


As seen from the inside



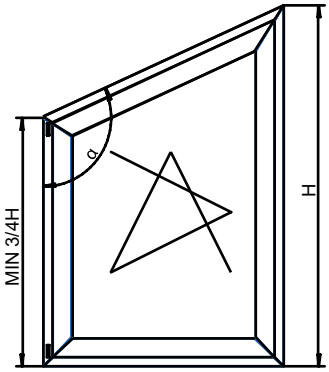
NON-STANDARD SHAPES

For technological reasons, non-standard shaped windows are not manufactured using the V-Perfect technology. Arched windows are not available with the Spectral film coatings.



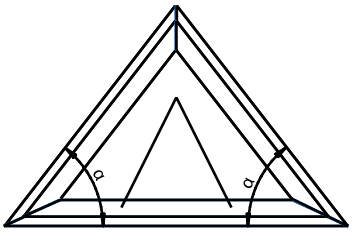
Minimum permissible angle α LEAF R, RU	65°
Minimum permissible angle α, with a groove milled in the frame, LEAF R, RU	55°
Minimum permissible angle α for welding profiles FIXED FRAME	30°
Minimum permissible angle α for welding profiles FIXED LEAF	40°

Minimum length of the welded sections of the frame/leaf for non-standard shape windows: 250 [mm]



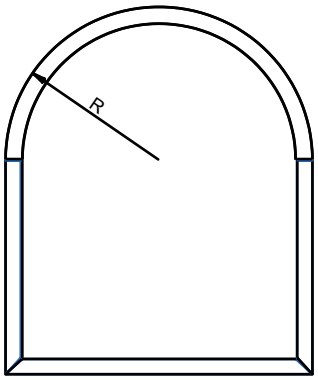
The minimum height of the shorter side is 3/4 H of the total window height	
Minimum permissible angle α LEAF R, RU	140°

Minimum length of the welded sections of the frame/leaf for non-standard shape windows: 250 [mm]



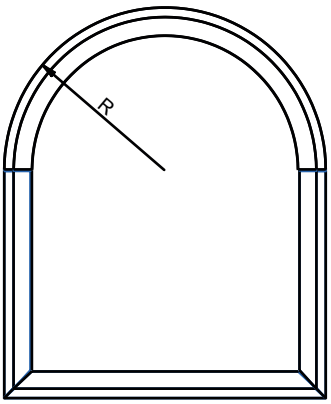
Minimum permissible angle α LEAF U	65°
Minimum permissible angle α, with a groove milled in the frame, LEAF U	55°
Minimum permissible angle α for welding profiles FIXED FRAME	30°
Minimum permissible angle α for welding profiles FIXED LEAF	40°

Minimum length of the welded sections of the frame/leaf for non-standard shape windows: 250 [mm]



	Fixed frame
Minimum R for a semi-full arch	460 [mm]
Maximum R for a semi-full arch	1,400 [mm]

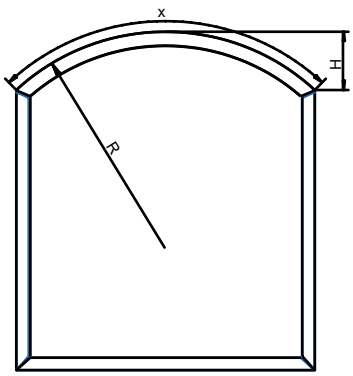
Minimum length of the welded sections of the frame/leaf for non-standard shape windows: 250 [mm]



	FRAME + LEAF 103.381
Minimum R for a semi-full arch	500 [mm]
Maximum R for a semi-full arch	1,400 [mm]

	FRAME + LEAF 103.385
Minimum R for a semi-full arch	650 [mm]
Maximum R for a semi-full arch	1,400 [mm]

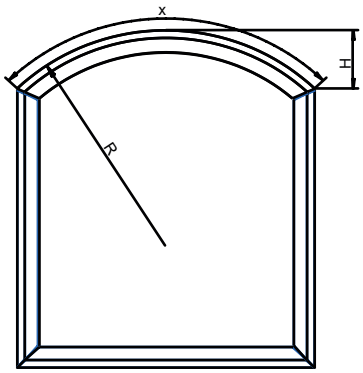
Minimum length of the welded sections of the frame/leaf for non-standard shape windows: 250 [mm]



	Fixed frame
Minimum R for a section arch	460 [mm]
Maximum R for a section arch	2,900 [mm]

Maximum height H for a section arch	1,400 [mm]
Maximum length x for a section arch	3,800 [mm]

Minimum length of the welded sections of the frame/leaf for non-standard shape windows: 250 [mm]

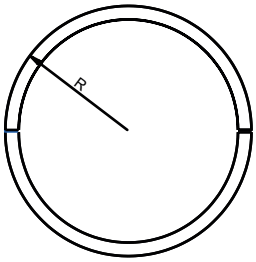


	FRAME + LEAF 103.381
Minimum R for a section arch	500 [mm]
Maximum R for a section arch	2,900 [mm]

	FRAME + LEAF 103.385
Minimum R for a section arch	650 [mm]
Maximum R for a section arch	2,900 [mm]

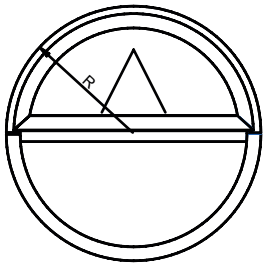
Maximum height H for a section arch	1,400 [mm]
Maximum length x for a section arch	3,800 [mm]

Minimum length of the welded sections of the frame/leaf for non-standard shape windows: 250 [mm]

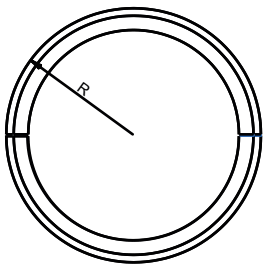


	Fixed frame
Minimum R for an arch	460 [mm]
Maximum R for an arch	1,400 [mm]

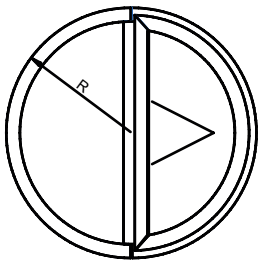
Minimum length of the welded sections of the frame/leaf for non-standard shape windows: 250 [mm]



	FRAME + LEAF 103.381
Minimum R for an arch is	500 [mm]
Maximum R for an arch is	1,400 [mm]



	FRAME + LEAF 103.385
Minimum R for an arch is	650 [mm]
Maximum R for an arch is	1,400 [mm]



Minimum length of the welded sections of the frame/leaf for non-standard shape windows: 250 [mm]

SYSTEM LIMITATIONS

Structural limitations for the PRIMO 76 windows

Maximum leaf dimensions

		Windows/balconies, single- and multi-leaf R, RU with a fixed mullion		Double-leaf windows/balconies with a movable mullion		Tilt-only (hopper/awning) windows	
		White	Colour	White	Colour	White	Colour
Maximum surface area of the leaf	STANDARD leaf 103.381	2.25 [m²]*				2.25 [m²]	
	WIDE leaf 103.385	2.5 [m²]				Not available	
Maximum width of the leaf	STANDARD leaf 103.381	1,424 [mm]		1,408 [mm]		2,400 [mm]	
	WIDE leaf 103.385	1,524 [mm]	1,424 [mm]	1,108 [mm]	1,058 [mm]	Not available	
Maximum height of the leaf	STANDARD leaf 103.381	2,424 [mm]		window: 1,924 [mm] balcony: 2,424 [mm]		1,400 [mm]	
	WIDE leaf 103.385	2,424 [mm]				Not available	
Maximum total weight of the leaf with a glass and MultiMatic hardware	STANDARD leaf 103.381	120 [kg]				80 [kg]	
	WIDE leaf 103.385					Not available	
Leaf width to height ratio		< 1.6				-	

Minimum leaf dimensions

		Leaf R and RU		Leaf U	
		Width	Height	Width	Height
Minimum dimension	STANDARD leaf 103.381	330 [mm]	480 [mm]	340 [mm]	330 [mm]
		480 [mm]	400 [mm]		

Maximum frame dimensions

	White	Colour
Maximum surface area of the window structure in a single frame	8.00 [m²]	
Maximum width of the structure	4,200 [mm]	4,000 [mm]
Maximum height of the structure	4,200 [mm]	4,000 [mm]
Maximum weight of the glass	300 [kg]	

Minimum frame dimensions

Minimum width of the frame	330 [mm]
Minimum height of the frame	330 [mm]

*** The permissible dimensions of the window leaf can be increased with the use of a special glass insetting technology**

Structural limitations for the patio door

Maximum PSK dimensions

		PSK scheme A		PSK scheme C Variant		PSK scheme C	
		Division					
		symmetrical	asymmetrical *	symmetrical	asymmetrical *	symmetrical	asymmetrical *
Maximum surface area of the window		8.00 [m²]		9.6 [m²]			
Maximum width of the window		3,300 [mm]	4,000 [mm]*	4,000 [mm]			
Maximum height of the window		2,476 [mm]					
Maximum width of the leaf	STANDARD leaf 103.381	1,540 [mm]					
	WIDE leaf 103.385	1,760 [mm]				1,210 [mm]	
Maximum height of the leaf		2,400 [mm]					
Maximum surface area of the leaf	STANDARD leaf 103.381	2.5 [m²]				2.25 [m²]	
	WIDE leaf 103.385	3.8 [m²]				2.5 [m²]	
Leaf height to width ratio		< 2.5					

* made on request

Minimum PSK dimensions

	MANUAL PSK-S	PAS	AUTOMATED PSK-Z
Minimum width of the leaf	660 [mm]	790 [mm]	760 [mm]
Minimum height of the leaf	1,040 [mm]	881 [mm]	940 [mm]

HARDWARE TYPES AND RANGES OF APPLICATION

Hardware type	Leaf weight	Leaf surface
Maco Multi-Matic STANDARD frame and leaf hinge	≤ 100 kg	2.4 [m²]
Maco Multi-Matic with a low threshold frame and leaf hinge with roller cams	≤ 110 kg	3.0 [m²]
Maco Multi-Matic frame and leaf hinge with roller cams	≤ 120 kg	3.0 [m²]
Maco Multi-Power	≤ 150 kg	3.0 [m²]
Maco Multi-Power with a low threshold	≤ 110 kg	3.0 [m²]
Maco Multi-Mammut	≤ 180 kg	3.6 [m²]

Minimum and maximum window dimensions by burglary protection class, and maximum weight

Window type	Min. width of the leaf	Max. width of the leaf	Min. height of the leaf	Max. height of the leaf	Weight
RU SECURITY 1	520	1,690	470	2,640	100 kg
U SECURITY 1	510	2,290	390	1,140	80 kg
SECURITY 1 movable mullion	520	1,340	701	2,640	100 kg
RU RC2	520	1,690	470	2,640	100 kg
U RC2	510	2,290	390	1,140	80 kg
Movable mullion RC2	520	1,340	701	2,640	100 kg

WINDOW PROTECTION STANDARD, PSK

Type of window/patio door	WINDOWS	WINDOWS	PSK	WINDOWS
Protection type	SECURITY 1	SECURITY 2		Anti-burglary class RC2 in accordance with PN-EN 1627
ACCESSORIES				
Type and number of strikers	- Minimum 4 anti-burglary strikers - Number of strikers depends on the leaf dimensions	- All anti-burglary strikers - Number of strikers depends on the leaf dimensions	- All anti-burglary strikers - Number of strikers depends on the leaf dimensions	- All anti-burglary strikers - Number of strikers depends on the leaf dimensions
Anti-drill guard plate	Yes	Yes	Yes	Yes
Handle	Any	Any	Any	With a key 100 Nm
Installation	Anchors or dowels	Anchors or dowels	Anchors or dowels	dowels
Glass units	Any	Any	Any	At least one pane with the P4A resistance class in accordance with EN 356 in the glass unit
Glass mounting	Not required	Not required	Not required	Required along the circumference of the leaf

COLOURS

Available colours for PVC windows:
white, single-side film coating, two-side film coating.

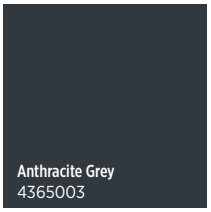
Standard colours

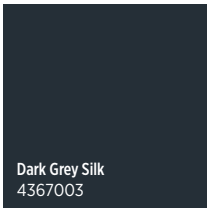
Film coatings – standard colours

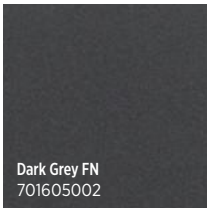






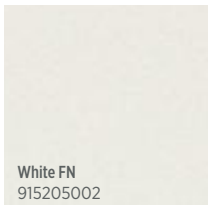




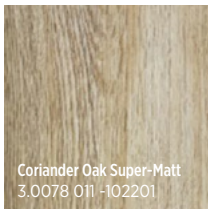




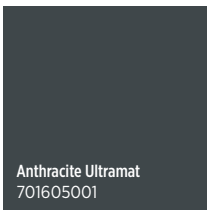






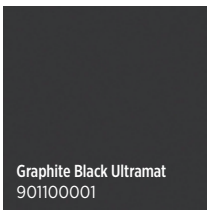


VEKA SPECTRAL dedicated for PRIMO 76 windows – special colours







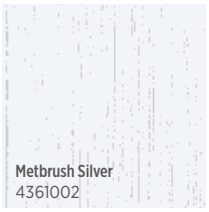




Film coatings – special colours




Metbrush Aluminium
4361001


Metbrush Silver
4361002

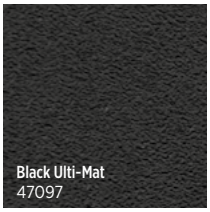

Crown Platinum
1293001

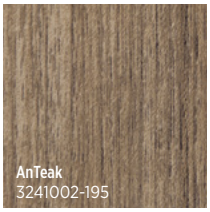

Quartz Platinum
1293002

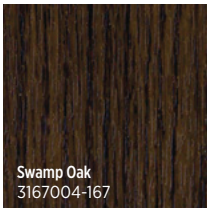

Earl Platinum
1293010

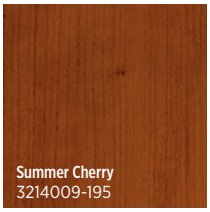

Sheffield Oak Light
4563081


Anthracite Quartz
F4361014


Black Ulti-Mat
47097


AnTeak
3241002-195

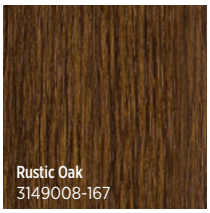

Swamp Oak
3167004-167

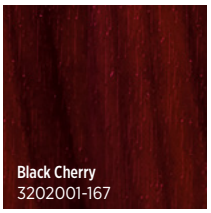

Summer Cherry
3214009-195


Siena PL
49254

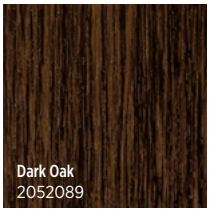

Sheffield Oak Grey
F436-3086


Oregon
1192001-167


Rustic Oak
3149008-167


Black Cherry
3202001-167


Sapeli (Mahogany)
2065021


Dark Oak
2052089


woodec
Woodec Turner Oak Malt
F4703001


woodec
Woodec Sheffield Oak
Alpine
F4703002

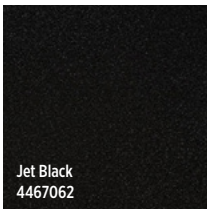

woodec
Woodec Sheffield Oak
Concrete
F4703003


woodec
Woodec Turner
Oak Toffee CC
F4703004


Alux Aluminium Grey
4361016


Anthracite Grey Mat F4706003

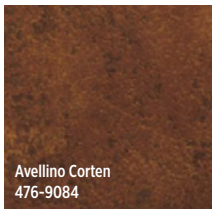

Anthracite Quartz Mat
F4701014


Jet Black
4467062


Smooth Quartz Grey
703905083


Brushed Brass
F4361007


Goldbronze
446-1025


Avellino Corten
476-9084


Irish Oak
3211305-1148

Accessory selection

No.	Film number	Name	Standard core	Gasket colour	Handle and cover colour	Balcony pull colour
1	2178001	GOLDEN OAK	caramel	caramel	F4	gold
2	2178007	WALNUT	brown	black	F4	ral 8019
3	2052089	SWAMP OAK	brown	black	F4	ral 8019
4	49240	WINCHESTER XA	caramel	caramel	F4	gold
5	2065021	MAHOGANY	brown	black	F4	ral 8019
6	4365003	ANTHRACITE GREY	anthracite	black	F1	ral 7016
7	887505	BROWN	brown	black	F4	ral 8019
8	715505	SILVER GREY	white	black	F1	silver
9	49237	SIENA PN NOCE	brown	black	F4	ral 8019
10	49233	SIENA PR ROSSO	caramel	caramel	F4	ral 8019
11	3162002	MACORE	brown	black	F4	ral 8019
12	137905	CREAM WHITE	white	black	RAL 9001	ral 9001
13	915205	WHITE	white	black	RAL9016	ral 9016
14	612505	DARK GREEN	white	black	F1	silver
15	701205	BASALT GREY	white	black	F1	silver
16	703905	QUARTZ GREY	white	black	F1	silver
17	3118076	Natural Oak	white	black	F4	gold
18	851805	BROWN BLACK	brown	black	F4	ral 9005
19	715505083	SMOOTH SILVER GREY	white	black	F1	silver
20	3152009	DOUGLAS FIR SHADED	caramel	caramel	F4	gold
21	600505	GREEN	white	black	F1	silver
22	3156003	RUSTIC OAK V	brown	black	F4	ral 8019
23	3149008	RUSTIC OAK	brown	black	F4	ral 8019
24	3069041	MOUNTAIN PINE	caramel	caramel	F4	gold
25	703805	AGATE GREY	white	black	F1	silver
26	4367003	DARK GREY SILK	anthracite	black	F1	ral 7016
27	4563081	LIGHT SHEFFIELD OAK	white	black	F1	ral 9001
28	2115008	OREGON III	white	black	F4	gold
29	1192001	OREGON	white	black	F4	gold
30	4361001	BRUSHED ALUMINIUM	white	black	F1	silver
31	300305	RUBY RED	white	black	F1	silver
32	300505	WINE RED	white	black	F1	silver
33	515005	STEEL BLUE	white	black	F1	silver
34	501305	COBALT BLUE	white	black	F1	silver
35	725105	LIGHT GREY	white	black	F1	silver
36	308105	BROWN RED	white	black	F1	silver
37	500705	BRILLIANT BLUE	white	black	F1	silver
38	901805	PAPYRUS WHITE	white	grey	F1	silver
39	3069037	DOUGLAS FIR	caramel	caramel	F4	gold
40	108705	YELLOW	white	black	F1	silver
41	1293002	QUARTZ PLATINUM	white	black	F1	silver
42	1293001	CROWN PLATINUM	anthracite	black	F1	ral 7016
43	701205083	SMOOTH BASALT GREY	white	black	F1	silver
44	1293010	EARL PLATINUM	anthracite	black	F1	ral 7016
45	701505083	SMOOTH SLATE GREY	anthracite	black	F1	ral 7016

46	4361002	SILVER BRUSHED ALUMINIUM	white	black	F1	silver
47	701505	SLATE GREY	anthracite	black	F1	ral 7016
48	101505	IVORY	white	black	F1	silver
49	49198	SHOGUN AF	caramel	caramel	F4	gold
50	49195	SHOGUN AD	caramel	caramel	F4	gold
51	992505	MONUMENT GREEN	white	black	F1	ral 9005
52	701605001	VSP ANTHRACITE ULTRAMAT	grey	black	F1	ral 7016
53	800400001	VSP UMBRA ULTRAMAT	grey	black	F1	ral 9005
54	901100001	VSP GRAPHITE BLACK ULTRAMAT	brown	black	F1	ral 9005
55	901000001	VSP MILKY WHITE ULTRAMAT	white	black	RAL9016	ral 9016
56	704000001	VSP PLATINUM GREY ULTRAMAT	anthracite	black	F1	silver
57	436-1014	quartz anthracite	anthracite	black	F1	anthracite
58	PX47097	Black Ulti-Mat	anthracite	black	F1	ral 9005
59	3241002-195	AnTEAK	brown	black	F1	ral 9001
60	3167004-167	swamp oak	brown	black	F4	ral 8019
61	3214009-195	summer cherry	brown	black	F4	ral 8019
62	49254-015	siena PL	caramel	caramel	F4	gold
63	F 436-3086	sheffield oak grey	brown	black	F1	ral 9001
64	3202001	Koltex Black Cherry	brown	black	F4	ral 8019
65	F 470-3001	Woodec Turner Oak Malt	caramel	caramel	F4	caramel
66	F 470-3002	Woodec Sheffield Oak Alpine	white	black	F1	silver
67	F 470-3003	Woodec Sheffield Oak Concrete	white	black	F1	silver
68	F 470-3004	Woodec Turner Oak Toffee	brown	black	F4	ral 8019
69	4361016	Alux Aluminium Grey	white	black	F1	silver
70	4361007	Brushed Brass	white	black	F4	gold
71	4467062	Jet Black	anthracite	black	F1	ral 9005
72	703905083	Smooth Quartz Grey	white	black	F1	silver
73	F470-6003	Anthracite Grau Matt	anthracite	black	F1	ral 7016
74	F470-1014	Anthracite Quartz Mat	anthracite	black	F1	ral 7016
75	701605002	Dark Grey FN	anthracite	black	F1	ral 7016
76	715505002	Silver Grey FN	white	black	F1	silver
77	301900002	Black FN	anthracite	black	F1	ral 9005
78	915205002	White FN	white	black	RAL 9016	ral 9016
79	701505002	Slate Grey FN	anthracite	black	F1	ral 7016
80	446-1025	Goldbronze	brown	black	F3/4	gold
81	476-9084	Avellino corten	brown	black	9005 MAT	ral 9005
82	3.0078 011 -102201	Coriander Oak Super-Matt	brown	black	F3/4	caramel
83	3211305-1148	Irish Oak	brown	black	F3/4	caramel

OPTIONAL ACCESSORIES

Concealed MULTI POWER hinges



Completely hidden hardware. The concealed hinge option is available both with the low threshold and with anti-burglary windows with a maximum burglary resistance class RC2.

Benefits for the customer:
- additional hinge cover caps
- large opening width (up to 100°);
- integrated protection against lifting the leaf;
- minimal maintenance thanks to enhanced guides in the scissor stay;
- appealing look;
- dedicated for windows with the maximum leaf weight of 150 kg.

TILT-FIRST – tilting before turning



This solution is aimed at locking the leaf in the tilted position after rotating the handle by 90 degrees to the horizontal position, which prevents the leaf from moving from the tilted to the open position. Only after the handle is unlocked with a key can the window be opened. This solution provides safety for children and at the same time makes it possible to ventilate the room with the window tilted.

Opening restriction



Prevents excessive opening of the leaf and thereby prevents the leaf from hitting the wall. Opening restriction can be used both with surface and concealed MultiPower hinges. Cannot be used with a window version with the SECURITY enhanced burglary resistance class.

Turn restrictor controlled with a handle



Prevents self-acting opening and closing movement of the leaf. The turn restrictor can be used both in the R and RU version, as well as with concealed and surface hinges.

This turn restrictor version cannot be used:
- with a low threshold,
- with RC and SECURITY classes,
- with the UR option (tilt before turn).

Brake stay



Fixes the opening angle of the leaf in the desired position. The brake stay can only be used in the R window version, but it cannot be used with a low threshold and with the RC and SECURITY enhanced burglary resistance class window versions.

SAFETY PIN



Safety Pin secures each turn-only (side-hung) and turn and tilt window against leaf unhinging from the frame caused by mishandling. Located on the hinge side, the security device is integrated with the central turn and tilt locking system. The spring-loaded steel wire prevents the window leaf from falling out of the frame and effectively prevents potential accidents.

The device is recommended for windows in residential buildings, as well as in children's rooms and nursing homes; these devices should be considered standard accessories in public buildings.

Comfort scissor stay



Problem-free operation of the window, primarily when windows are difficult to access, thanks to the handle in the bottom part of the window leaf.
The comfort scissor stay can only be used in the RU window version, it cannot be used with concealed hinges.

Benefits for the customer:
- The window tilts and closes automatically with the use of a handle.
- Meets the requirements of elderly and disabled persons.
- Enables operation of windows which are difficult to access.
- Optional electric assistance.

Reed switch



Surface-mounted, wired



Somfy, surface-mounted, wireless



Flush-mounted, wired

Windows can optionally be fitted with an electronic closure monitoring system. Reed switches are connected to the monitoring system which triggers an alarm when the handle is rotated or the hardware is moved in any other way. The sensors operate regardless of whether the leaf was opened to the tilted or turned position. Available in a wired version: surface-mounted, flush-mounted, and wireless Somfy.

IntelliTAG air io reed switch



Develo windows can optionally be equipped with the IntelliTAG air io reed switch, which functions as a vibration and opening sensor.

- Primo integrated with the io technology
- A single device to monitor window status
- Break-in alert or alarm trigger functionality
- The io protocol enables real-time window status checks via the TaHoma app
- Possibility to trigger scenarios based on window status

Balcony door catch with a pull



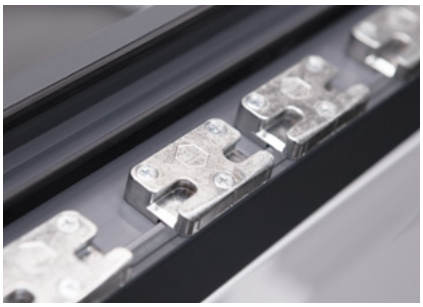
Balcony door catch with a pull



Balcony door catch with a pull for a roller shutter

Balcony door catch with an aluminium pull increases the functionality of balcony doors, making it possible to close them from the outside. A pull for windows with external roller shutters is available as an optional accessory.

Hardware with the SECURITY and RC2 burglary protection class



Windows with the Security 1, Security 2, and RC2 class are available with single-section and multi section models:
- turn and tilt (RU)
- tilt-only (hopper/awning) (U)
- with a movable mullion (RS)
- with a FIX in the frame (FIX-R)
- with a FIX in the leaf (FIX- S)

The Security / RC2 options are not available with turn-only (side hung) windows (R).

With the RC2 burglar resistance class, there are several anchor fitting options available in the following scenarios:
- single-section model FIX-R / FIX-S,
- multi-section model, where at least one section is a FIX-R / FIX-S.

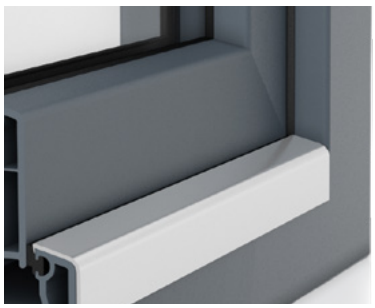
With the RC2 burglar resistance class, there are several anchor/dowel fitting options available in the following scenarios:
- single-section model: turn and tilt (RU), tilt-only (U),
- model with a movable mullion (RS),
- multi-section model, where all the sections can be opened (RU, U, RS).

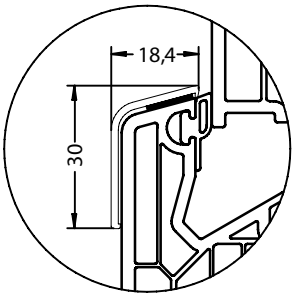
Optional accessories, which can be ordered with the SECURITY 1 and SECURITY 2, as well as RC2 burglar resistance class windows:
- balcony catch,
- surface hinges (MultiMatic, MultiMammut), concealed hinges (MultiPower),
- wired and wireless reed switch,
- SafetyPin.

Other optional accessories are not available with the SECURITY 1, SECURITY 2, as well as RC2 burglar resistance class windows.

The PSK tilt and slide patio door with the Security 2 class is available in the standard PSK-S version and the PSK-PAS stop-slide version in scheme A

Aluminium balcony threshold cover





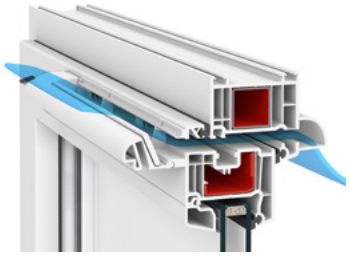
The aluminium threshold cover serves a protective function and prevents damage and scuffing of the lower part of the frame, it is especially recommended for balcony or patio exits.

MultiMammut hinges



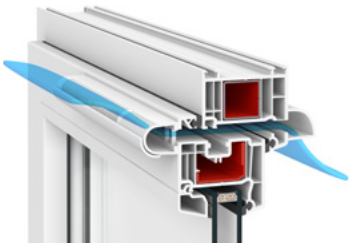
Hinges for leafs with a weight up to 180 kg for large size window models up to 3.6 m^2.

Air inlets



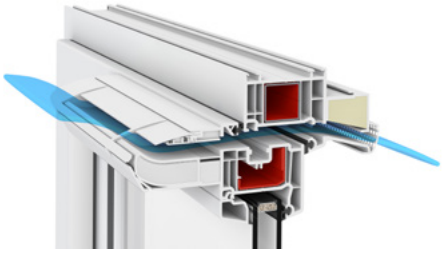
Aereco EMM humidity sensitive air inlet

Available colours: RAL 9003, RAL 8017, RAL 8001, RAL 7045, RAL 7016



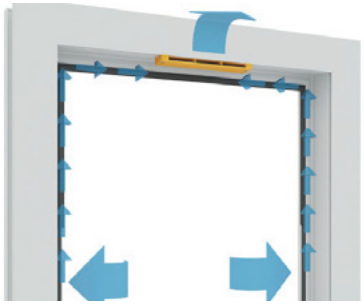
Aereco AMO pressure sensitive air inlet

Available colours: RAL 9003, RAL 8017, RAL 8001, RAL 7016



Aereco EXR 409 humidity sensitive air inlet

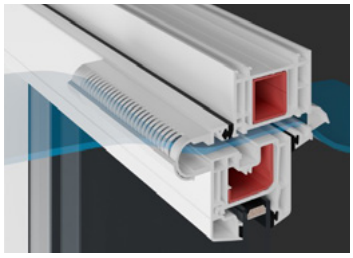
Available colours: RAL 9003, RAL 8017,
RAL 8001, RAL 7045, RAL 7016



REGEL AIR air inlet

Available colours: RAL 9003 black and grey gasket, 9005 black gasket

Parameter	[Pa]	Regel-air
Air flow at:	2	3.0 m^3/h
	4	3.7 m^3/h
	8	5.0 m^3/h
	10	5.6 m^3/h
	20	4.2 m^3/h



Aeromat Mini
Available colours: RAL 9003, RAL 8017, RAL 8001, RAL 7016



Aeromat 2MO
Available colours: RAL 9006, RAL 9016

Parameter	Air flow [m³/h]		Resistance to rainwater after installation in the window, in a zone without rain cover [Pa]	Acoustic properties Dn (C;Ctr) [dB]	
	Rated	Minimal		Air inlet open	Air inlet closed
AMO.103 kit AMO pressure sensitive air inlet Standard AB canopy	**25.3**	5.9	300	32 (-1;1)	33 (0;0)
EMM.707 kit EMM humidity sensitive air inlet Standard AB canopy	26.1	6.9	300	32 (-1;0)	34 (0;0)
EXR.409 kit EXR humidity sensitive air inlet AQ acoustic canopy	**27**	7	300	40 (0;0)	41 (-1;-1)
Aereco 2MO.102 air inlet	**20.2**	4.9	300	33 (-1;-1)	35 (-1;-1)
AEROMAT mini air inlet	**2**	11	**n/a**	**n/a**	**n/a**

Glazing bars

If inner glazing bars are used, silicone discs are not provided at the glazing bar intersection.
The following bars are available for the PVC window range:
- INNER glazing bars (colour on both sides)
- INNER glazing bars (colour on one side)

The “glazing bar ringing” effect can occur, which is caused by normal vibrations of the aluminium glazing bar rod during opening and closing, or even by wind gusts outside.

Glass panes

When using glass 4 [mm] thick – the maximum side length can be 2440 [mm] (maximum side ratio 1:8), maximum surface area up to 3.35 [m²].

The above standard dimensional limitations apply only to clear glazing units installed vertically in locations where increased wind loads do not occur.

The limitations do not take into account the effect of coatings reflecting heat on the increase of the temperature inside the glass units and the effect of the changes in atmospheric pressure resulting from fitting in mountainous areas.

The permissible glass sizes do not take into account the customer’s detailed requirements regarding safety, wind load, etc.

When using varying thickness of glass in the glazing unit, the maximum surface is determined for the thinner glass.

In accordance with the regulations of the Building Law, safety glass should be used in the bottom section of the window up to the height of 850 [mm] (in buildings up to 25 [m] high) and 1,100 [mm] (in buildings over 25 [m]).

Warm edge

Available in the following colours for the PVC range:
Light Grey 7035, Grey 7040, Black 9005, Light Brown 8003, Brown 8016, White 9016

Window handles

PVC windows are fitted with BASIC handles as standard.

BASIC



BASIC

available colours:

white, brown, silver, old gold, titanium, black mat RAL 9005



BASIC K
with a key lock

available colours:

white, brown, silver, old gold, titanium, black mat RAL 9005



BASIC P
with a locking button

available colours:

white, brown, silver, old gold, titanium, black mat RAL 9005

Optionally, PVC windows can be fitted with the following handles:



ROUND

available colours:

white, brown, silver, old gold, titanium



ROUND K
with a key lock

available colours:

white, brown, silver, old gold, titanium



ROUND P
with a button

available colours:

white, brown, silver, old gold, titanium



CUBE

available colours:

black, white, silver, old gold, titanium, black mat RAL 9005



CUBE K
with a key lock

available colours:

black, white, silver, old gold, titanium, black mat RAL 9005



CUBE P
with a locking button

available colours:

black, white, silver, old gold, titanium



BASIC double-sided balcony

available colours:

white | brown | silver

old gold | titanium | black mat RAL 9005



BASIC double-sided flat for roller shutter

available colours:

white | brown | silver

old gold | titanium | black mat RAL 9005

Hoppe



Hoppe Hamburg SecuForte

available colours:

white | titanium | silver

old gold



Atlanta

available colours:

white | silver | old gold

titanium



Atlanta
with a key lock

available colours:

white | silver | old gold

titanium

Handles for the PSK patio door



PSK-Z

available colours:

white | brown | silver

old gold | titanium



PSK-Z with a key lock

available colours:

white | brown | silver

old gold | titanium



PSK-S and PSK-PAS

available colours:

white | brown | silver

old gold | titanium | black mat RAL 9005

Old gold* – colour with a darker hue than other handle models



PSK-S and PSK-PAS handle with a key lock

available colours:

white | brown | silver

old gold | titanium | black mat RAL 9005



PSK-S and PSK Pas double-sided handle

available colours:

white | brown | silver

old gold | titanium | black mat RAL 9005



PSK-S and PSK Pas double-sided handle for roller shutter

available colours:

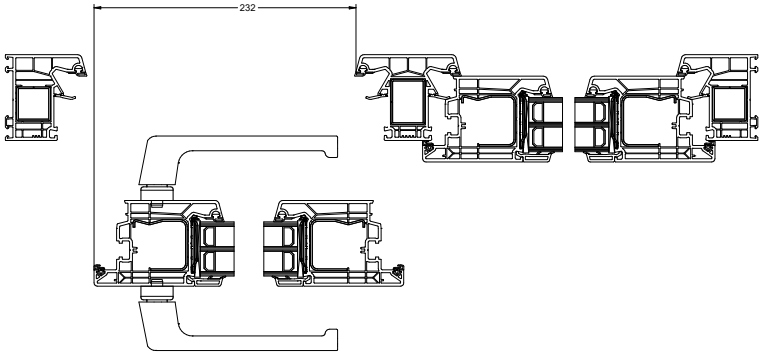
white | brown | silver

old gold | titanium | black mat RAL 9005

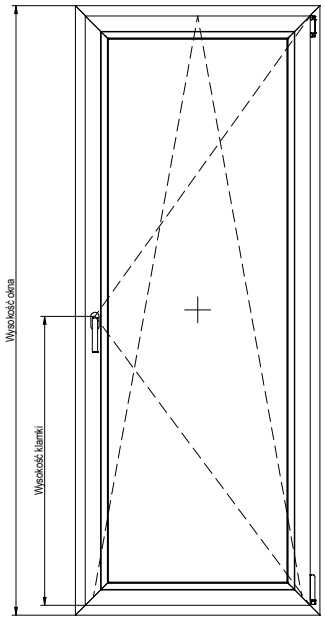
Clear passage

Clear opening with a double-sided handle – PSK

In the case of a double-sided handle in the PSK with fixed glazing in the frame, we use a double-sided handle for the roller shutter and the leaf is moved fully behind the fixed glazing. However, in the case of the PSK with fixed glazing in the leaf, we use a “standard” handle and at the same time, the leaf bumper is positioned so that it decreases the clear opening passage by 232 mm.



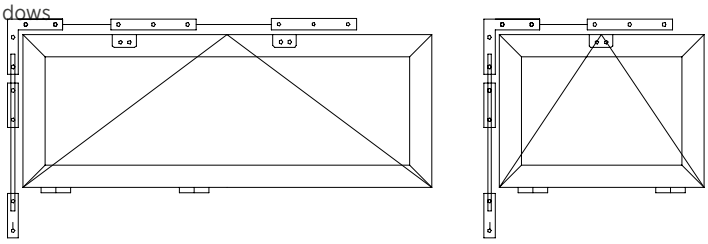
Handle heights



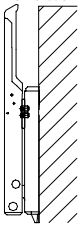
Handle height [mm]	Range of application/ height in the hardware groove		Range of application/ leaf height in the window	
	MIN. [mm]	MAX. [mm]	MIN. [mm]	MAX. [mm]
145	360	430	400	470
210	431	660	471	700
320	661	840	701	880
420	841	1,090	881	1,130
520	1,091	1,340	1,131	1,380
620	1,341	1,590	1,381	1,630
720	1,591	1,700	1,631	1,740
1,070	1,701	1,950	1,741	1,990
1,070	1,951	2,200	1,991	2,240
1,070	2,201	2,450	2,241	2,490

GEZE OL90 toplight opener

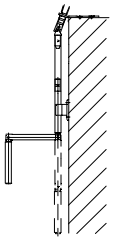
Tilt-only (hopper/awning) windows



Methods of window opening with the GEZE OL90 hardware

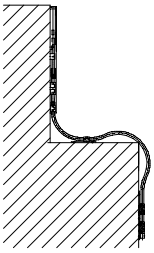


Lever



Crank

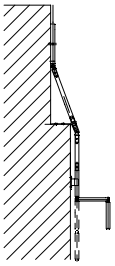
Method of drive transmission with the GEZE OL90



Flexible transmission

With the use of:

- manual lever,
- Fz91 gear unit installed under the elastic cable.



Articulated joint transmission

With the use of:

- crank mechanism.

Product features

- Full opening width = 170 mm for all leaf heights,
- Adjustable opening width,
- Total leaf weight up to 80 kg,
- Min. height of the leaf 250 mm,
- Max. width of the leaf 380 mm,
- Max. width of the leaf 3,600 mm with three scissor stays,
- Little space requirement due to flat scissor stay structure,
- Release inhibitor, lockable manual lever, and scissor stays ensure added security,
- Scissor stays can be disengaged with a release button for easy window cleaning inside and outside,
- Fully pre-installed mounting groups for easier fitting,

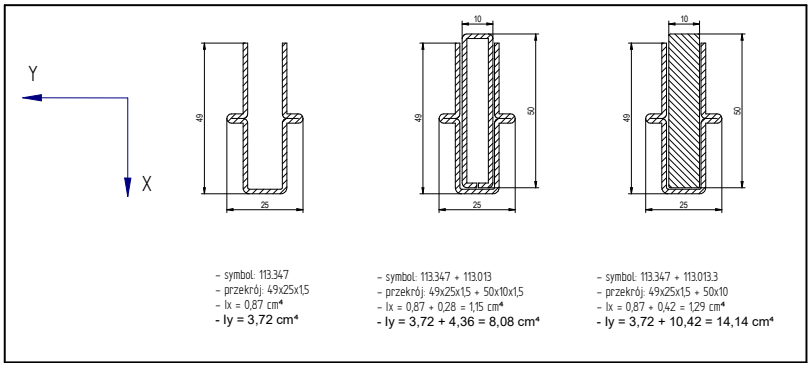
Areas of application

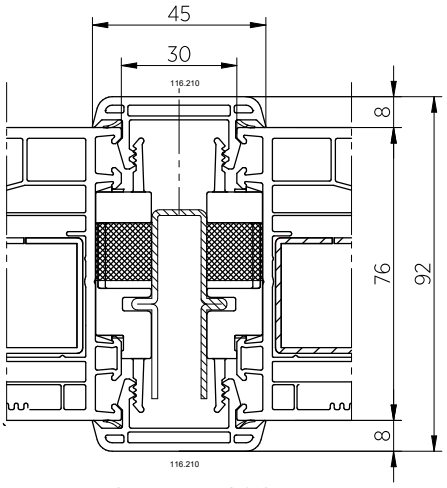
- Convenient everyday ventilation of rooms and staircases,
- Inswing windows,
- Can be used in non-standard structures, i.e. arched, triangular, round, and segment windows,
- Connecting and operating several windows with an angular drive transmission.

Tape selection

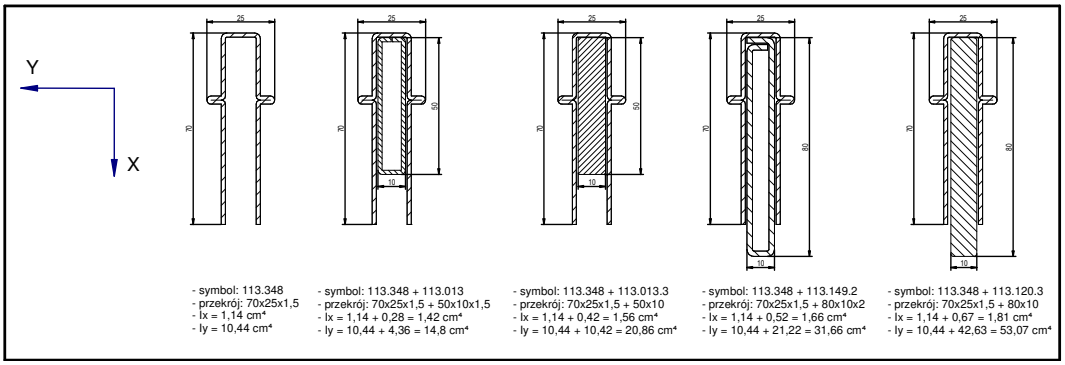
System	Profile type	Gap size	Selected expansion tape	Type of screw used for connection
SL 76	116.210+116.210	14.5	*Pinta 15/4-20	-
	116.210+116.211	14.5	*Pinta 15/4-20	-
	116.216	6.7	*Pinta 10/4-20	-
	116.219	7.7	*Pinta 15/4-20	-
	116.229	6.7	*Pinta 10/4-20	-
	116.030	15.4	*Pinta 15/4-20	-
	116.217	15.4	*Pinta 15/4-20	-
	116.213+116.211	14.5	*Pinta 15/4-20	-
	116.213+116.210	14.5	*Pinta 15/4-20	-
	114052	7.7	*Pinta 10/4-20	WKRT39x25-ZW-B-BR
	114.053	7.7	*Pinta 10/4-20	WKRT40x50-BW-B-ZR
	114.054	7.7	*Pinta 10/4-20	WKRT48x60-BW
	114.055	7.7	*Pinta 10/4-20	WKRT48x120-ZW-WL
	109.223	6.6	*Pinta 10/4-20	WKRT40x50-BW-B-ZR
	109.126	6.6	*Pinta 10/4-20	WKRT48x60-BW
	109.121	6.6	*Pinta 10/4-20	-
	116.210+116.212	14.5	*Pinta 15/4-20	-
	116.211+116.212	14.5	*Pinta 15/4-20	-
	116.230	7.6	*Pinta 15/4-20	-

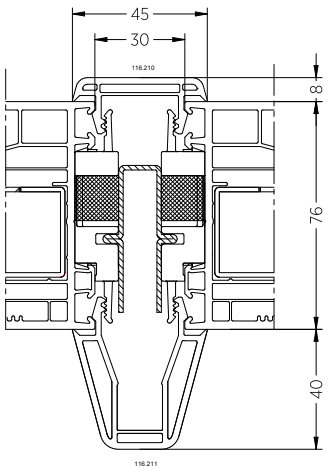
Connectors



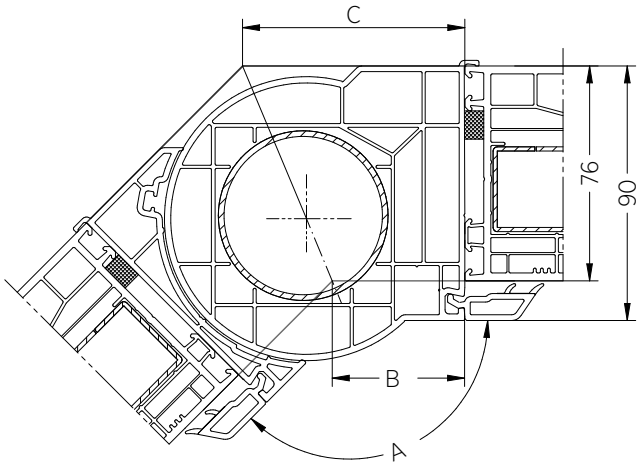


Connector 116.210



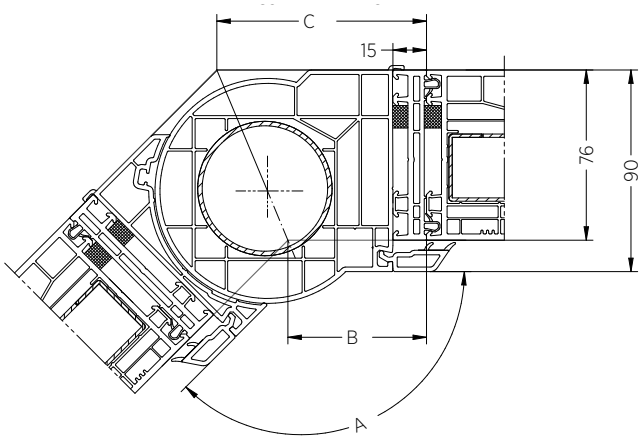


Connector 116.210+116.211



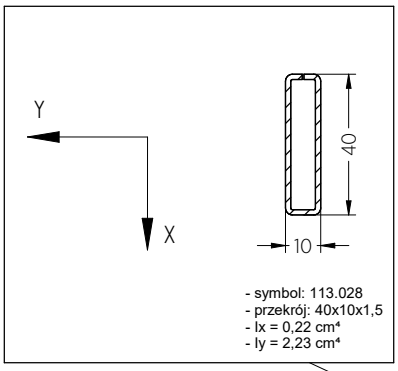
Pipe connector 116.216 + 114.052 without a widening

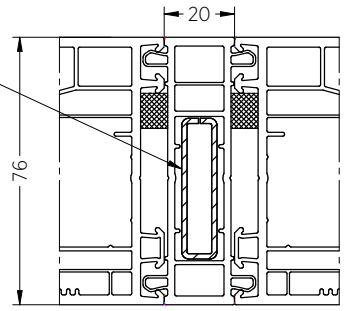
Item	Angle A	B	C
1	90 °	34 mm	110 mm
2	95 °	35 mm	105 mm
3	100 °	37 mm	101 mm
4	105 °	39 mm	97 mm
5	110 °	40 mm	94 mm
6	115 °	42 mm	91 mm
7	120 °	44 mm	87 mm
8	125 °	45 mm	84 mm
9	130 °	46 mm	81 mm
10	135 °	47 mm	78 mm
11	140 °	48 mm	75 mm
12	145 °	49 mm	73 mm
13	150 °	50 mm	70 mm
14	155 °	51 mm	68 mm
15	160 °	52 mm	65 mm
16	165 °	53 mm	63 mm
17	170 °	54 mm	61 mm
18	175 °	55 mm	58 mm
19	180 °	56 mm	56 mm
20	185 °	57 mm	54 mm
21	190 °	58 mm	41 mm
22	195 °	59 mm	49 mm
23	200 °	60 mm	46 mm
24	205 °	61 mm	44 mm
25	210 °	62 mm	42 mm



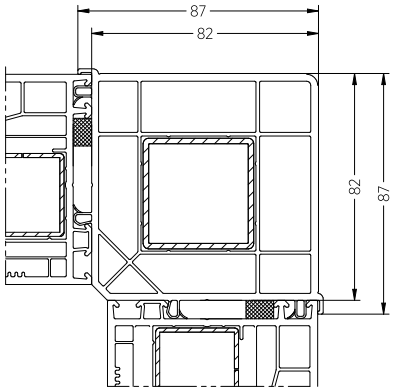
Pipe connector 116.216 + 114.052 with a 15 mm widening

Item	Angle A	B	C
1	90 °	49 mm	125 mm
2	95 °	50 mm	120 mm
3	100 °	52 mm	116 mm
4	105 °	54 mm	112 mm
5	110 °	55 mm	109 mm
6	115 °	57 mm	106 mm
7	120 °	59 mm	102 mm
8	125 °	60 mm	99 mm
9	130 °	61 mm	96 mm
10	135 °	62 mm	93 mm
11	140 °	63 mm	80 mm
12	145 °	64 mm	73 mm
13	150 °	65 mm	70 mm
14	155 °	66 mm	88 mm
15	160 °	67 mm	80 mm
16	165 °	68 mm	78 mm
17	170 °	69 mm	76 mm
18	175 °	70 mm	73 mm
19	180 °	71 mm	71 mm
20	185 °	72 mm	69 mm
21	190 °	73 mm	66 mm
22	195 °	74 mm	64 mm
23	200 °	75 mm	61 mm
24	205 °	76 mm	59 mm
25	210 °	77 mm	57 mm

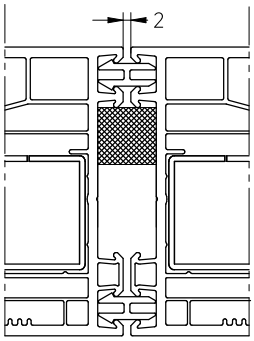




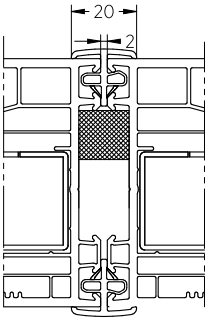
Connector 116.230



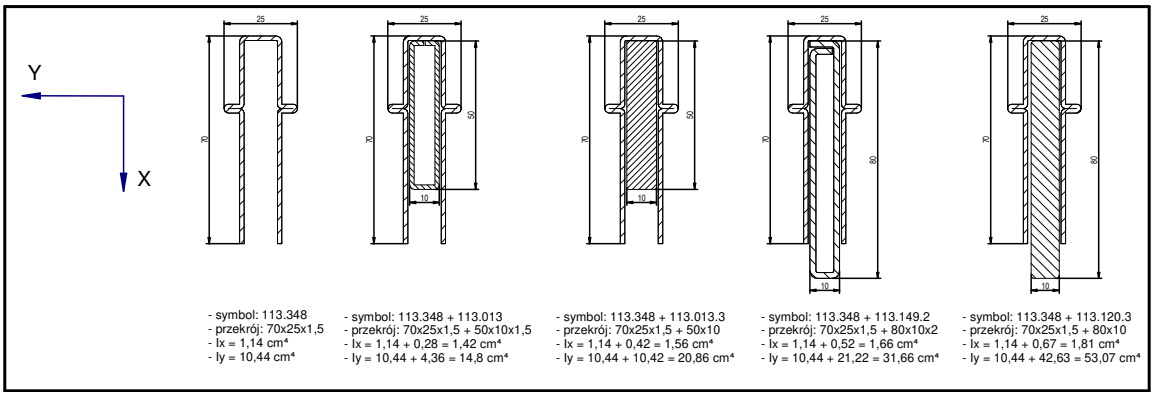
90 degree angle connector 116.229

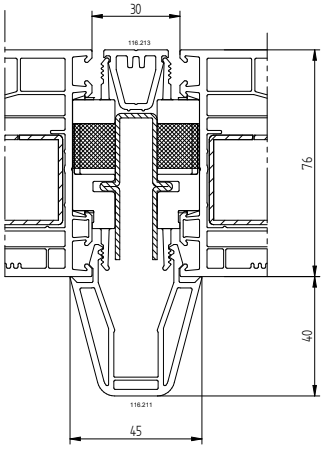


Mini connector 116.030

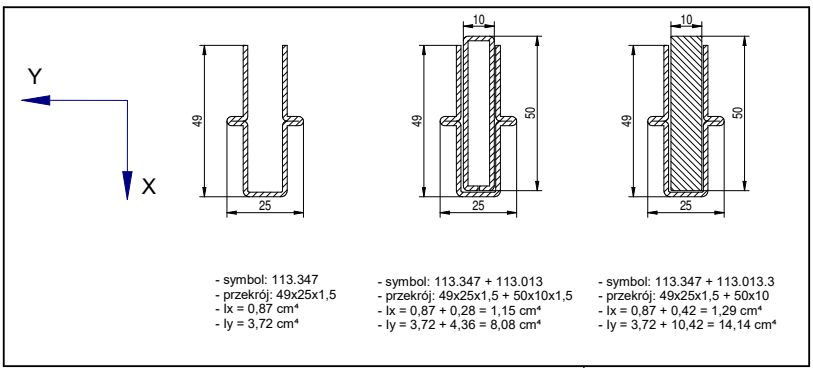


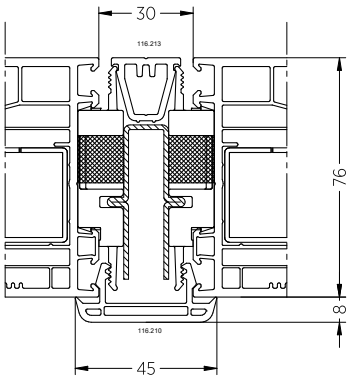
Mini connector 116.217



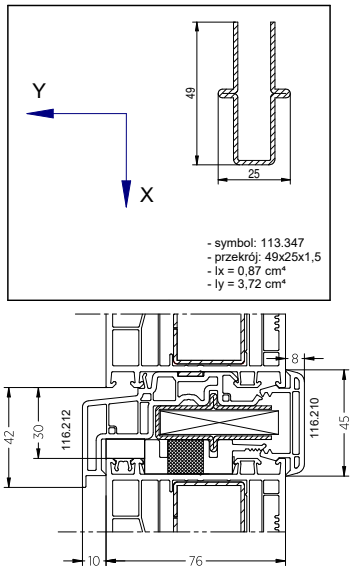


Connector 116.213+116.211

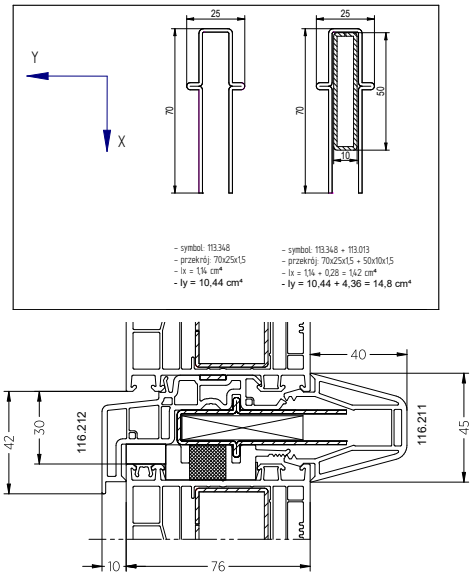




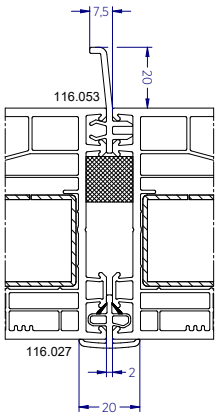
Connector 116.213+116.210



Connector 116.210+116.212

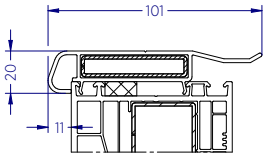


Connector 116.211+116.212

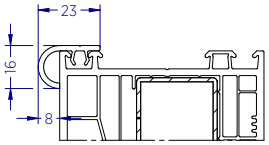


Connector 116.053

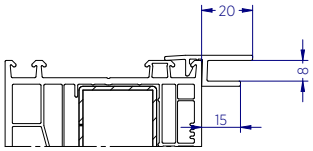
Roller shutter box traverses



Traverse 108.032

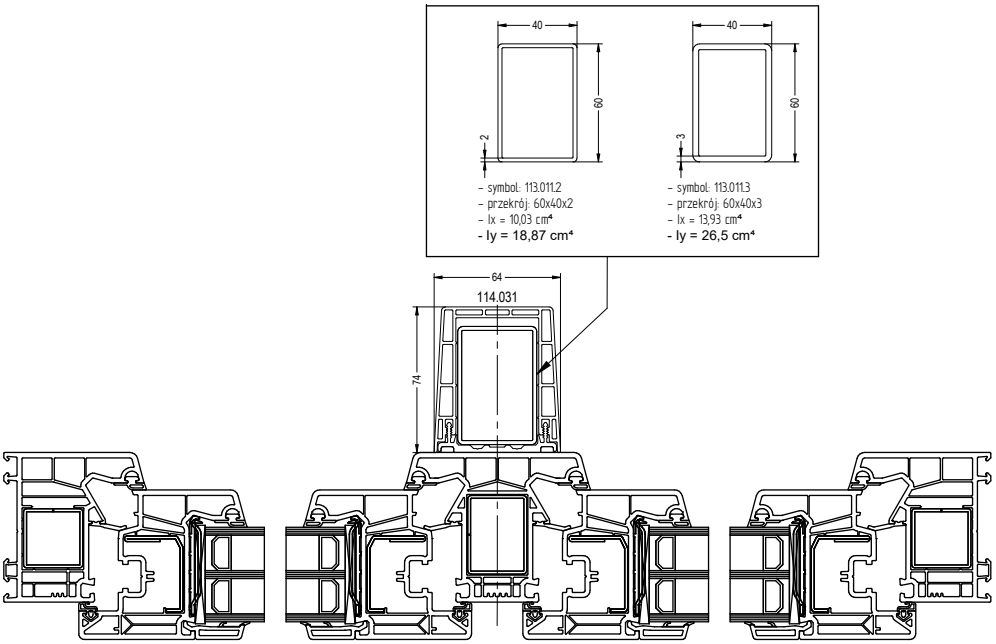


Traverse 108.100

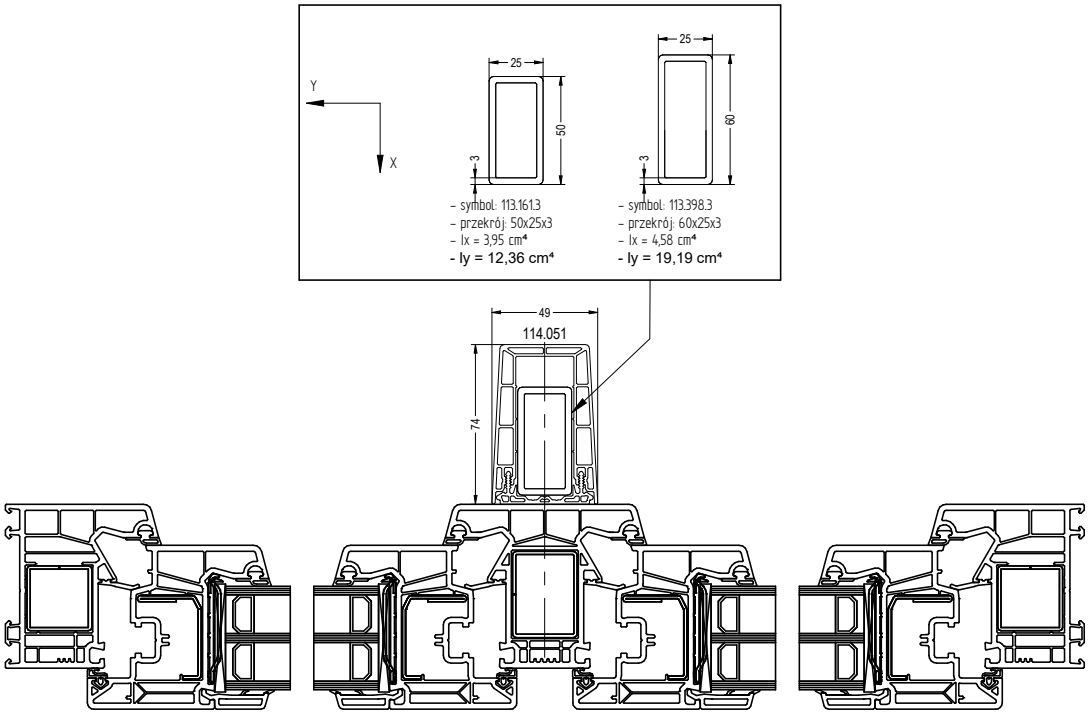


Traverse 109.286

Bracing elements



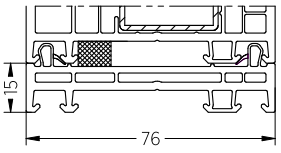
Bracing element 114.031



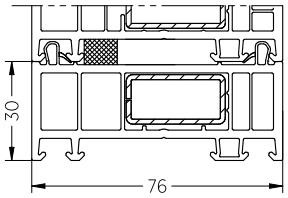
Bracing element 114.051

Widenings

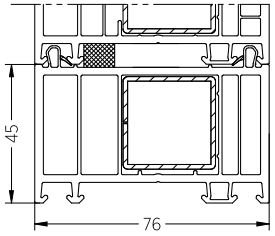
Dedicated for the PRIMO 76 windows



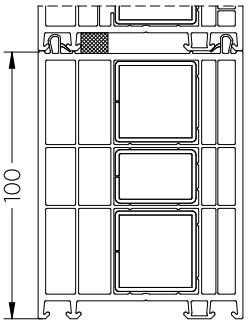
Widening 114.052



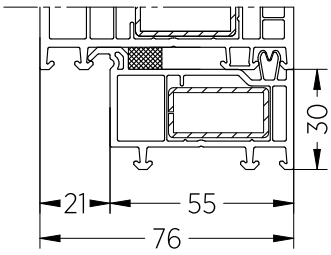
Widening 114.053



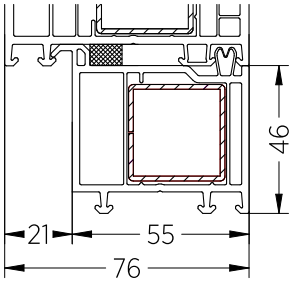
Widening 114.054



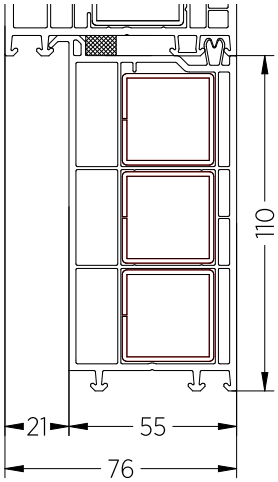
Widening 114.055



Widening 109.223



Widening 109.126

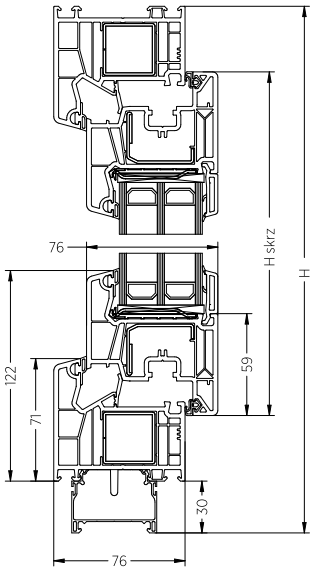


Widening 109.121

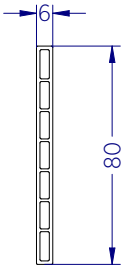
Undersill strips

Thermal strip

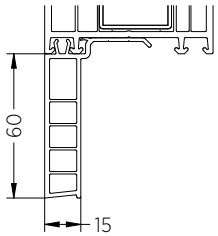
The maximum number of thermal strips is 2, whereas the maximum height of stacked thermal strips is 60 [mm].



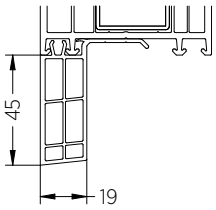
Covering profiles



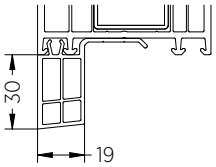
Covering profile 109.046



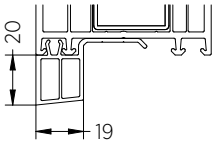
Undersill strip 60 [mm]



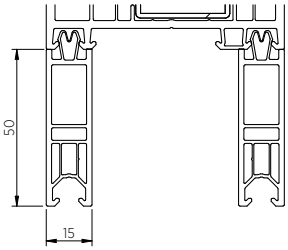
Undersill strip 45 [mm]



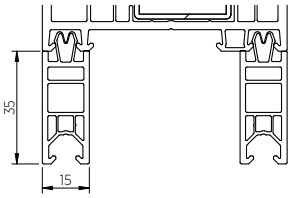
Undersill strip 30 [mm]



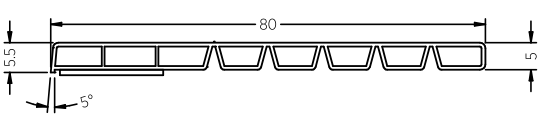
Undersill strip 20 [mm]



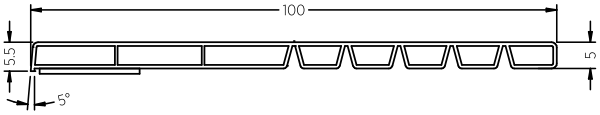
Undersill strip 50 [mm]



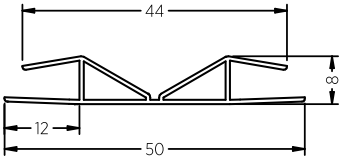
Undersill strip 35 [mm]



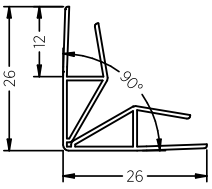
Chamber strip 80 [mm]



Chamber strip 100 [mm]

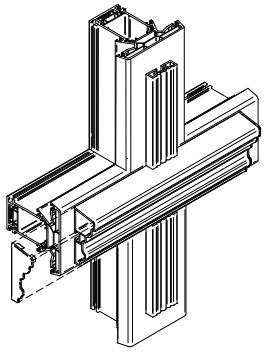


Connecting profile 50 [mm]

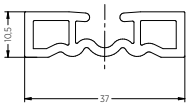


Connecting profile 50 [mm]

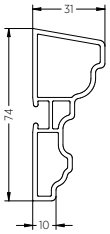
Accessories



Isometric view



Decorative strip 146.169

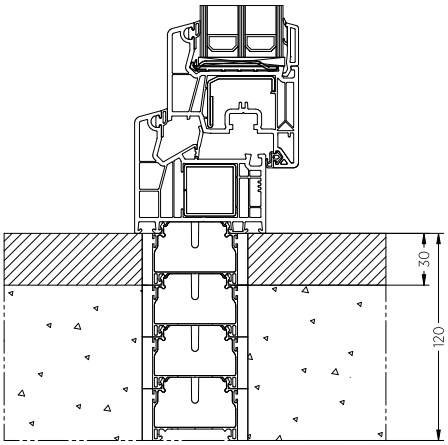


Decorative strip 146.168

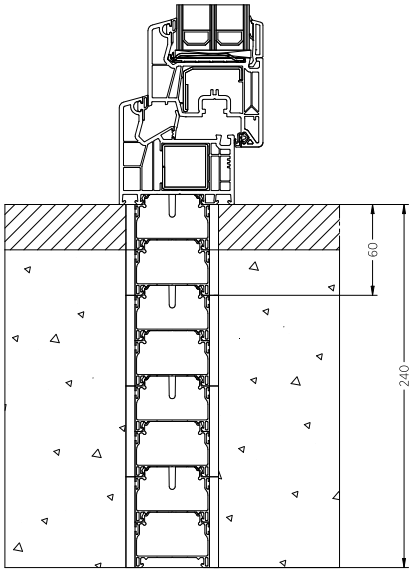
Thermal widening

The maximum number of thermal widenings is 4, whereas the maximum height of stacked thermal widenings is:

For thermal widenings 30 [mm] = 120 [mm]



For thermal widenings 60 [mm] = 240 [mm]

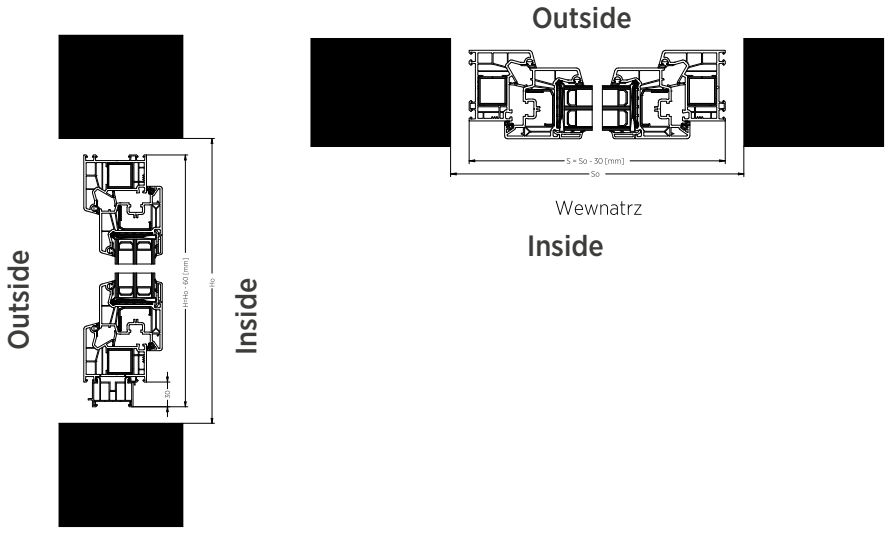


Accessories and delivery

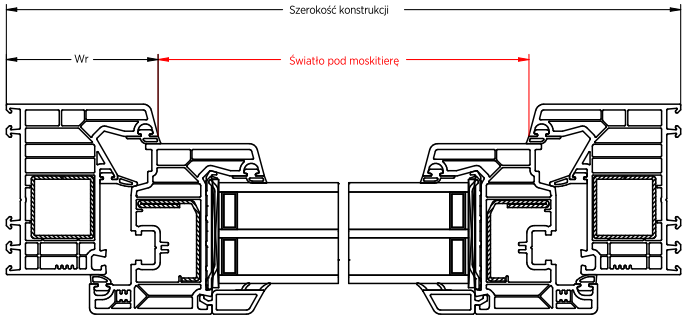
The windows are assembled and ready for fitting (optionally with opening frame holes for direct mounting and steel anchors for indirect mounting). The windows are delivered in one piece. Large windows consisting of two or more elements are disassembled into parts for shipping. The glass for the HST patio door is delivered in transport frames.

Ordering and installation dimensions for windows and PSK

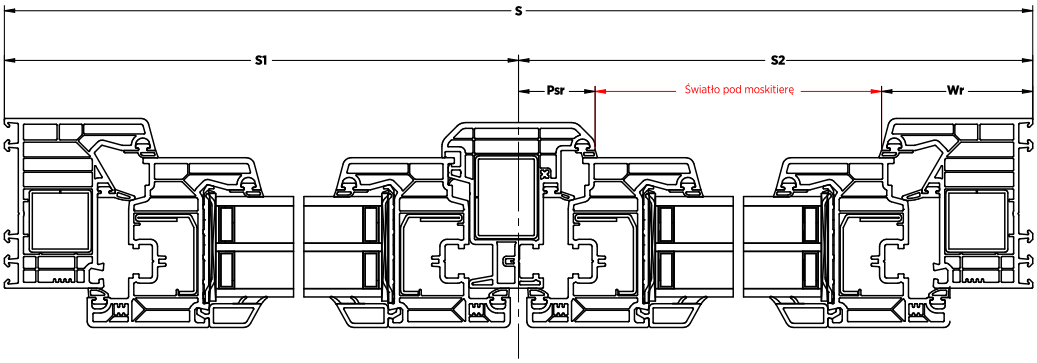
Drilling for wall plugs is an option and is performed in accordance with the customer's requirements. Wall plug hole diameter – ø 6 [mm]. In the order, please provide the H dimension, without the 30 [mm] undersill strip.



Sized for a mosquito screen



Profile system	Frame geometry	Wr frame height [mm]
Softline 76	101.350	71
Softline 76	101.351	81

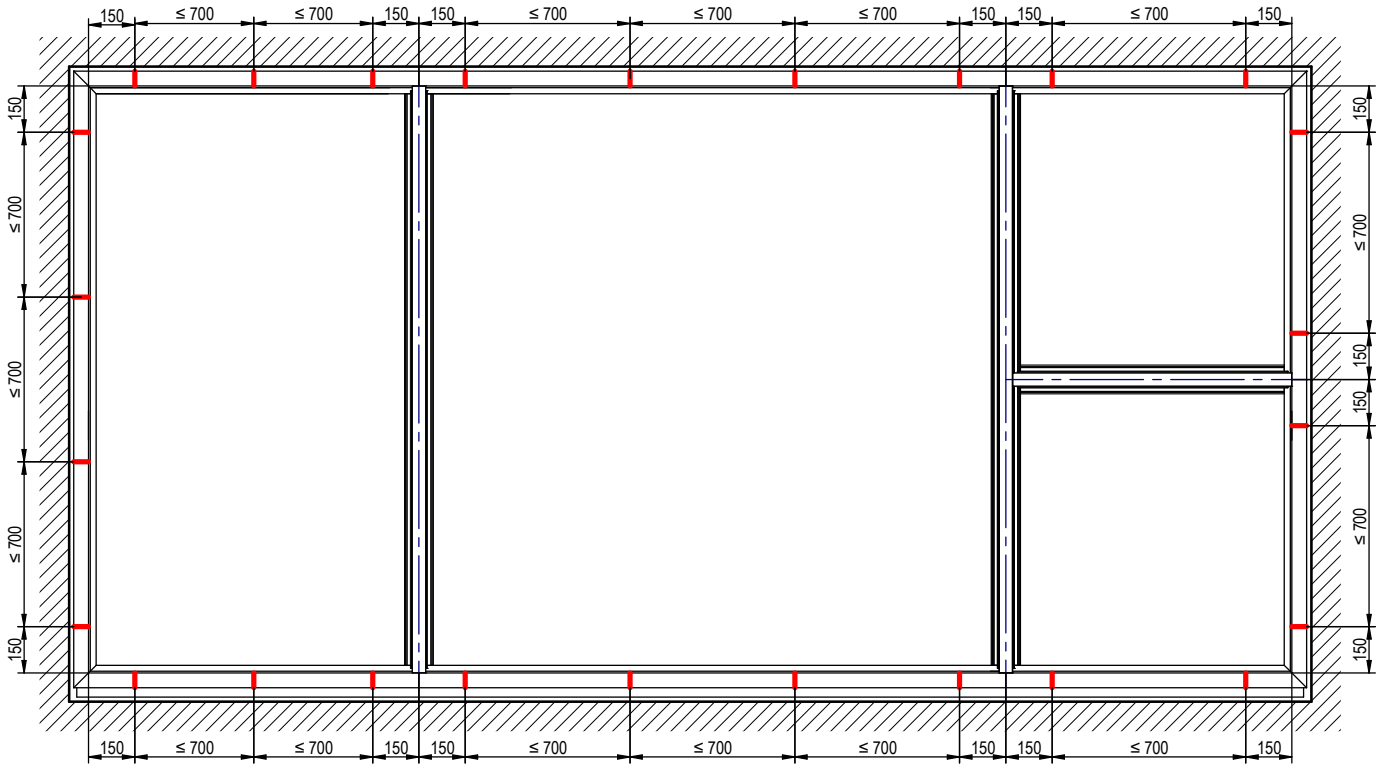


Clear opening for a mosquito screen, calculation formula: Clear opening = S2 - Wr - Psr

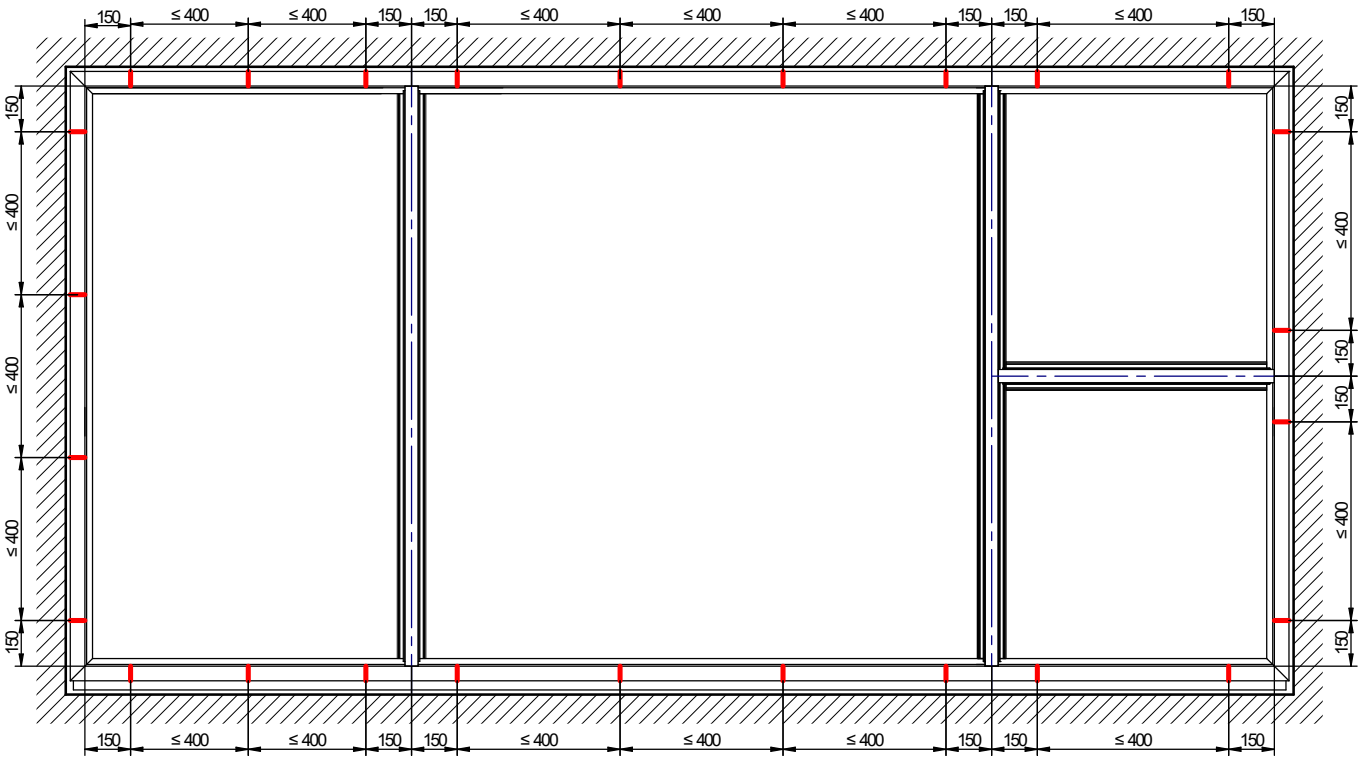
Profile system	Geometry of a movable mullion	Movable mullion division Psr [mm]
Perfectline 76	102.356	37

S2 – division size of the ACTIVE section of a window with a movable mullion

Spacing of anchors / dowels – STANDARD windows, windows with the Security 1 / Security 2 burglary protection class



Spacing of anchors / dowels – windows in the RC2 anti-burglary class



Marking for wall plugs is an option and is performed in accordance with the customer's requirements. Wall plug hole diameter – ø 6 [mm].

Pricing guidelines

- All the versions are presented as seen from the inside,
- Standard hardware for windows: Maco MultiMatic,
- Each structure includes a transport and installation bar,
- We reserve the right to estimate the final value and determine the feasibility of production of the joinery.





Window type		PRIMO 76	PRIMO 76 with a low threshold
Number of chambers in the frame		5	5
Installation depth		76 mm	76 mm
Profile class		A	A
Profile core		white, caramel, brown, grey	white, caramel, brown, grey
Gaskets around the circumference		3	3
Structural reinforcement		steel box section in the frame	steel box section in the frame
Standard glazing unit		two-chamber 4/18/4/18/4 Ug=0.5 W/m²K	two-chamber 4/18/4/18/4 Ug=0.5 W/m²K
Standard hardware	Drive gear with a lifting mishandling device and a leaf lifter	●	●
	Moving rollers i.S.	●	●
	Alloy strikers, two anti-burglary strikers in the R and RU leaf	●	●
	Microventilation in scissor stay	●	●
	Surface hinges with pressure adjustment	●	●
	Bottom striker plate in the RU leafs	●	●
	Anti draught lock in RU	●	●
	Aluminium threshold with a 30 mm widening	–	●
Handle		aluminium	aluminium
Also available in class		SECURITY 1, SECURITY 2, RC2	SECURITY 1, SECURITY 2, RC2



Window type	PRIMO PSK-76
Number of chambers in the frame	5
Profile thickness	76 mm
Gaskets around the circumference	3
Structural reinforcement	steel box section in the frame
Standard glazing unit	two-chamber 4/18/4/18/4 Ug=0.5 W/m^{2}K
Hardware	tilt and slide, parallel-stop-slide
Handle	aluminium
Also available in class	PSK Standard and PAS – SECURITY 2 Scheme A

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