PVC WINDOWS





WINDOWS **DEVELO**

Intended use: PVC windows are intended for residential housing, industrial buildings, and public utility facilities.



THERMAL INSULATION

Thermal transmittance factor of the entire window from as low as 0.78 W/m²K for the DEVELO window. The values apply to the window size 1,230 x 1,480 [mm].



SAFETY

Unwelcome guests? Not in a house with WIŚNIOWSKI windows.
Their precise structure ensures high resistance to breaking and entering.



WARRANTY

WIŚNIOWSKI windows are covered by a 5-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) windows, tilt-only (awning/hopper) windows, tilt and turn windows, turn and tilt windows, tilt and slide patio door, lift and slide patio door.



DEVELO

STANDARD, MODERN

WINDOW CHARACTERISTICS:

- 6-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 with a two-chamber glazing unit 4/18/4/18/4 U_a=0.5 W/m²K in acc. with EN 673, optionally a panel 24-48 [mm] thick infilled with XPS extruded polystyrene
- Glass units 24 [mm] to 56 [mm] thick can be used
- Reinforcement made of galvanized steel: frame 1.5 [mm], hollow steel section, white leaf, film coating up to 2 [mm], gasket extruded with a profile
- Heat bonded gasket is available in the following colours black, grey.
- Profile core double-sided film coating: anthracite
- Sound reduction index R_w=37 (-2;-7)
- Thermal insulation RU of the reference window, dimensions 1.23 [m] x 1.48 [m], RU: $U_w = 0.78 \text{ W/m}^2\text{K}$ with a 3-pane glass unit $U_a = 0.5 \text{ W/m}^2\text{K}$
- The DEVELO window is available: with a low threshold (DEVELO with a low threshold), as PSK tilt and slide patio door





MODEL **VFRSIONS**

STANDARD

MODERN

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 DEVELO system is 4/18/4/18/4 U₂=0.5 W/m²K in acc. with EN673,
- 5-chamber transport and installation bar,
- band handles for handling windows,
- installation anchors.
- in balcony windows: balcony catch as standard from the height of 1,951 [mm] in the groove (leaf height from 1,991 [mm]) with an aluminium pull,
- widening system 25 [mm] in white for balcony windows with a low threshold,
- transport slides



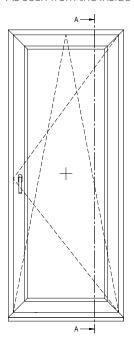
CROSS-SECTIONS AND VIEWS

Single-leaf, turn and tilt DEVELO window, window leaf

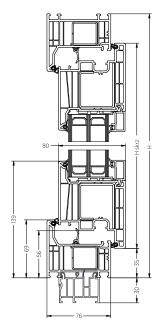
As seen from the inside Vertical cross-section

Single-leaf, turn and tilt DEVELO window, wide leaf

As seen from the inside



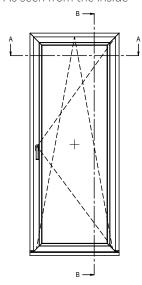
Vertical cross-section



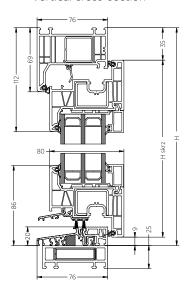


DEVELO window, single-leaf, turn and tilt, with a low threshold

As seen from the inside



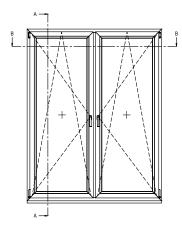
Vertical cross-section



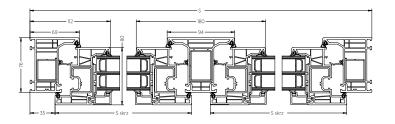


Double-leaf DEVELO window with a fixed mullion

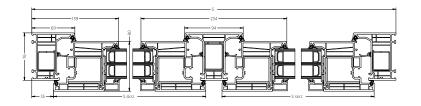
As seen from the inside



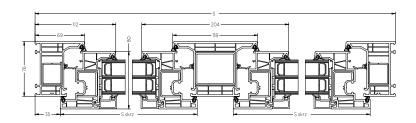
Horizontal cross-section, window leaf, standard mullion



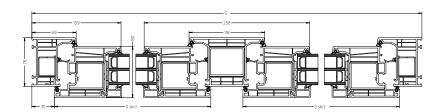
Horizontal cross-section, wide leaf, standard mullion



Horizontal cross-section, window leaf, wide mullion



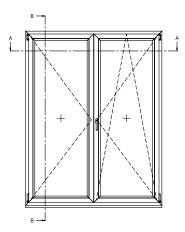
Horizontal cross-section, wide leaf, wide mullion



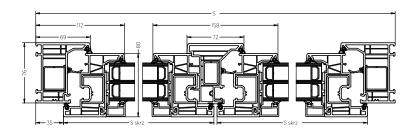


Double-leaf DEVELO window with a moving mullion

As seen from the inside



Horizontal cross-section





DEVELO PSK



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.

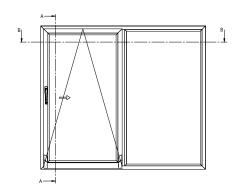
PSK-S STANDARD VERSION - manually operated, parallel tilt and slide door without motor support.

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 the energy and allows the sliding door to be easily closed shut.

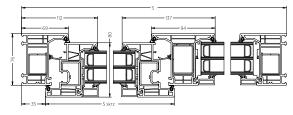
DEVELO patio window - PSK fix in the frame - Scheme A

As seen from the inside

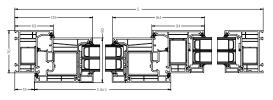


Horizontal cross-section

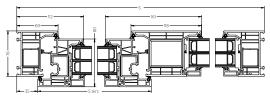
Window leaf, standard mullion



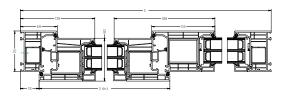
Wide leaf, standard mullion



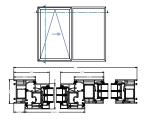
Window leaf, wide mullion



Wide leaf, wide mullion



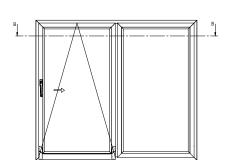
Vertical cross-section



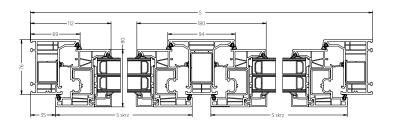


DEVELO patio window - PSK fix in the leaf - Scheme A

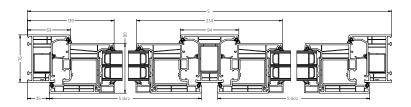
As seen from the inside



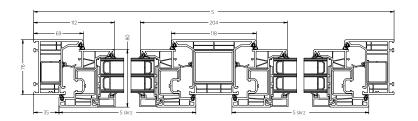
Horizontal cross-section, window leaf, standard mullion



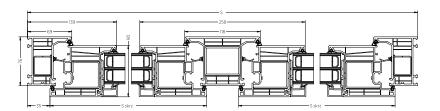
Horizontal cross-section, wide leaf, standard mullion



Horizontal cross-section, window leaf, wide mullion



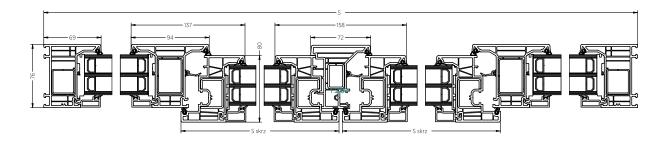
Horizontal cross-section, wide leaf, wide mullion



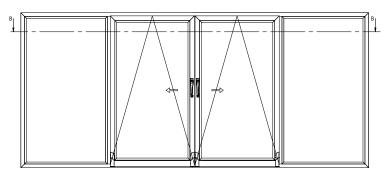


DEVELO patio window - PSK fix in the frame - Scheme C

Horizontal cross-section

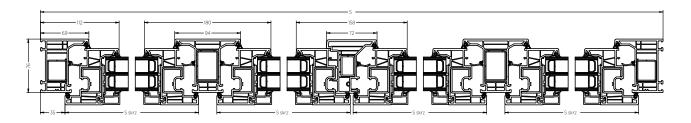


As seen from the inside

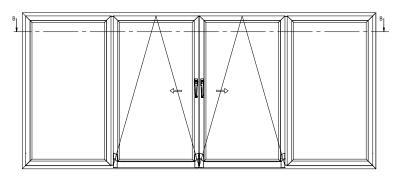


DEVELO patio window - PSK fix in the leaf - Scheme C

Horizontal cross-section



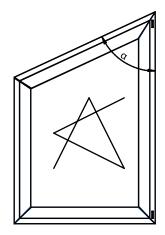
As seen from the inside





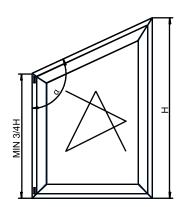
NON-STANDARD SHAPES

For technological reasons, the non-standard shaped windows are not manufactured using the V-Perfect technology.



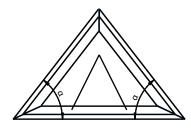
Minimum permissible angle α LEAF R, RU	65°
Minimum permissible angle α, with a groove milled in the frame, LEAF R, RU	55°
Minimum permissible angle α for welding profiles FIXED FRAME	30°
Minimum permissible angle α for welding profiles FIXED LEAF	40°

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]



SYSTEM LIMITATIONS

Structural limitations for the DEVELO windows

Maximum leaf dimensions

	System	Leaf ge- ometry		ies, single- and mul- ith a fixed mullion	double-leaf, v	balconies, with a moving lion	Tilt-only (hopp windo	
		-	White	Colour	White	Colour	White	Colour
Modern DEVELO 2 Maximum Standard		STAND- ARD leaf ZP 1-5150	2,1 [m²]		2,1 [m²]		2.3 [m²]	2.0 [m²]
surface area of the leaf	DEVELO Modern DEVELO Standard	WIDE leaf ZP 2-5151	2,4 [m²]		2,4 [m²]		made on re	equest
Maximum	DEVELO Modern DEVELO Standard	STAND- ARD leaf ZP 1-5150	1430 [mm]		1430 [mm]		1,700 [mm]	1,600 [mm]
width of the leaf	DEVELO Modern DEVELO Standard	WIDE leaf ZP 2-5151	1500 [mm]		1500 [mm]		made on request	
Maximum	DEVELO Modern DEVELO Standard	STAND- ARD leaf ZP 1-5150	240	2400 [mm]		2400 [mm]		1,300 [mm]
leaf	height of the leaf DEVELO Modern DEVELO Standard DEVELO ZP 2-5151		2400 [mm]		2400 [mm]		made on request	
Maximum DEVELO Modern total weight		STAND- ARD leaf ZP 1-5150	leaf width up to 1,250 [mm]: 100 [kg] leaf width over 1,250 [mm]: 80 [kg]		leaf width up to 1,250 [mm]: 100 [kg] leaf width over 1,250 [mm]: 80 [kg]		80 [kg]	
of the leaf	DEVELO Standard	WIDE leaf ZP 2-5151	100 [kg] 100 [kg]		[kg]	made on request		
Leaf wi	Leaf width to height ratio		< 1.6				-	





Minimum leaf dimensions

		Leaf R and RU			nf U	
		Width		Width	Height	
Minimum dimension	STANDARD leaf ZP 1/C-5150 WIDE leaf	330 [mm]	480 [mm]	740 [mm]	770 [mm]	
		480 [mm]	400 [mm]	340 [mm]	330 [mm]	
		410 [mm]	480 [mm]	410 [mm]	410 5	
	ZP 2-5151	480 [mm]	410 [mm]	410 [mm]	410 [mm]	

Maximum frame dimensions

	White	Colour	
Maximum surface area of the window structure in a single frame	7.5 [m²]		
Maximum width of the structure	3,000 [mm]	4,000 [mm]	
Maximum height of the structure	3,000 [mm]	4,000 [mm]	
Maximum weight of the glass	240	[kg]	

Minimum frame dimensions

	System	Frame geometry	Width	Height
Minimum dimension	DEVELO Modern	STANDARD LP 1-5103 frame	770 [mm]	770 [mm]
		HIGH LP 2-5111 frame	330 [mm]	330 [mm]
	DEVELO Standard	STANDARD LP 1-5103 frame	390 [mm]	390 [mm]
		HIGH LP 2-5111 frame	420 [mm]	420 [mm]

Structural limitations for the patio door

Maximum PSK dimensions

	System	Leaf geom- etry	with a f	heme A lix in the ime			PSK scheme C Variant With a fix in the frame PSK scheme C Variant with a fix in the leaf		PSK scheme C with a fix in the frame		PSK scheme C with a fix in the leaf						
			White	Colour	White	Colour	White	Colour	White	Colour	White	Colour	White	Colour			
Maximum surface area of the window	DEVELO Modern DEVELO Standard	-	8 [m²]		m²] 8 [m²]		8 [m²]		8 [m²]		8 [m²]		8 [m²]				
Maximum width of the	DEVELO Modern	STANDARD leaf ZP 1-5150		65 nm]	136 [mr			65 nm]	13 ¹		1300 [mm]	1200 [mm]	1300 [mm]	1200 [mm]			
leaf	DEVELO Standard				WIDE leaf ZP 2-5151	1600 [mm]	1555 [mm]	1600 [mm]	1555 [mm]	1600 [mm]	1555 [mm]	1600 [mm]	1555 [mm]	1600 [mm]	1400 [mm]	1600 [mm]	1400 [mm]
Maximum	DEVELO Modern DEVELO Standard	STANDARD leaf ZP 1-5150		580 nm]	238 [mr			580 nm]	23 [m		23 [m			80 im]			
height of the leaf	DEVELO Modern DEVELO Standard	WIDE leaf ZP 2-5151	2380 [mm]		2380 [mm]			380 nm]	23 [m		23 [m	80 m]	23 [m				
Maximum	DEVELO Modern DEVELO Standard	STANDARD leaf ZP 1-5150	2,5 [m²] 2,5 [m²]		m²]	2,5 [m²]		2,5 [m²]		2,4 [m²]		2,4 [m²]					
surface area of the leaf	DEVELO Modern DEVELO Standard	WIDE leaf ZP 2-5151	3,7	[m²]	3,7 [m²]		3,7 [m²]		3,7 [m²]		3,3 [m²]		3,3 [m²]				
Leaf height to width ratio	DEVELO Modern DEVELO Standard	-	<2	<2,7		,7	<2,7		<2,7		<2,7		<2,7				

^{*} made on request



Minimum PSK dimensions

	MANUAL PSK-S	PAS	AUTOMATED PSK-Z
Minimum width of the leaf	662 [mm]	792 [mm]	762 [mm]
Minimum height of the leaf	1,042 [mm]	883 [mm]	942 [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 [m ²]
Maco Multi-Power with a low threshold	≤ 110 kg	3.0 [m ²]

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
Moving mullion SECURITY 1	520	1,340	701	2,640	100 kg

SECURITY WINDOW PROTECTION STANDARD, PSK

Type of window/patio door	WINDOWS	WINDOWS	PSK
Protection type	SECURITY 1	SECURITY 2	
	ACCESSO	RIES	
	- Minimum 4 anti-burglary strikers	- All anti-burglary strikers	- All anti-burglary strikers
Type and number of strikers	- Number of strikers depends on the leaf dimensions	- Number of strikers depends on the leaf dimensions	- Number of strikers depends on the leaf dimensions
Anti-drill guard plate Yes		Yes	Yes
Handle Any		Any	Any
Installation	Anchors or dowels	Anchors or dowels	Anchors or dowels
Glass units	Any	Any	Any
Glass mounting Not required		Not required	Not required



COLOURS

TECHNICAL DATA SHEET

Available colours for PVC windows:

white, with a grey gasket, single-side film coating, double-sided film coating.

Standard colours



Available film coatings



















Accessory selection

No.	Film number	Name	Standard core	Gasket colour	Handle and cover colour	Balcony pull colour
1	2178001	GOLDEN OAK	grey	black	F4	Gold
2	2178007	WALNUT	grey	black	F4	RAL 8019
3	49240	WINCHESTER XA	grey	black	F4	Gold
4	4365003	ANTHRACITE GREY	grey	black	F1	RAL 7016
5	4367003	DARK GREY SILK	grey	black	F1	RAL 7016
6	F470-1014	Anthracite Quartz Mat - DB703	grey	black	F1	RAL 7016
7	PX47097	Black Ulti-Mat	grey	black	F1	RAL 9005
8	F 470-3001	Woodec Turner Oak Malt	grey	black	F4	Gold
9	F 470-3004	Woodec Turner Oak Toffee	grey	black	F4	RAL 8019



OPTIONAL ACCESSORIES

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 reveal. 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.

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 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 SECURITY enhanced burglary resistance window version.



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.

Contact



Flush-mounted, wired

Windows can optionally be fitted with an electronic closure monitoring system. Window contacts 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, flush-mounted.



Balcony door catch with a pull



Balcony door catch with a pull increases the functionality of balcony doors, making it possible to close them from the outside.

Balcony door catch with a pull

Hardware with the SECURITY 1, SECURITY 2 burglary protection class



The SECURITY windows are available with the following structures:

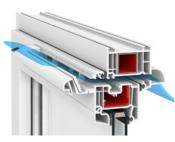
- turn and tilt (RU);
- tilt-only (hopper/awning) (U);
- with a low threshold;
- with a moving mullion;
- tilt and slide (PSK) PSK Standard and PAS up to class SECURITY 2 scheme A;

Optional accessories, which can be ordered with the SECURITY 1 and SECURITY 2 burglary resistance windows:

- · balcony catch,
- surface hinges (MultiMatic),
- wired contact switch,
- SafetyPin,

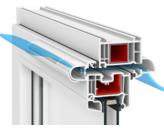
Other accessories are not available with the SECURITY burglary resistance windows.

Air inlets



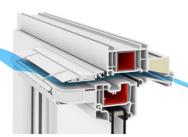
Aereco EMM humidity sensitive air inlet

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



Parameter	Unit	AMO.103 kit AMO pressure sensitive air inlet Standard AB canopy		EMM.707 kit EMM humidity sensitive air inlet Standard AB canopy		EXR.409 kit EXR humidity sensitive air inlet AQ acoustic canopy	
				Val	ue		
A in flow	- 7/1-	Rated	25.3	Rated	26.1	Rated	27
Air flow [m³/h]	[III"/N]	Minimum	5.9	Minimum	6.9	Minimum	7
Resistance to rainwater infiltration after instal- lation in a window in a zone without rain cover	[Pa]	300		300		300	
Acoustic attenuation D _n (C; C _{tr})		Air inlet open	32 (-1; 1)	Air inlet open	32 (-1; 0)	Air inlet open	40 (0; 0)
	[dB]	Air inlet closed	33 (0; 0)	Air inlet closed	34 (0; 0)	Air inlet closed	41 (-1; -1)

Glazing bars

If inner glazing bars are used, silicone discs are not provided at the glazing bar intersection. 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.



Glazing bar types and colours

Glazing bar type		Colours	Restrictions
	lanan alarina kan O Faran	White 9010	
	Inner glazing bar 8 [mm]	Golden	
		White 9010	
		Golden	
		Walnut	
INNER (colour on both sides)	Inner glazing bar 18 [mm]	Dark Oak	
(colour oil both sides)	and 26 [mm]	Golden Oak	
		Mahogany	
		Other colours available in the profile range	The maximum length of an inner glazing bar
	Inner glazing bar 45 [mm]	White 9010	without support = 700 [mm]
		Golden Oak	
		White / Walnut	
		White / Dark Oak	
		White / Golden Oak	
	Inner glazing bar 18	White / Mahogany	
INNER (colour on one side)	[mm]	White / 8014	
	and 26 [mm]	White / 8017	
		White / 8022	
		Other colours available in the profile range	

Glass panes

When using glass 4 [mm] thick – the maximum side length can be 2,500 [mm] (maximum side ratio 1:6), 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



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

ROUND



CUBE







HOPPE





Handles for the PSK patio door



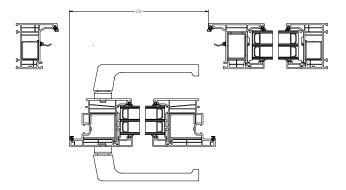




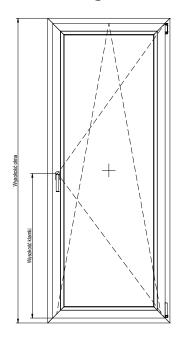
Clear passage

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 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.



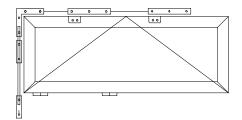
Handle heights

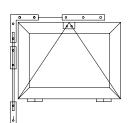


Handle height		Range of application/ height in the hardware groove		Range of application/ leaf height in the window	
[mm]	MIN. [mm]	MAX. [mm]	MIN. [mm]	MAX. [mm]	
146	360	430	402	472	
211	431	660	473	702	
321	661	840	703	882	
421	841	1,090	883	1,132	
521	1,091	1,340	1,133	1,382	
621	1,341	1,590	1,383	1,632	
721	1,591	1,700	1,633	1,742	
1,071	1,701	1,950	1,743	1,992	
1,071	1,951	2,200	1,993	2,242	
1,071	2,201	2,450	2,243	2,492	

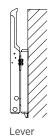
GEZE OL90 toplight opener

Tilt-only (hopper/awning) windows





Methods of window opening with the GEZE OL90 hardware

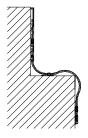




24 | PVC WINDOWS



Method of drive transmission with GEZE OL90





Flexible transmission

Articulated joint transmission

With the use of:

With the use of:

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

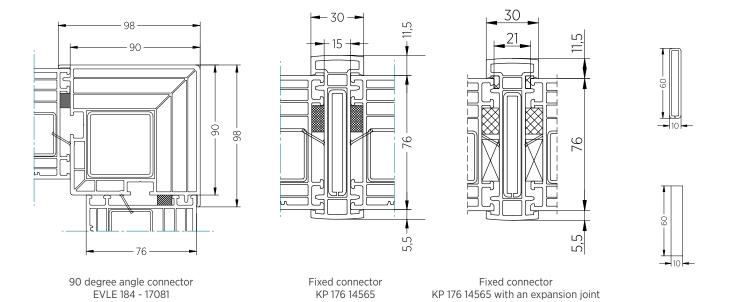
- Convenient everyday ventilation of rooms and staircases,
- Inswing windows,
- Can be used in non-standard structures, i.e. arched, triangular, round and segment windows,
- Connecting and operating several windows with an angular drive transmission.

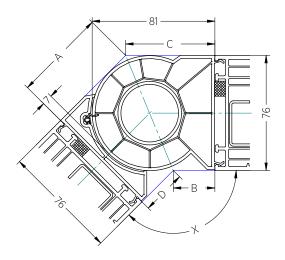
Tape selection

System	Profile type	Selected expansion tape
	KPP 10 5307	*Pinta 10/4-20
	KPP 25 12157	*Pinta 10/4-20
	KPP 50 5300	*Pinta 10/4-20
	KPP 100 5301	*Pinta 10/4-20
	KP 176 14565	*Pinta 15/4-20
DEVELO	EVP2 11035	*Pinta 10/4-20
	EVLE 184 17081	*Pinta 10/4-20
	KPZ 25 3300	*Pinta 10/4-20
	KPZ 40 3301	*Pinta 10/4-20
	KPZ 70 3302	*Pinta 10/4-20
	KPP 3 3310	*Pinta 15/4-20



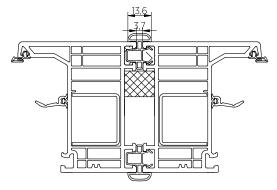
Coupling profiles



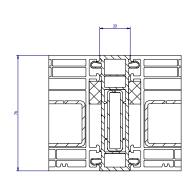


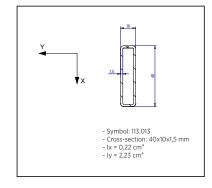
90 degree angle coupling profile EVLE 184 - 17081

Angle	Decreased length on each side				
Х	Α	В	С	D	
90°	83.3 mm	5.4 mm	81.3 mm	7.4 mm	
95°	80.0 mm	8.6 mm	78.0 mm	10.6 mm	
100°	77.2 mm	11.5 mm	75.2 mm	13.5 mm	
105°	74.4 mm	14.0 mm	72.4 mm	16.0 mm	
110°	71.8 mm	16.7 mm	69.8 mm	18.7 mm	
115°	69.4 mm	19.0 mm	67.4 mm	21.0 mm	
120°	67.1 mm	21.3 mm	65.1 mm	23.2 mm	
125°	64.9 mm	23.5 mm	62.9 mm	25.5 mm	
130°	62.9 mm	25.3 mm	60.9 mm	27.4 mm	
135°	60.9 mm	27.5 mm	58.9 mm	29.5 mm	
140°	58.9 mm	29.2 mm	56.9 mm	31.3 mm	
145°	57.1 mm	31.2 mm	55.1 mm	33.2 mm	
150°	55.3 mm	32.9 mm	53.3 mm	34.9 mm	
155°	53.5 mm	34.8 mm	51.5 mm	36.8 mm	
160°	51.8 mm	36.5 mm	49.8 mm	38.5 mm	
165°	50.1 mm	38.1 mm	48.1 mm	40.1 mm	
170°	48.4 mm	39.7 mm	46.4 mm	41.7 mm	
175°	46.7 mm	41.4 mm	44.7 mm	43.4 mm	
180°	45.0 mm	43.0 mm	43.0 mm	45.0 mm	



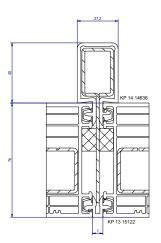
Balcony coupling mini 3310

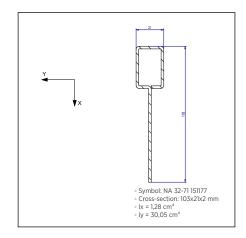




Connector 116.230 only available in colour on both sides



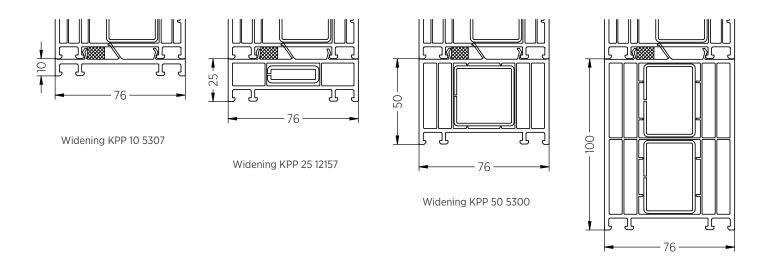




Connector KP14 14636 and KP13 15122

Widenings

For the DEVELO windows



Accessories and delivery

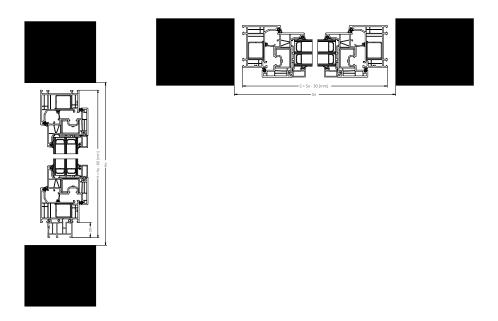
The windows are assembled and ready for fitting (optionally with opening frame holes for direct mounting and steel anchors for indirect mounting). The windows are delivered in one piece. Large windows consisting of two or more elements are disassembled into parts for shipping. The glass for the HS patio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

Widening KPP 100 5301



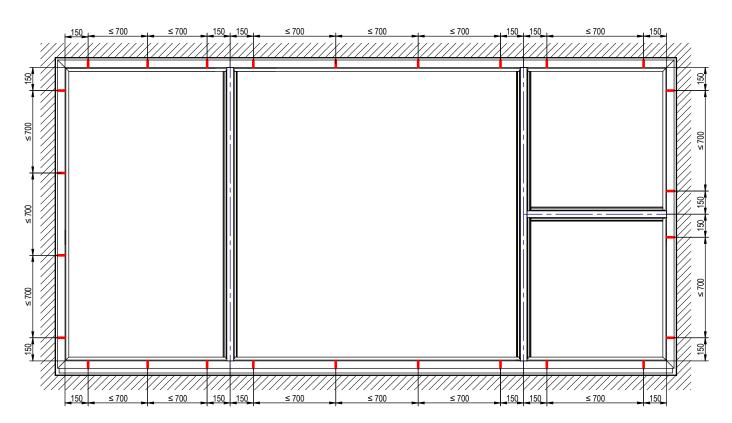
Ordering and installation dimensions for windows and PSK

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



Wall plug hole spacing

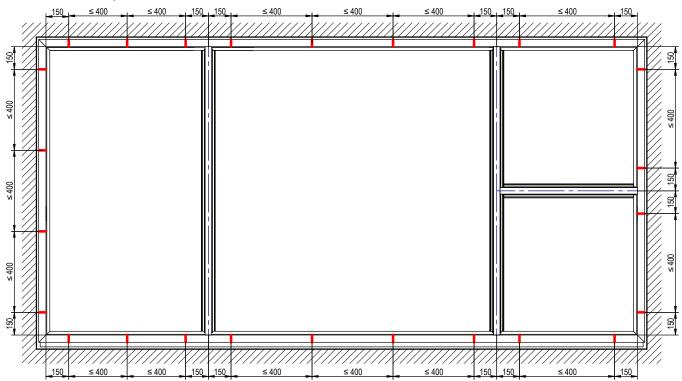
For white and colour profiles





Dowel hole spacing in the SECURITY anti-burglary version

For white and colour profiles



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,
- In window leafs, the RU function is always used for calculation. When pricing structures which are not listed in the price list, please contact the Sales Department.
- · We reserve the right to estimate the final value and determine the feasibility of production of the joinery.









Win	dow type	DEVELO	DEVELO with a low threshold
Number of chambers in the frame		6	6
Install	lation depth	76 mm	76 mm
Profile core		white, anthracite	white, anthracite
Gaske	ets around the circumference	3	3
Struct	tural reinforcement	steel hollow section in the frame	steel hollow section in the frame
Stand	lard glass unit	two-chamber 4/18/4/18/4 U _g =0.5 W/m²K	two-chamber 4/18/4/18/4 U _g =0.5 W/m²K
	Drive gear with a lifting mishandling device and a leaf lifter	•	•
	Moving rollers i.S.	•	•
vare	Alloy catches, two anti-burglary catches in the RU leaf	•	•
hardv	Microventilation in scissor stay	•	•
Standard hardware	Surface hinges with pressure adjustment	•	•
Stan	Bottom striker plate in the RU leafs	•	•
	Anti draught lock in RU	•	•
	Balcony catch in the balcony window	•	•
	Aluminium threshold with a 25 mm widening	-	•
Handl	le	aluminium	aluminium
Also a	available in class(es)	SECURITY 1, SECURITY 2	SECURITY 1, SECURITY 2





Window type	DEVELO PSK
Number of chambers in the frame	6
Profile thickness	76 mm
Gaskets around the circumference	3
Structural reinforcement	steel hollow section in the frame
Standard glass unit	two-chamber 4/18/4/18/4 U _g =0.5 W/m²K
Hardware	tilt and slide, parallel-stop-slide
Handle	aluminium
Also available in class(es)	PSK Standard and PAS – SECURITY 2 Scheme A
Widening 25 mm	-



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