



WINDOWS 2021

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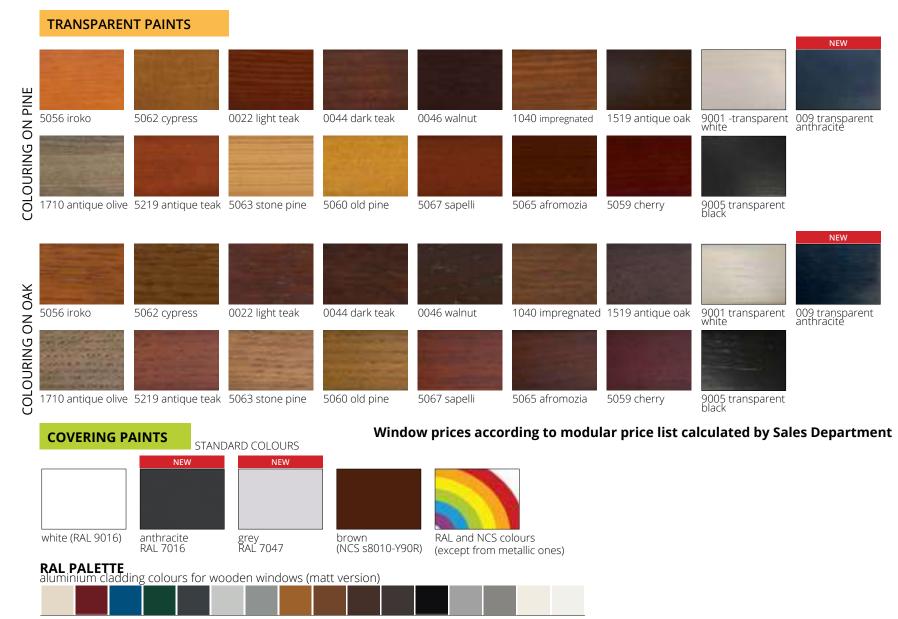


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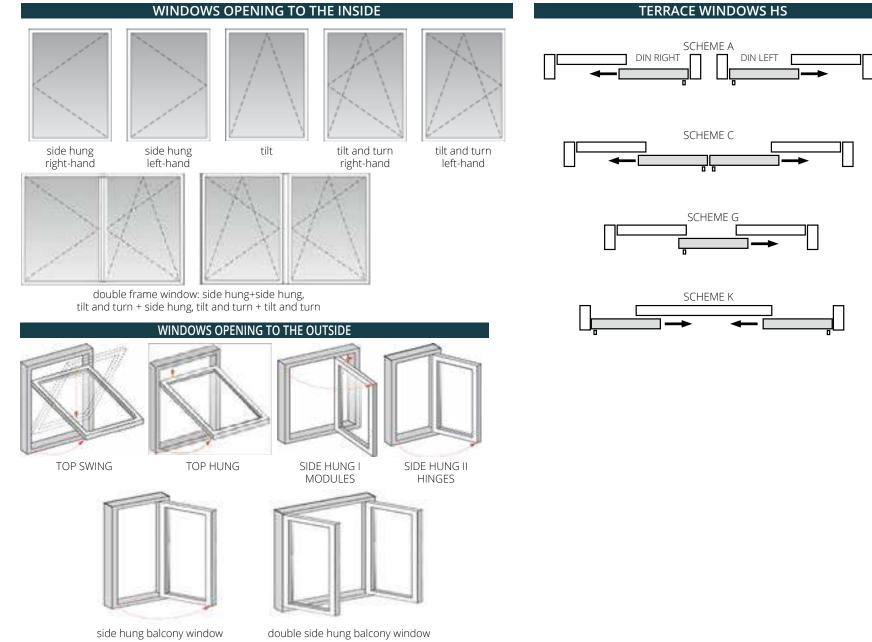
The selection of interior and exterior doors and technical doors is available in separate publications.

COLOURS

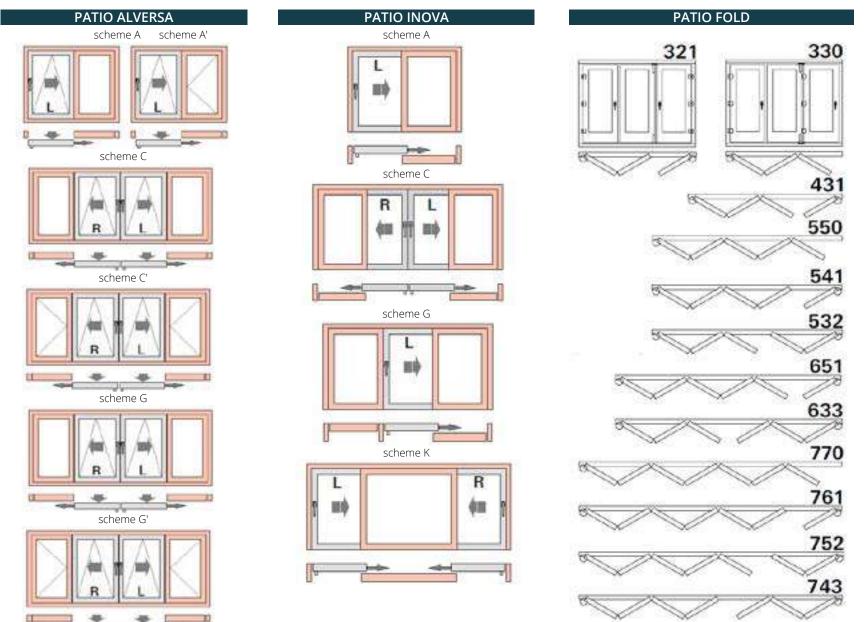


NOTE: The actual colours may vary from the colours printed in this catalogue. Differences between the shades of the presented colours are possible due to the nature of wood...

OPENING CONFIGURATIONS



OPENING CONFIGURATIONS









thermal transmittance*: 0,80 W/(m²K)



water tightness: E900



air permeability: 4



resistance to wind load: C3



acoustic properties: 34 (-1;-5) dB

(*) The provided values of the thermal and acoustic insulation apply to the reference window of the dimensions of 1,23 \times 1,48 m

ENERGY CONCEPT 90

WOODEN

WINDOWS MEET THE REQUIREMENTS OF THE CLEAN AIR PROGRAMME

WINDOWS DEDICATED TO ENERGY-EFFICIENT BUILDINGS

STRUCTURE

single frame window, the leaf thickness 90 mm, frame 90 mm, glazing bead Type C; optional S-System

MATERIAL

glued laminated pine, optionally oak

FINISH

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

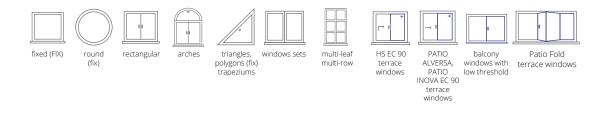
STANDARD OF CONSTRUCTION

- triple glazed unit 4/16Ar/4/16Ar/4 Ug=0.5 W/m2K with warm edge spacer bars (colours of warm frames p. 33), optional thermopanel in balcony windows.
- Roto NX circumferential hardware with microventilation function (for rectangular Tilt&Turn windows) and three-plane adjustment, with anti-theft protection, handle misplacement block
- hinge caps available colours p. 37
- three profile seals available in white or brown
- drip cap aluminium with thermal insert and mini drip cap (external aluminium glazing bead) p. 42
- handles available models and colours page 38

ADDITIONAL ACCESSORIES

glazing units - p. 34 fitting accessories - p. 43-46 air inlets - p. 42 window bars and thermally insulated window sills - p. 51 decorations for wood mullion mouldings - p. 50 muntins - p. 47 $\,$

AVAILABLE VARIANTS





The FSC® 100% certificate is held by: single-frame windows and terrace windows without thermopanel - pine and oak





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thermal transmittance*: 0,90 W/(m²K)

water tightness: E900



air permeability: 4



resistance to wind load: C2



acoustic properties: 33 (-1;-6) dB

(*) The provided values of the thermal and acoustic insulation apply to the reference window of the dimensions of 1,23 \times 1,48 m

TYPE C PLUS WOODEN

STRUCTURE

single frame window, the leaf and frame thickness 78 mm, glazing bead type C; optionally S-System

MATERIAL

glued laminated pine wood, optionally oak

FINISH

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

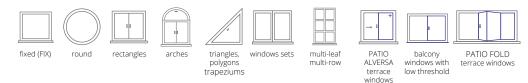
STANDARD OF CONSTRUCTION

- Triple glazed window 4/14Ar/4/14Ar/4 Ug=0,6 W/m²K with warm edge spacer bars (warm frame colours p. 35), optionally thermopanel in balcony windows
- Roto NX peripheral hardware with microventilation function (for rectangular Tilt&Turn windows)and three-plane adjustment, with anti-theft protection, handle misplacement block.
- hinge caps available colours p. 37
- three profile seals available in white or brown
- drip cap aluminium with thermal insert and mini drip cap (external aluminium glazing bead) p. 42
- handles available models and colours page p. 38

ADDITIONAL ACCESSORIES

glazing units - p. 34 fitting accessories - p. 43-46 air inlets - p. 42 decorations for wood mullion mouldings - p. 50 casing colours - p. 37 muntins - p. 47

AVAILABLE VARIANTS





The FSC® 100% certificate is held by: single-frame windows and terrace windows without thermopanel - pine and oak

Warranty up to 5 years - detailed conditions available at www.pol-skone.eu.





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thermal transmittance*: 1,3 W/(m²K) thermal transmittance**: 1,1 W/(m²K)



water tightness: E900



air permeability: 4



resistance to wind load: C2

acoustic properties*: 33 (-1;-5) dB acoustic properties**: 33 (-1;-5) dB

(*) The provided values of the thermal and acoustic insulation apply to the reference window of the dimensions of $1,23 \times 1,48$ m with glazing unit Ug=1,0 W/m²K (#) The provided values of the thermal and acoustic insulation apply to the reference window of the

(**) The provided values of the thermal and acoustic insulation apply to the reference window of the dimensions of 1,23 x 1,48 m with glazing unit Ug=0,8 W/m²K

TYPE C WOODEN

STRUCTURE

single frame window, the leaf and frame thickness 68 mm, glazing bead type C; optionally S-System

MATERIAL

glued laminated pine wood, optionally oak

FINISH

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

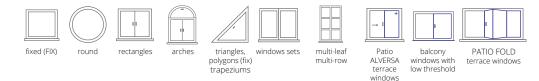
STANDARD OF CONSTRUCTION

- Double glazed window 4/16Ar/4 Ug=1,0 W/m²K with warm edge spacer bars (warm frame colours p. 35) or triple 4/10Ar/4/10Ar/4 Ug=0,8 W/m²K, optionally thermopanel in balcony windows
- Roto NX peripheral hardware with microventilation function (for rectangular Tilt&Turn windows) and three-plane adjustment, with anti-theft protection, handle misplacement block.
- hinge caps available colours p. 37
- three profile seals available in white or brown
- drip cap aluminium with thermal insert and mini drip cap (external aluminium glazing bead) p. 42
- handles available models and colours page p. 38

ADDITIONAL ACCESSORIES

glazing units - p. 34 fitting accessories - p. 43-46 air inlets - p. 42 muntins - p. 47 decorations for wood mullion mouldings - p. 50

AVAILABLE VARIANTS





The FSC® 100% certificate is held by: single-frame windows and terrace windows without thermopanel - pine and oak







thermal transmittance*: 1,2 W/(m²K)



water tightness: E900



air permeability: 4



resistance to wind load: C3



fire resistance: 30 min

(*) 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 EI 30 WOODEN

STRUCTURE

single frame window, the leaf and frame thickness 90 mm, glazing bead type C

MATERIAL

glued laminated pine wood

FINISH

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

STANDARD OF CONSTRUCTION

- glazing unit: VSG 44,2 Thermofloat 1,0 kl. P2A/16 Argon/PYROBEL 16, with a warm inter-pane frame Termo TGI, Ug=1,0 W/ m²K; g=npd; Lt=npd (warm frame colours p. 35)
- Roto NX WK2 hardware with three-level adjustment, anti-theft strikers, V-shaped rollers, handle misplacement block, passive sash of double-sashed windows and balcony doors, equipped with a central espagnolette with concealed handle
- hinge caps available colours p. 37
- handle ROTO Line available colours p. 38
- three profile seals available in white or brown
- intumescent seals in casement and frame
- · ceramic and intumescent seals around the perimeter of the glazing unit
- drip cap aluminium with thermal insert and mini drip cap (external aluminium glazing bead) p. 42

ADDITIONAL ACCESSORIES

on clasps bars - p. 44

AVAILABLE VARIANTS



rectangles windows single and sets* double frame

FSC FSC FSC 005001

* after obtaining individual approval for the facility from the Building Research Institute

The FSC® 100% certificate is held by: single-frame windows and terrace windows without thermopanel - pine and oak







thermal transmittance*: 1,3 W/(m²K)



water tightness: E900



air permeability: 4



acoustic properties: 46** (-1;-4)

(*) The provided values of the thermal and acoustic insulation apply to the reference window of the dimensions of 1,23 \times 1,48 m. Acoustic insulation Rw=46 dB applies to the window of the dimensions 1,50 \times 1,50 m

(**) applies to single leaf window with total surface area \leq 2,7 m2

EC 90 SR 46 WOODEN

STRUCTURE

single frame window, the leaf and frame thickness 90 mm, glazing bead Type C; optionally S-System

MATERIAL

glued laminated pine wood

FINISH

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

STANDARD OF CONSTRUCTION

- glazing unit with increased acoustic insulation Rw 51,(-2; -7) dB, construction: VSG 66,2 Akustic / 20 Argon /VSG 44,2 Thermofloat 1,1 Akustic Ug=1,1 W/m²K wg EN 673 g=55%; Lt=78% wg EN 410
- hinge caps available colours p. 37
- Roto NX peripheral hardware with microventilation function (for rectangular Tilt&Turn windows) with three-level adjustment, with anti-theft protection, handle misplacement block.
- three profile seals available in white or brown
- drip cap aluminium with thermal insert and mini drip cap (external aluminium glazing bead) p. 42
- handles available models and colours page p. 38

ADDITIONAL ACCESSORIES

warm frame colours - p. 35 fitting accessories - p. 43-46 on clasps bars - p. 44

AVAILABLE VARIANTS



rectangles windows sets single and double frame



The FSC® 100% certificate is held by: single-frame windows and terrace windows without thermopanel - pine and oak

Warranty up to 5 years - detailed conditions available at www.pol-skone.eu.





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thermal transmittance*: 1,2 W/(m²K) thermal transmittance**: 1,1 W/(m²K)



water tightness: 4A



air permeability: 4



resistance to wind load: C2



acoustic properties*: 33 (-1;-5) dB acoustic properties**: 33 (-1;-5) dB

(*) The provided values of the thermal and acoustic insulation apply to the reference window of the dimensions of 1,23 x 1,48 m with glazing unit Ug=1,0 W/m²K (**) The provided values of the thermal and acoustic insulation apply to the reference window of the dimensions of 1,23 x 1,48 m with glazing unit Ug=0,8 W/m²K

SCANDINAVIAN SYSTEM

WOODEN

WINDOWS OPENING TO THE OUTSIDE

STRUCTURE

single frame window, the leaf thickness 68 mm, frame thickness 104 mm, glazing bead S-system optionally Type C

MATERIAL

glued laminated pine wood, optionally oak

FINISH

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

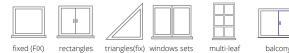
STANDARD OF CONSTRUCTION

- Double glazed window 4/16Ar/4/ Ug=1,0 W/m²K with warm edge spacer bars (warm frame colours p. 35) or triple 4/10Ar/4/10Ar/4 Ug=0,8 W/m²K, optionally thermopanel in balcony windows
- windows Roto PN hardware with anti-theft security (windows on scissor modules or window hinges), hotel security (Top-Swing windows),
- · balcony windows with Roto NX hardware, external hinges protected against corrosion and adjustable in two planes
- profile seal in white or brown, grey brush seal in the frame
- mini drip cap (external aluminium glazing bead) p. 49
- handles available models and colours page p. 40

ADDITIONAL ACCESSORIES

glazing units - p. 34 fitting accessories - p. 43-46 air inlets - p. 42 decorations for wood mullion mouldings - p. 50 muntins: Vienna bars, on clasps bars, hinged bars, inter-pane bars and structural bars - p. 44 $\,$

AVAILABLE VARIANTS



polygons (fix)

trapeziums

multi-leaf balcony multi-row windows with low threshold



The FSC® 100% certificate is held by: single-frame windows and terrace windows without thermopanel - pine and oak

Warranty up to 5 years - detailed conditions available at www.pol-skone.eu.







thermal transmittance*: 0,78 W/(m²K)

water tightness: E900



air permeability: 4



resistance to wind load: C3



acoustic properties: 34 (-1;-5)

(*) The provided values of the thermal and acoustic insulation apply to the reference window of the dimensions of 1,23 x 1,48 m

ENERGY CONCEPT 90 ALU-EFFECT WOOD-ALUMINIUM

STRUCTURE

single frame window, wood and aluminium with a thermal insert, the leaf and frame thickness 90 mm, with cladding 103 mm, glazing bead Type C, optionally S-System

MATERIAL

glued laminated pine wood, optionally oak

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, 9010, 9007, 9006, 9005, 8019, 8017, 8007, 8001, 7042, 7035, 7016, 6005, 5010, 3004, 1013 the other colours of the RAL palette are available at extra charge

STANDARD OF CONSTRUCTION

- Triple glazed window 4/16Ar/4/16Ar/4 Ug=0,5 W/m²K with warm edge spacer bars (warm frame colours p. 33), optionally thermopanel with aluminium sheet on the outside of the balcony windows
- Roto NX peripheral hardware with microventilation function (for rectangular Tilt&Turn windows) with three-level adjustment, with anti-theft protection, handle misplacement block
- three profile seals available in white or brown
- additional seal between the frame cladding and the leaf cladding
- drip cap aluminium with thermal insert p. 42
- aluminium cladding on the outside
- hinge caps available colours p. 37
- handles available models and colours page p. 38

ADDITIONAL ACCESSORIES

glazing units - p. 33 fitting accessories - p. 43-46 air inlets - p. 42 window bars and thermally insulated window sills - p. 51 decorations for wood mullion mouldings - p. 50 muntins: Vienna bars, on clasps bars, inter-pane bars and structural bars - p. 44

WINDOWS MEET THE

WINDOWS DEDICATED TO ENERGY-EFFICIENT BUILDINGS

AIR PROGRAMME

REQUIREMENTS OF THE CLEAN

AVAILABLE VARIANTS



polygons (fix) trapeziums terrace windows with windows low threshold



The FSC® 100% certificate is held by: single-frame windows and terrace windows without thermopanel - pine and oak

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thermal transmittance*: 0,90 W/(m²K)



water tightness: E900



air permeability: 4



(*) The provided values of the thermal and acoustic insulation apply to the reference window of the dimensions of 1,23 \times 1,48 m

TYPE C PLUS ALU-EFFECT WOOD-ALUMINIUM

STRUCTURE

single frame window, the leaf and frame thickness 78 mm, with cladding 91 mm, glazing bead type C; optionally S-System

MATERIAL

glued laminated pine wood, optionally oak

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, 9010, 9007, 9006, 9005, 8019, 8017, 8007, 8001, 7042, 7035, 7016, 6005, 5010, 3004, 1013, the other colours of the RAL palette are available at extra charge

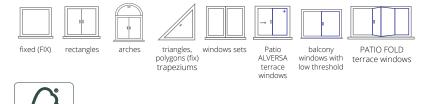
STANDARD OF CONSTRUCTION

- Triple glazed window 4/14Ar/4/14Ar/4 Ug=0,6 W/m²K with warm edge spacer bars (warm frame colours p. 35), optionally thermopanel with aluminium sheet on the outside of the balcony windows
- Roto NX peripheral hardware with microventilation function (for rectangular Tilt&Turn windows) with three-level adjustment, with anti-theft protection, handle misplacement block
- hinge caps available colours p. 37,
- three profile seals available in white or brown,
- additional seal between the frame cladding and the leaf cladding,
- aluminium cladding on the outside
- handles available models and colours page p. 38

ADDITIONAL ACCESSORIES

glazing units - p. 34 fitting accessories - p. 43-46 air inlets - p. 42 muntins: Vienna bars, on clasps bars, inter-pane bars and structural bars - p. 44

AVAILABLE VARIANTS





The FSC® 100% certificate is held by: single-frame windows and terrace windows without thermopanel - pine and oak





thermal transmittance*: 1,2 W/(m²K) thermal transmittance*: 1,1 W/(m²K)



water tightness: E900



air permeability: 4



resistance to wind load: B2

acoustic properties*: 33 (-1;-5) dB acoustic properties**: 33 (-1;-5) dB

(*) The provided values of the thermal and acoustic insulation apply to the reference window of the dimensions of 1,23 x 1,48 m with glazing unit Ug=1,0 W/m²K (**) The provided values of the thermal and acoustic insulation apply to the reference window of the dimensions of 1,23 x 1,48 m with glazing unit Ug=0,8 W/m²K

TYPE C ALU-EFFECT WOOD-ALUMINIUM

STRUCTURE

single frame window, the leaf and frame thickness 68 mm, with cladding 81 mm, glazing bead type C; optionally S-System

MATERIAL

glued laminated pine wood, optionally oak

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 RAL 9016, 9010, 9007, 9006, 9005, 8019, 8017, 8007, 8001, 7042, 7035, 7016, 6005, 5010, 3004, 1013 the other colours of the RAL palette are available at extra charge

STANDARD OF CONSTRUCTION

- Double glazed window 4/16Ar/4/ Ug=1,0 W/m²K with warm edge spacer bars (warm frame colours p. 35) or triple 4/10Ar/4/10Ar/4 Ug=0,8 W/m²K, optionally thermopanel with aluminium sheet on the outside of the balcony windows
- Roto NX peripheral hardware with microventilation function (for rectangular Tilt&Turn windows) with three-level adjustment, with anti-theft protection, handle misplacement block
- hinge caps available colours p. 37,
- three profile seals available in white or brown,
- additional seal between the frame cladding and the leaf cladding,
- aluminium cladding on the outside
- handles available models and colours page p. 38

ADDITIONAL ACCESSORIES

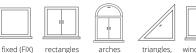
glazing units - p. 34 fitting accessories - p. 43-46 air inlets - p. 42

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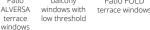
AVAILABLE VARIANTS



triangles, windows sets polygons (fix) trapeziums



structural bars - p. 44



muntins: Vienna bars, on clasps bars, inter-pane bars and

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Warranty up to 5 years - detailed conditions available at www.pol-skone.eu.





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thermal transmittance*: 1,0 W/(m²K)



water tightness: E1050



resistance to wind load: C2



air permeability: 4

(*) The provided values of the thermal and acoustic insulation apply to the reference window of the dimensions of 1,23 \times 1,48 m

2+1 DUO WOOD-ALUMINIUM

STRUCTURE

composite window, wood-aluminium; the leaf and frame thickness 68 mm, frame with cladding 80 mm, additional aluminium leaf fixed on wooden leaf, glazing bead R=3 mm

MATERIAL

glued laminated pine wood, optionally oak

MATERIAL OF EXTRA LEAF

aluminium

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 RAL 9016, 9010, 9007, 9006, 9005, 8019, 8017, 8007, 8001, 7042, 7035, 7016, 6005, 5010, 3004, 1013 the other colours of the RAL palette are available at extra charge

STANDARD OF CONSTRUCTION

- Double glazed window 4/16Ar/4/ Ug=1,0 W/m²K with warm edge spacer bars (warm frame colours p. 35), 4 mm toughened glass in aluminium leaf, optionally thermopanel with aluminium sheet on the outside of the balcony windows
- hinge caps available colours p. 37
- Roto NX peripheral hardware with microventilation function (for rectangular Tilt&Turn windows) with three-level adjustment, with anti-theft protection, handle misplacement block
- three profile seals available in white or brown
- additional seal between the frame cladding and the leaf cladding,
- aluminium cladding on the outside
- handles available models and colours page p. 38

ADDITIONAL ACCESSORIES

glazing units - p. 34 fitting accessories - p. 43-46 air inlets - p. 42 colours of louvre slats - p. 43 muntins: inter-pane bars and structural bars - p. 44

AVAILABLE VARIANTS



fixed (FIX) windows sets

s sets rectangles single and double frame



The FSC® 100% certificate is held by: single-frame windows and terrace windows without thermopanel - pine and oak

Warranty up to 5 years - detailed conditions available at www.pol-skone.eu.





thermal transmittance*:1,2 W/(m²K) thermal transmittance**:1,0 W/(m²K)



water tightness: 5A



air permeability: 4



resistance to wind load: C2

acoustic properties*: 33 (-1;-5) dB acoustic properties**: 33 (-1;-5) dB

(*) The provided values of the thermal and acoustic insulation apply to the reference window of the dimensions of 1,23 x 1,48 m with glazing unit Ug=1,0 W/m²K (**) The provided values of the thermal and acoustic insulation apply to the reference window of the dimensions of 1,23 x 1,48 m with glazing unit Ug=0,8 W/m²K

DUAL NORD WOOD-ALUMINIUM

WINDOWS OPENING TO THE OUTSIDE

STRUCTURE

single frame window, the leaf thickness 68 mm with cladding 81 mm, frame 104 mm with cladding 117 mm, glazing rebate S-System

MATERIAL

glued laminated pine wood, optionally oak

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 RAL 9016, 9010, 9007, 9006, 9005, 8019, 8017, 8007, 8001, 7042, 7035, 7016, 6005, 5010, 3004, 1013 the other colours of the RAL palette are available at extra charge

STANDARD OF CONSTRUCTION

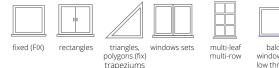
- Double glazed window 4/16Ar/4/ Ug=1,0 W/m²K with warm edge spacer bars (warm frame colours p. 35) or triple 4/10Ar/4/10Ar/4 Ug=0,8 W/m²K, optionally thermopanel with aluminium sheet on the outside of the balcony windows
- windows Roto PN hardware with anti-theft protection (windows on scissor modules or window hinges), hotel security (Top-Swing windows),
- balcony windows with Roto NX hardware, external hinges protected against corrosion and adjustable in two planes,
- profile seal in white or brown, brush seal in frame in grev
- aluminium cladding on the outside
- handles available models and colours page p. 40

ADDITIONAL ACCESSORIES

glazing units - p. 34 fitting accessories - p. 43-46 air inlets - p. 42

muntins: Vienna bars, on clasps bars, inter-pane bars and structural bars - p. 44

AVAILABLE VARIANTS





FSC www.fsc.on FSC[®] C005001

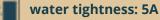
The FSC® 100% certificate is held by: single-frame windows and terrace windows without thermopanel - pine and oak







thermal transmittance*:0,83 W/(m²K)





air permeability: 4



resistance to wind load: C2



acoustic properties*: 34 (-1;-5) dB

(*) The provided values of the thermal and acoustic insulation apply to the reference window of the dimensions of 1,23 \times 1,48 m

DUAL NORD 0,5

WOOD-ALUMINIUM

WINDOWS OPENING TO THE OUTSIDE

STRUCTURE

single frame window and balcony door, the leaf thickness 68 mm with cladding 81 mm, frame 104 mm with cladding 117 mm, glazing rebate S-System

MATERIAL

glued laminated pine wood, optionally oak

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, 9010, 9007, 9006, 9005, 8019, 8017, 8007, 8001, 7042, 7035, 7016, 6005, 5010, 3004, 1013 the other colours of the RAL palette are available at extra charge

STANDARD OF CONSTRUCTION

- Triple glazed window 4/16Ar/4/16Ar/4 Ug=0,5 W/m²K with warm edge spacer bars (warm frame colours p. 33), optionally thermopanel with aluminium sheet on the outside of the balcony windows
- windows Roto PN hardware with anti-theft protection (windows on scissor modules or window hinges), hotel security (Top-Swing windows),
- balcony windows with Roto NX hardware, external hinges protected against corrosion and adjustable in two planes,
- Profile seal in white or brown, brush seal in frame in grey
- aluminium cladding on the outside
- handles available models and colours page p. 40

ADDITIONAL ACCESSORIES

glazing units - p. 33 fitting accessories - p. 43-46 air inlets - p. 42 muntins: Vienna bars, on clasps bars, inter-pane bars and structural bars - p. 44

AVAILABLE VARIANTS



fixed (FIX) rectangles

triangles, windows sets polygons (fix) trapeziums

multi-leaf balcony multi-row windows with low threshold



The FSC® 100% certificate is held by: single-frame windows and terrace windows without thermopanel - pine and oak



PARAMETERS DEPENDING ON THE VARIANT OF CONSTRUCTION AND THE WINDOW SYSTEM



PATIO FOLD WOODEN/ WOOD-ALUMINIUM

PATIO FOLD (folding) terrace windows allow for obtaining maximum space in the passage after folding the sashes. PATIO FOLD window sashes fold inwards.

STRUCTURE

WOODEN: single frame terrace window, the leaf and frame thickness depending on the system: ENERGY CONCEPT 90 - 90 mm, TYPE C PLUS - 78 mm, TYPE C - 68 mm, glazing bead Type C; optionally S-System **WOOD-ALUMINIUM:** single frame terrace window, the leaf and frame thickness depending on the system: ENERGY CONCEPT 90 ALU-EFFECT: 90 mm, with cladding 103 mm , TYPE C PLUS ALU-EFFECT: 78 mm, with cladding 91 mm TYPE C ALU-EFFECT: 68 mm, cladding 81 mm, glazing bead Type C; optionally S-System

MATERIAL

glued laminated pine wood, optionally oak

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, 9010, 9007, 9006, 9005, 8019, 8017, 8007, 8001, 7042, 7035, 7016, 6005, 5010, 3004, 1013 the other colours of the RAL palette are available at extra charge

STANDARD OF CONSTRUCTION

- Glazing unit according to the window system,
- Roto Patio Fold hardware with anti-theft catch and handle misplacement block,
- number of seals depends on the window system,
- adjustable system hinges,
- bottom and top rail with sash carriages,
- drip cap and mini drip cap (external aluminium glazing bead) in wooden systems p. 49
- aluminium drip cap and aluminium cladding in wood-aluminium systems p. 42
- handles available models and colours page p. 39

ADDITIONAL ACCESSORIES

low aluminium threshold warm frame colours - p. 35 fitting accessories - p. 43-46 glazing units - p. 34 air inlets - p. 42 muntins: Vienna bars, on clasps bars, inter-pane bars and structural bars - p. 44

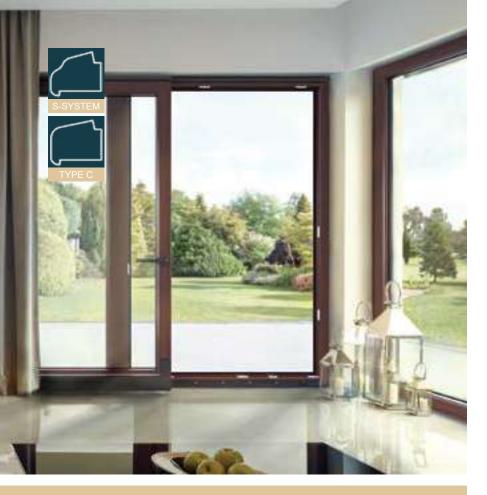
OPENING CONFIGURATIONS

321, 330, 431, 550, 541, 532, 651, 633, 770, 761, 752, 743 - p. 6



The FSC® 100% certificate is held by: single-frame windows and terrace windows without thermopanel - pine and oak

Warranty up to 5 years - detailed conditions available at www.pol-skone.eu.



PARAMETERS DEPENDING ON THE VARIANT OF CONSTRUCTION AND THE WINDOW SYSTEM

PATIO ALVERSA WOODEN/ WOOD-ALUMINIUM

PATIO ALVERSA terrace windows (offset-sliding doors) take up less space and open more comfortably than traditional inward opening patio doors.

STRUCTURE

PATIO ALVERSA KS:

- tilt of the sash in the horizontal handle position,
- the sash moves in the vertical handle position (upwards),
 sash ventilation in tilt position

PATIO ALVERSA PS:

- tilt of the sash in the horizontal handle position
- system facilitating insertion of the sash into the frame microventilation

WOODEN: single frame terrace window, the leaf and frame thickness depending on the system: ENERGY CONCEPT 90 - 90 mm, TYPE C PLUS - 78 mm, TYPE C - 68 mm, glazing bead Typ C; optionally S-System WOOD-ALUMINIUM: single frame terrace window, the leaf and frame thickness depending on the system:

WOOD-ALUMINIUM: single frame terrace window, the leaf and frame thickness depending on the system: ENERGY CONCEPT 90 ALU-EFFECT: 90 mm, with cladding 103 mm , TYPE C PLUS ALU-EFFECT: 78 mm, with cladding 91 mm TYPE C ALU-EFFECT: 68 mm, with cladding 81 mm, glazing bead Type C; optionally S-System

MATERIAL

glued laminated pine wood, optionally oak

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, 9010, 9007, 9006, 9005, 8019, 8017, 8007, 8001, 7042, 7035, 7016, 6005, 5010, 3004, 1013 the other colours of the RAL palette are available at extra charge

STANDARD OF CONSTRUCTION

- Glazing unit according to the window system;
- Roto Patio Alversa hardware with an anti-theft catch and a handle misplacement block,
- number of seals depending on the window system,
- drip cap and mini drip cap (external aluminium glazing bead) in wooden systems p. 49
- aluminium drip cap and aluminium cladding in wood-aluminium systems p. 42
 - handles available models and colours page p. 39

ADDITIONAL ACCESSORIES

glazing units - p. 34 air inlets - p. 42 warm frame colours - p. 35 muntins: Vienna bars, on clasps bars, inter-pane bars and structural bars - p. 44

OPENING CONFIGURATIONS

SCH. A, SCH A', SCH C, SCH. C', SCH G, SCH G' - p. 6



The FSC® 100% certificate is held by: single-frame windows and terrace windows without thermopanel - pine and oak

Warranty up to 5 years - detailed conditions available at www.pol-skone.eu.





thermal transmittance*: 0,75 W/(m²K)

water tightness: 7A



air permeability: 4



resistance to wind load: C2

(*) The provided values of the thermal and acoustic insulation apply to the reference window of the dimensions of 3.00 x 2.20 m

PATIO INOVA EC 90 WOODEN

PATIO INOVA is a system of terrace windows with a sliding outer sash, thanks to which the system is characterised by exceptional tightness. The advantage of the system is an innovative fixed glazing in PANORAMA version (glass mounted directly in the threshold and lintel of the window), which allows maximum room illumination.

STRUCTURE

single frame terrace window, the leaf and frame thickness depending on the system: Energy Concept 90: leaf 90 mm , frame 200 mm, glazing bead Type C optionally S-system, oak doorstep cap on the inside, aluminium doorstep cap on the outside, wooden drip cap in the lintel

MATERIAL

glued laminated pine wood, optionally oak

FINISH

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

STANDARD OF CONSTRUCTION

- Triple glazed window 4/16Ar/4/16Ar/4 Ug=0,5 W/m²K with warm edge spacer bars (warm frame colours p. 33), optionally thermopanel
- · Roto Patio Inova hardware with anti-theft strike,
- drip cap (external aluminium glazing bead) in the sliding sash p. 49
- · aluminium outside handle allowing the sash to be slid from the outside
- frame seal around the sash
- handles available models and colours page p. 39

ADDITIONAL ACCESSORIES

glazing units - p. 33 muntins: Vienna bars, on clasps bars, inter-pane bars and structural bars - p. 44 **Soft Open** and **Soft Close** system - a hidden system braking the sash when opening and closing and pulling it to the final position, increases the comfort of use by gently opening and closing the sash

OPENING CONFIGURATIONS

SCH. A, SCH C, SCH G, SCH K - p. 6



The FSC® 100% certificate is held by: single-frame windows and terrace windows without thermopanel - pine and oak





thermal transmittance*: 0,75 W/(m²K)



water tightness: 4A



air permeability: 4



resistance to wind load: C2



acoustic properties:

(*) The provided values of the thermal and acoustic insulation apply to the reference window of the dimensions of 3,0 x 2,20 m

23

HS **EC 90** WOODEN

Terrace windows HS EC 90 is a system of lift and slide windows characterized by comfortable handling of very large and heavy sashes (up to 400 kg). HS EC 90 windows have a standard thermally insulated low threshold, which allows for installation into the floor and blending with the floor surface.

STRUCTURE

single frame terrace window, the leaf thickness 90 mm, frame thickness 210 mm, glazing bead Type C; optionally S-System

MATERIAL

glued laminated pine wood, optionally oak

FINISH

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

STANDARD OF CONSTRUCTION

- Triple glazed window 4/16Ar/4/16Ar/4 Ug=0,5 W/m²K with warm edge spacer bars (warm frame colours p. 33)
- silicone system seals
- flush top guide bar no protruding hardware parts in the window lintel
- fibreglass threshold with 15 mm running rail
- handles available models and colours page p. 39

ACCESSORIES AND EQUIPMENT

glazing units - p. 33 reed switches - p. 43 reduces the resistance force and causes a gentle return of the handle dedicated to heavy sashes - p. 25 muntins: Vienna bars, on clasps bars, inter-pane bars and structural bars - p. 44

espagnolettes with insert - p. 41 automatic closing and opening systems - p. 25 sash lowering shock absorber - an invisible sash shock absorber Comfort Stop sash damper - brakes the sash during opening and closing just before the end position and gently stops it p. 25

OPENING CONFIGURATIONS

SCH. A, SCH. C, SCH. D, SCH. G, SCH K - p. 5



The FSC® 100% certificate is held by: single-frame windows and terrace windows without thermopanel - pine and oak



thermal transmittance*: 0,82 W/(m²K)



water tightness: 4A



air permeability: 4



resistance to wind load: C2



acoustic properties:

(*) The provided values of the thermal and acoustic insulation apply to the reference window of the dimensions 3,0 x 2,20 m

HS DUAL WOOD-ALUMINIUM

Terrace windows HS DUAL is a system of lift and slide windows characterized by comfortable handling of very large and heavy sashes (up to 400 kg). HS DUAL windows have a standard thermally insulated low threshold, which allows for installation into the floor and blending with the floor surface.

STRUCTURE

single frame terrace window, the leaf thickness 68 mm with cladding 84 mm, frame thickness 180 mm with cladding 198 mm, glazing bead Type C; optionally S-System

MATERIAL

glued laminated pine wood, optionally oak

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, 9010, 9007, 9006, 9005, 8019, 8017, 8007, 8001, 7042, 7035, 7016, 6005, 5010, 3004, 1013 the other colours of the RAL palette are available at extra charge

STANDARD OF CONSTRUCTION

- Triplee glazed window 4/16Ar/4/16Ar/4 Ug=0,5 W/m²K with warm edge spacer bars (warm frame colours p. 33)
- silicone system seals
- flush top guide bar no protruding hardware parts in the window lintel
- fibreglass threshold with 15 mm running rail
- handles available models and colours page p. 39

ACCESSORIES AND EQUIPMENT

glazing units - p. 33

sash lowering shock absorber - an invisible sash shock absorber automatic closing and opening systems - p. 25 reduces the resistance force and causes a gentle return of the Comfort Stop sash damper - brakes the sash during opening handle dedicated to heavy sashes - p. 25 reed switches - p. 43

espagnolettes with insert - p. 41 and closing just before the end position and gently stops it - p. 25

muntins: Vienna bars, on clasps bars, inter-pane bars and structural bars - p. 44

OPENING CONFIGURATIONS

SCH. A, SCH. C, SCH. D, SCH. G, SCH K - p. 5



The FSC® 100% certificate is held by: single-frame windows and terrace windows without thermopanel - pine and oak



thermal transmittance*: 0,73 W/(m²K)



water tightness: 4A



air permeability: 4



resistance to wind load: C2



acoustic properties:

(*) The provided values of the thermal and acoustic insulation apply to the reference window of the dimensions 3,0 x 2,20 m

HS PANORAMA DUAL WOOD-ALUMINIUM

An innovative version of HS windows characterised by panoramic fixed glazing. The glazing of the fixed sash is embedded in the threshold and thus flush with the floor. In addition, frameless fixed glazing on the side and top provides maximum light into the room and a panoramic view of the garden. The modern character of the window is completed by the external aluminium cladding with a contemporary profile.

STRUCTURE

single frame terrace window, the leaf thickness 78 mm with cladding 91 mm, frame thickness 198 mm with cladding 211 mm, system without glazing beads on the inside

MATERIAL

glued laminated pine wood, optionally oak

FINISH

water soluble covering paints or transparent paints, a three-layer covering system, a four-layer transparent system; aluminium powder painted aluminium, the RAL basic colours 9016, 9010, 9007, 9006, 9005, 8019, 8017, 8007, 8001, 7042, 7035, 7016, 6005, 5010, 3004, 1013 the other colours of the RAL palette are available at extra charge

STANDARD OF CONSTRUCTION

- Triple glazed window 4/16Ar/4/16Ar/4 Ug=0,5 W/m²K with warm edge spacer bars (warm frame colours p. 33)
- silicone system seals
- MACO Rail-System fittings: bogies with brushes for clean running rail and therefore smooth sash movement, hooked espagnolette with recessed catches for high mechanical burglary protection and modern window design
- flush top guide bar no protruding hardware parts in the window lintel
- fibreglass threshold with thermally insulated inserts with 5 mm running rail
- handles available models and colours page p. 39

ACCESSORIES AND EQUIPMENT

glazing units - p. 33

sash lowering shock absorber - an invisible sash shock absorber automatic closing and opening systems - p. 26 reduces the resistance force and causes a gentle return of the handle dedicated to heavy sashes - p. 26 reed switches - p. 43

espagnolettes with insert - p. 41 Comfort Stop sash damper - brakes the sash during opening and closing just before the end position and gently stops it - p. 26

OPENING CONFIGURATIONS

SCH. A, SCH. C, SCH. D, SCH. G, SCH K - p. 5



The FSC® 100% certificate is held by: single-frame windows and terrace windows without thermopanel - pine and oak

Warranty up to 5 years - detailed conditions available at www.pol-skone.eu.

STANDARD OF CONSTRUCTION HS EC 90 / HS DUAL



MACO RAIL-SYSTEM FITTINGS

Roller carriages with brushes for a clean running rail and thus a smooth sash movement.



FLUSH TOP GUIDE BAR no protruding hardware parts in the window lintel.



optionally

SASH DAMPING DEVICE invisible sash shock absorber reduces the resistance force and causes gentle return of the handle dedicated to heavy sashes.



FIBREGLASS THRESHOLD

with a 15 mm running rail and with a threshold levelling plate allowing an almost perfect leveling of the floor inside and outside the house, HS EC 90 threshold width 240 mm height 42 mm, HS DUAL threshold width 180 mm height 62 mm.



HOOK ESPAGNOLETTE with recessed hooks providing high mechanical security against burglary and modern window design.



optionally

COMFORT STOP SASH DAMPER brakes the sash during opening and closing just before the end position and gently stops it.

STANDARD OF CONSTRUCTION HS PANORAMA



MACO RAIL-SYSTEM FITTINGS

Roller carriages with brushes for a clean running rail and thus a smooth sash movement.



FLUSH TOP GUIDE BAR no protruding hardware parts in the window lintel.



optionally

SASH LOWERING SHOCK ABSORBER - an invisible sash shock absorber reduces the resistance force and causes a gentle return of the handle dedicated to heavy sashes





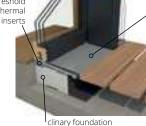
FIBREGLASS THRESHOLD

fibreglass threshold with thermally insulated inserts with 5 mm running rail and with a threshold leveling plate allowing almost perfect leveling of the floor inside and outside the house, threshold width 240 mm height 42 mm.



threshold alignment topper

threshold with thermal



FIBREGLASS THRESHOLD with thermally insulated inserts with 5 mm running rail and with a threshold levelling plate allowing almost perfect leveling of the floor inside and outside the house, threshold width 240 mm height 42 mm.





PANORAMA FIXED GLAZING For safety reasons, the use of safety glass (laminated or tempered) is recommended

optionally

COMFORT STOP SASH DAMPER

brakes the sash during opening and closing just before the end position and gently stops it.

WINDOW SHUTTERS







FSC® 100% certified: single leaf and double leaf pine and oak shutters

CE

Warranty up to 5 years - detailed conditions available at www.pol-skone.eu.

resistance to wind load: 1

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WINDOW SHUTTERS

STRUCTURE

Fixed laths (13x46mm) built into a 42 mm thick wooden frame

MATERIAL

wood: pine, oak



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

HARDWARE







plate

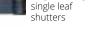
Option 1 standard hinge

Option 2 hinge with decorative metal plate

CLOSING HARDWARE



Single leaf shutter



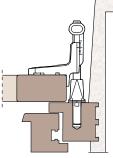
WAY OF OPENING





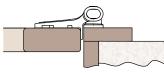
hinge with corner metal

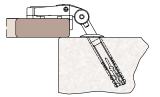
WAY OF OPENING



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)

* not applicable to windows with aluminium cladding from outside



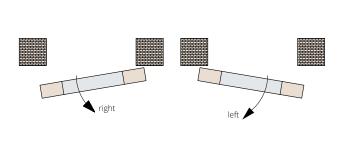


Option 2 - fitted on the shutter's own frame.

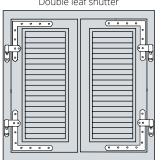
Additionally, the entire window hole should be additionally covered with 24 mm x 80 mm wooden mouldings (the window shutter frame). Hardware should be fitted to the frame according to the drawing. This way of fitting the window shutter improves the appearance of the window while keeping it functional.

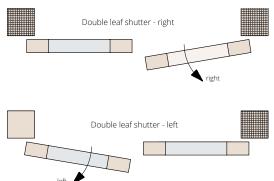
Option 3 – fitted to the wall.

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.



Double leaf shutter





WINDOW RAILINGS

PORTFENETR

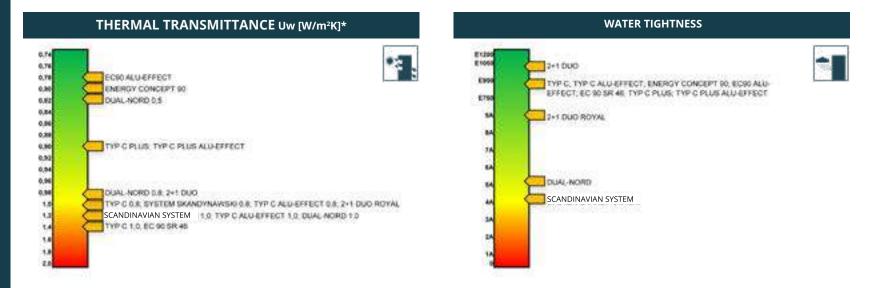


With modern architectural trends in mind, Pol-Skone offers PORTFENETR window balustrades, which can be installed in the **Type C PLUS** and **Energy Concept 90** systems.

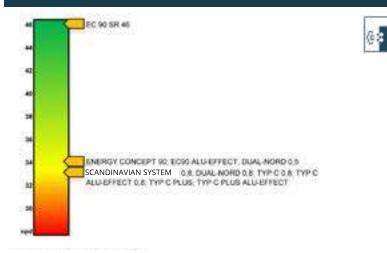
Aluminium PORTFENETR system is fixed to the wooden window frame, guaranteeing high level of security thanks to laminated toughened glass. The application of this construction makes the interior maximally illuminated and the building gains a modern character.

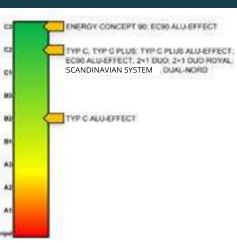
WINDOW PARAMETERS

WINDOW SYSTEMS



ACOUSTIC PROPERTIES [DB]**





RESISTANCE TO WIND LOAD

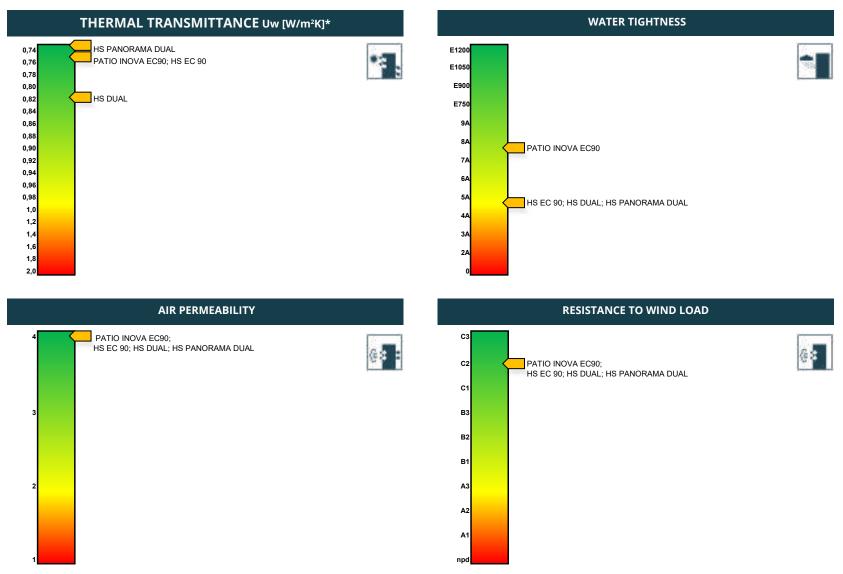


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*single leaf window - 1,23 x 1,48 [m] **applies to a window with total surface area $\,\leq$ 2,7 m^2

WINDOW PARAMETERS

TERRACE WINDOW SYSTEMS



*scheme A - 3,00 x 2,20 [m]

GLAZING UNITS

Triple glazed windows Ug = 0,5 W/m²K

THE UNIT CONSISTS OF:

PLANITHERM ONE 4mm/16 Ar/PLANICLEAR 4mm/16 Ar/ PLANITHERM ONE 4mm, Ug=0,5 W/m²K g=38%, Lt =59 % or PLANITHERM XN 4mm/18 Ar/PLANICLEAR 4mm/18 Ar/ PLANITHERM XN 4mm, Ug=0,5 W/m²K g=54%, Lt=74 %

Ug – thermal transmittance of glazing unit

g - the total solar energy transmittance coefficient Lt - light transmission coefficient

AVAILABLE OPTIONS:

- GLAZING FOR BEST DAYLIGHT IN COMBINATION WITH HIGHEST SOLAR ENERGY TRANSMITTANCE:

ECLAZ - a new generation of coatings for maximum room illumination - light transmission of up to 77% and solar energy transmission of up to 60%. Glazing units with ECLAZ reflect internal heat while letting in plenty of light and solar energy from outside (providing free heat).

- SUNSCREENS:

STOPSOL – solar control glass reduces the amount of heat energy from the sun, reflective coating for greater privacy, available in grey, brown, blue and clear.

COOL-LITE SKN - selective glass characterised by a low solar energy transmittance parameter (g) in relation to the solar light transmittance (Lt) makes it possible to dispense with additional constructions interfering with the body of the building (blinds, shutters, etc.). Glass with a natural appearance and high transparency.

MIRASTAR - glass with a "Venetian mirror" effect

SAFETY GLAZING:

WITH TOUGHENEd glass - provides high strength when struck by a soft body, up to 5 times greater than standard non-toughened glass of the same thickness. When broken they shatter into many small and tiny pieces, just like a car windscreen.

LAMINATED GLASS - provides an effective barrier against intrusion. Laminated glass consists of two or more panes of glass with internal PVB films 0.38 mm thick. Depending on the combination and the number and thickness of the individual panes of glass and PVB films, laminated glass can be produced with different properties. Thanks to an inner layer - a special film - when laminated glass breaks, the film keeps the glass intact, thus protecting it from serious injury. Laminated glass protects against attempted break-ins, acts of vandalism and even prevents breaking through the glass during a forcible break-in.

SOUNDPROOFING GLAZING:

- UNITS WITH ACOUSTIC INSULATION UP TO 41 dB WHILE MAINTAINING THE COEFFICIENT Ug=0,5 W/m²K
- UNITS WITH SOUND INSULATION OF UP TO 50 DB WITH INCREASED HEAT TRANSFER COEFFICIENT
- GLAZING WITH FUNCTIONAL COATING:

BIOCLEAN GLASS - glass with a durable transparent outer coating with photocatalytic and hydrophilic effects. The natural effects of sun and rain help keep the glass clean for longer. The glass is also easier to clean. **ORNAMENT GLASS** - the sophisticated glass structure lets the light in and marks the boundary between transparency and privacy. The timeless design gives each interior an individual character.



DEDICATED TO SYSTEMS:

- ENERGY CONCEPT 90
- ENERGY CONCEPT 90 ALU-EFFECT
- DUAL NORD 0,5
- PATIO FOLD ENERGY CONCEPT 90
- PATIO FOLD ENERGY CONCEPT 90 ALU-EFFECT
- PATIO ALVERSA ENERGY CONCEPT 90
- PATIO ALVERSA ENERGY CONCEPT 90 ALU-EFFECT - PATIO INOVA EC 90
- PATIO INO - HS EC 90
- HS EC 90 - HS DUAL
- HS DUAL - HS PANORAMA DUAL

IN THE GLAZING UnitS, THE SWISSPACER ADVANCE Warm edge spacer bars IS AVAILABLE IN THE FOLLOWING COLOURS AS STANDARD



	RAL	brown	brown	RAL	grey RAL	RAL	
	9005	RAL	RAL	9023	7035	9015	
		8014	8003				
1							T

(SWISSPACER ULTIMATE warm frame available at extra charge)

GLAZING UNITS

TRIPLE GLAZED Ug = 0,8 W/m²K

DOUBLE GLAZED Ug = 1,0 W/m²K



THE UNIT CONSISTS OF: 4mm FLOAT/16 Ar/THERMOFLOAT 1,0, Ug=1,0 W/m2K g=54%, Lt=76 %

DEDICATED TO SYSTEMS:

- TYPE C
- TYPE C ALU-EFFECT
- Scandinavian SYSTEM
- DUAL NORD
- 2+1 DUO
- PATIO FOLD TYPE C
- PATIO FOLD TYPE C ALU-EFFECT
- PATIO AI VERSA TYPE C
- PATIO ALVERSA TYPE C ALU-EFFECT
- Ug thermal transmittance of glazing unit
- g the total solar energy transmittance coefficient Lt light transmission coefficient

DEDICATED TO SYSTEMS:

THE UNIT CONSISTS OF:

Ug=0,8 W/m²K g=52%, Lt =74%

THERMOFLOAT 1.1 4mm/10 Ar/FLOAT

4mm/10 Ar/THERMOFLOAT 1.1 4mm,

- TYPE C
- TYPE C ALU-EFFECT
- Scandinavian SYSTEM
- DUAL NORD
- 2+1 DUO
- PATIO FOLD TYPE C
- PATIO FOLD TYPE C ALU-EFFECT
- PATIO AI VERSA TYPE C
- PATIO ALVERSA TYPE C ALU-EFFECT





THE UNIT CONSISTS OF:

Thermofloat 1,0 4mm/14 Argon/Float 4mm/14 Argon/ Thermofloat 1,0 4mm, Ug=0,6 W/m2K g=41%, Lt=65 % ŌR

Thermofloat 1,1 4mm/14 Argon/Float 4mm/14 Argon/ Thermofloat 1,1 4mm, Ug=0,6 W/m2K g=52%, Lt=74 %

DEDICATED TO SYSTEMS:

- TYPE C PLUS
- TYPE C PLUS ALU-EFFECT
- PATIO FOLD TYPE C PLUS
- PATIO FOLD TYPE CPLUS ALU-EFFECT
- PATIO ALVERSA TYPE C PLUS
- PATIO ALVERSA TYPE C PLUS ALU-EFFECT

AVAILABLE OPTIONS:

- SUNSCREENS:+

STOPSOL – solar control glass reduces the amount of heat energy from the sun, reflective coating for greater privacy, available in grey, brown, blue and clear. **ANTISOL** - solar control glass, which reduces the transmission of solar energy, thus preventing overheating of rooms. Available in the following colour variants: grey, brown, blue and green.

COMBI NEUTRAL - selective glass characterised by low solar energy transmittance (g) in relation to solar light transmittance (Lt). The best possible use of daylight and sunlight thanks to high natural light transmission, colour neutrality and colour fidelity.

ANTISOL - solar control glass, which reduces the transmission of solar energy, thus preventing overheating of rooms. Available in the following colour variants: grey, brown, blue and green.

MIRASTAR - glass with a "Venetian mirror" effect

GLAZING UNITS

SAFETY GLAZING:

WITH TOUGHENEd glass - provides high strength when struck by a soft body, up to 5 times greater than standard non-toughened glass of the same thickness. When broken they shatter into many small and tiny pieces, just like a car windscreen.

LAMINATED GLASS - provides an effective barrier against intrusion. Laminated glass consists of two or more panes of glass with internal PVB films 0.38 mm thick. Depending on the combination and the number and thickness of the individual panes of glass and PVB films, laminated glass can be produced with different properties. Thanks to an inner layer - a special film - when laminated glass breaks, the film keeps the glass intact, thus protecting it from serious injury. Laminated glass protects against attempted break-ins, acts of vandalism and even prevents breaking through the glass during a forcible break-in.

SOUNDPROOFING GLAZING:

- UNITS WITH ACOUSTIC INSULATION UP TO 41 dB WHILE MAINTAINING THE COEFFICIENT Ug=0,5 W/m²K

- UNITS WITH SOUND INSULATION OF UP TO 50 DB WITH INCREASED HEAT TRANSFER COEFFICIENT

- GLAZING WITH FUNCTIONAL COATING:

BIOCLEAN GLASS - glass with a durable transparent outer coating with photocatalytic and hydrophilic effects. The natural effects of sun and rain help keep the glass clean for longer. The glass is also easier to clean.

ANTI-FOG GLASS - glass with a special anti-condensation coating on the outside, thanks to which condensed water vapour is slower to settle on the outer pane. This coating maintains a higher external temperature of the glass, which delays the condensation of water vapour.

IN GLAZING UnitS Ug=1,0 W/m²K AND Ug=0,8 W/m²K TERMO TGI WARM EDGE SPACER BAR AS STANDARD IN GLAZING UnitS Ug=0,6 W/m²K CHROMATECH WARM EDGE SPACER BAR AS STANDARD AVAILABLE IN COLOURS





WHITE RAL 9016

GREY RAL 7035



BROWN RAL 8016



BLACK RAL 9005 (TGI) RAL 9004 (CHROMATECH)





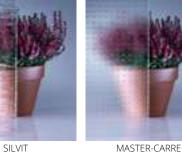
PREMIUM EDGE WARM EDGE SPACER BAR AVAILABLE AT EXTRA CHARGE

AVAILABLE PATTERNS OF ORNAMENTAL PANES

Triple glazed units Ug = 0,5 W/m²K









ARENA C

ALTDEUTSCH K

MASTER-POINT

KATHEDRAL MIN

THELA

double/triple glazed units Ug = 0,6 W/m²K, Ug = 0,8 W/m²K, Ug = 1,0 W/m²K



KURA TRANSPARENT



SILVIT WHITE



CHINCHILA TRANSPARENT

SCREEN

ATLANTIC





KATHEDRAL





NIAGARA

MASTER-CARRE





WARETDROP

photos: Saint-Gobain Building Glass Poland

HINGE CAPS

WINDOWS OPENING TO THE OUTSIDE

STANDARD



WHITE R07.2 for windows in white RAL 9016



BRONNY R04.4 for bronze windows NCS s8010-Y90R



SILVER R01.1 for grey windows RAL 7047



ANTHRACITE R02.2 for grey windows RAL 7016

OPTIONAL



TYTAN R01.3



BRASS MATT R03.1



MEDIUM BRONZE R05.3



BLACK MATT R06.2M

WINDOW HANDLES

HANDLES FOR INWARD OPENING WINDOWS

anthracite for

handle and colours standard

handle and

colours

optional

NEPTUN handle

NEPTUN

handle with a

NEPTUN

handle with key

Optional Roto handles Available in colours:

SILVER R01.1 TITAN R01.3 BRASS MAT. R03.1 **BROWN R04.4** MEDIUM BROWN R05.3 WHITE R07.2

button



white for white windows RAL

9016













PA/MO

patina on

brass

PA/MO

brass

matt











brown for brown windows NCS s8010-Y90R

PA/MI

patina on

copper

МО

brass

glossy

ROTO LINE

button

basic handle handle with a

windows RAL 7047

NI/SZ

brushed

nickel

CH/SA

chrome

matt

handle

with key

light grey for grey grey windows RAL 7016



satin nickel



chrome decorative



Handle with longitudinal stile, Closed window - handle in horizontal position

Window handles with door lock

ROTO SWING



handle with key

WINDOW HANDLES

ROTO LINE HANDLE FOR PATIO INOVA AND PATIO ALVERSA SYSTEMS



optionally available with key or cylinder rosette



handle with a key

Handle for lever-operated espagnolette (handle and insert on one or both sides) insert above the handle

HS WINDOW HANDLE









Angled handle for Top-Swing and Top-Hung windows



fasteners to Side-Hung windows



Venus handle for Side Hung and balcony windows



colour chrome matt



Handle with rosette for espagnolette with insert



ADDITIONAL EQUIPMENT

SYSTEM		TYPE C			TYPE C PLUS		TYPE C ALU- EFFECT		-	TYPE C PLUS ALU- EFFECT			EC 90		EC 90 ALU- EFFECT			EC 90 SR 46		2+1 DUO		SCANDINAVIAN SYSTEM				v	C	JUAI	L NORD		
accessories	opening configuration	tilt and turn	side-hung	tilt and to co	unt and turn side-hung	tilt	tilt and turn	side-hung	tilt	tilt and turn	side-hung tilt	tilt and turn	side-hung	tilt	tilt and turn	side-hung	tilt and turn	uit and turn side-hung	tilt	tilt and turn	side-hung	top swing	top hung	side-hung & modules	side-hung II hinges	side-hung balcony	top swing	top hung	side-hung I modules	side-hung II hinges	side-hung balcony
	changing the type of locking rollers (p. 43)	•	•		• •	•	•	•	•	•	• •	•	•	•	•	•	•	•	•	•	•			•	•	•			•	•	•
	Fittings with increased burglary resistance (p. 44)	•	•		•	•	•	•	•	•	• •	•	•	•	•	•		•	•	•	•			•	•	•			•	•	•
	locking fasteners (p. 44)																							•	•				•	•	
	reed switches (p. 43)	•	•		• •	•	•	•	•	•	• •	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•
	standard microventilation (p. 43)	•	_				•			•		•			•					•					_				_		_
	brake in the handle (p. 43)	•	•	_	•		•	•			•	•	•	_	•	•	•	_		•	•				•	•			_	•	•
	tilt-first (p. 43)	•					•			•		•		_	•		•			•									_		
fittings	concealed hinges (p. 43)	•	•		• •	•	•	•	•	-	• •	•		•	•	•			•	•	•				_				_		_
	handle misplacement blockade standard (p. 44)	•				•	•		•	•	•	•		•	•				•	•					-				\rightarrow	_	_
	scissors for cleaning (p. 44) balcony latch (p. 44)	•					•	•	•	•	•		•		•	•		•		•	•				-	•			-		•
	central espagnolette in the passive sash (p. 45)	•	•	┥┝			-	•			•	╢╹	•		-	•		•		-	•				-	•			-		•
	insert espagnolette (p. 44)	•	•	┥┝			•	•		_	•		-		•	•		-		•					-	•			-		•
		•	-	- -			ŀ	•		-	-	╟╴	-			-				-				_	_	•			-		•
	hook-and-loop riggers (p. 45) door locks (p. 45)		•		•			•		_	•		•		-	•	-1-	•		<u> </u>	•					•			-		-
. 11.			_							-	-			-										_		-		=	+	-	듹
tilt openers	manual tilting mechanism (p. 45) electric tilt mechanism (p. 45)				_	•			•	_	•			•					•	_					_				-		_
openers				╡┢	_				-					-										_				_	4	_	4
	low threshold (p. 45)	•	•		•		•	•		•	•	•	•	_	•	•		•		•					_	•			_		•
	blinds (p. 43)		_											_						•									_	<u> </u>	\exists
air inlets	humidity sensitive air inlet Aereco EMM (p. 42)	•	•		•		•	•	•		• •	•		•	•	•									_						
	air inlet Aereco AMO (p. 42)	•	•		•	•	•	•	•	•	• •	•	•	٠	•	•									_				_		_
	air inlet Trykvent 283 (p. 42)													_					•	•	•	•	•	•	•	•	•	•	•	•	•
	structural bars (p. 47)	•	•		• •	•	•	•	•	•	• •	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Vienna bars (p. 47)	•	•		• •	•	•	•	•	•	• •	•		•	•	•						•	•	•	•	•	•	•	•	•	•
muntins	on clasps bars (p. 47)	•	•		• •	•	•	•	•	-	• •	•		•	•	•		•	•			•	•	•	•	•	•	•	•	•	•
	inter-pane bars (p. 47)	•	•				•	•	•	•	• •	•	•		•	•				•	•	•	•	•	•	•	•	•	•	•	•
	hinged muntin bar (p. 47)	•	•		•							•	•	•			•		•			•	•	•	•	•					

AIR INLETS

AIR INLETS FOR INWARD OPENING WINDOWS

AERECO EMM HIGROSTER - humidity sensitive air inlet controlled AERECO AMO PRESSURE AIR INLET - Self-regulating pressure air trykvent 283 air inlet - a recessed air inlet opened manually by automatically, with a lock function in the minimum flow position. inlet with the possibility of setting the shutter in the minimum flow pressing buttons located at both ends of the diffuser. The air inlet When set in the open position, the damper changes its position position. has a seal between the damper and casing which guarantees depending on the content of water vapour (relative humidity) inside the When the louver is set in the open position, the amount of tightness in the closed position. room. The air flow rate is between 6 and 30 m³/h. The lever in the closed supplied air depends on the pressure difference inside and position, blocks the damper, the unit is set in the minimum flow rate outside the room, up to 27 m³/h at 10 Pa negative pressure. When The ventilator is mounted in the frame of opening windows and fix position, the device delivers up to $6 \text{ m}^3/h$. the shutter is in the closed position, the ventilator delivers the windows. For fixed windows only the internal part, for fixed windows Flow rate [m3/h] 6-30 minimum amount of air, 6 m³/h at a negative pressure of 10 Pa. also the external air intake. . Acoustics [dB(A)] 38 (0.1) - air inlet open Flow rate [m3/h] 6-27 Acoustic performance [dB(A)] 40 (0.0) - air inlet closed Acoustic performance [dB(A)] 32 (-1;1) - air inlet open Acoustic parameters [dB(A)] 33 (0;0) - air inlet closed Installed in the window frame or sash TRYKVENT air inlet 283 internal part Installed in the window frame or sash A REAL PROPERTY AND A REAL PROPERTY AND WHITE RAL 9003 (STANDARD) WHITE RAL 9003 (STANDARD) CASE TREE RAL 8017 (STANDARD) CASE TREE RAL 8017 (STANDARD) WITHIN THE WITHIN WITHI GREY RAL 7045 (optionally) OAK RAL 8001 (optionally) OAK RAL 8001 (optionally) external air intake (only FIX windows) ANTHRACITE 7016 (optionally) ANTHRACITE 7016 (optionally) obtained air permeability classes for windows with AERECO EMM air inlets (ventilator in closed position) TYPE C PLUS **ENERGY CONCEPT 90** single frame window double frame window single frame window double frame window

air inlet in

the frame

Class 4

DRIP CAPS

TRYKVENT 283 mounted on an openable window Available in the colours whitem or brown

Class 4 POSSIBILITY TO USE OTHER AIR INLETS AFTER CONSULTATION WITH SALES DEPARTMENT

air inlet in

the frame

air inlet in

the sash

Class 3

air inlet in

the sash

Class 4



air inlet in

the frame

Class 3

air inlet in

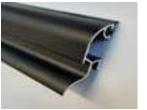
the sash

Class 3

ANTHRACITE RAL 7016 MATT for windows in grev RAL 7016



White RAL 9016 SATIN for windows in white RAL9016



air inlet in

the frame

Class 3

air inlet in

the sash

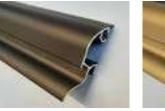
Class 4

Dark Brown RAL 8019 MATT for windows in brown colour NCS s8010-Y90R



SREBRNY RO MAT for windows in the colour grev RAL 7047





OLIVE R33 MAT



GOLD

AIR INLETS FOR OUTWARD OPENING WINDOWS



42

LOCKING ROLLERS OF THE CIRCUMFERENTIAL FIT-TING

The Roto hardware system offers three different types of locking rollers for a variety of applications and thanks to the flat guiding of the rollers, ensures easy running and wear resistance. All locking rollers are adjustable:

- locking roller E: eccentric locking roller with clamping force adjustment +/- 0.8 mm

- locking roller P: eccentric locking roller with pressure adjustment +/- 0.8 mm

- locking roller V: eccentric locking roller with clamping force adjustment +/- 0.8 mm and vertical adjustment +/- 0.8 mm



locking rollers E

TILT FIRST

In the children's room, as well as in other rooms on upper floors where children have access, it is worth using the Tilt-First security device with a special key handle. Thanks to Tilt-First technology, anyone can tilt the window to ventilate the room, but it cannot be opened without a key.

1 In the tilted position (handle in the 90° position), there is a blocking mechanism.

2 Further turning the handle to 180° and opening the window is only possible after unlocking the locking cylinder with the key. In the closed position (0° - vertically downwards), the handle can additionally be locked, which provides additional burglary protection.

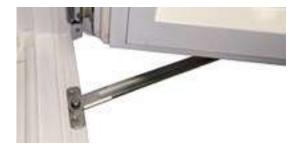
REED SWITCHES

Roto MVS magnetic window opening and closing control system is a solution for monitoring the state of the window: the system controls whether the sash is open or closed. When the magnetic field in the MVS sensor is interrupted, e.g. by breaking the window, the system sends an impulse to the alarm centre through hidden wiring. Additionally, the sensors may cooperate with air-conditioning systems, switching it off when a window is unsealed or opened.



BRAKE IN THE HANDLE

The brake in the handle allows for convenient blocking of open balcony doors or windows within the scope of sash opening from 15° to 90° by turning the handle down. The sash blocked in such a way stands firmly against even the strongest gusts of wind enabling safe communication or ventilating the rooms.





The task of microventilation is to help remove excess moisture from the building and provide fresh air in the room. By setting the window handle in the right position, a ventilation gap of several millimetres is created between the framework and the window frame

This ensures a constant exchange of air at any time of the year - both in summer and winter. Microventilation in Pol-Skone windows is integrated with a stay. Such a solution improves the aesthetics of the window and increases the comfort of use by providing an additional ventilation function already as standard.



CONCEALED HINGES

Concealed hinges available in Pol-Skone offer allow raising the aesthetics of our windows to an even higher level. Windows equipped with such hinges are characterized by remarkable elegance and make it easy to keep them impeccably clean.



with concealed hinges

with surface-mounted hinges

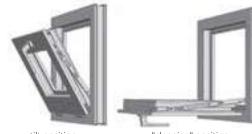


FITTINGS WITH INCREASED RESISTANCE TO BURGLARY

Fittings with increased resistance to burglary in standard are equipped with locking rollers V, steel anti-theft strikers, handle with a key and anti-drilling plate that protects the cassette of the espagnolette against drilling. Such fittings have a greater density of locking points, which translates into a real improvement in security. In the case of windows with fittings with increased resistance to burglary, it is worth additionally equipping the window with a contractron and glazing unit in the P4A class (panes glued together with four PVB foils).

SCISSORS FOR CLEANING

With the "cleaning" scissors for tilt windows, the tilt width can be increased by up to 90° depending on the size of the sash. This allows full access to the window and is very useful when it is necessary to clean or ventilate the room. This solution proves useful in places where access to the tilt window from the outside is difficult.



tilt position

"cleaning" position

LOCKING MECHANISM FOR INCORRECTLY POSITIONED HANDLES

The handle misalignment mechanism prevents the window handle being turned when the sash is not in the frame. This solution prevents unintentional putting the sash into turn and tilt position at the same time.



An element which allows the balcony sash to be slammed shut

without the need to lock the sash with a handle, e.g. in the case of a short visit to the balcony. The sash is opened by pushing the sash out of the grip of the latch. Matching shape of the elements on the sash and the frame allows for better infeed and holding power, and thanks to the vertical adjustment up to 7 mm it is possible to optimally set the frame and sash in relation to each other. Long-term reliable operation is guaranteed by the stable spring STRUCTURE.

BALCONY LATCH



ESPAGNOLETTE WITH INSERT

In balcony windows, it is possible to use an espagnolette for an insert. This solution reduces the risk of the sash being opened by unauthorised persons. This OPTIONAL solution is available for balcony doors with handle from the inside and obligatory for balcony doors with external handle. The handle can be fitted from the inside or on both sides.



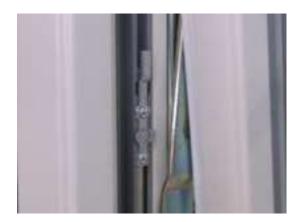
LOCKING FASTERENS

Outward opening side-hung windows on hinges or on modules can be equipped with locking fasteners. A window with fasteners does not have an espagnolette or a handle, and the sash is pressed and closed using special hooks.



HOTEL SECURITY

Top-swing windows opening outwards, from the height of 550mm are, as a standard, equipped with a hotel safety device - the opening limiter, which protects against unintentional opening of the window to its full extent, it is only possible to obtain a small gap enabling airing of the room. To obtain full opening of the sash you need to press the lock and push the sash outwards, the sash in the maximum opening position is also protected against uncontrolled movement caused e.g. by a gust of wind.



CENTRAL ESPAGNOLETTE IN THE PASSIVE SASH

In the passive leaf, it is possible to use a lever-operated espagnolette instead of scantlings (as standard for leaf widths above 1040 mm or leaf heights above 2200 mm).



LOW THRESHOLD

Barrier-free solutions that increase the freedom of movement around rooms improve the living comfort of all users. The low thresholds for balcony doors and windows available in the Pol-Skone offer meet these requirements. The thresholds are made of high-impact PVC profile and aluminium. The threshold height of 20 mm additionally meets the requirements of barrierfree construction according to DIN 18040 (DIN 18025). The additional use of a drip cap with brush seal effectively protects against driving rain.



Watertightness classes obtained for balcony windows with low threshold

Energy Concept 90 balcony 1-sash	Energy Concept 90 balcony 2-sash	EC 90 Alu-Effect balcony 1-sash	EC 90 Alu- Effect balcony 2-sash
E750 (750 Pa)	6A (250 Pa)	E750 (750 Pa)	8A (450 Pa)

HOOK-AND-LOOP RIGGERS

For maximum security and anti-burglary resistance, hook bolts can be used. Their structure is based on the solutions of locks for front doors, special hook bolts are made of hardened steel, fully anchored in stable steel hooks on the frame, so that balcony windows equipped with them can provide a similar level of security as front doors. This solution is dedicated to outward opening balcony window systems.



DOOR LOCKS

Installing a door lock in balcony windows additionally increases their safety and enables more intuitive operation - the handle, just like in conventional doors, is always set in a horizontal position, enabling easy opening. Locking is ensured by turning the key: it is enough to turn it in order to secure the lock against reversing.



TILT MECHANISMS

If you have high located tilt windows, the ideal hardware in this situation are the floor opening mechanisms. This solution allows you to control the window beyond your hands' reach.

HAND MECHANISM

The manual mechanism makes it possible to tilt and close windows out of reach thanks to a hand lever mounted on the window frame or on the wall.

The ergonomic shape of the lever ensures comfortable operation, which is light even with a large opening width. Lever, fabric and covers of moving elements are available in colours: white, brown, black or silver.



ELECTRIC MECHANISM

Drive unit for daily ventilation (mains voltage 230 V), adjustable opening width of 200 mm or 400 mm depending on the electrical connection. In addition, it is easy to operate by remote control or a button. Surface mounted.



THE BLINDS

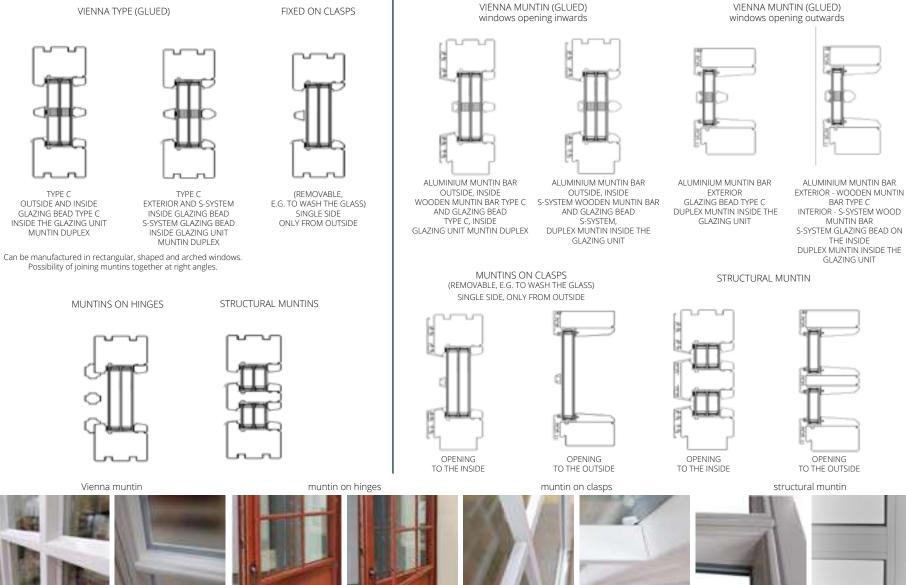
The 2+1 DUO window system may be additionally equipped with aluminium lamellas mounted in the space between the wooden and aluminium sashes. The controls for the blinds are located on the inside of the wooden sash, allowing easy and convenient control of the shutter mechanism. In order to prevent children from getting entangled in the control elements, all windows with blinds are equipped with the CHILD SAFETY selftensioning mechanism and a cord catch. The blinds are available with the following lamella colours.





WINDOW MUNTINS

ALUMINIUM MUNTINS FOR WOOD - ALU WINDOWS



muntin TYPE C

muntin S-SYSTEM

MUNTINS FOR WOODEN WINDOWS

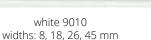
muntin TYPE C

wooden profile alum with glazing bead

aluminium cladding profile

MUNTINS BETWEEN GLASS PANES







brown 8014 widths: 18, 26 mm



brown 8017, white 9010/brown 8017 widths: 18, 26 mm



dark brown 8022, white 9010/dark brown 8022 widths: 18, 26 mm



dark oak, white 9010/dark brown widths: 18, 26 mm



bog oak, white 9010/bog oak widths: 18, 26 mm



douglasie w., white 9010/douglasie w. widths: 18, 26 mm



gold widths: 8, 18, 26 mm



light oak, white 9010/light oak widths: 18, 26 mm

Muntin bars between panes - placed inside glazing unit between the panes (in double glazing units only in the external chamber). They are available in RAL colours and wood-like veneers. They may be bent into arcs or circles and joined at different angles. Muntin bars mesh made according to individual customer design (after consultation with the sales department).



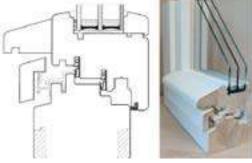
mahogany, white 9010/mahogany widths: 18, 26 mm

walnut, white 9010/walnut widths: 18, 26 mm

WOODEN DRIP CAPS

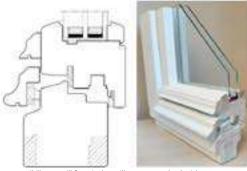
In inward opening wooden window systems it is possible to use optional wooden drip caps elements. This solution is particularly recommended for historic buildings, where the key role is played by reproducing the classic appearance of the window joinery while maintaining high window parameters. The eaves elements are made of the same material as the windows and painted in the same colour so they form a coherent structure.

version 2 of the drip caps available in the Energy Concept 90 system water tightness - 8A (450 Pa)



possibility to mill for window sills on one or both sides

version 1 of the drip caps available in Type C and Type C PLUS system



possibility to mill for window sills on one or both sides

version with 3 drip caps available in the Energy Concept 90 system water tightness - 5A (200 Pa)



possibility to mill for window sills on one or both sides

It is possible to adapt the drip caps according to the customer's or the conservator's drawings (after consultation with the sales department).

Version 4 of the drip caps available in the Energy Concept 90 system water tightness - 5A (200 Pa)



possibility to mill for window sills on one or both sides

STYLISH DECORATIVE ORNAMENTS AND MULLION MOULDINGS FOR WOODEN WINDOWS

Styling set recommended for the window systems: Typ C, Typ C Plus i Energy Conept 90.







It is possible to reproduce the mouldings on the basis of already existing window elements or to adapt them according to the customer's or conservator's drawings (after consultation with the sales department)

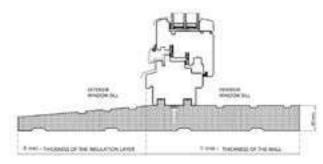
THERMO-INSULATING WINDOW PROFILES AND SILL PLATE

WINDOW FOUNDATIONS AND THERMALLY INSULATED WINDOW SILLS

Thermally insulated under-sill profiles are available for windows dedicated to energy-efficient construction (EENERGY CONCEPT 90 and ENERGY CONCEPT 90 ALU-EFFECT). For balcony windows in these systems and in HS systems (HS EC 90, HS DUAL, HS PANORAMA DUAL), there are CLINARIT under-sill profiles available. Thermo-insulating under-window profiles and sill plates are an indispensable part of the whole, which is the widely understood so-called warm assembly of window joinery.

XPS UNDER-SILL PROFILES - "WARM WINDOW SILLS"

The use of XPS under-sill profiles prevents the formation of a thermal bridge between the window and the window sill, which significantly improves the thermal and energy properties of the entire building. "Warm window sills" improve the tightness and insulation of the window installation thanks to proper profiling and the use of an expanding tape. In addition, they provide a base for the external and internal window sills. Window sill profiles are made to individual order. The height visible from the inside of the "warm window sill" is 40 mm, width depends on the thickness of the wall and insulation layer.





THERMO-INSULATING CLINARITE WINDOW SILL SUPPORTS

the window profile.

The window sill supports are made of a specially hardened material- CLINARIT, which is characterised by high compressive strength and low heat transfer coefficient. This makes it possible to use them even under very large HS windows in order to eliminate thermal bridges. Clinker foundations ensure uniform linear support of the window across its entire width. The special profile of the sill facilitates installation at the window threshold. The use of an expanding tape prevents the maximum sealing of the connection with the window and prevents blowing under the window sill. At the bottom, the sill plates are equipped with a robust striker strip to allow easy installation of mounting anchors. Thermal-insulated sill plates are made to individual order. The height of the sill depends on the thickness of the floor insulation layer and the level of the inside floor, width depends on

 image: selective substructure
 image: selective substructure

IT IS POSSIBLE TO USE UNDER-SURFACE PROFILES IN OTHER WINDOW SYSTEMS AFTER CONFIRMATION WITH OUR SALES DEPARTMENT.

INSPIRATIONS



INSPIRATIONS













INSPIRATIONS



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