

2013 | PRODUCT CATALOGUE

POL-SKONE EXTERIOR DOORS AND WINDOWS



 **POL-SKONE®**
DOORS AND WINDOWS

www.pol-skone.eu

 PRZEDSIĘBIORSTWO
FAIR PLAY 2012



The mark of
responsible forestry

Search for products
with the FSC® mark
in our offer



PRODUCTION PLANT NO 1 IN LUBLIN



PRODUCTION PLANT NO 2 IN NIEMCE



PRODUCTION PLANT NO 3 IN BIŁGORAJ

We are responsive to our Clients' aspirations

POL-SKONE was established in 1990 and has since then developed its long-term experience in the production of window and door systems. Therefore, it has been an essential aspect of our business to offer the best practical specifications, impressive design and durable solutions. While creating our exterior window and door woodwork, we have not only followed innovative trends in the construction sector but have also taken into account the diversity of our Clients' tastes and requirements. The wide available selection of patterns, colour versions, muntins and accessories makes it possible to put every façade arrangement concept into effect. The carefully designed structural solutions guarantee stability while the innovative weather sealing systems ensure the ultimate sound and thermal insulation capability. Our offer also includes solid hardware which makes our products secure and comfortable to use. Look through our offer for more details.

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Exterior door tailored to your needs

The exterior door "welcomes us and our guests" every day and it makes the most representative part of the building. For that reason, it is worth taking care of its elegant appearance and matching with the style of the façade. Harmoniously matched with windows, it will provide the building with a unique character, guard our security and protect our privacy. Therefore it should not only be beautiful but also solid and secure. POL-SKONE offers many types of exterior doors: modern or classic, flush, glazed or decorative. Our diverse offer will let you choose the door which will emphasize the individual style of the house residents.

When choosing an exterior door, it is worthwhile to pay attention not only to matching the door style with the house interior and its façade, but also to its features and technical specifications. The Polish building standards precisely define some specifications which the entrance door should comply with. These are basic requirements which have to be observed by every manufacturer. Here are a few most important parameters and criteria which matter when choosing the exterior door.

Specifications, or be sure that you know what you get

Door dimensions - are also precisely determined by the regulations. According to the standard, the entrance door should be at least 200 cm high and at least 90 cm wide. This also applies to double leaf doors. Such dimensions enable unconstrained communication and transport, e.g. of furniture.

Thermal insulation capability - none of us wants the interior warmth to escape through loose, badly designed and improperly built door. The Polish standards prevent this by indicating the so-called heat transfer coefficient, designated by the letter U. According to the regulations, this coefficient may not be higher than $U < 2.6 \text{ W/(m}^2\text{k)}$. Principally, the lower the coefficient is, the smaller the heat losses are. This type of door includes the entrance door leaves offered under the POL-SKONE brand: Elegant or Ontario which perfectly comply with the Polish standards and meet even the most excessive requirements of our clients.

Security above all

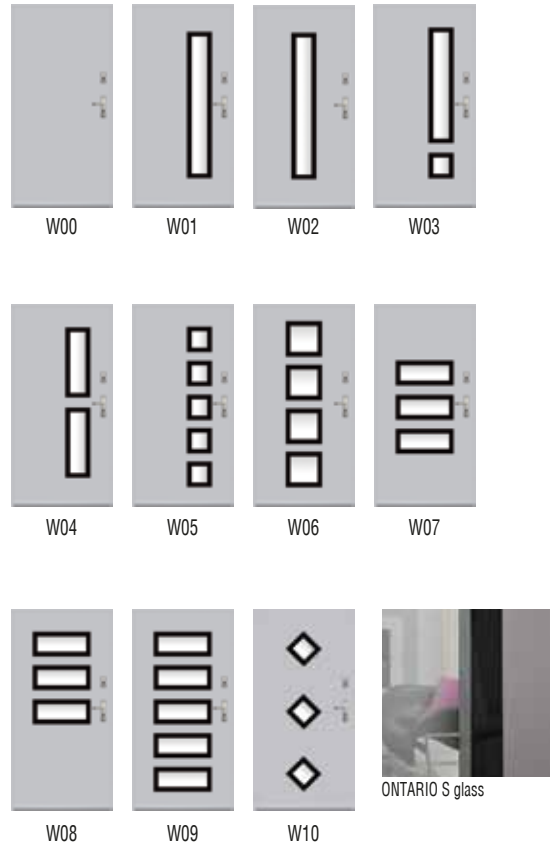
Security of the house secure is without a doubt the most important issue. Therefore, it is so important to consider well the choice of the proper hardware for our exterior door. All the standard doors offered by POL-SKONE are equipped with multi-point class 4 locks, depending on the specific model. They can be additionally equipped with security bolts which provide solid protection against a burglary attempt. The POL-SKONE doors are also available with glazing sets which enhance the aesthetics of the door while maintaining its security level due to the use of the anti-burglary glazing sets.

House with soul, or this is my style

The aesthetics is highly important because the exterior door leaves represent our house and tell our visitors what they can expect when they open the door. POL-SKONE offers several patterns featuring the classic form and vanguard models inspired by modern styles. The standard product portfolio includes doors in the colours of white and brown. The door can be painted in one of the RAL and NCS palette colours or coated with a transparent paints on individual requests.



LEAVES (versions)

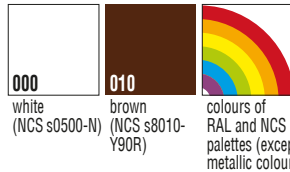


COVERING PAINTS

Environment friendly acrylic paints

Standard colours

Optional colours*



* available at extra charge after consultation with the Sales Department – see p. 31

TRANSPARENT PAINTS

Colours on oak p. 31

WAY OF OPENING

- Outwards (roofing is recommended)

STRUCTURE

- Rebated system
- Door leaf structure: pine wood rail and stile set reinforced with a steel profile topped with two wood-alike boards covered with natural oak veneer, surface of boards painted with covering or transparent paints, the core made of a thermal insulation layer
- Leaf thickness: 60 mm
- Oak threshold
- **Heat transfer coefficient**
 $U_g = 0.94 \text{ W/m}^2\text{K}$ for the W00 version with pine wood frame, in accordance with PN-EN 14351-1+A1:2010
 $U_g = 0.97 \text{ W/m}^2\text{K}$ for the W00 version with oak wood frame, in accordance with PN-EN 14351-1+A1:2010
- Door frame: 100x60 mm, the pine frame: version painted with covering paints; the oak frame: version painted with transparent paints.
- Double weather strip system (around the perimeter of the door leaf and the door frame)

GLAZING

- Glazing set: the transparent STEPS glass pane combined with the class P4 anti-burglar glass pane

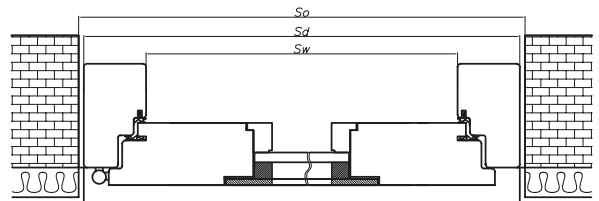
HARDWARE

- Class 4 multipoint ROTO lock (strip-type lock) for two cylinders screw-in hinges adjustable in three planes – 4 units, security bolts; class 6 cylinders (class C) and hinge caps available at extra charge

COLOURS

- Standard: covering paints – white NCS s0500N and brown NSC s8010-Y90R
- Option: colours of RAL and NCS palettes (except the metallic colours) – available at extra charge according to the POL-SKONE colour specification table
- Transparent paints: colours on oak; see p. 31

DIMENSIONS



Single leaf door width			
Type	Sw	Sd	So
"80"	802*	922	940
"90"	902	1022	1040
"100"	1002	1122	1140
height: (Hd) 2082, (Ho) 2090, (Hw) 2002			

So, Ho – recommended installation dimension
 Sd, Hd – door width / height
 Sw, Hw – passage clearance width / height

* The smallest door width in the emergency escape route clearance should be 900 mm, pursuant to the regulation by the Minister of Infrastructure dated April 12, 2002, in the matter of the technical requirements to be met by buildings and their locations (Journal of Laws no 75, 2002, item 690 with further amendments; Journal of Laws no 33, 2003, item 270; Journal of Laws no 109, 2004, item 1156).



LEAVES (versions)

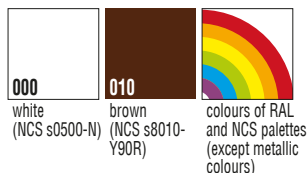


COVERING PAINTS

Environment friendly acrylic paints

Standard colours

Optional colours*



TRANSPARENT PAINTS

Colours on oak p. 31

* available at extra charge after consultation with the Sales Department – see p. 31

WAY OF OPENING

- Outwards (roofing is recommended)

STRUCTURE

- Rebated system
- Door leaf structure: pine wood rail and stile set reinforced with a steel profile topped with two wood-alike boards covered with natural oak veneer, surface of boards painted with covering or transparent paints, the core made of a thermal insulation layer
- Leaf thickness: 60 mm
- Oak threshold
- **Heat transfer coefficient**
 $U_p = 0.94 \text{ W/m}^2\text{K}$ for the 00 version with pine wood frame, in accordance with PN-EN 14351-1+A1:2010
 $U_p = 0.97 \text{ W/m}^2\text{K}$ for the 00 version with oak wood frame, in accordance with PN-EN 14351-1+A1:2010
- Door frame: 100x60 mm, the pine frame: version painted with covering paints; the oak frame: version painted with transparent paints.
- Double weather strip system (around the perimeter of the door leaf and the door frame)

GLAZING

- P4 class anti-burglar double glazing set combined with clear (transparent) glass, options available at extra charge: tinted glass panes, reflex glass panes and other ornaments

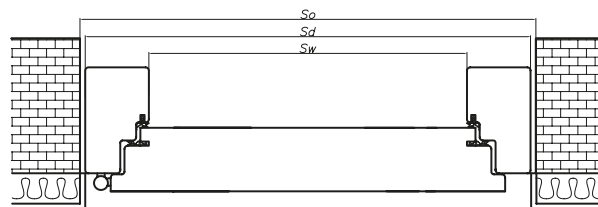
HARDWARE

- Class 4 multipoint ROTO lock (strip-type lock) for two cylinders screw-in hinges adjustable in three planes – 4 units, security bolts; class 6 cylinders (class C) and hinge caps available at extra charge

COLOURS

- Standard: covering paints – white NCS s0500N and brown NSC s8010-Y90R
- Option: colours of RAL and NCS palettes (except the metallic colours) – available at extra charge according to the POL-SKONE colour specification table
- Transparent paints: colours on oak; see p. 31

DIMENSIONS



Single leaf door width			
Type	Sw	Sd	So
"80"	802*	922	940
"90"	902	1022	1040
"100"	1002	1122	1140
height: (Hd) 2082, (Ho) 2090, (Hw) 2002			

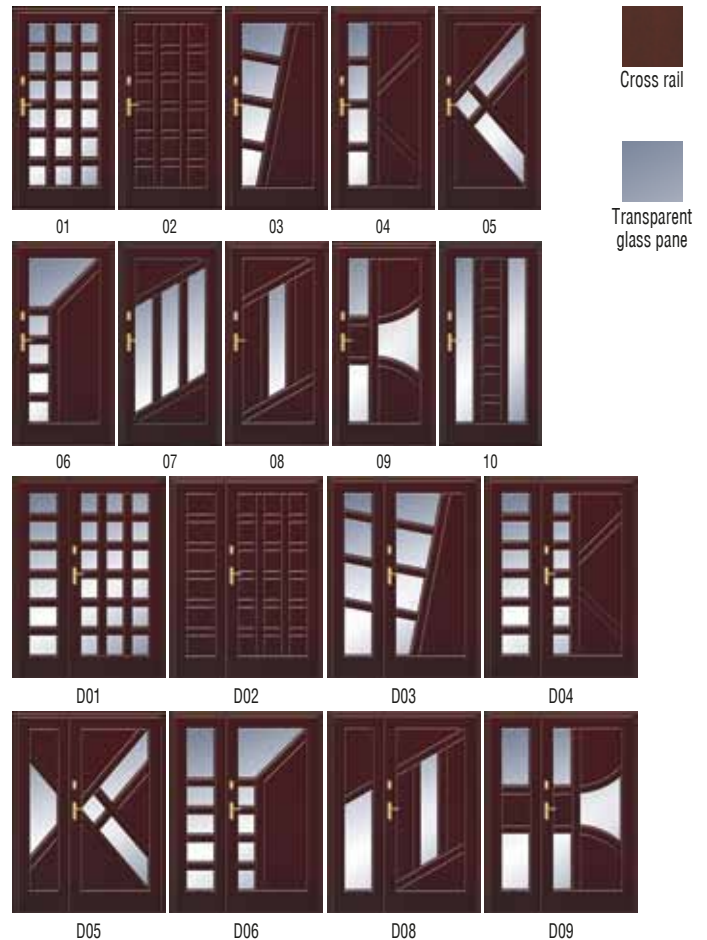
So, Ho – recommended installation dimension
 Sd, Hd – door width / height
 Sw, Hw – passage clearance width / height

* The smallest door width in the emergency escape route clearance should be 900 mm, pursuant to the regulation by the Minister of Infrastructure dated April 12, 2002, in the matter of the technical requirements to be met by buildings and their locations (Journal of Laws no 75, 2002, item 690 with further amendments; Journal of Laws no 33, 2003, item 270; Journal of Laws no 109, 2004, item 1156).

ELEGANT pine, oak



LEAVES (versions)



The icons represent the dimensions: "90+40" and "90+50", other dimensions are available after consultation with our Sales Department

DOOR TYPE	
Single leaf door door pattern	01, 02, 03, 04, 05, 06, 07, 08, 09, 10
Double leaf door "90+40" door pattern	D01, D02, D03, D04, D05, D06, D07, D08, D09
Double leaf door "90+50" door pattern	D01, D02, D03, D04, D05, D06, D07, D08, D09
Double leaf door "90+60" door pattern	D01, D02, D03, D04, D05, D06, D07, D08, D09
Double leaf door "90+70" door pattern	D01, D02, D03, D04, D05, D06, D07, D08, D09
Double leaf door "90+80" door pattern	D01, D02, D03, D04, D05, D06, D07, D08, D09
Double leaf door "90+90" door pattern	D01, D02, D03, D04, D05, D06, D07, D08, D09

oak leaf is available at extra charge

COVERING PAINTS

Environment friendly acrylic paints

Standard colours



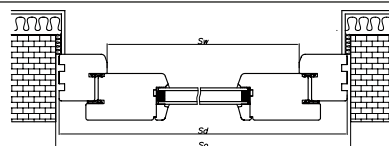
Optional colours*



TRANSPARENT PAINTS

Colours on oak p. 31

DIMENSIONS



So, Ho – recommended installation dimension
Sd, Hd – door width / height
Sw, Hw – passage clearance width / height

Single leaf door				Double leaf door			
Type	(So)	(Sd)	(Sw)	Type	(So)	(Sd)	(Sw)
"90"	1075	1045	905	"90"+"40"	1600	1570	1430
"100"	1175	1145	1005	"90"+"50"	1700	1670	1530
				"90"+"60"	1800	1770	1630
				"90"+"70"	1900	1870	1730
				"90"+"80"	2000	1970	1830
				"90"+"90"	2100	2070	1930

height: (Ho) 2105, (Hd) 2090, (Hw) 2000

WAY OF OPENING

- Outwards or inwards (roofing is recommended)

STRUCTURE

- Rebated system
- Door frame made of pine or oak glued laminated wood, 68 mm thick, the core made of a glass pane set and a decorative thermal insulation panel, the standard model includes low 20 mm oak threshold (optionally: low 21 mm aluminium threshold), wooden drip cap, a system of double rubber weather strips
- Pine or oak door frame
- Heat transmission coefficient $U_0=1.6 \text{ W/m}^2\text{K}$ (selected pine wood); $U_0=1.8 \text{ W/m}^2\text{K}$ (selected oak wood) for the reference single leaf door, pattern 03, in accordance with PN-EN 14351-1+A1:2010

GLAZING

- Class P4 anti-burglar double glazing set combined with the transparent glass paned with the UD heat transfer coefficient of $U_0=1.3 \text{ W/m}^2\text{K}$ in accordance with EN 673
- Optional (available at extra charge): tinted glass panes, reflex glass panes, ornaments and other

HARDWARE

- Standard: a multi-point class 4 (strip type) ROTO lock for two cylinders, screw-in hinges adjustable in three planes – 3 units, security bolts; class 6 cylinders (class C) and hinge caps available at extra charge
- Option: multi-point strip type lock with automatic bolting for two cylinders [the class 6 cylinders (Class C) available at extra charge] – spacing: 92 mm, adjustable screwed-in hinges - 3 units, security bolts, hinge caps available at extra charge
- Handles offered by POL-SKONE – see p. 10

COLOURS

- Standard: covering paints white NCS s0500N and brown NCS s8010-Y90R
- Option: colours of RAL and NCS palettes (except the metallic colours) – available at extra charge according to the colour specification table
- Transparent paints: colours on pine and oak wood (p. 31)

* Please, indicate the door opening direction (inwards or outwards) while ordering a cylinder with a knob

Sidelights / toplights for the ELEGANT doors - p. 9

SIDELIGHTS AND TOPLIGHTS

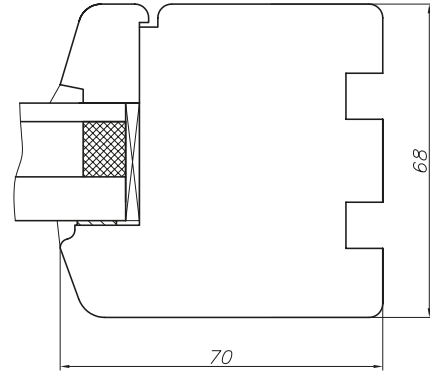
FOR THE ELEGANT DOOR



FOR THE ONTARIO DOOR

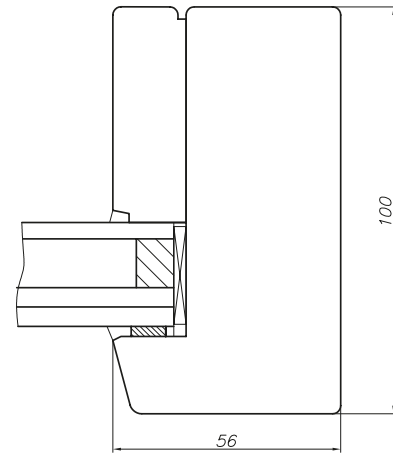


POL-SKONE offers wooden sidelights and toplights, glazed with the P4/12/4 class anti-burglar glass.



Minimum size of a sidelight / toplight: 350 mm (both width and height).
Prices for sidelights / toplights glazed with transparent P4/12/4 glass of a rectangular shape.
In case of the arched shape, muntins, ornamental glass, ANTISOL and STOPSOL types – the price is subject to individual calculation.

POL-SKONE offers wooden sidelights and toplights, glazed with the P4/12/6 class anti-burglar glass



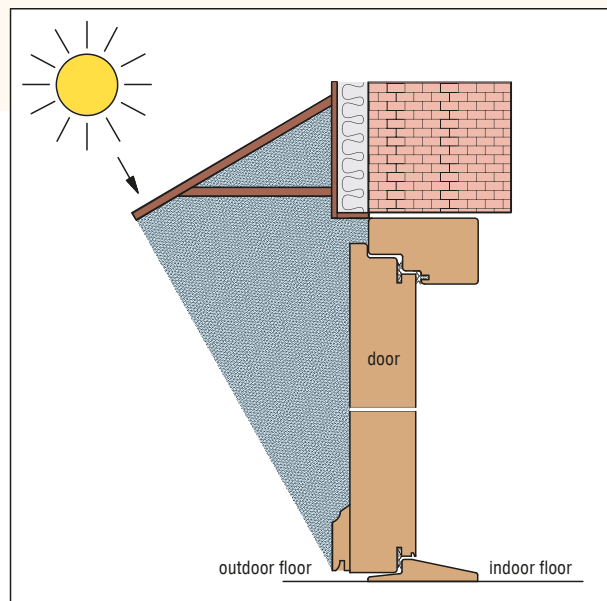
Minimum size of a sidelight / toplight: 250 mm (both width and height).
Prices for sidelights / toplights glazed with transparent P4/12/6 glass of a rectangular shape.
In case of muntins, ornamental glass, ANTISOL and STOPSOL types – the price is subject to individual calculation.

Layouts available upon consultation with our Sales Department

ROOFING

FOR THE ONTARIO, ONTARIO S DOOR

External door should be protected against the direct impact of precipitation and sunshine by installing them in a recess or installing a roof above the door installed in straight walls. The roofing should project beyond the contour of the open door and shade the door at noon, during the summertime.



HANDLES FOR EXTERIOR DOORS

CYLINDERS FOR EXTERIOR DOORS

SPECIFICATION OF HANDLES

Item	Cylinder size	Manufacturer	ONTARIO				ELEGANT				ONTARIO S	
			With the primo II handle		With the prestige handle, with and without cylinder protection		With the primo II handle		With the prestige handle, with and without cylinder protection		With the primo II handle	With the prestige handle, with and without cylinder protection
			All versions except 05	Version 05	All versions except 05	Version 05	Opened inwards	Opened outwards	Opened inwards	Opened outwards	All versions	All versions
1	45x45G	Wilka		x								
2	40x40G	Wilka	x		x						x	x
3	50x50G	Wilka				x						
4	35x55G	Wilka					x		x			
5	35Gx55	Wilka						x		x		



JANE

colour	chrome / nickel	brown grafiato
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spacing 92 mm



PRIMO II*

colour	golden	chrome
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PRESTIGE*


colour	golden	chrome / inox
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spacing 92 mm



the 6 class (C class) cylinder: 30/30, 30/35, 35/35, 40/35
a complete set – 2 units (incl. the knob)
golden, nickel-sat

NOTE! The ONTARIO door, pattern 05, requires:
* an adapter set for the PRIMO II, PRESTIGE handle (bolts: 91 mm)



Wood is a natural material which has been used to manufacture windows for centuries. It is extraordinarily durable, warm when touched and easy to form. Therefore, wooden windows not only make living comfortable but also serve as a unique decoration of the interior.

POL-SKONE has developed a wide offer of extremely durable windows made of carefully selected laminated wood for those who prefer natural architectural solutions, combining high specifications with timeless appearance. The rich assortment includes models made of pine, meranti or oak wood, which can be varnished in a selected colour. Various shapes and glass pane division options allow creating any visual effect, from modern windows with large pane area to traditional models, typical for the mansion cottage style. Most importantly, the POL-SKONE windows are very warm, provide comfort and silence, and do not warp, even in the most demanding climate conditions. Thanks to the top quality raw materials, carefully designed weather sealing and special types of glazing, they comply with all building standards and make a good choice for many years.



Window tailored to your needs...

When choosing a window, special attention should be paid to its key specifications which determine its technical characteristics, functionality and usability. Knowing the properties of the chosen windows is crucial for getting the satisfaction from their future use.

Heat transferability, or let us keep it warm and economical

Wood features very good thermal insulation capability and therefore allows manufacturing windows with high specifications. Proper glass pane sets will ensure minimising the loss of heat, contributing to the energy savings in our house.

The basic information which communicates the window thermal insulation capability is the U_w heat transfer coefficient. This coefficient determines the amount of heat which penetrates through the window. The lower it is for a specific window structure, the better protection our house gets against the undesired loss of heat.

Water tightness, or we do not worry about storm, snow and hail

The window should protect the interior of our house from the weather conditions, such as wind and rainwater. Therefore, the window must be equipped with proper weather sealing and, when necessary, covering elements in the form of drip caps which prevent water from leaking inside the house during lashing rain.

The window property which is characterised by the water tightness class informs about the wind force level at which water will penetrate through the window surface during rainfalls.

The window standard determines 9 water tightness classes, from class 1A to 9 A; however, the continuous progress of the window manufacturing technology and the continuous product improvement have made it necessary to introduce the highest class marked with the letter E and a number informing about the water test pressure at which the window remains resistant to rainwater. The windows offered by POL-SKONE achieve the highest water tightness values up to the class E 1500 inclusively which makes them suitable even for use in the demanding mountainous climate.

Wind load resistance, or when the wind blows outside

When living on high floors, in an area exposed to more intense wind blows, the window should be chosen with special regard being given to the significance of the resistance to wind blow coefficient. It merely communicates the information of a maximum acceptable deflection of the most distorted element of the window which will occur reaching a specific wind load value, the wind impact being perpendicular to the window plane. The standards determine 3 classes of resistance to the load: A, B, C, which practically means that the lowest resistance to deflection will be designated by the letter A while the most resistant window will be assigned the letter C. Considering our climate conditions, the class B window provides sufficient protection whenever a strong wind blows outside.

We at Pol-Skone understand our Clients' need for comfort and peace of mind and therefore our product range includes the C class windows.

Air permeability, or fresh air inside

The windows chosen for your house should be tight - it should neither let windblows nor water through itself. However, the very important factor is the air infiltration defined by the coefficient "a" which means of the air penetrating through 1 meter of the window gap within an hour, the pressure difference being equal to 1 daPa/ m^3 . Although it may seem rather complicated, it is enough to know that the air permeability test is described by means of 4 classes where class 4 comprises windows which are entirely tight. The hardware with microventilation will enable optimum exchange of air, allowing us to open the window only when it is necessary.

Acoustic properties, or "hush hush"

Adequate protection from noise is important, particularly for those who live in areas with high noise volume. Windows with appropriately good acoustic properties will allow reducing the interior sound volume. POL-SKONE offers wooden windows which provide the right protection against noise, thanks to their well considered design solutions. Some models are distinguished for the very high level of their insulation capability, up to $R_w = 46$ dB, being able to keep silence even in the loudest environment.

WOODEN CASEMENT WINDOWS



Glazing set: 4 Float / 16 Argon / 4 Thermofloat
1.0 Ug=1.0 W/m²K in accordance with EN 673

Single 4 mm thick glass pane

Aluminium spacer edge

Silicone

Wooden glazing bead

Moisture absorbent

Aluminium glazing drip cap

High impact vinyl polychloride pad

Aluminium drip cap with an additional weather strip

Profile weather strip

Glued laminated pine wood

WAYS OF OPENING (view from the outside)



side hung right-hand side hung left-hand tilt and turn right-hand tilt and turn left-hand

SPECIFICATIONS



thermal transmittance: 1.1



water tightness: 4A



air permeability: 4



resistance to wind load: C3



acoustic properties: 34 (-2,-5)

HINGE CAPS

Standard colours: white, brown

Optional colours: golden, medium brown-olive, titanium-matt, silver

DRIP CAP

Aluminium drip cap with a weather strip in the colours of: white, brown, silver, olive, golden

Optionally: wooden drip cap recommended for historical buildings

MUNTINS (optional)

Exterior glass pane – structural (58, 78 mm), Vienna type (glued), wooden fixed by means of clasp locks, wooden fixed on hinges, aluminium between glass panes (8, 18, 26, 45 mm)

Interior glass pane – structural (58, 78 mm), Vienna type (glued)

WEATHER STRIP

Exterior leaf – two profile weather strips: the main strip and the edge strip

Interior leaf – one profile weather strip, the edge strip

WAY OF OPENING

Side hung, tilt and turn

ADDITIONAL WINDOW ACCESSORIES

Handles, decorative elements for the meeting stile, the MVS window opening magnetic sensor

STRUCTURE

Single frame window and balcony door, thickness of leaves: the exterior leaf - 68 mm, the interior leaf - 44 mm, frame thickness: 190 mm, glazing bead: R=5 mm; optional: S-System

FRAME AND LEAF MATERIAL

Glued laminated pine wood

Heat transfer coefficient U=1.1 W/m²K for the reference window 1.23 x 1.48m in accordance with PN-EN 14351-1+A1:2010

FINISH

Water soluble covering paints or transparent paints, a three-layer covering system, a four-layer transparent system

GLAZING

Exterior glass pane - glazing set: 4 Float / 16 Argon / 4 Thermofloat 1.0 Ug=1.0 W/m²K in accordance with EN 673

Glass types available on request: laminated, anti-burglar (P2, P4), sound absorbing, ornamental, Antisol (body-tinted), Stopsol (a mirror reflection effect), self-cleaning, the thermopanel, the warm spacer edge

Interior glass – a 4 mm thick single glass pane

HARDWARE

Circumferential Roto NT with microventilation (except arched windows) and three-dimensional adjustment, a security protection set, a handle incorrect position lock

Items available on request: a handle controlled opening limiter, security hardware

Heat transfer coefficient: 1.1 (W/m²K) for the 1.23 x 1.48 m window



The FSC® PURE certificate is held by: single frame windows - made of pine and oak (available on the Customer's request), single frame balcony doors without the thermopanel – made of pine and oak (available on Customer's request)

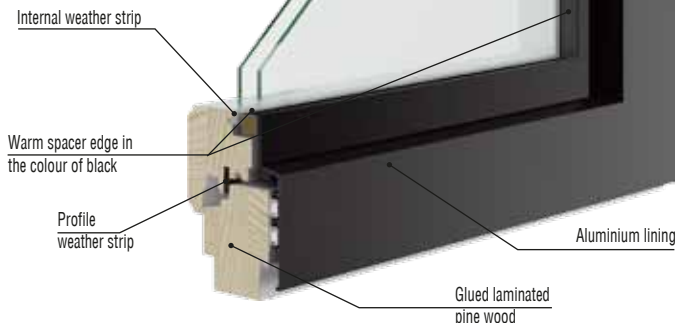
The window prices are calculated according to the modular price list available at the points of sale. Windows other than rectangular are made to individual designs.

Warranty up to 10 years - look through the documentation attached to the product for the detailed terms and conditions.

STEPS WOOD-ALUMINIUM WINDOW



Glazing set Steps 4 Float / 16 Argon / 4 Thermofloat 1.0 Ug=1.0 W/m²K in accordance with EN 673



WAYS OF OPENING (view from the outside)



side hung right-hand side hung left-hand tilt tilt and turn right-hand tilt and turn left-hand

SPECIFICATIONS



thermal transmittance: 1.3



water tightness: E 1500



air permeability: 4



acoustic properties: 34 (-2;-5)

STRUCTURE

Single frame window and balcony door, wooden and aluminium, the thickness of the frame with aluminium lining: 78 mm, the wooden frame thickness: 68 mm

FRAME AND LEAF MATERIAL

Glued laminated pine wood, optional: oak wood (for colours, see p. 31)

Heat transfer coefficient $U=1.3 \text{ W/m}^2\text{K}$ for the reference window of the dimensions: 1.23 x 1.48m in accordance with PN-EN 14351-1+A1:2010

FINISH

Water soluble covering paints or transparent paints, a three-layer covering system, a four layer transparent system, powder painted aluminium, the RAL basic colours: 9016, 9007, 9006, 9005, 8019, 8017, 8011, 8007, 8003, 8001, 7042, 7035, 7001, 6029, 6005, 5015, 5013, 5010, 3003, 3002, 1033, 1013 (other colours of the RAL palette are available at extra charge)

GLAZING

Glazing set with glass Steps 4 Float / 16 Argon / 4 Thermofloat 1.0 Ug=1.0 W/m²K in accordance with EN 673 with black warm edge between glass panes

Glass types available on request: tempered, Antisol (body-tinted), Stopsol (a mirror reflection effect)

HARDWARE

Circumferential Roto NT with microventilation and three-dimensional adjustment, with a security protection set, a handle incorrect position lock
Hardware available on request: a handle controlled opening limiter, security hardware, Roto Royal - a hidden hinge

HINGE CAPS

Standard colours: white, brown

Optional colours: golden, medium brown-olive, titanium-matt, silver

WEATHER STRIP

Profile weather strip

WAY OF OPENING

Fixed, tilt, side hung, tilt and turn

ADDITIONAL WINDOW ACCESSORIES

Handles, the Geze top mounted window openers, the MVS window opening magnetic sensor

The window prices are calculated according to the modular price list available at the points of sale.
Windows other than rectangular are made to individual designs.
Warranty up to 10 years - look through the documentation attached to the product for the detailed terms and conditions.

The FSC® PURE certificate is held by: single frame windows and doors - made of pine and oak (available on the Customer's request)



POL-SKONE TYPE C WOODEN



Glazing set: 4 Float / 16 Argon / 4 Thermofloat 1.0
Ug=1.0 W/m²K in accordance with EN 673

Aluminium spacer edge

Silicone

Wooden glazing bead

Moisture absorbent

Aluminium glazing drip cap

High impact vinyl polychloride pad

Aluminium drip cap with an additional weather strip

Profile weather strip

Glued laminated pine wood (optional: oak or meranti)

WAYS OF OPENING (view from the outside)



side hung right-hand



side hung left-hand



tilt



tilt and turn right-hand



tilt and turn left-hand

SPECIFICATIONS



thermal transmittance: 1.3



water tightness: E 1200



air permeability: 4



resistance to wind load: C2



acoustic properties: 34 (-2;-5)

HINGE CAPS

Standard colours: white, brown

Optional colours: golden, medium brown-olive, titanium-matt, silver

DRIP CAP

Aluminium drip cap with a weather strip in the colours of: white, brown (standard); silver, olive, golden; (optionally): a wooden drip cap recommended for historical buildings

MUNTINS (optional)

Structural (58, 78 mm), Vienna type (glued), wooden fixed by means of clasp locks, wooden fixed on hinges, aluminium between glass panes (8, 18, 26, 45 mm)

WEATHER STRIP

Two profile weather strips, the main strip and the edge strip

WAY OF OPENING

Fixed, tilt, side hung, tilt and turn

ADDITIONAL WINDOW ACCESSORIES

Handles, a humidity sensitive air inlet, the Renson air inlet, decorative elements for the meeting stile, the Geze top mounted window openers, the MVS window opening magnetic sensor

STRUCTURE

Single frame window and balcony door, the leaf thickness: 68 mm, the window frame thickness: 68 mm, glazing bead: R=5 mm; optional: S-System

FRAME AND LEAF MATERIAL

Glued laminated pine wood, optional: oak or meranti (for colours, see p. 31)

FINISH

Water soluble covering paints or transparent paints, a three-layer covering system, a four-layer transparent system

GLAZING

Glazing set 4 Float / 16 Argon / 4 Thermofloat 1.0 Ug=1.0 W/m²K in accordance with EN 673
Glass types available on request: laminated, anti-burglar (P2, P4), sound absorbing, ornamental, Antisol (body-tinted), Stopsol (a mirror reflection effect), self-cleaning, the thermopanel, the warm spacer edge, a triple glass pane set 4 Thermofloat / 10 Argon / 4 Float / 10 Argon / 4 Thermofloat Ug=0.8 W/m²K in accordance with EN 673

HARDWARE

Circumferential Roto NT with microventilation (except arched windows) and three-dimensional adjustment, with a security protection set, a handle incorrect position lock. Items available on request: a handle controlled opening limiter, a double-sided handle with a key cylinder, security hardware, Roto Royal – a hidden hinge



The FSC® PURE certificate is held by: single frame windows - made of pine and oak (available on the Customer's request), single frame balcony doors without the thermopanel – made of pine and oak (available on Customer's request)

The window prices are calculated according to the modular price list available at the points of sale. Windows other than rectangular are made to individual designs. Warranty up to 10 years - look through the documentation attached to the product for the detailed terms and conditions.

SCANDINAVIAN SYSTEM WOODEN



Glazing set: 4 Float / 16 Argon /
4 Thermofloat 1.0 Ug=1.0 W/m²K in accordance with EN 673
Aluminium spacer edge

Silicone

Wooden glazing bead

Moisture absorbent

Aluminium
glazing drip cap

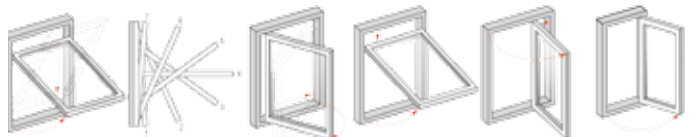
Glazing
gasket

High impact vinyl
polychloride pad

Foam or profile
weather strip

Glued laminated pine wood
(optional: oak or meranti)

WAYS OF OPENING (view from the outside)



PN UNI TOP SWING

PN UNI
SIDE SWING

PN UNI
TOP HUNG

PN UNI
SIDE HUNG I

PN UNI
SIDE HUNG II

SPECIFICATIONS



thermal
transmittance: 1.3



water tightness:
7A



air permeability: 4



resistance to wind
load: C3/B2



acoustic properties:
33 (-2;-5)



STRUCTURE

Single frame window and balcony door, opened outwards, the frame thickness: 104 mm, the leaf thickness: 68 mm, glazing bead: S-System; optional: R=5 mm

FRAME AND LEAF MATERIAL

Glued laminated pine wood, optional: oak or meranti (for colours, see p. 31)

FINISH

Water soluble covering paints or transparent paints, a three-layer covering system, a four-layer transparent system

GLAZING

Glazing set 4 Float / 16 Argon / 4 Thermofloat 1.0 Ug=1.0 W/m²K in accordance with EN 673
Glass types available on request: laminated, anti-burglar (P2, P4), sound absorbing, ornamental, Antisol (body-tinted), Stopsol (a mirror reflection effect), self-cleaning, a thermopanel, a warm spacer edge, a triple glass pane set 4 Thermofloat / 10 Argon / 4 Float / 10 Argon / 4 Thermofloat Ug=0.8 W/m²K in accordance with EN 673

HARDWARE

Roto NT, PN Beslag, with a security protection set, a rotation lock, a handle controlled opening limiter (balconies)

Items available on request: a double-sided handle with a key cylinder

DRIP CAP

Leaf drip cap in the colours of: white, brown (standard); silver, olive, golden (optional); a wooden drip cap recommended for historical buildings

MUNTINS (optional)

Structural (58, 78 mm), Vienna type (glued), wooden fixed by means of clasp locks, wooden fixed on hinges, aluminium between glass panes (8, 18, 26, 45 mm)

WEATHER STRIP

Profile or foam weather strip

WAY OF OPENING

Fixed, side hung, pivot Top Swing, Side Swing, Top Hung, Side Hung

ADDITIONAL WINDOW ACCESSORIES

Handles, a humidity sensitive air inlet, the Renson air inlet

The window prices are calculated according to the modular price list available at the points of sale.
Windows other than rectangular are made to individual designs.
Warranty up to 10 years - look through the documentation attached to the product for the detailed terms and conditions.

The FSC® PURE certificate is held by: single frame windows - made of pine and oak (available on the Customer's request), single frame balcony doors without the thermopanel - made of pine and oak (available on Customer's request)



POL-SKONE S-SYSTEM WOODEN



Glazing set: 4 Float / 16 Argon / 4 Thermofloat 1.0 Ug=1.0 W/m²K in accordance with EN 673

Aluminium spacer edge

Silicone

Wooden glazing bead

Moisture absorbent

Aluminium glazing drip cap

Glazing gasket

High impact vinyl polychloride pad

Profile weather strip

Aluminium drip cap with a thermal insert

Glued laminated pine wood (optional: oak or meranti)

WAYS OF OPENING (view from the outside)



side hung right-hand



side hung left-hand



tilt



tilt and turn right-hand



tilt and turn left-hand

SPECIFICATIONS



thermal transmittance: 1.3



water tightness: 9A



air permeability: 4



resistance to wind load: C3



acoustic properties: 34 (-2;-5)

HINGE CAPS

Standard colours: white, brown

Optional colours: golden, medium brown-olive, titanium-matt, silver

DRIP CAP

Aluminium drip cap with a thermal insert in the colours of: white, brown (standard); silver, olive, golden; (optionally): a wooden drip cap recommended for historical buildings

MUNTINS (optional)

Structural (58, 78 mm), Vienna type (glued), wooden fixed by means of clasp locks, wooden fixed on hinges, aluminium between glass panes (8, 18, 26, 45 mm)

WEATHER STRIP

Profile or foam weather strip

WAY OF OPENING

Fixed, tilt, side hung, tilt and turn, pivot

ADDITIONAL WINDOW ACCESSORIES

Handles, a humidity sensitive air inlet, the Renson air inlet, decorative elements for the meeting stile, the Geze top mounted window openers, the MVS window opening magnetic sensor

STRUCTURE

Single frame window and balcony door, the leaf thickness: 68 mm, the frame thickness: 68 mm, glazing bead: S-System; optional: R=5 mm

FRAME AND LEAF MATERIAL

Glued laminated pine wood, optional: oak or meranti (for colours, see p. 31)

FINISH

Water soluble covering paints or transparent paints, a three-layer covering system, a four-layer transparent system

GLAZING

Glazing set 4 Float / 16 Argon / 4 Thermofloat 1.0 Ug=1.0 W/m²K in accordance with EN 673
Glass types available on request: laminated, anti-burglar (P2, P4), sound absorbing, ornamental, Antisol (body-tinted), Stopsol (a mirror reflection effect), self-cleaning, a thermopanel, a warm spacer edge, a triple glass pane set 4 Thermofloat / 10 Argon / 4 Float / 10 Argon / 4 Thermofloat Ug=0.8 W/m²K in accordance with EN 673

HARDWARE

Circumferential Roto NT with microventilation (except for arched windows) and three-dimensional adjustment, with a security protection set, a handle incorrect position lock
Items available on request: a handle controlled opening limiter, a double-sided handle with a key cylinder anti-burglar hardware, Roto Royal - a hidden hinge



The FSC® PURE certificate is held by: single frame windows - made of pine and oak (available on the Customer's request), single frame balcony doors without the thermopanel - made of pine and oak (available on Customer's request)

The window prices are calculated according to the modular price list available at the points of sale. Windows other than rectangular are made to individual designs. Warranty up to 10 years - look through the documentation attached to the product for the detailed terms and conditions.

ENERGY CONCEPT 90 WOODEN



Planitherm ONE 4 / 16 Argon / Planilux 4 / 16 Argon /
Planitherm ONE 4 Ug=0.5 W/m²K
in accordance with EN 673

Aluminium glazing drip cap

Silicone

Moisture
absorbent

High impact vinyl
polychloride pad

Profile weather strip

Profile edge
weather strip

Aluminium drip cap
with a thermal insert

Glued laminated pine wood



WAYS OF OPENING (view from the outside)



side hung right-hand

side hung left-hand

tilt

tilt and turn right-hand

tilt and turn left-hand

SPECIFICATIONS



thermal
transmittance: 0.77



water tightness:
E 1200



air permeability: 4



resistance to wind
load: C3



acoustic properties:
35 (-1;-5)

STRUCTURE

Single frame window and balcony door, the leaf thickness: 90 mm, the window frame thickness: 90 mm, glazing bead: R=5 mm; optional: S-System

FRAME AND LEAF MATERIAL

Glued laminated pine wood, optional: oak wood (for colours, see p. 31)

FINISH

Water soluble covering paints or transparent paints, a three-layer covering system, a four-layer transparent system

GLAZING

Glazing set Planitherm ONE 4 / 16 Argon / Planilux 4 / 16 Argon / Planitherm ONE 4 Ug=0.5 W/m²K in accordance with EN 673 with the SGG Swisspacer spacer edge, a thermopanel

HARDWARE

Circumferential Roto NT with microventilation (except arched windows) and three-dimensional adjustment, a security protection set, a handle incorrect position lock
Items available on request: a handle controlled opening limiter, a double-sided handle with a key cylinder, anti-burglar protection, Roto Royal - a hidden hinge

HINGE CAPS

Standard colours: white, brown

Optional colours: golden, medium brown-olive, titanium-matt, silver

DRIP CAP

Aluminium drip cap with a thermal insert in the colours of: white, brown (standard); silver, olive, golden; (optionally): a wooden drip cap recommended for historical buildings

MUNTINS (optional)

Structural (68, 92 mm), wooden fixed by means of clasp locks, wooden fixed on hinges, aluminium fitted between glass panes in one glass chamber (8, 18, 26, 45 mm), Vienna type (glued)

WEATHER STRIP

3 profile weather strips, two main strips and one edge strip

WAY OF OPENING

Fixed, tilt, side hung, tilt and turn

ADDITIONAL WINDOW ACCESSORIES

Handles, decorative elements for the meeting stile, the Geze top mounted window openers, the MVS window opening magnetic sensor

Heat transfer coefficient: 0.77 (W/m²K) for the 1.23 x 1.48 m window

The window prices are calculated according to the modular price list available at the points of sale.
Windows other than rectangular are made to individual designs.
Warranty up to 10 years - look through the documentation attached to the product for the detailed terms and conditions.

The FSC® PURE certificate is held by: single frame windows - made of pine and oak (available on the Customer's request), single frame balcony doors without the thermopanel - made of pine and oak (available on Customer's request)



EC 90 SR 46 WOODEN



Glazing set VSG 66.2 Akustic /20 Argon / VSG 44.2 Thermofloat Akustic Ug=1.1 W/m²K in accordance with EN 673

Aluminium glazing drip cap

Silicone

Moisture absorbent

High impact vinyl polychloride pad

Profile weather strip

Profile edge weather strip

Aluminium drip cap with a thermal insert

Glued laminated pine wood

WAYS OF OPENING (view from the outside)



side hung right-hand

side hung left-hand

tilt

tilt and turn right-hand

tilt and turn left-hand

SPECIFICATIONS



water tightness:
E 1200



air permeability: 4



resistance to wind
load: C3

STRUCTURE

Single frame window and balcony door, the leaf thickness: 90mm, the window frame thickness: 90 mm, glazing bead: R=5 mm; optional: S-System

FRAME AND LEAF MATERIAL

Glued laminated pine wood (for colours, see p. 31)

FINISH

Water soluble covering paints or transparent paints, a three-layer covering system, a four-layer transparent system

GLAZING

Glass featuring the enhanced acoustic insulation capability, with the Thermofloat layer, filled with argon VSG 66.2 Akustic /20 Argon / VSG 44.2 Thermofloat Akustic with the acoustic insulation capability: Ug=1.1 W/m²K in accordance with EN 673

HARDWARE

Circumferential Roto NT with microventilation (except arched windows) and three-dimensional adjustment, with a security protection set, a handle incorrect position lock. Items available on request: a handle controlled opening limiter, security hardware,

HINGE CAPS

Standard colours: white, brown
Optional colours: golden, medium brown-olive, titanium-matt, silver

DRIP CAP

Aluminium drip cap with a thermal insert in the colours of: white, brown (standard); silver, olive, golden

MUNTINS

Structural (68, 92mm), wooden fixed by means of clasp locks, wooden fixed on hinges, Vienna type (glued)

WEATHER STRIP

3 profile weather strips, two main strips and one edge strip

WAY OF OPENING

Fixed, tilt, side hung, tilt and turn

ADDITIONAL WINDOW ACCESSORIES

Handles, decorative elements for the meeting stile, the MVS window opening magnetic sensor

Heat transfer coefficient: 1.3 (W/m²K) for the 1.23 x 1.48 m window
Window acoustic insulation capability level Rw=46dB for the 1.5 x 1.5 m window



The FSC® PURE certificate is held by: single frame windows and doors - made of pine and oak (available on the Customer's request)

The window prices are calculated according to the modular price list available at the points of sale. Windows other than rectangular are made to individual designs. Warranty up to 10 years - look through the documentation attached to the product for the detailed terms and conditions.

ENERGY CONCEPT 90 ALU-EFFECT WOOD-ALUMINIUM



Planitherm ONE 4 / 16 Argon / Planilux 4 / 16 Argon /
Planitherm ONE 4 Ug=0.5 W/m²K in accordance with EN 673

Aluminium lining
with a thermal insert

Silicone

Moisture absorbent

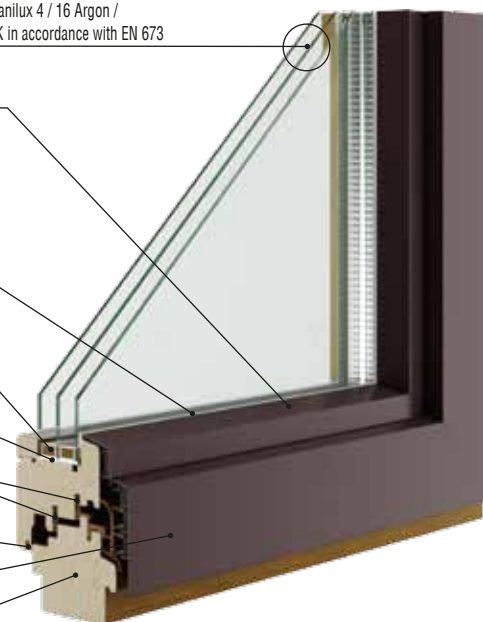
High impact vinyl
polychloride pad

Profile
weather strip

Profile edge
weather strip

Aluminium lining
with a thermal insert

Glued laminated pine wood



WAYS OF OPENING (view from the outside)



side hung right-hand

side hung left-hand

tilt

tilt and turn right-hand tilt and turn left-hand

SPECIFICATIONS



water tightness:
E 1200



air permeability: 4



resistance to wind
load: C3

STRUCTURE

Single frame window and balcony door, wood and aluminium with a thermal insert, the leaf thickness: 103 mm, the thickness of the frame with aluminium: 104 mm, glazing bead: R=5 mm; optional: S-System

FRAME AND LEAF MATERIAL

Glued laminated pine wood, optional: oak wood (for colours, see p. 31)

FINISH

Water soluble covering paints or transparent paints, a three-layer covering system, a four-layer transparent system, powder painted aluminium, the RAL basic colours: 9016, 9007, 9006, 9005, 8019, 8017, 8011, 8007, 8003, 8001, 7042, 7035, 7001, 6029, 6005, 5015, 5013, 5010, 3003, 3002, 1033, 1013 (the other colours of the RAL palette are available at extra charge)

GLAZING

Glazing set Planitherm ONE 4 / 16 Argon / Planilux 4 / 16 Argon / Planitherm ONE 4 Ug=0.5 W/m²K in accordance with EN 673 with spacer edge SGG Swisspacer, a thermopanel

HARDWARE

Circumferential Roto NT with microventilation (except arched windows) and three-dimensional adjustment, with a security protection set, a handle incorrect position lock. Items available on request: a handle controlled opening limiter, security hardware

HINGE CAPS

Standard colours: white, brown
Optional colours: golden, medium brown-olive, titanium-matt, silver

MUNTINS

Structural (93 mm), aluminium fitted between glass panes in one glass chamber (8, 18, 26, 45 mm)

WEATHER STRIP

3 profile weather strips, two main strips and one edge strip

WAY OF OPENING

Fixed, tilt, side hung, tilt and turn

ADDITIONAL WINDOW ACCESSORIES

Handles, the GEZE top mounted window openers, the MVS window opening magnetic sensor

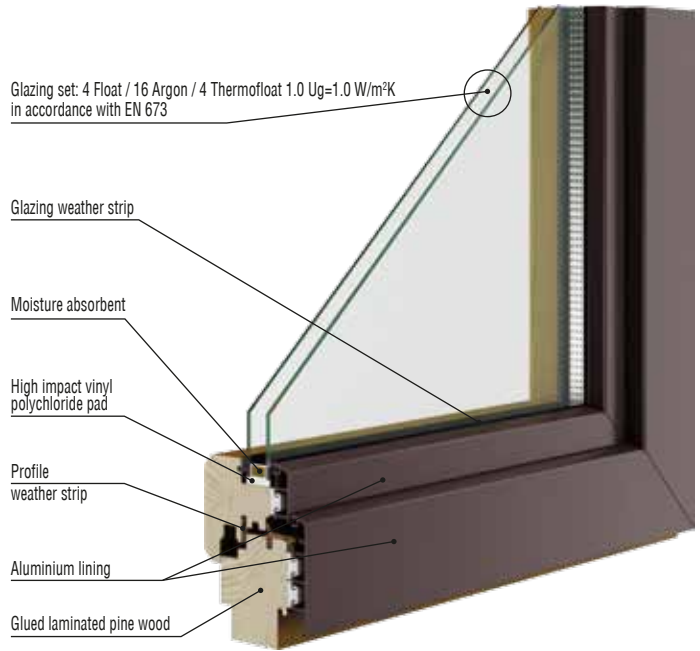
Heat transfer coefficient: 0.8 (W/m²K) for the 1.23 x 1.48 m window

The window prices are calculated according to the modular price list available at the points of sale.
Windows other than rectangular are made to individual designs.
Warranty up to 10 years - look through the documentation attached to the product for the detailed terms and conditions.

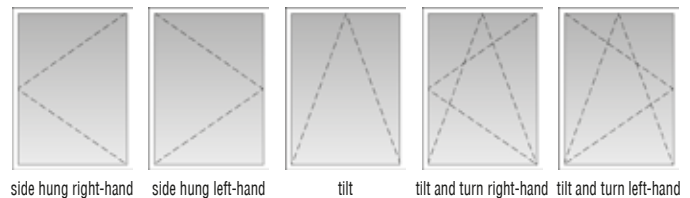
The FSC® PURE certificate is held by: single frame windows - made of pine and oak (available on the Customer's request), single frame balcony doors without the thermopanel - made of pine and oak (available on Customer's request)



DUAL-STANDARD WOOD-ALUMINIUM



WAYS OF OPENING (view from the outside)



SPECIFICATIONS



STRUCTURE

Single frame window and balcony door, wood and aluminium, the leaf thickness: 86 mm, the thickness of the frame with aluminium: 86 mm, the wood thickness 68 mm

FRAME AND LEAF MATERIAL

Glued laminated pine wood, optional: oak or meranti (for colours, see p. 31)

FINISH

Water soluble covering paints or transparent paints, a three-layer covering system, a four-layer transparent system, powder painted aluminium, the RAL basic colours: 9016, 9007, 9006, 9005, 8019, 8017, 8011, 8007, 8003, 8001, 7042, 7035, 7001, 6029, 6005, 5015, 5013, 5010, 3003, 3002, 1033, 1013 (the other RAL palette colours are available at extra charge)

GLAZING

Glazing set 4 Float / 16 Argon / 4 Thermofloat 1.0 Ug=1.0 W/m²K in accordance with EN 673
Glass types available on request: laminated, anti-burglar (P2, P4), sound absorbing, ornamental, Antisol (body-tinted), Stopsol (a mirror reflection effect), self-cleaning, a thermopanel, a warm spacer edge, a triple glass pane set 4 Thermofloat / 10 Argon / 4 Float / 10 Argon / 4 Thermofloat Ug=0.8 W/m²K in accordance with EN 673

HARDWARE

Circumferential Roto NT with microventilation (except arched windows) and three-dimensional adjustment, a security protection set, a handle incorrect position lock
Items available on request: a handle controlled opening limiter, a double-sided handle with a key cylinder, anti-burglar protection, Roto Royal - a hidden hinge

HINGE CAPS

Standard colours: white, brown
Optional colours: golden, medium brown-olive, titanium-matt, silver

MUNTINS (optional)

Structural (56, 80 mm), Vienna type (glued), aluminium between glass panes (8, 18, 26, 45 mm)

WEATHER STRIP

Profile weather strip

WAY OF OPENING

Fixed, tilt, side hung, tilt and turn

ADDITIONAL WINDOW ACCESSORIES

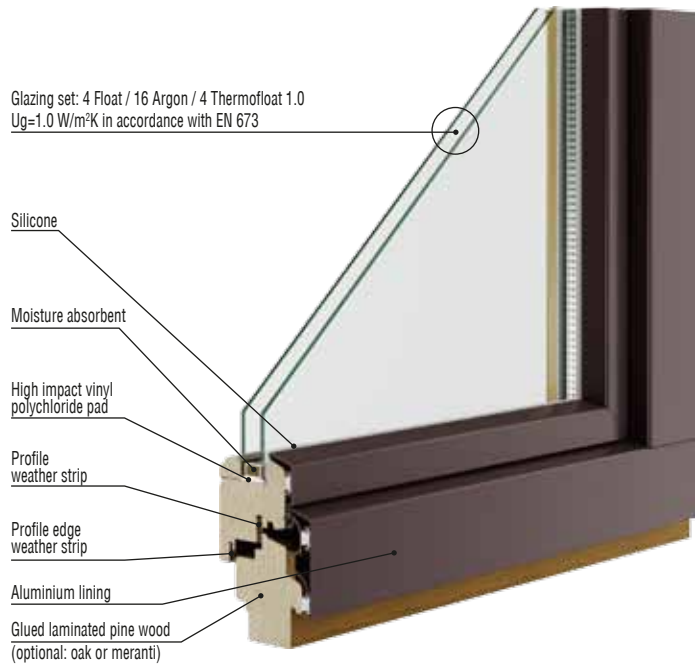
Handles, a humidity sensitive air inlet, the Renson air inlet, decorative elements for the meeting stile, the Geze top mounted window openers, the MVS window opening magnetic sensor



The FSC® PURE certificate is held by: single frame windows - made of pine and oak (available on the Customer's request), single frame balcony doors without the thermopanel - made of pine and oak (available on Customer's request)

The window prices are calculated according to the modular price list available at the points of sale. Windows other than rectangular are made to individual designs. Warranty up to 10 years - look through the documentation attached to the product for the detailed terms and conditions.

ALU-EFFECT WOOD-ALUMINIUM



view from the inside



view from the outside

SPECIFICATIONS



thermal transmittance: 1.3



water tightness: 9 A



air permeability: 4



resistance to wind load: C3



acoustic properties: 34 (-2;-5)

STRUCTURE

Single frame window and balcony door, wood and aluminium, the leaf thickness: 75 mm, the thickness of the frame with aluminium: 77 mm, glazing bead: R=5 mm; optional: S-System

FRAME AND LEAF MATERIAL

Glued laminated pine wood, optional: oak or meranti (for colours, see p. 31)

FINISH

Water soluble covering paints or transparent paints, a three-layer covering system, a four-layer transparent system, powder painted aluminium, colours of the RAL and NCS palettes

GLAZING

Glazing set 4 Float / 16 Argon / 4 Thermofloat 1.0 Ug=1.0 W/m²K in accordance with EN 673
Glass types available on request: laminated, anti-burglar (P2, P4), sound absorbing, ornamental, Antisol (body-tinted), Stopsol (a mirror reflection effect), self-cleaning, a thermopanel, a warm spacer edge, a triple glass pane set 4 Thermofloat / 10 Argon / 4 Float / 10 Argon / 4 Thermofloat Ug=0.8 W/m²K in accordance with EN 673

HARDWARE

Circumferential Roto NT with microventilation (except arched windows) and three-dimensional adjustment, a security protection set, a handle incorrect position lock
Items available on request: a handle controlled opening limiter, a double-sided handle with a key cylinder, anti-burglar protection, Roto Royal - a hidden hinge

HINGE CAPS

Standard colours: white, brown
Optional colours: golden, medium brown-olive, titanium-matt, silver

MUNTINS (optional)

Structural (64mm), Vienna type (glued), aluminium between glass panes (8, 18, 26, 45 mm)

WEATHER STRIP

Profile or foam weather strip

WAY OF OPENING

Fixed, tilt, side hung, tilt and turn

ADDITIONAL WINDOW ACCESSORIES

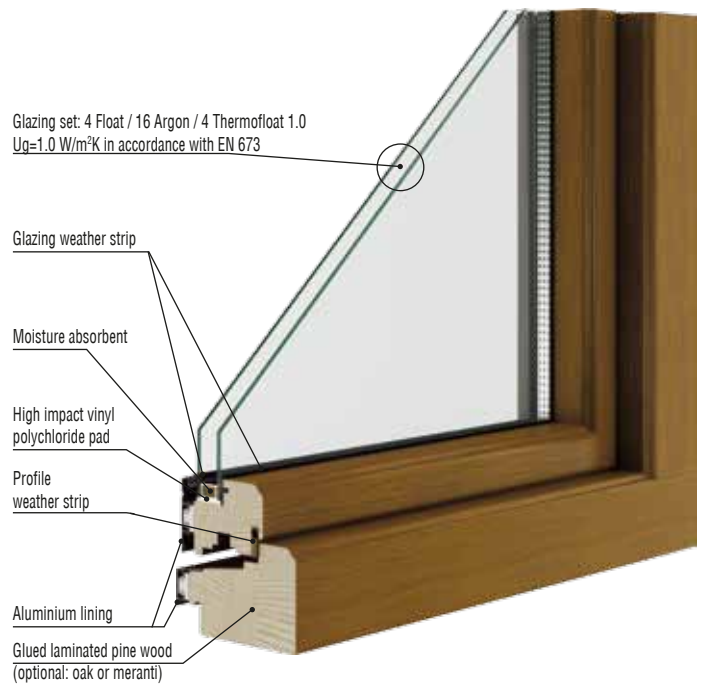
Handles, a humidity sensitive air inlet, the Renson air inlet, decorative elements for the meeting stile, the Geze top mounted window openers, the MVS window opening magnetic sensor

The window prices are calculated according to the modular price list available at the points of sale.
Windows other than rectangular are made to individual designs.
Warranty up to 10 years - look through the documentation attached to the product for the detailed terms and conditions.

The FSC® PURE certificate is held by: single frame windows - made of pine and oak (available on the Customer's request), single frame balcony doors without the thermopanel - made of pine and oak (available on Customer's request)



DUAL-NORD WOOD-ALUMINIUM



view from the inside



view from the outside

SPECIFICATIONS



thermal transmittance: 1.3



water tightness: 7 A



air permeability: 4



resistance to wind load: C3/B2



acoustic properties: 33 (-2;-5)

STRUCTURE

Single frame window and balcony door, wood and aluminium, the thickness of the frame with aluminium: 117 mm, thickness of the leaf with aluminium: 81 mm

FRAME AND LEAF MATERIAL

Glued laminated pine wood, optional: oak or meranti (for colours, see p. 31)

FINISH

Water soluble covering paints or transparent paints, a three-layer covering system, a four-layer transparent system, powder painted aluminium, the RAL basic colours: 9016, 9007, 9006, 9005, 8019, 8017, 8011, 8007, 8003, 8001, 7042, 7035, 7001, 6029, 6005, 5015, 5013, 5010, 3003, 3002, 1033, 1013 (the other RAL palette colours are available at extra charge)

GLAZING

Glazing set 4 Float / 16 Argon / 4 Thermofloat 1.0 Ug=1.0 W/m²K in accordance with EN 673
Glass types available on request: laminated, anti-burglar (P2, P4), sound absorbing, ornamental, Antisol (body-tinted), Stopsol (a mirror reflection effect), self-cleaning, a thermopanel, a warm spacer edge, a triple glass pane set 4 Thermofloat / 10 Argon / 4 Float / 10 Argon / 4 Thermofloat Ug=0.8 W/m²K in accordance with EN 673

HARDWARE

Roto NT, PN Beslag, with a security protection set, a rotation lock, a handle controlled opening limiter (balconies)

Items available on request: a double-sided handle with a key cylinder

MUNTINS (optional)

Structural (58 mm), Vienna type (glued), aluminium between glass panes (8, 18, 26, 45 mm)

WEATHER STRIP

Profile or foam weather strip

WAY OF OPENING

Fixed, side hung, pivot Top Swing, Top Hung, Side Hung

ADDITIONAL WINDOW ACCESSORIES

Handles, a humidity sensitive air inlet, the Renson air inlet



The FSC® PURE certificate is held by: single frame windows - made of pine and oak (available on the Customer's request), single frame balcony doors without the thermopanel - made of pine and oak (available on Customer's request)

The window prices are calculated according to the modular price list available at the points of sale. Windows other than rectangular are made to individual designs. Warranty up to 10 years - look through the documentation attached to the product for the detailed terms and conditions.

DUAL-NORD 0.5 WOOD-ALUMINIUM



Planitherm ONE 4 / 16 Argon /
Planilux 4 / 16 Argon / Planitherm ONE 4
Ug=0.5 W/m²K in accordance with EN 673

Glazing weather strip

Moisture absorbent

High impact vinyl
polychloride pad

Profile
weather strip

Aluminium lining

Glued laminated pine wood
(optional: oak or meranti)



view from the inside



view from the outside

SPECIFICATIONS



thermal
transmittance: 0.8



acoustic properties:
35 (-1;-5)

STRUCTURE

Single frame window and balcony door, wood and aluminium, the thickness of the frame with aluminium: 117 mm, thickness of the leaf with aluminium: 81 mm

FRAME AND LEAF MATERIAL

Glued laminated pine wood, optional: oak or meranti (for colours, see p. 31)

FINISH

Water soluble covering paints or transparent paints, a three-layer covering system, a four-layer transparent system, powder painted aluminium, the RAL basic colours: 9016, 9007, 9006, 9005, 8019, 8017, 8011, 8007, 8003, 8001, 7042, 7035, 7001, 6029, 6005, 5015, 5013, 5010, 3003, 3002, 1033, 1013 (the other RAL palette colours are available at extra charge)

GLAZING

Glazing set Planitherm ONE 4 / 16 Argon / Planilux 4 / 16 Argon / Planitherm ONE 4
Ug=0.5 W/m²K in accordance with EN 673 with spacer edge SGG Swisspacer, a thermopanel
Glass types available on request: laminated, anti-burglar (P2, P4), sound absorbing, ornamental, Antisol (body-tinted), Stopsol (a mirror reflection effect), self-cleaning, a thermopanel, a warm spacer edge, a triple 4x10x4x10x4 glass pane set

HARDWARE

Roto NT, PN Beslag, with a security protection set, a rotation lock, a handle controlled opening limiter (balconies)

Items available on request: a double-sided handle with a key cylinder

MUNTINS (optional)

Structural (58 mm), Vienna type (glued), aluminium between glass panes (8, 18, 26, 45 mm)

WEATHER STRIP

Profile or foam weather strip

WAY OF OPENING

Fixed, side hung, pivot Top swing, Top Hung, Side Hung

ADDITIONAL WINDOW ACCESSORIES

Handles, a humidity sensitive air inlet, the Renson air inlet

Heat transfer coefficient: 0.8 (W/m²K) for the 1.23 x 1.48 m window

The window prices are calculated according to the modular price list available at the points of sale.
Windows other than rectangular are made to individual designs.
Warranty up to 10 years - look through the documentation attached to the product for the detailed terms and conditions.

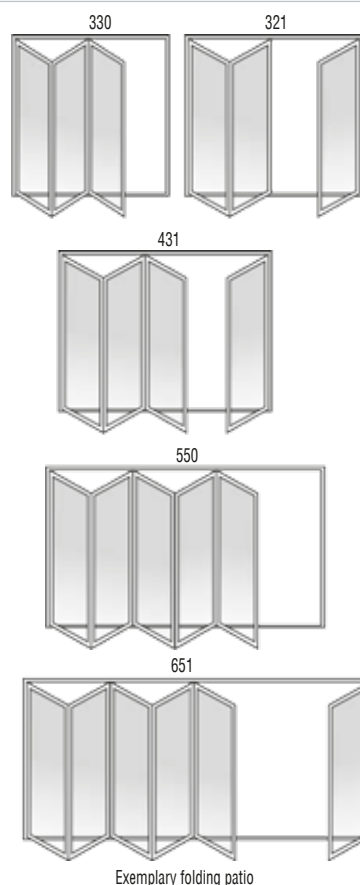
The FSC® PURE certificate is held by: single frame windows - made of pine and oak (available on the Customer's request), single frame balcony doors without the thermopanel - made of pine and oak (available on Customer's request)



PATIO FOLDING WOODEN



WAYS OF OPENING



Exemplary folding patio

SPECIFICATIONS



thermal transmittance: 1.3



water tightness: 9 A



air permeability: 4



resistance to wind load: C3



acoustic properties: 34 (-2;-5)

HINGE CAPS

Standard colours: white, medium brown
Optional: silver

DRIP CAP

Aluminium drip cap in the colours of: white, brown (standard); silver, olive, golden (optionally)

MUNTINS

Structural (58, 78 mm), Vienna type (glued), wooden fixed by means of clasp locks, wooden fixed on hinges, aluminium between glass panes (8, 18, 26, 45 mm)

WEATHER STRIP

Profile or foam weather strip

WAY OF OPENING

Layouts: 330, 321, 431, 532, 541, 550, 633, 651, 743, 761, 770, 871

ADDITIONAL WINDOW ACCESSORIES

Handles, the Renson air inlet

DIMENSIONS

Width: 1600-5500 mm (depending on the type)
Height: 900-2500 mm (depending on the type)

STRUCTURE

Single frame window and balcony door, the leaf thickness: 68 mm, the frame thickness: 68 mm, the S-system glazing bead or the R=5mm glazing bead, the Komfort low aluminium threshold is available on request

FRAME AND LEAF MATERIAL

Glued laminated pine wood, optional: oak or meranti (for colours, see p. 31)

FINISH

Water soluble covering paints or transparent paints, a three-layer covering system, a four-layer transparent system

GLAZING

Glazing set 4 Float / 16 Argon / 4 Thermofloat 1.0 Ug=1.0 W/m²K in accordance with EN 673
Glass types available on request: laminated, anti-burglar (P2, P4), sound absorbing, ornamental, Antisol (body-tinted), Stopsol (a mirror reflection effect), self-cleaning, a thermopanel, a warm spacer edge

HARDWARE

Circumferential Roto Patio 6080 with three-dimensional adjustment, a security protection set, a handle incorrect position lock
Items available on request: a double-sided handle with a key cylinder



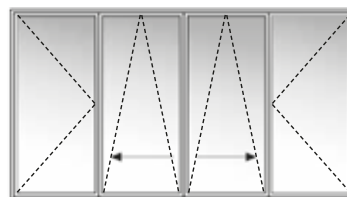
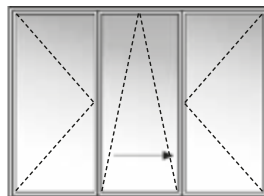
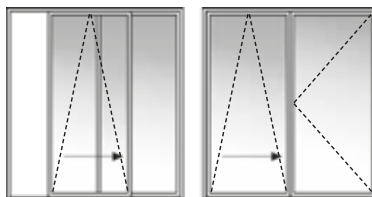
The FSC® PURE certificate is held by: single frame windows - made of pine and oak (available on the Customer's request), single frame balcony doors without the thermopanel - made of pine and oak (available on Customer's request)

The window prices are calculated according to the modular price list available at the points of sale.
Windows other than rectangular are made to individual designs.
Warranty up to 10 years - look through the documentation attached to the product for the detailed terms and conditions.

PATIO SLIDING WOODEN



WAYS OF OPENING



Exemplary sliding patio

SPECIFICATIONS



thermal transmittance: 1.3



water tightness: 9 A



air permeability: 4



resistance to wind load: C3



acoustic properties: 34 (-2;-5)

STRUCTURE

Single frame window and balcony door, the leaf thickness: 68 mm, the frame thickness: 68 mm, the S-system glazing bead or the R=5mm glazing bead

FRAME AND LEAF MATERIAL

Glued laminated pine wood, optional: oak or meranti (for colours, see p. 31)

FINISH

Water soluble covering paints or transparent paints, a three-layer covering system, a four-layer transparent system

GLAZING

Glazing set 4 Float / 16 Argon / 4 Thermofloat 1.0 Ug=1.0 W/m²K in accordance with EN 673
Glass types available on request: laminated, anti-burglar (P2, P4), sound absorbing, ornamental, Antisol (body-tinted), Stopsol (a mirror reflection effect), self-cleaning, a thermopanel, a warm spacer edge

HARDWARE

Circumferential Roto Patio S NT with three-dimensional adjustment and a security protection set
Items available on request: a double-sided handle with a key cylinder, an "automatic" handle

HINGE CAPS

Standard colours: white, dark brown
Option: medium brown, natural silver

DRIP CAP

Aluminium drip cap in the colours of: white, brown (standard); silver, olive, golden (optional)

MUNTINS (optional)

Structural (58, 78 mm), Vienna type (glued), wooden fixed by means of clasp locks, aluminium between glass panes (8, 18, 26, 45 mm)

WEATHER STRIP

Profile or foam weather strip

WAY OF OPENING

Sliding leaf (left-hand or right-hand) / fixed leaf, sliding leaf (left-hand or right-hand) / sides 2 fixed leaves, sliding leaf (left-hand or right-hand) / side hung leaf, sliding leaf (left-hand or right-hand) / 2 side hung leaves, 2 sliding leaves (left-hand or right-hand) / 2 side hung leaves, 2 sliding leaves (left-hand and right hand) / fixed glazing in the middle

ADDITIONAL WINDOW ACCESSORIES

Renson air inlet

DIMENSIONS

Width: 1500-6000 mm (depending on the type)
Height: 1200-2500 mm (depending on the type)

The window prices are calculated according to the modular price list available at the points of sale.
Windows other than rectangular are made to individual designs.
Warranty up to 10 years - look through the documentation attached to the product for the detailed terms and conditions.

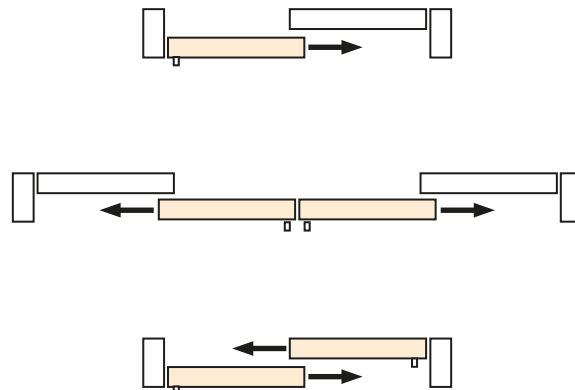
The FSC® PURE certificate is held by: single frame windows - made of pine and oak (available on the Customer's request), single frame balcony doors without the thermopanel - made of pine and oak (available on Customer's request)



PATIO LIFE WOODEN/WOOD-ALUMINIUM



WAYS OF OPENING



STRUCTURE

WOODEN: a single frame window and balcony door, the leaf thickness: 68 mm, the frame thickness: 171 mm, the S-system glazing bead or the R=5 mm glazing bead, the low mortise threshold with thermal insulation for the disabled friendly rooms

WOOD ALUMINIUM: a single frame wood and aluminium window, wooded and aluminium, the thickness of the leaf with aluminium: 82 mm, the thickness of the frame with aluminium: 190 mm, a low mortise threshold with thermal insulation for the disabled friendly rooms

FRAME AND LEAF MATERIAL

Glued laminated pine wood, optional: oak wood (for colours, see p. 31)

FINISH

WOODEN: water soluble covering paints or transparent paints, a three-layer covering system, a four-layer transparent system

WOOD ALUMINIUM: water soluble covering paints or transparent paints, a three-layer covering system, a four-layer transparent system, powder painted aluminium, the RAL basic colours: 9016, 9007, 9006, 9005, 8019, 8017, 8011, 8007, 8003, 8001, 7042, 7035, 7001, 6029, 6005, 5015, 5013, 5010, 3003, 3002, 1033, 1013 (the other colours of the RAL palette are available at extra charge)

GLAZING

Glazing set 4 Float / 16 Argon / 4 Thermofloat 1.0 Ug=1.0 W/m²K in accordance with EN 673
Glass types available on request: laminated, anti-burglar (P2, P4), sound absorbing, ornamental, Antisol (body-tinted), Stopsol (a mirror reflection effect), self-cleaning, a thermopanel, a warm spacer edge

HARDWARE

Circumferential Roto Life with two-dimensional adjustment, 4 security points, microventilation
Items available on request: a double-sided handle with a key cylinder

MUNTINS (optional)

Structural (58, 78 mm), Vienna type (glued), wooden fixed by means of clasp locks, aluminium between glass panes (8, 18, 26, 45 mm)

WEATHER STRIP

Roto system weather strip

WAY OF OPENING

Fixed leaf, sliding leaf (left-hand or right-hand) / fixed leaf,
2 sliding leaves (left-hand and right-hand) / 2 side fixed leaves, left-hand sliding leaf / right-hand sliding leaf, 2 sliding leaves (left-hand and right-hand) / middle fixed leaf

ADDITIONAL WINDOW ACCESSORIES


Renson air inlet, an aluminium cap for the threshold






The FSC® PURE certificate is held by: single frame windows - made of pine and oak (available on the Customer's request), single frame balcony doors without the thermopanel - made of pine and oak (available on Customer's request)

The window prices are calculated according to the modular price list available at the points of sale.
Windows other than rectangular are made to individual designs.
Warranty up to 10 years - look through the documentation attached to the product for the detailed terms and conditions.




WINDOW SPECIFICATIONS

				
		Type C	S-System	Alu-Effect
Window frame thickness		68 mm	68 mm	Including the aluminium 77 mm
Material		pine/oak/meranti	pine/oak/meranti	pine/oak/meranti - aluminium
Glazing bead profile		Type C optional S-system	S-system optional Type C	Type C optional S-system
Way of opening		FIX, U, R, RU, RU-R, UP, PL (Patio Sliding), S (Patio Folding), O	FIX, U, R, RU, RU-R, UP, PL (Patio Sliding), S (Patio Folding), O	FIX, U, R, RU, RU-R, UP (Patio Sliding), S (Patio Folding), O
Available glass pane sets		4/16/4 U = 1.0 4/10/4/10/4 U = 0.8	4/16/4 U = 1.0 4/10/4/10/4 U = 0.8	4/16/4 U = 1.0 4/10/4/10/4 U = 0.8
Thermal transmittance U (W/m ² K)*	Pine	1.3	1.3	1.3
	Oak	1.4	1.4	1.4
Sound Rw(dB)		34	34	33
Weather strip	Quantity	2	1	2
	Colour	white/rustic brown	white/rustic brown	white/rustic brown

(*) The provided values of the thermal and acoustic insulation apply to the reference window of the dimensions of 1.23 x 1.48 m.

				
		Dual-Standard	Scandinavian System	Dual-Nord
Window frame thickness		Including the aluminium 86 mm	104 mm	Including the aluminium 117 mm
Material		pine/oak/meranti – aluminium	pine/oak	pine/oak – aluminium
Glazing bead profile		-	S-system optional Type C	-
Way of opening		FIX, U, R, RU, RU-R, UP, PL	TS, TH, SS, SHI, SHII, FIX	TS, TH, SS, SHI, SHII, FIX
Available glass pane sets		4/16/4 U = 1.0 4/10/4/10/4 U = 0.8	4/16/4 U = 1.0 4/10/4/10/4 U = 0.8	4/16/4 U = 1.0 4/10/4/10/4 U = 0.8
Thermal transmittance U (W/m ² K)*	Pine	1.3	1.3	1.3
	Oak	1.4	1.3	1.3
Sound Rw(dB)		33	33	33
Weather strip	Quantity	1	1	1
	Colour	white/rustic brown	white/rustic brown	white/rustic brown

(*) The provided values of the thermal and acoustic insulation apply to the reference window of the dimensions of 1.23 x 1.48 m.

				
		EC 90 SR 46	Energy Concept 90	Energy Concept 90 Alu-Effect
Window frame thickness		90 mm	90 mm	Including the aluminium 104 mm
Material		pine	pine/oak/meranti	pine/ oak/ meranti aluminium thermal insert
Glazing bead profile		S-system optional Type C	S-system optional Type C	S-system optional Type C
Way of opening		FIX, U, R, RU, RU-R, UP, PL	FIX, U, R, RU, RU-R	FIX, U, R, RU, RU-R
Available glass pane sets		66.2f.acust./20/44.2 U=1.0; Rw=51dB	4/16/4/16/4 U=0.5	4/16/4/16/4 U=0.5
Thermal transmittance U (W/m²K)*	Pine	1.3	0.77	0.8
	Oak	-	-	-
Sound Rw(dB)		46	35	-
Weather strip	Quantity	3	3	3
	Colour	white/rustic brown	white/rustic brown	white/rustic brown

(*) The provided values of the thermal and acoustic insulation apply to the reference window of the dimensions of 1.23 x 1.48 m.

				
		Patio Life	Wooden Casement Window	Steps Window
Window frame thickness		171 mm	190 mm	Including the aluminium 78 mm
Material		pine/oak	pine	pine/oak
Glazing bead profile		S-system optional Type C	S-system optional Type C	-
Way of opening		PATIO LIFE	RU/R, R+R /R+R, R+RU /R+R	FIX, U, R, RU
Available glass pane sets		4/16/4 U = 1.0 4/10/4/10/4 U = 0.8	4/16/4 U = 1.0 + 4mm	4Steps/16/4 U = 1.0
Thermal transmittance U (W/m²K)*	Pine	-	1.1	1.3
	Oak	-	-	-
Sound Rw(dB)		-	34	34
Weather strip	Quantity	2	2/1	2
	Colour	black	white/rustic brown	black + white/rustic brown

(*) The provided values of the thermal and acoustic insulation apply to the reference window of the dimensions of 1.23 x 1.48 m.

WINDOW SHUTTERS



The FSC® PURE certificate is held by the pine and oak shutters (available on the Customer's request)

Materials:
wood: pine, oak

STRUCTURE

Fixed louvres (13x46 mm), built into a 42 mm thick wooden frame

DIMENSIONS

Max. height of the leaf: 2400 mm (up to 1800 mm – 2 hinges, from 1801 up to 2400 mm – 3 hinges)

Max. width of the leaf: 900mm,

FINISH

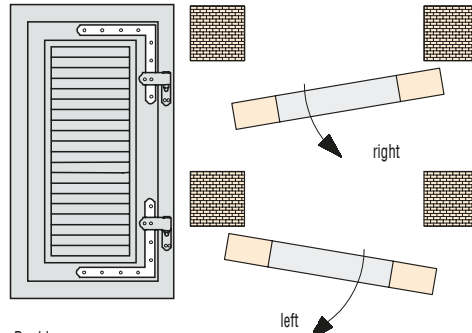
Quadruple transparent system- impregnation and triple coating with water-soluble transparent paints

Triple opaque coating system - impregnation and double coating with water-soluble opaque paints

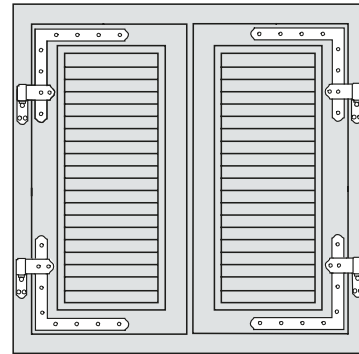
Colours – see p. 31

WINDOW SHUTTER OPENING SYSTEMS

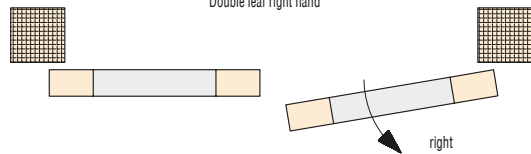
Single leaf shutter



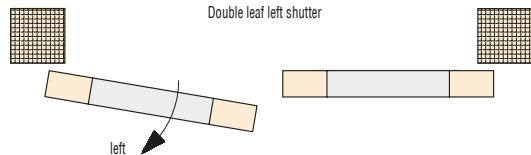
Double leaf shutter



Double leaf right hand

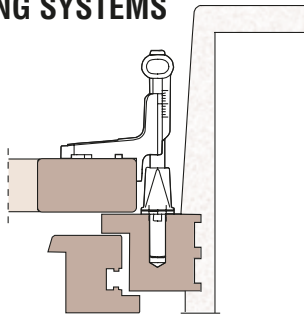


Double leaf left shutter

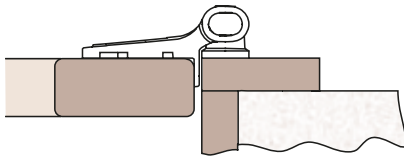


WINDOW SHUTTER FITTING SYSTEMS

Option 1 - fitted to the window frame. After closing the window shutter, the entire shutter hides in the wall which provides better protection from the exterior weather conditions. The shutter opening angle is 180 degrees. **Note!** The type of hinges is to be selected depending on the embrasure depth (0-275mm)

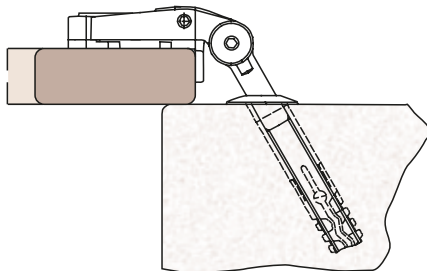


Option 2 – fitted on the shutter's own frame. Additionally, the entire window hole should be additionally covered with 24 mm x 80 mm wooden mouldings (the window shutter frame). Hardware should be fitted to the frame according to the drawing. This way of fitting the window shutter improves the appearance of the window while keeping it functional.

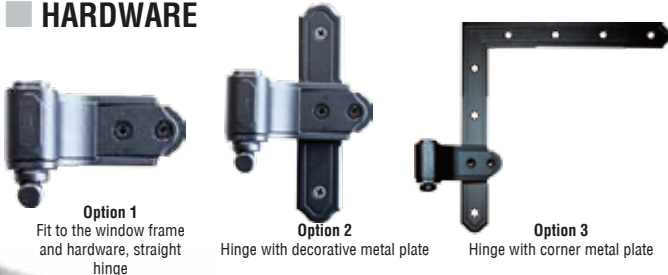


Option 3 – fitted to the wall.

The most traditional way of fitting window shutters. The shutter hardware is fitted directly to the wall. It should be remembered, however, that before the elevation repair works, e.g. laying the exterior wall insulation, the wooden beams should be fitted beside the window to reduce the gap between the wall and the window shutter hardware.



HARDWARE



Option 1

Fit to the window frame and hardware, straight hinge

Option 2

Hinge with decorative metal plate

Option 3

Hinge with corner metal plate

WINDOW SHUTTER CLOSING HARDWARE

Single closing set for single leaf shutters



Single closing set for double leaf shutters



Central closing set



BALCONY DOORS



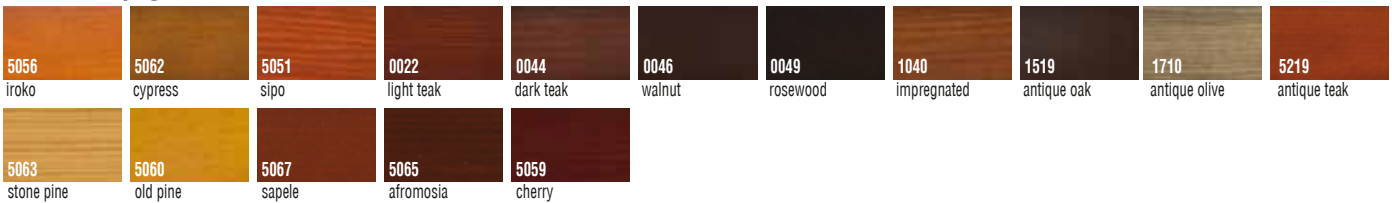
APPLICATION AS EXIT INTO TERRACE, BALCONY, ALSO AS EXTERIOR DOORS

- Wooden – pine or oak
- Single or double leaf door
- Width: the single leaf type - 800-1300 mm
- The double leaf type - 1000-2400 mm
- Height: 2000-2450 mm
- Double-sided handle with a cylinder
- Strip type lock with security bolts
- Low aluminium threshold
- Widened rail and stile sets of leaves
- Possibility to replace the glass pane set with a thermopanel

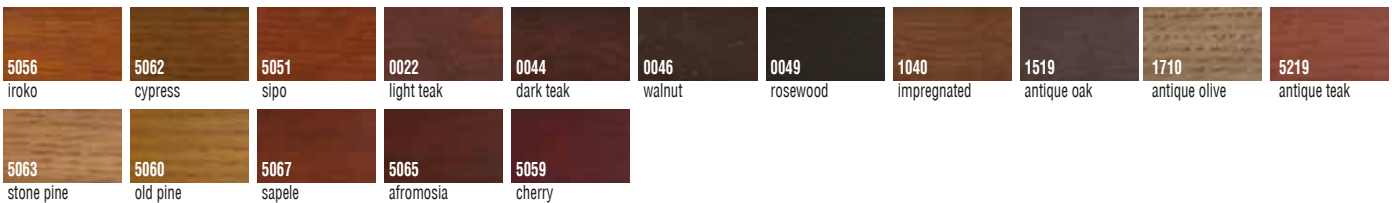
COLOURS

transparent paints

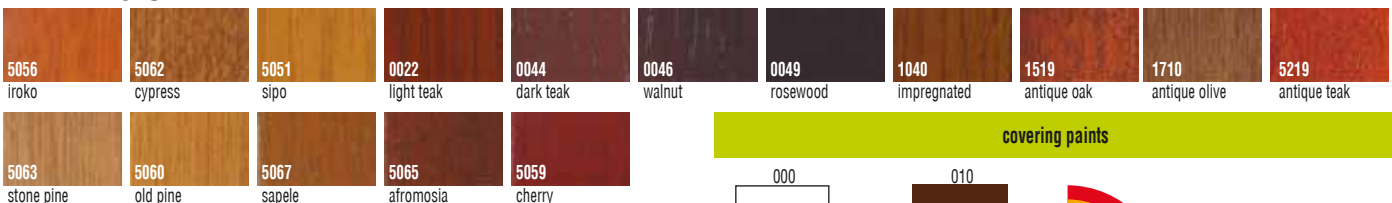
DYEING ON PINE



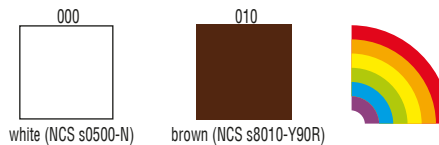
DYEING ON OAK



DYEING ON MERANTI



covering paints



Environment-friendly acrylic paints, the colours of the RAL and NCS palettes (except the metallic ones) are available after consultation with the Sales Department

RAL PALETTE

division of colours according to the colour intensity grade

GROUP 1 – light colours																													
1013	1014	1015	6019	7035	7038	7044	7047	9001	9002	9003	9010	9016	9018																
GROUP 2 – intermediate colours																													
1000	1001	1002	1003	1004	1005	1006	1007	1012	1016	1017	1018	1023	1028	1032	1034	1037	3012	3015	6027	6034	7001	7004	7040	7042	7045				
GROUP 3 – medium colours																													
1011	1019	1020	1024	1027	1033	2000	2001	2002	2003	2004	2008	2009	2010	2011	2012	3013	3014	3016	3017	3018	3020	3022	3027	3031	4001	4002	4003	4005	4006
4008	4009	4010	5012	5014	5015	5018	5021	5023	5024	6000	6001	6002	6003	6010	6011	6013	6017	6018	6021	6024	6025	6033	7000	7002	7003	7023	7030	7031	7032
7033	7034	7036	7037	7039	7046	8000	8001	8024	8025																				
GROUP 4 – dark colours																													
3000	3001	3003	3002	3004	3005	3007	3009	3011	4004	4007	5000	5001	5002	5003	5004	5005	5007	5008	5009	5010	5011	5013	5017	5019	5020	5022	6004	6005	6006
6007	6008	6009	6012	6014	6015	6016	6020	6022	6026	6028	6029	6032	7005	7006	7008	7009	7010	7011	7012	7013	7015	7016	7021	7022	7024	7026	7043	8002	8003
8004	8007	8008	8011	8012	8014	8015	8016	8017	8019	8022	8023	8028																	

EXTRA CHARGE TABLE incl. the extra charges added to leaves with RAL, NCS S according to the colour groups	Door model		GROUP 1	GROUP 2	GROUP 3	GROUP 4
	EXTERIOR	THE PRICE IS SUBJECT TO INDIVIDUAL CALCULATION				

The actual colours may vary from the colours printed in this catalogue. The actual colour shades of veneers may vary since natural veneers have been used. Differences between the shades of the presented colours are possible due to the nature of wood.

WINDOW MUNTINS

EXTERIOR
(TOP-MOUNTED)



wooden, fitted on hinges

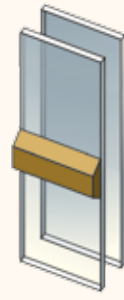
LAYOUT OF MUNTINS



structural wooden



exterior (fitted on the glass pane) wooden glued (the Vienna type)



exterior (fitted on the glass pane) wooden detachable



aluminium between glass panes

It is possible to use the "warm edge" which reduces the risk of water steam condensation on the glass pane edges and improves the appearance. It is available in various colour versions (black 9005, brown 8016, brown 8003, grey 7040, grey 7035 - the RAL palette colours).

EXTERIOR WOODEN



structural

EXTERIOR
(TOP-MOUNTED)



glued (the Vienna type)

EXTERIOR
(TOP-MOUNTED)



removable – fixed on clasps

ALUMINIUM BETWEEN GLASS PANES
(golden, 8 mm wide)

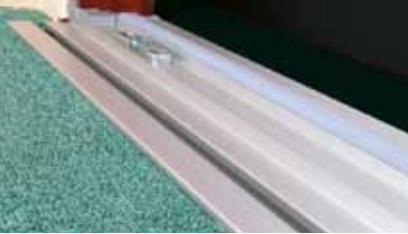


available in various colours and widths: 8, 18, 26, 45 mm

ADDITIONAL EQUIPMENT



Hidden hinges



Low threshold in balcony doors and patio folding type doors



Humidity sensitive air inlets (enable automatic flow of air when the window is closed)



Renson air inlet (fixed above the pane set)

HINGE CAPS

STANDARD



white

brown

OPTION



medium brown - olive

titanium-matt

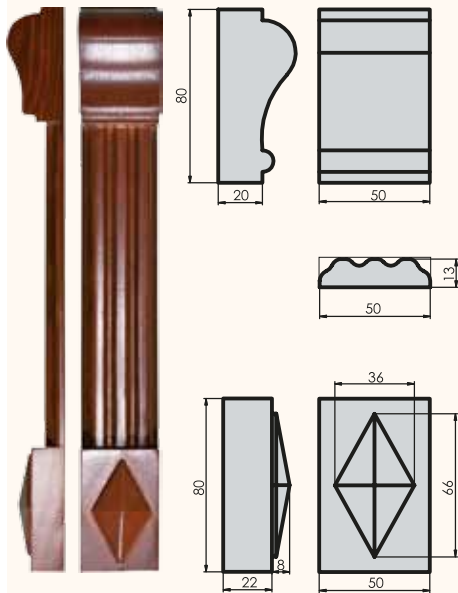
silver

golden

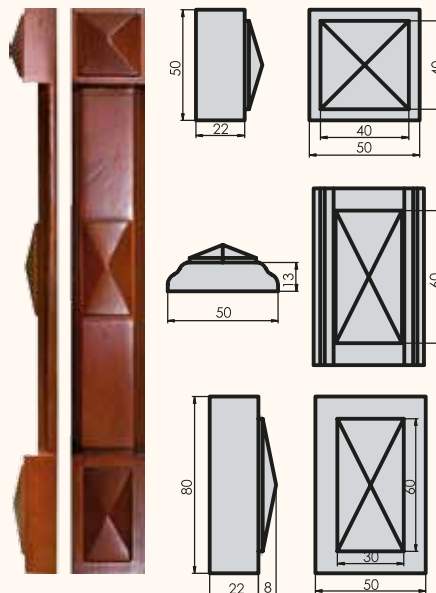
STYLING SETS

Styling set recommended for the window systems: Casement Window, the POL-SKONE C Type wooden, the POL-SKONE S-System wooden, the ENERGY CONCEPT 90 wooden.

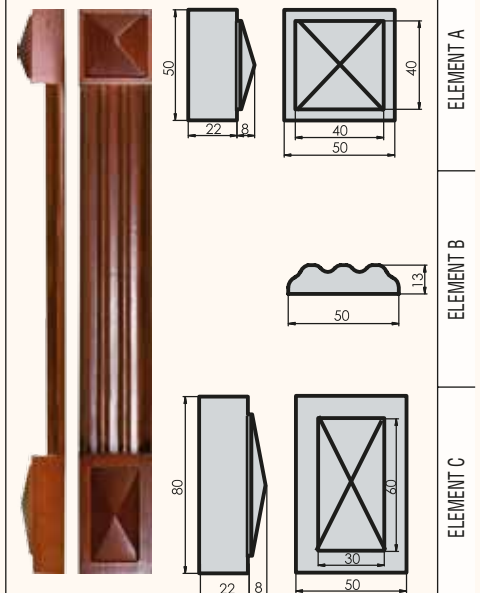
RETRO SET Z1



RETRO SET Z2



RETRO SET Z3



A wooden drip cap recommended for historical buildings

A set of styling caps for the meeting stile is optionally available for historical buildings.



WINDOW HANDLES

not applicable to Patio Life, PATIO sliding, SCANDINAVIAN SYSTEM, Dual Nord

STANDARD HANDLES



white

brown

HANDLES AT EXTRA CHARGE

are available after consultation with our Sales Department



VENUS

colour chrome-mat



VENUS

colour patina



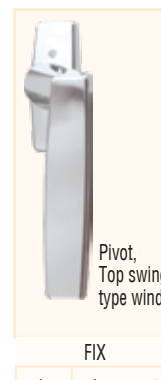
VENUS with a key

colour chrome-mat



VENUS with a button

colour chrome-mat



Pivot, Top swing type windows

FIX

colour chrome-mat

applicable to the windows in the SCANDINAVIAN SYSTEM

TECHNICAL APPROVALS AND CERTIFICATES



PRZEDSIĘBIORSTWO
FAIR PLAY
2012

For the comprehensive information about approvals and certificates, please visit www.pol-skone.eu



EXEMPLARY REFERENCES



For the comprehensive information about the references, please visit www.pol-skone.eu



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DOORS AND WINDOWS

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www.pol-skone.eu

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DOORS AND WINDOWS

BUSINESS PARTNER

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