

ALU DOORS



WIŚNIEWSKI

GATES | WINDOWS | DOORS | FENCES

ALUMINIUM DOORS FUTURO 79

The FUTURO 79 aluminium doors form a modern external door system with high thermal and acoustic insulation. The structure is based on profiles with a thermal break and EPDM gaskets, providing effective protection against heat loss and meeting current thermal requirements.

The FUTURO 79 system enables the production of single- and double-leaf doors with an elegant appearance and durable structure, offering a wide selection of colours and accessories.

THERMAL INSULATION

U_d heat transfer coefficient
from 0.9 W/m²K

DESIGN

Modern design and a wide range of colours make it possible to match the doors to various architectural styles.

THINK ABOUT THE FUTURE – PRODUCTS FOR THERMAL EFFICIENCY IMPROVEMENT

An investment in an energy-efficient door from WIŚNIEWSKI does not only save you money, but also helps you protect the natural environment.



FUTURO 79

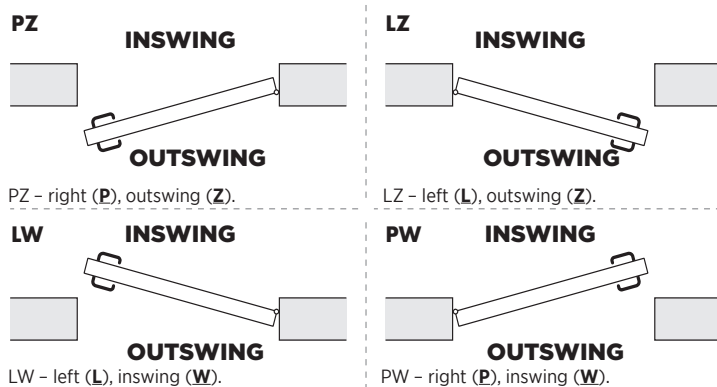
DOOR CHARACTERISTICS

- A three-chamber window and door system with improved thermal insulation
- Leaf and opening frame depth: 70 [mm]
- A broad selection of sections, enabling the design of modern, highly functional windows, doors, and fixed windows
- Innovative insulation materials and double sealing guarantee perfect tightness
- A versatile solution for public utility buildings and residential construction
- Thermal insulation of a reference door sized 1,230 [mm] x 2,180 [mm] $U_d = 1.1 \text{ W/m}^2\text{K}$ when a triple-glazed unit with $U_g = 0.5 \text{ W/m}^2\text{K}$ with a warm spacing frame is used
- Available colours: RAL structure, RAL mat, and film coatings

STANDARD ACCESSORIES

- 3-point hook drive gear
- 3 surface hinges with increased load capacity
- Low aluminium threshold with a thermal break (height: 14.5 mm)
- Standard lock cylinder, supplied with 3 keys
- Handle on a long cover plate, inox colour

DOOR OPENING DIRECTION



The minimum required clear passage of entrance doors in residential and public utility buildings, in accordance with the applicable building regulations, is min. 900 x 2,000 [mm].

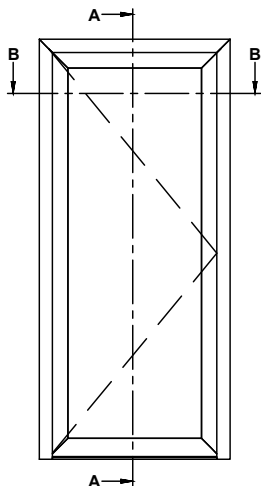


CROSS-SECTIONS AND VIEWS

FUTURO 79

- single-leaf outswing door

As seen from the inside



Descriptive dimensions:

Leaf S = leaf width

Active leaf S = active leaf width

S1, S2 - door width division (in acc. with the drawing)

So - wall opening width

S - door ordering width

Sj - clear passage width

Sj1 - clear passage width with the active leaf open

Sj2 - clear passage width with both leaves open

Ho - wall opening height

H - door ordering height

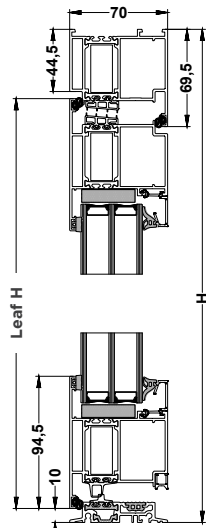
Leaf H - leaf height

Hj - clear passage height

Cross-sections

Vertical cross-section

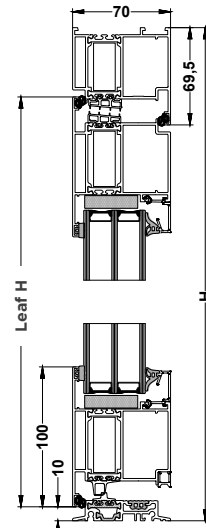
Standard frame + narrow leaf



K520131 frame, K520142 leaf

Vertical cross-section

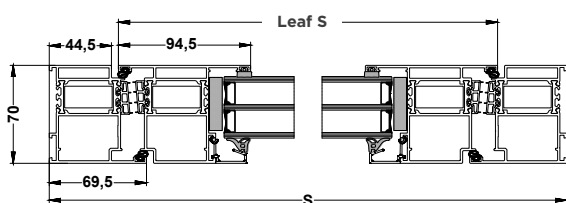
Standard frame + standard leaf



K520131 frame, K520146 leaf

Horizontal cross-section

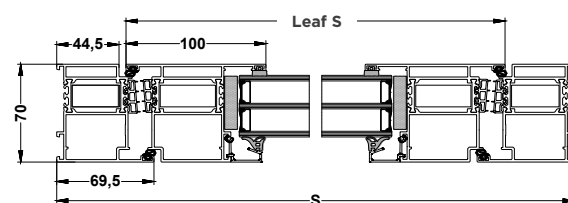
Standard frame + narrow leaf



K520131 frame, K520142 leaf

Horizontal cross-section

Standard frame + standard leaf

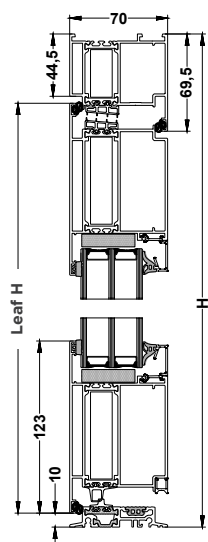


K520131 frame, K520146 leaf



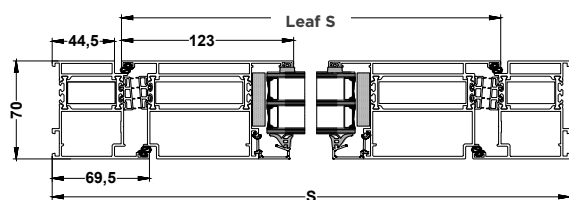
Cross-sections

Vertical cross-section
Standard frame + wide leaf



K520131 frame, K520150 leaf

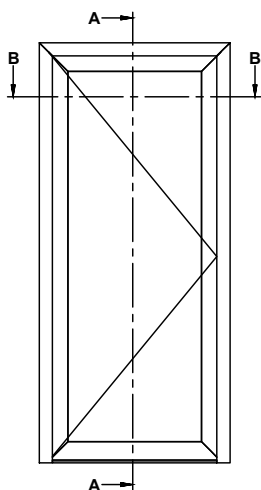
Horizontal cross-section
Standard frame + wide leaf



K520131 frame, K520150 leaf

**FUTURO 79****– single-leaf inswing door**

As seen from the inside

**Descriptive dimensions:**

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S – door ordering width

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Sj2 – clear passage width with both leaves open

Ho – wall opening height

H – door ordering height

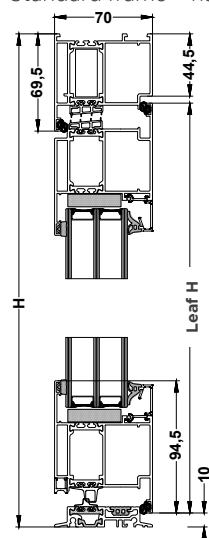
Leaf H – leaf height

Hj – clear passage height

Cross-sections

Vertical cross-section

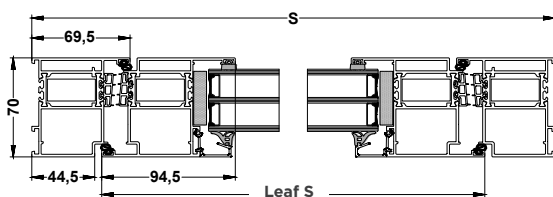
Standard frame + narrow leaf



K520130 frame, K520140 leaf

Horizontal cross-section

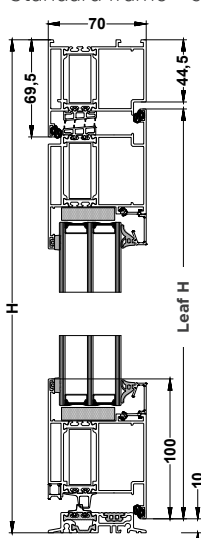
Standard frame + narrow leaf



K520130 frame, K520140 leaf

Vertical cross-section

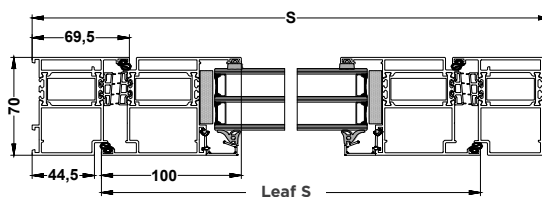
Standard frame + standard leaf



K520130 frame, K520144 leaf

Horizontal cross-section

Standard frame + standard leaf

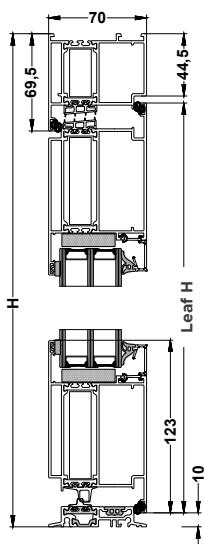


K520130 frame, K520144 leaf



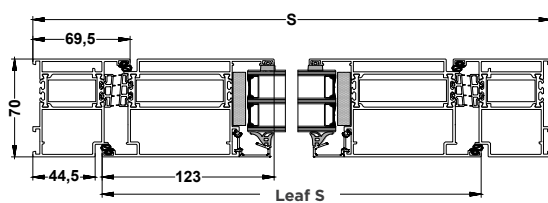
Cross-sections

Vertical cross-section
Standard frame + wide leaf



K520130 frame, K520148 leaf

Horizontal cross-section
Standard frame + wide leaf



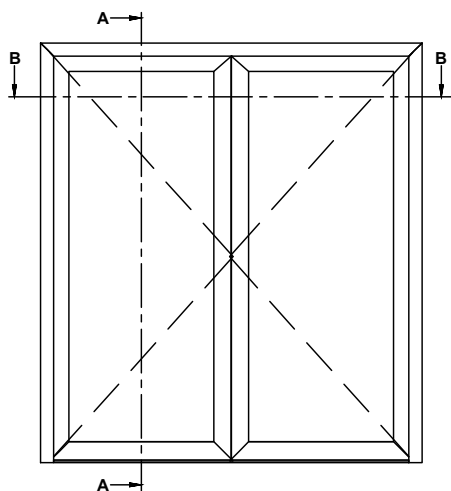
K520130 frame, K520148 leaf



FUTURO 79

- double-leaf outswing door

As seen from the inside



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Sj2 - clear passage width with both leaves open

Ho - wall opening height

H - door ordering height

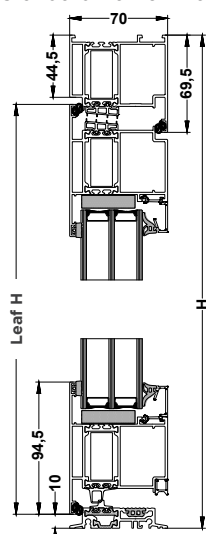
Leaf H - leaf height

Hj - clear passage height

Cross-sections

Vertical cross-section

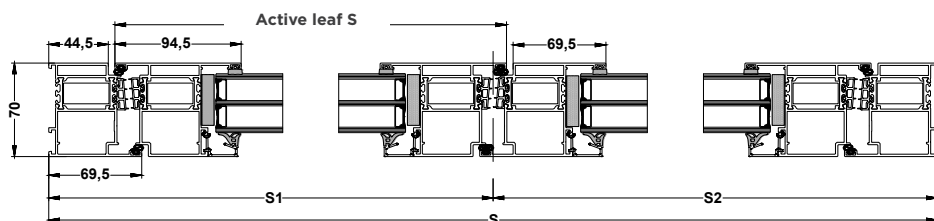
Standard frame + narrow leaf



K520131 frame, K520142 leaf

Horizontal cross-section

Standard frame + narrow leaf

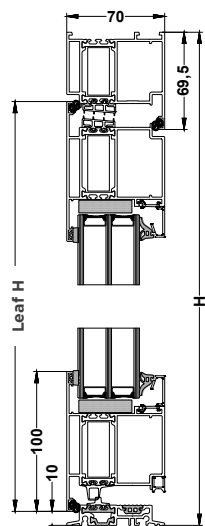


K520131 frame, K520142 leaf



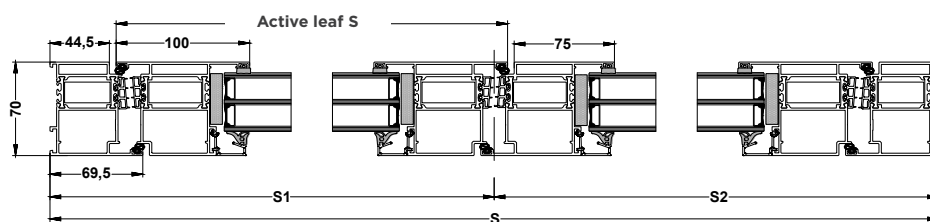
Cross-sections

Vertical cross-section
Standard frame + standard leaf



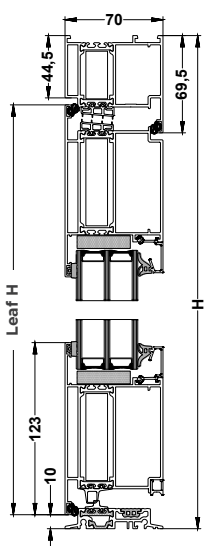
K520131 frame, K520146 leaf

Horizontal cross-section
Standard frame + standard leaf



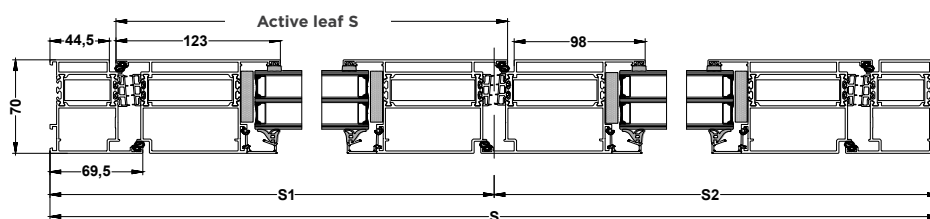
K520131 frame, K520146 leaf

Vertical cross-section
Standard frame + wide leaf



K520131 frame, K520150 leaf

Horizontal cross-section
Standard frame + wide leaf



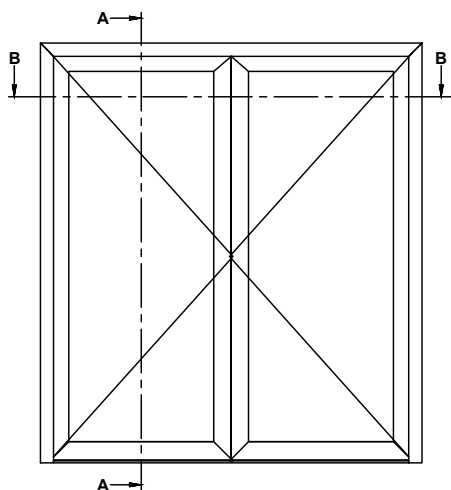
K520131 frame, K520150 leaf



FUTURO 79

- double-leaf inswing door

As seen from the inside



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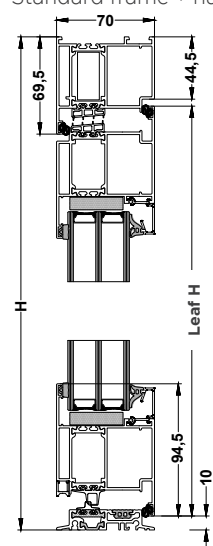
Leaf H - leaf height

Hj - clear passage height

Cross-sections

Vertical cross-section

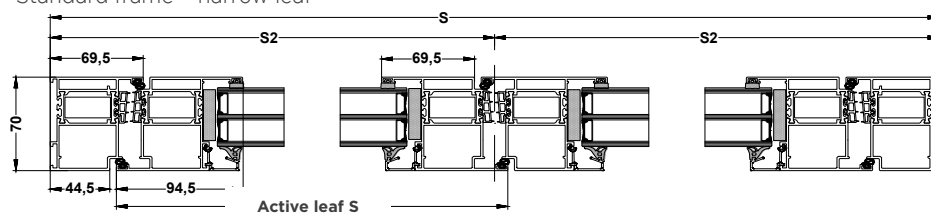
Standard frame + narrow leaf



K520130 frame, K520140 leaf

Horizontal cross-section

Standard frame + narrow leaf

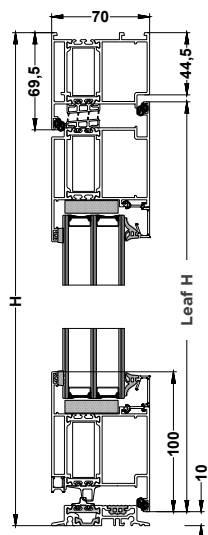


K520130 frame, K520140 leaf



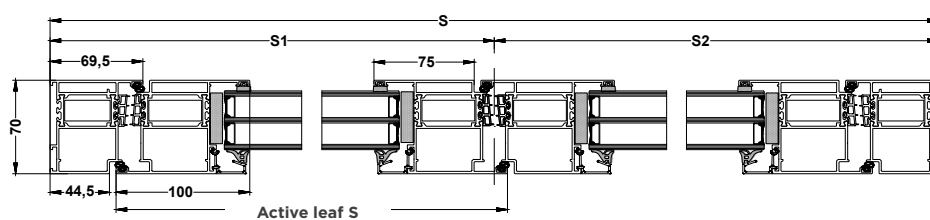
Cross-sections

Vertical cross-section
Standard frame + standard leaf



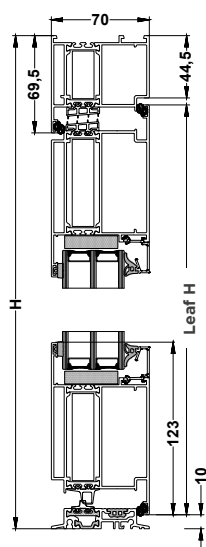
K520130 frame, K520144 leaf

Horizontal cross-section
Standard frame + standard leaf



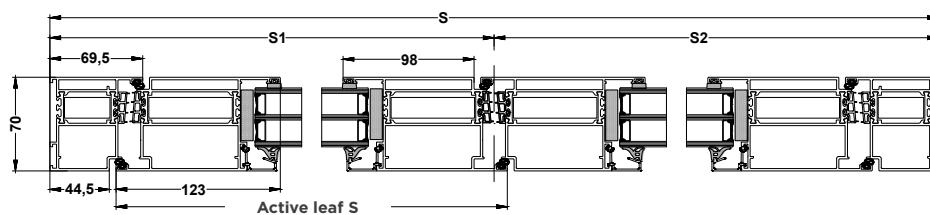
K520130 frame, K520144 leaf

Vertical cross-section
Standard frame + wide leaf



K520130 frame, K520148 leaf

Horizontal cross-section
Standard frame + wide leaf

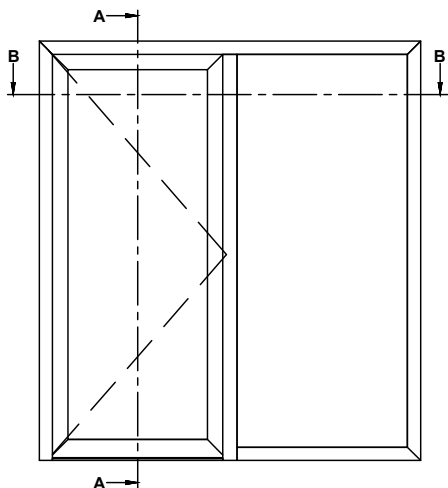


K520130 frame, K520148 leaf

FUTURO 79

- single-leaf outswing door with a sidelight

As seen from the inside



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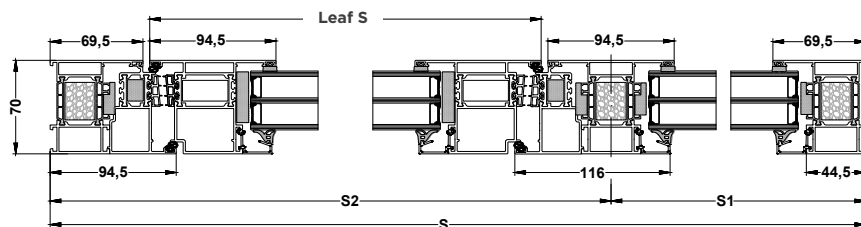
Leaf H - leaf height

Hj - clear passage height

Cross-sections

Horizontal cross-section

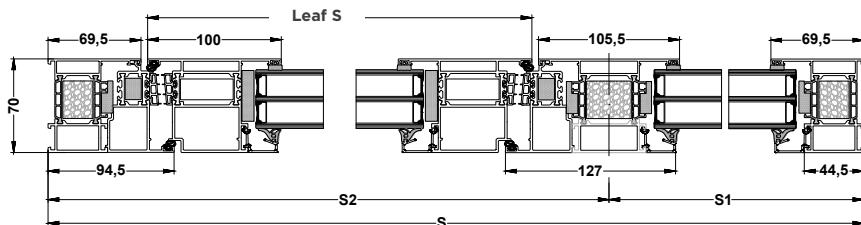
Standard frame + narrow leaf



K520012 frame, K520142 leaf, K520052 transom

Horizontal cross-section

Standard frame + standard leaf

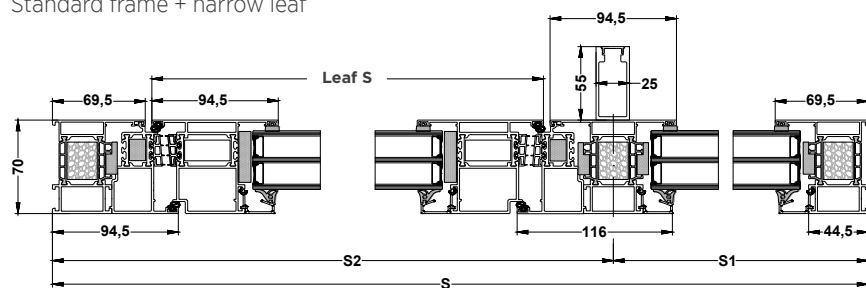


K520012 frame, K520146 leaf, K520053 transom



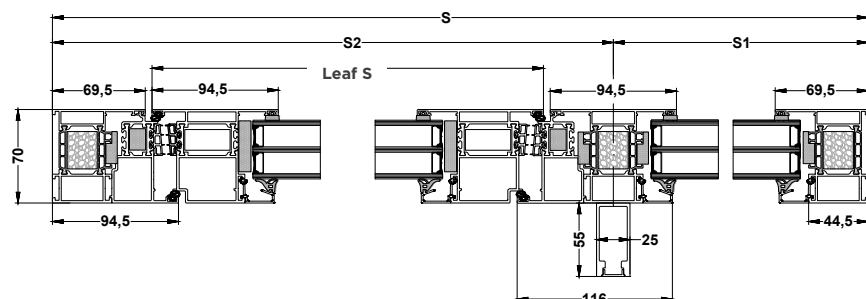
Cross-sections

Horizontal cross-section
Standard frame + narrow leaf



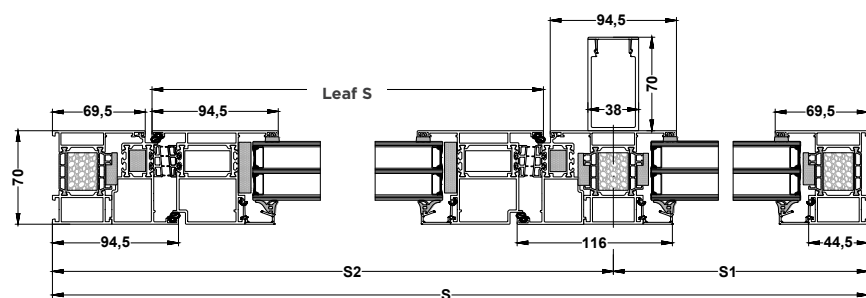
K520012 frame, K520142 leaf, K520052 transom + K433872 reinforcement on the outside

Horizontal cross-section
Standard frame + narrow leaf



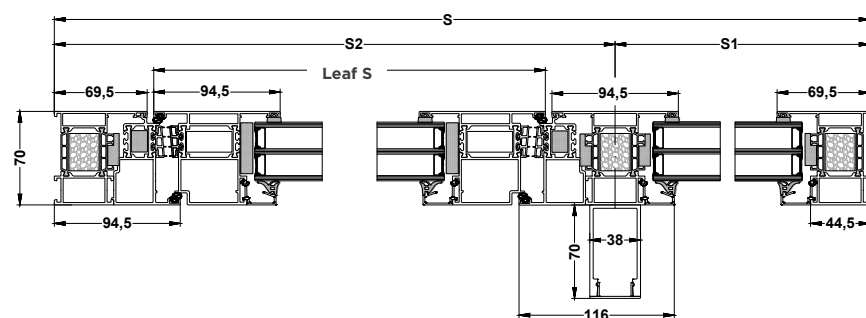
K520012 frame, K520142 leaf, K520052 transom + K433872 reinforcement on the inside

Horizontal cross-section
Standard frame + narrow leaf



K520012 frame, K520142 leaf, K520052 transom + K413923 reinforcement on the outside

Horizontal cross-section
Standard frame + narrow leaf

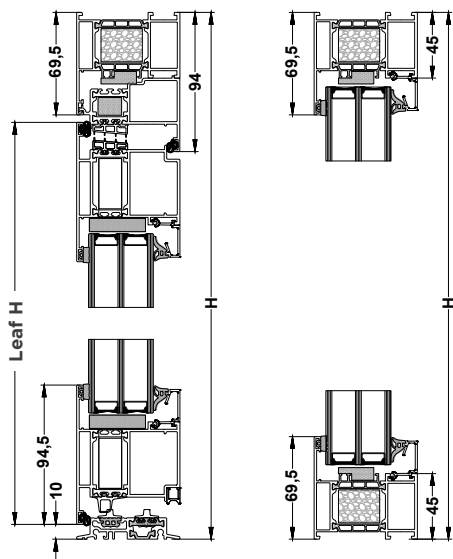


K520012 frame, K520142 leaf, K520052 transom + K413923 reinforcement on the inside



Cross-sections

Vertical cross-section
Standard frame + narrow leaf



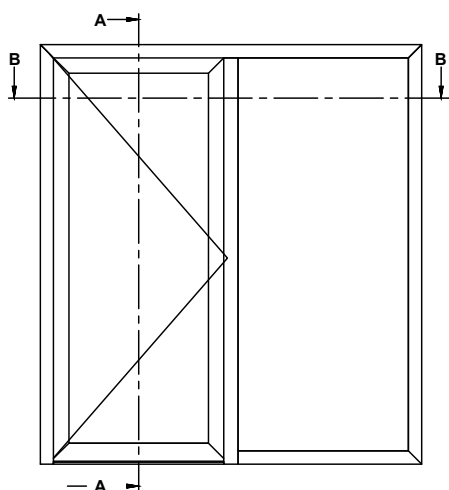
K520012 frame, K520142 leaf



FUTURO 79

- single-leaf inswing door with a sidelight

As seen from the inside

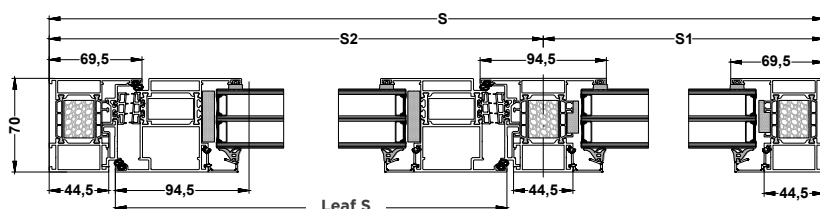


Descriptive dimensions:

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- H – door ordering height
- Leaf H – leaf height
- Hj – clear passage height

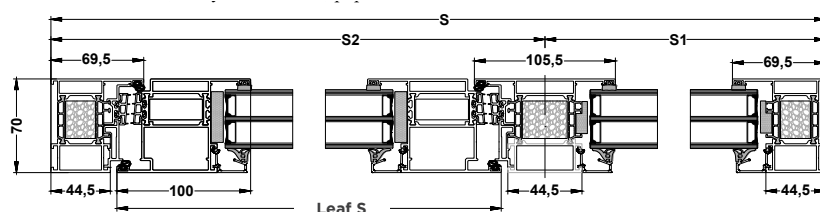
Cross-sections

Horizontal cross-section
Standard frame + narrow leaf



K520012 frame, K520140 leaf, K520052 transom

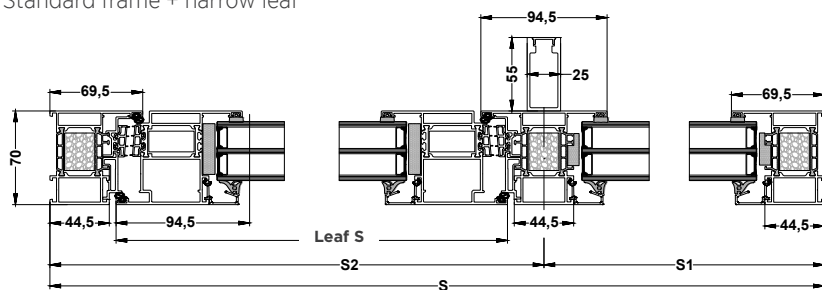
Horizontal cross-section
Standard frame + standard leaf



K520012 frame, K520144 leaf, K520053 transom

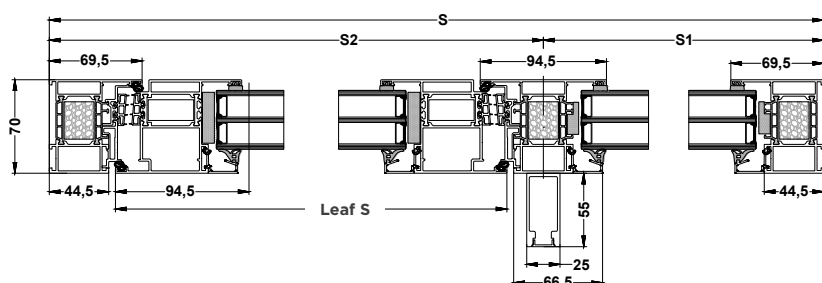
Cross-sections

Horizontal cross-section
Standard frame + narrow leaf



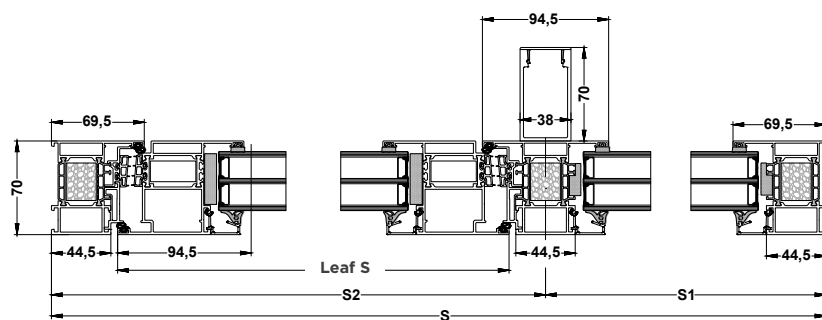
K520012 frame, K520140 leaf, K520052 transom + K433872 reinforcement on the outside

Horizontal cross-section
Standard frame + narrow leaf



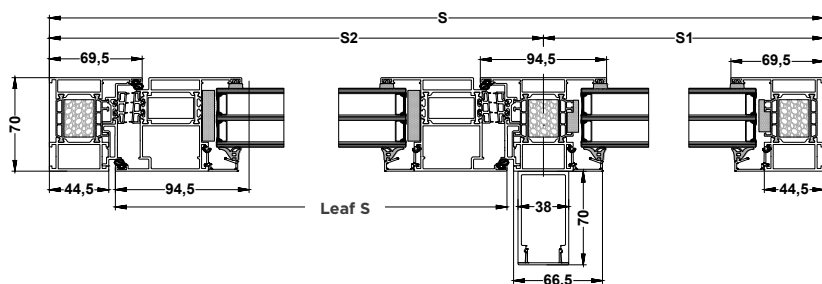
K520012 frame, K520140 leaf, K520052 transom + K433872 reinforcement on the inside

Horizontal cross-section
Standard frame + narrow leaf



K520012 frame, K520140 leaf, K520052 transom + K413923 reinforcement on the outside

Horizontal cross-section
Standard frame + narrow leaf

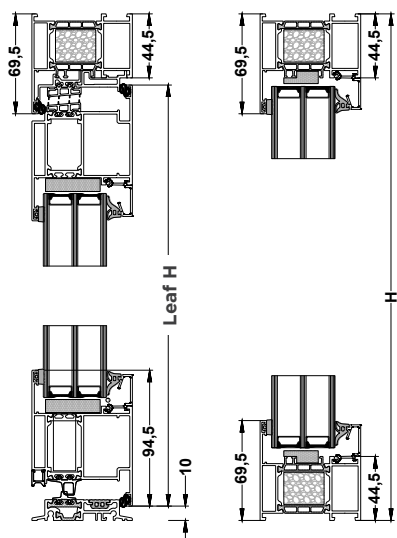


K520012 frame, K520140 leaf, K520052 transom + K413923 reinforcement on the inside



Cross-sections

Vertical cross-section
Standard frame + narrow leaf

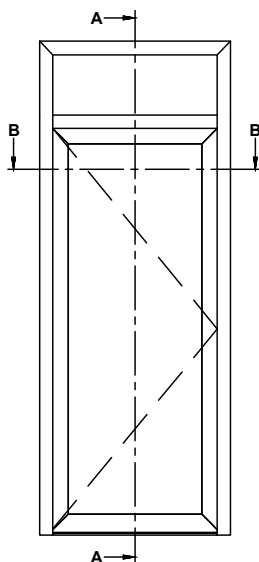


K520012 frame, K520140 leaf

FUTURO 79

- single-leaf outswing door with a toplight

As seen from the inside



Descriptive dimensions:

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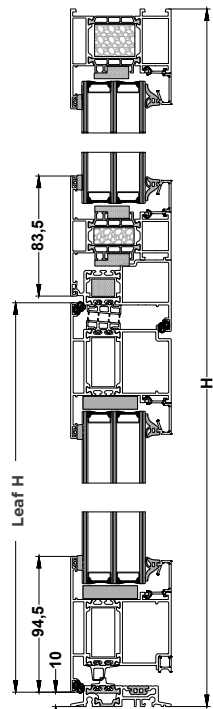
H - door ordering height

Leaf H - leaf height

Hj - clear passage height

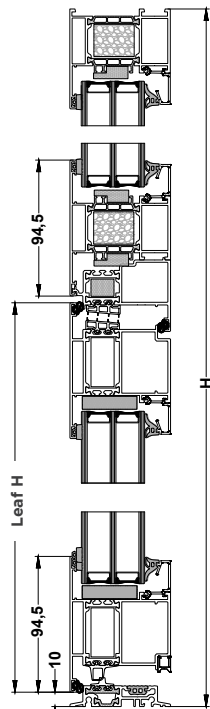
Cross-sections

Vertical cross-section
Standard frame + narrow leaf



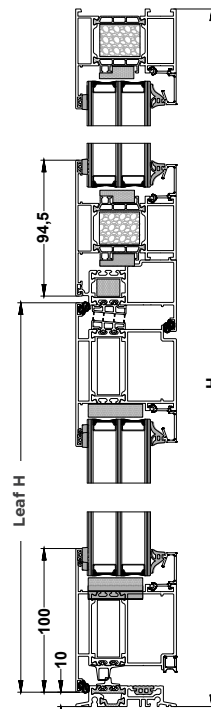
K520012 frame, K520142 leaf,
K520051 transom

Vertical cross-section
Standard frame + narrow leaf



K520012 frame, K520142 leaf,
K520052 transom

Vertical cross-section
Standard frame + standard leaf

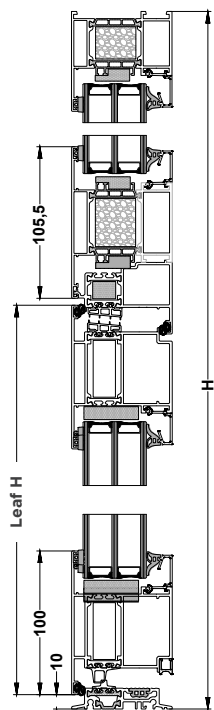


K520012 frame, K520146 leaf,
K520052 transom



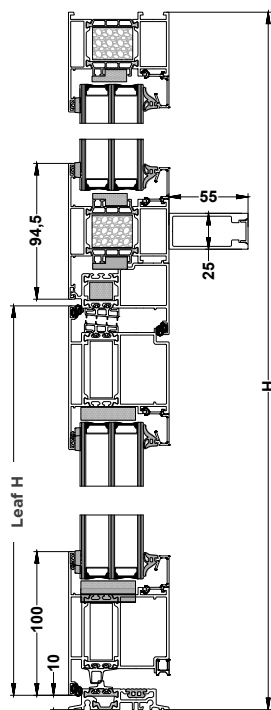
Cross-sections

Vertical cross-section
Standard frame + standard leaf



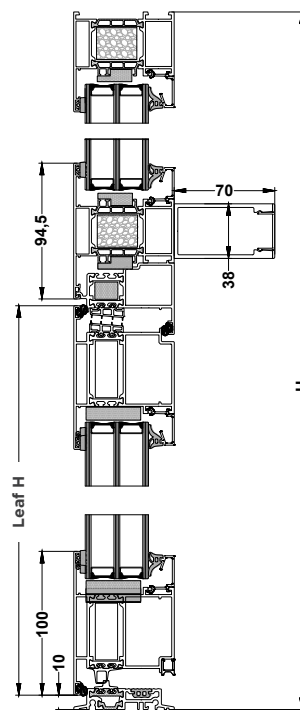
K520012 frame, K520146 leaf,
K520053 transom

Vertical cross-section
Standard frame + standard leaf



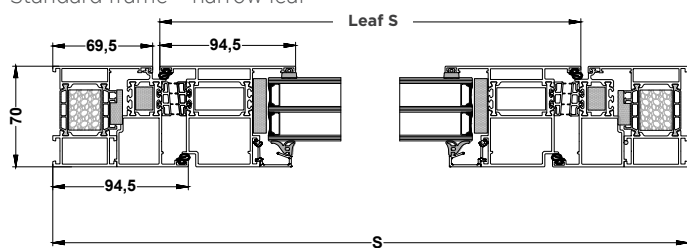
K520012 frame, K520146 leaf, K520052
transom + K433872 reinforcement on
the inside

Vertical cross-section
Standard frame + standard leaf



K520012 frame, K520146 leaf, K520052
transom + K413923 reinforcement on the
inside

Horizontal cross-section
Standard frame + narrow leaf



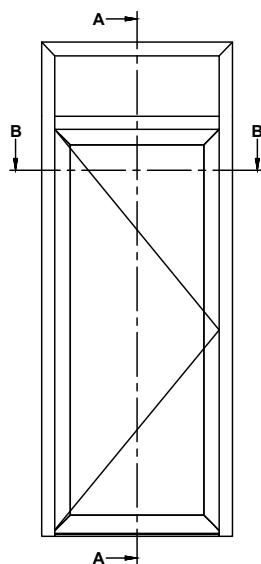
K520012 frame, K520142 leaf



FUTURO 79

- single-leaf inswing door with a toplight

As seen from the inside



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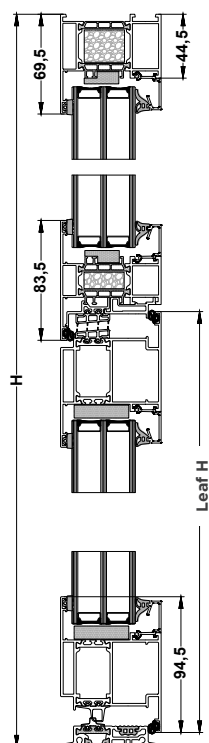
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Leaf H - leaf height

Hj - clear passage height

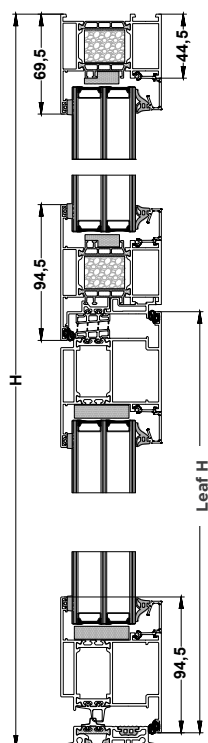
Cross-sections

Vertical cross-section
Standard frame + narrow leaf



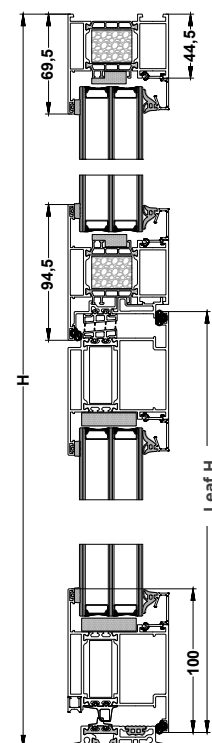
K520012 frame, K520140 leaf,
K520051 transom

Vertical cross-section
Standard frame + narrow leaf



K520012 frame, K520140 leaf,
K520052 transom

Vertical cross-section
Standard frame + standard leaf

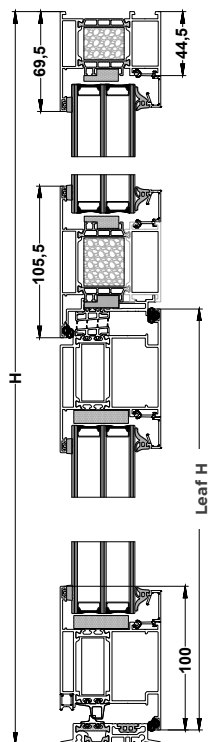


K520012 frame, K520144 leaf,
K520052 transom



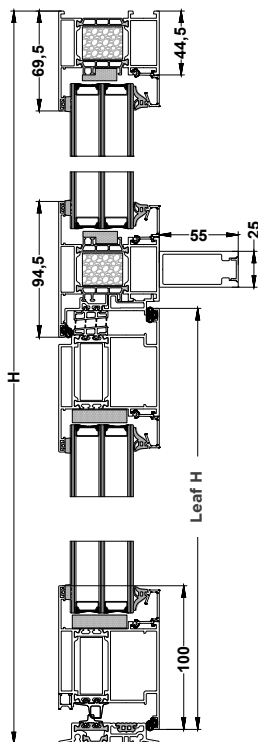
Cross-sections

Vertical cross-section
Standard frame + standard leaf



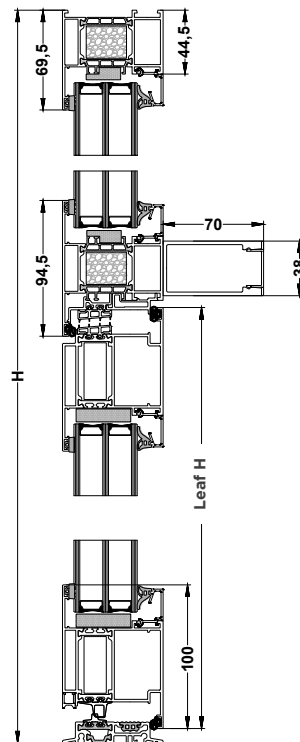
K520012 frame, K520144 leaf,
K520053 transom

Vertical cross-section
Standard frame + standard leaf



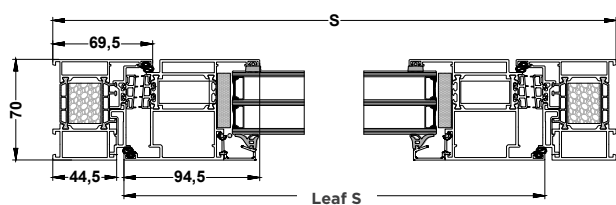
K520012 frame, K520144 leaf, K520052
transom + K433872 reinforcement on
the inside

Vertical cross-section
Standard frame + standard leaf



K520012 frame, K520144 leaf, K520052
transom + K413923 reinforcement on the
inside

Horizontal cross-section
Standard frame + narrow leaf

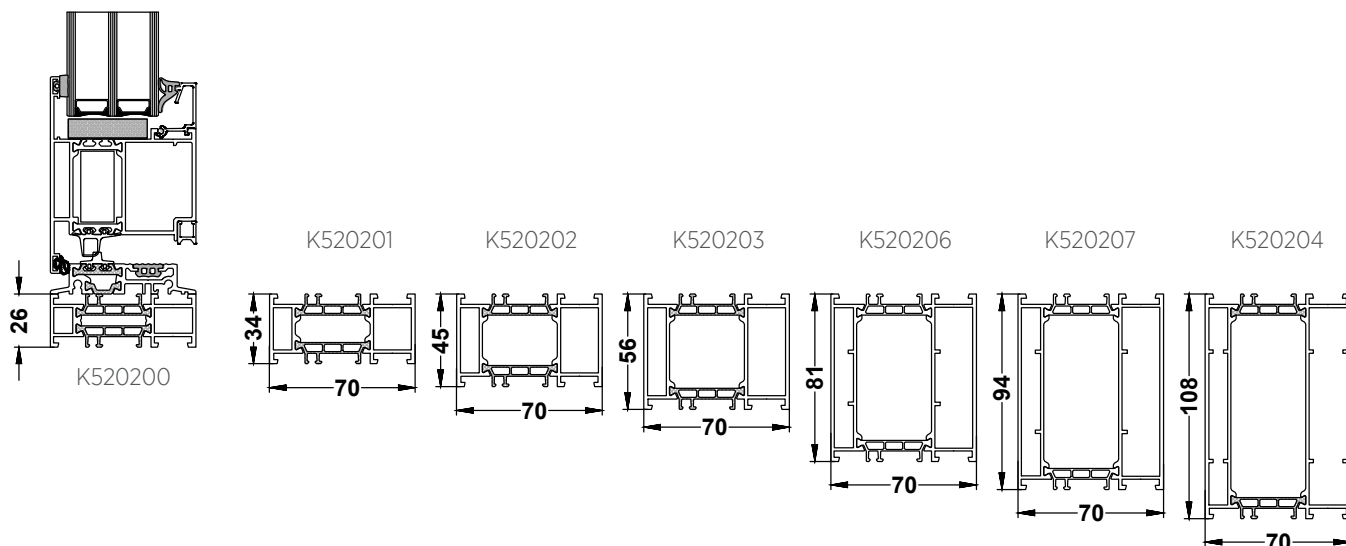


K520012 frame, K520140 leaf

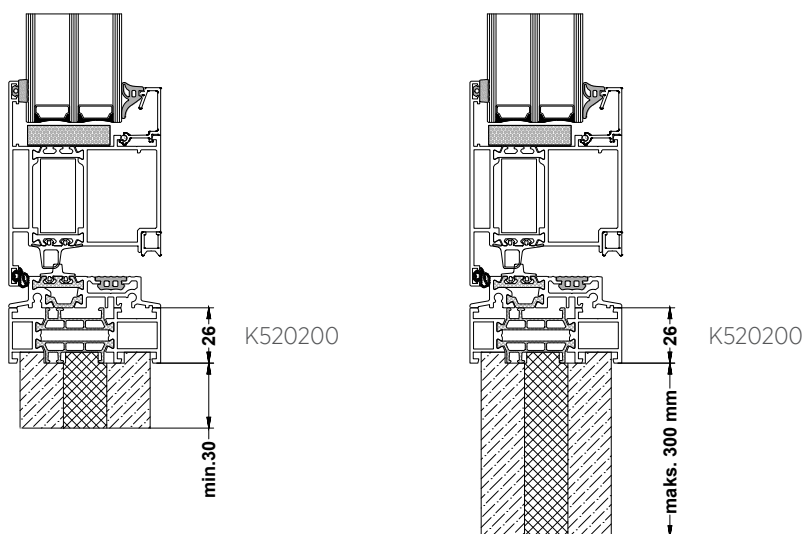
PROFILE AND SYSTEM ELEMENT CROSS-SECTIONS

Widenings

K52 0200 25.5 [mm], K52 0201 33.5 [mm], K52 0202 44.5 [mm], K52 0203 55.5 [mm], K52 0206 80.5 [mm], K52 0207 94 [mm], K52 0204 108 [mm]

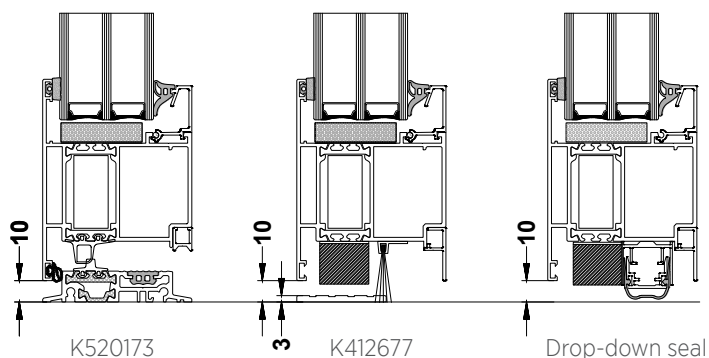


System widening 25.5 mm + system threshold sill 30-300 mm



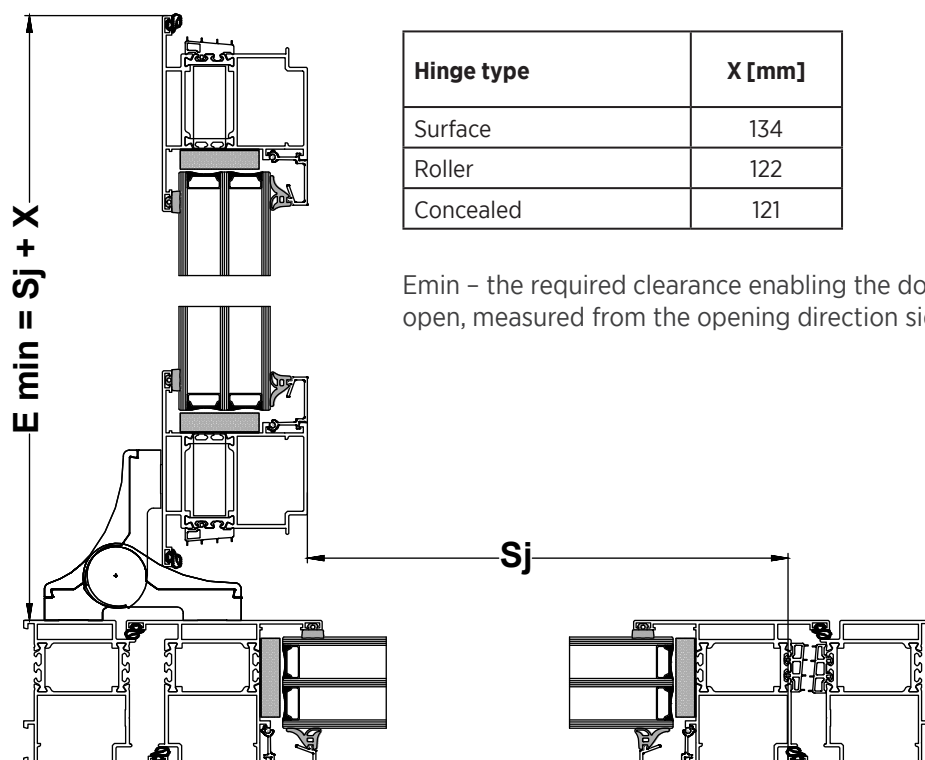
As standard, when a threshold sill is selected, a 26 mm widening is added first, followed by the threshold sill. The overall dimension includes both the widening and the threshold sill.

Threshold solutions





Minimum door leaf opening clearance (E_{min}) depending on the hinge type

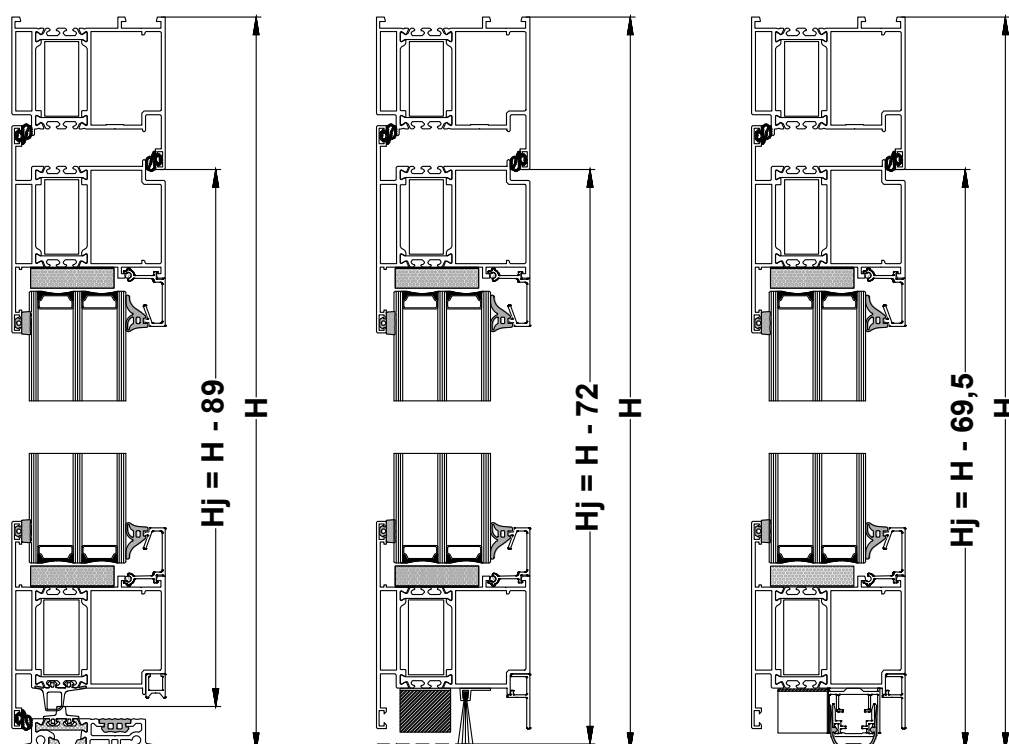


E_{min} – the required clearance enabling the door leaf to open, measured from the opening direction side.

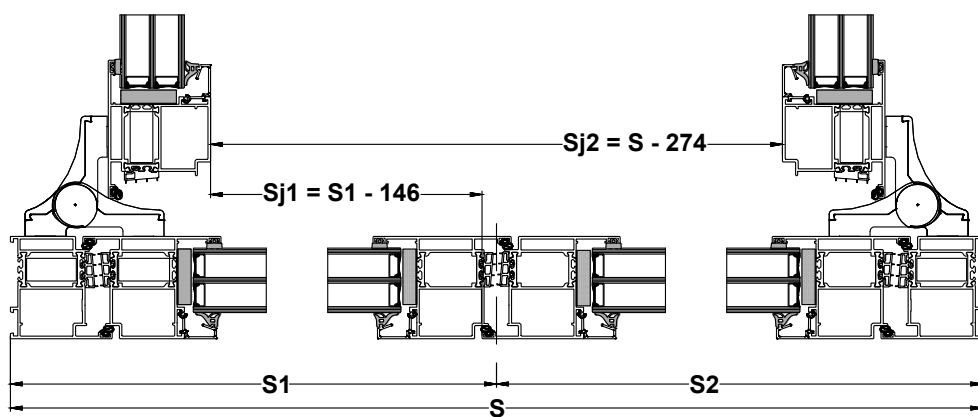
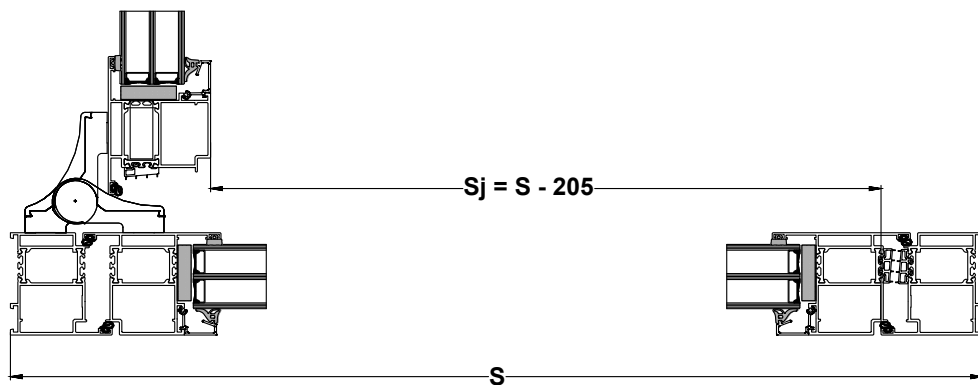
CLEAR PASSAGE

The clear passage dimensions are given for doors without sidelights; for doors with sidelights, the values vary depending on the configuration and are determined each time in the configurator and in the commercial offer.

Clear passage – threshold solutions

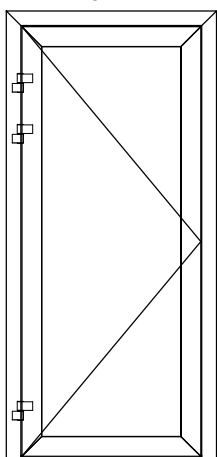


Clear passage – surface hinge

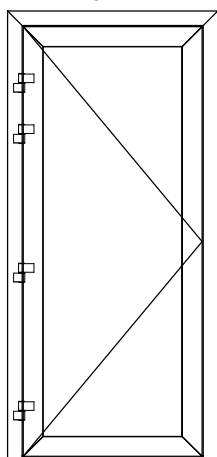


Surface hinges – approximate position

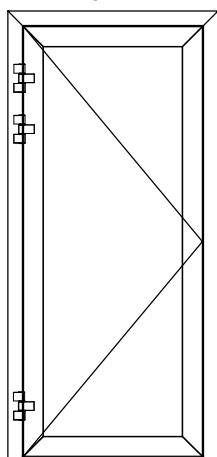
3 surface hinges 2 leaves



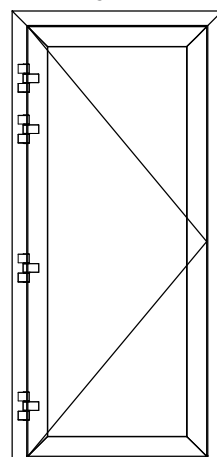
4 surface hinges 2 leaves



3 surface hinges 3 leaves

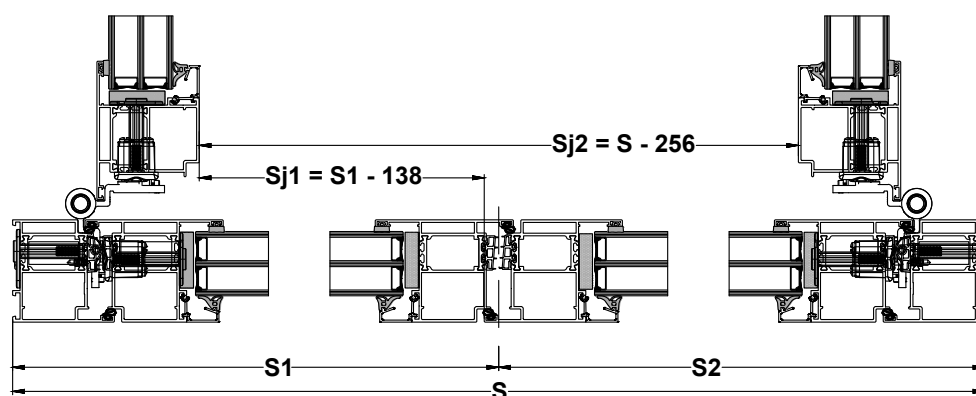
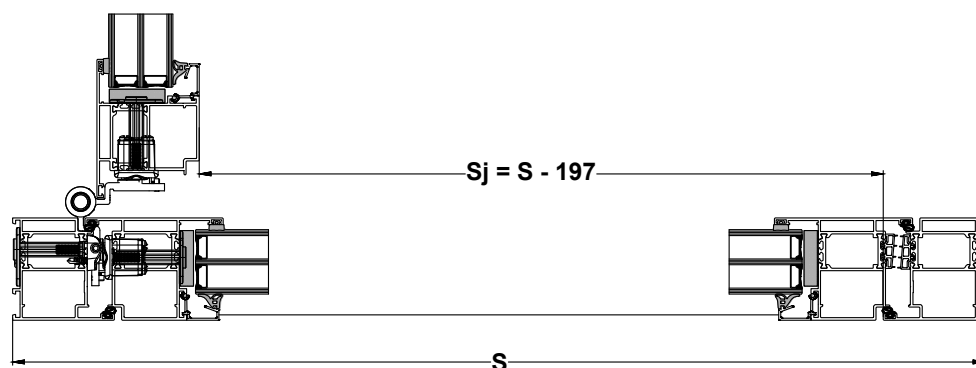


4 surface hinges 3 leaves



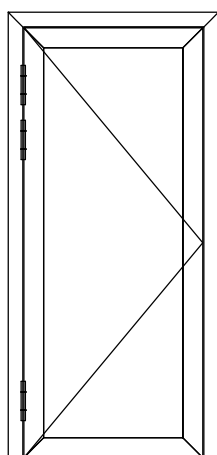


Clear passage – roller hinge

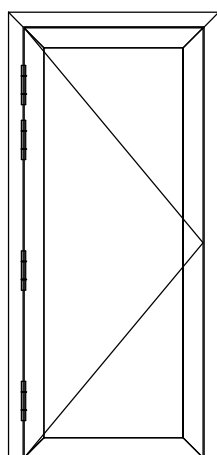


Roller hinges – approximate position

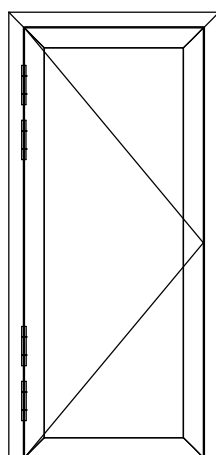
3 roller hinges



4 roller hinges

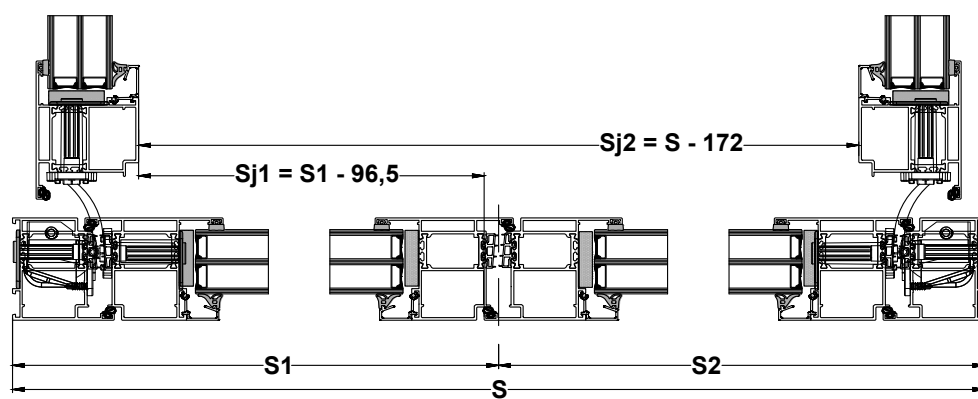
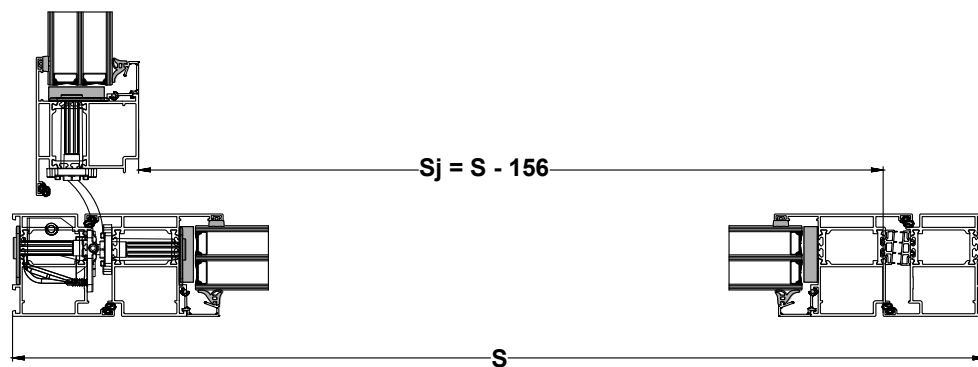


4 roller hinges (834/834p)



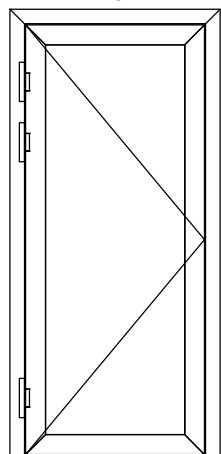


Clear passage – concealed hinge

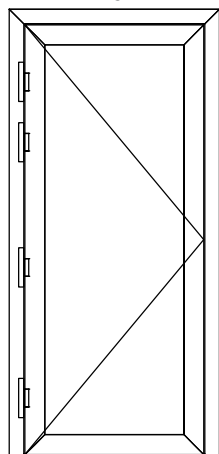


Concealed hinges – approximate position

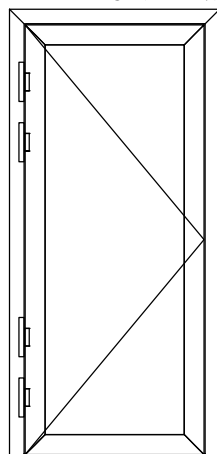
3 concealed hinges



4 concealed hinges



4 concealed hinges (834/834p)





SYSTEM LIMITATIONS

Structural and system limitations
for the FUTURO 79 doors

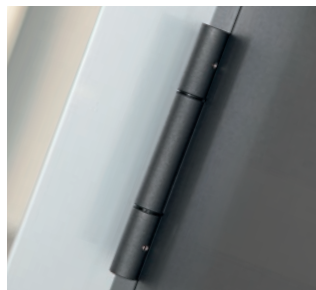
		Single-leaf doors	Double-leaf doors	Doors in a storefront system
Maximum surface area of the leaf	Narrow leaf	2,6 [m ²]		
	Standard leaf	3,3 [m ²]		
	Wide leaf	3,6 [m ²]		
Maximum width of the leaf	Narrow leaf	1200 [mm]		
	Standard leaf	1300 [mm]		
	Wide leaf	1400 [mm]		
Maximum height of the leaf	Narrow leaf	2200 [mm]		
	Standard leaf	2500 [mm]		
	Wide leaf	2600 [mm]		
Maximum leaf weight	Narrow leaf	120 [kg]		
	Standard leaf	140 [kg]		
	Wide leaf	160 [kg]		
Maximum surface area of the door structure in a single frame		3,9 [m ²]	7,1 [m ²]	9,3 [m ²]
Maximum width of the structure		1499 [mm]	2680 [mm]	3500 [mm]
Maximum height of the structure		2660 [mm]	2660 [mm]	3000 [mm]
Minimum width of the passive leaf (2-leaf doors)		400 [mm]		

ACCESSORIES

Hinge types:



Surface hinge



Roller hinge



Concealed hinge

Handle and pull types:



H1/S2 handle-pull design
colour: INOX
long cover plate



H1/S2 handle-pull design
colour: mat black
long cover plate



D-116 handle-pull design
INOX
split cover plate



Denver handle-pull design, stainless steel
long cover plate

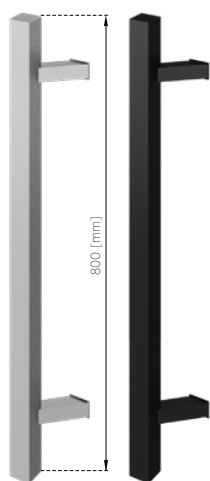


Liverpool handle-pull design
colour: silver
long cover plate

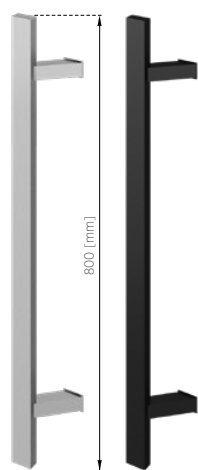


Liverpool III handle design
colour: mat black
split cover plate

Pull types:



Q45R 4v40



Q45R 40x20

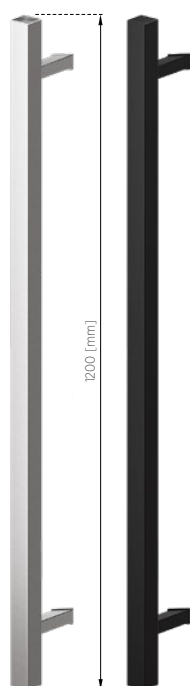


Sensor located on the outer side of the pull.



Button activating the day latch function.

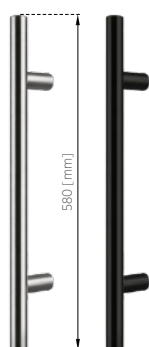
Sensor – a touch button designed to operate with the Autotronic motorized lock. Used with the Q45R pulls equipped with an LED-backlit sensor (visible on the outer side of the pull). Pulls with a sensor are available as a kit with a button activating the day latch function. The day latch function enables temporary unlocking of the lock and opening the door from the outside. Activation takes place after pressing the button on the inside and is indicated by the illumination of the buttons. Once activated, the door can be unlatched from the outside using the button. The function is deactivated by pressing the internal button again, after which the door returns to standard mode.



Q45 4v40



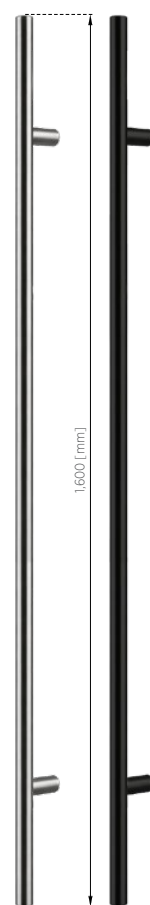
Q45 40x20



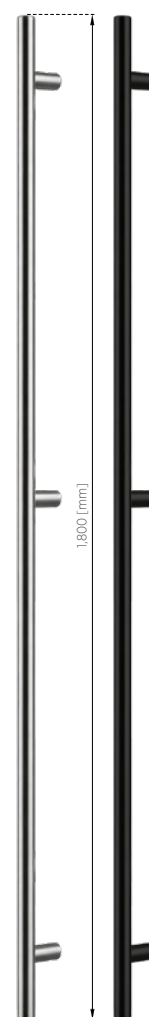
P45



P45



P45



P45, extended



M2 INOX
or in the colour of the
joinery

Lock types:

- 3-point hook lock (FUHR 855 GL)
- 3-point automatic lock (FUHR 833)
- 3-point Autotronic lock (FUHR 834, with a child safety function)
- 3-point Autotronic lock (FUHR 834P, anti-panic function)

The WIŚNIEWSKI Connected system, as well as access control systems or the day latch function can be used when a lock with an electric motor (Autotronic) is used.

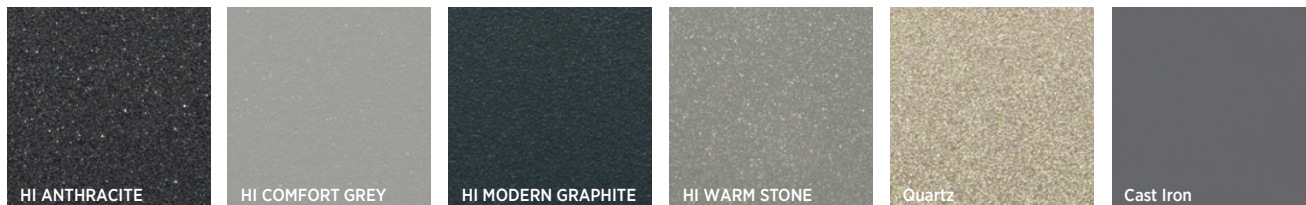
Door closer types:

- Surface-mounted link arm door closer
- Surface-mounted rail door closer
- Door closer concealed in the leaf



AVAILABLE COLOURS

Standard colours (mat structure)



Standard colours (mat structure and smooth mat)



Colours

Modern Black (RAL 9005) mat structure – (colour similar to Black Ulti-Matt PVC)*
7016 SILK – (colour similar to Dark Grey Silk PVC)*

***PLEASE NOTE! – suggested matching, the final choice depends on the customer's preferences**



Special colours (mat structure)

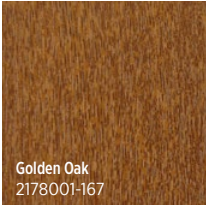
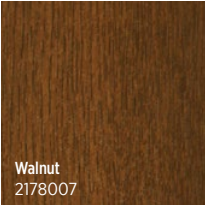
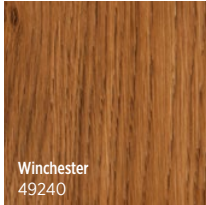
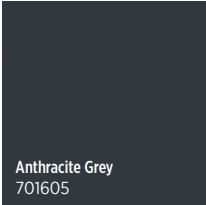
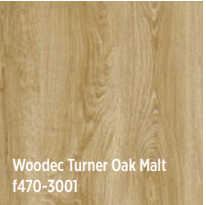
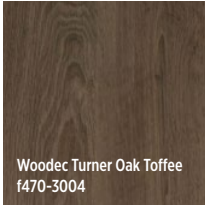
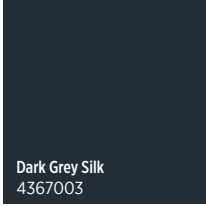
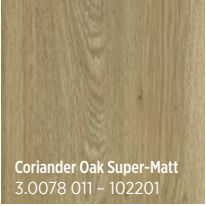


Special RAL colours (mat structure and smooth mat)

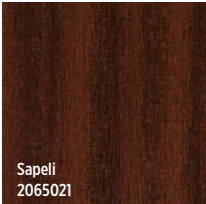
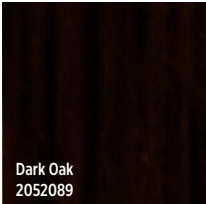
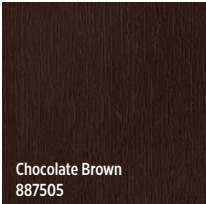
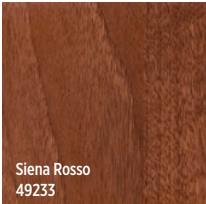
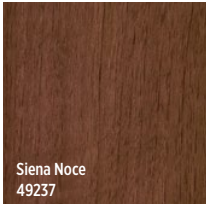
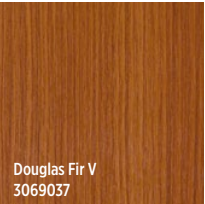
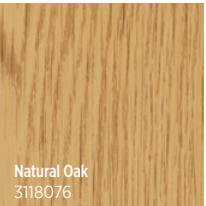
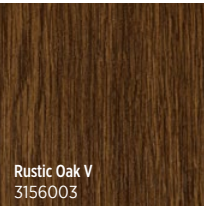
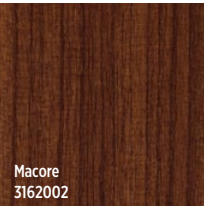
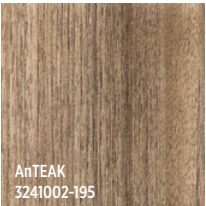
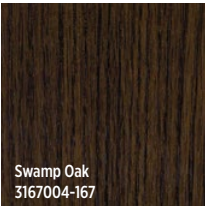
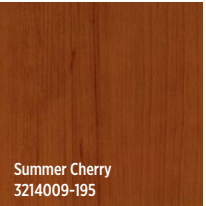
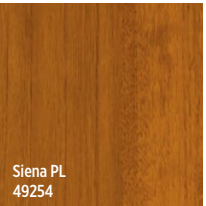
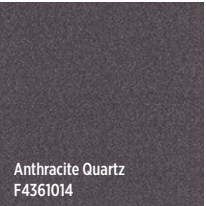
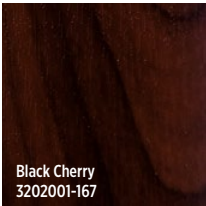
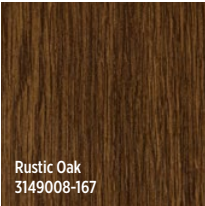
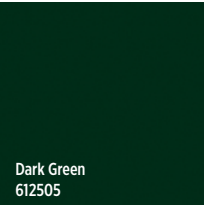
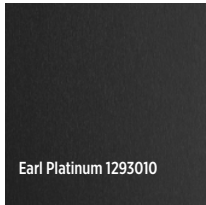
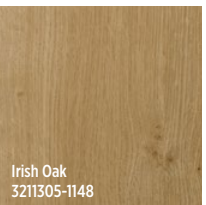
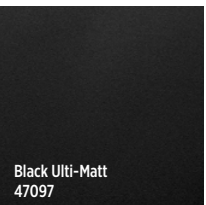
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Film coatings – standard colours

 Golden Oak 2178001-167	 Walnut 2178007	 Winchester 49240	 Anthracite Grey 701605	 Woodec Turner Oak Malt f470-3001	 Woodec Turner Oak Toffee f470-3004
 Dark Grey Silk 4367003	 Coriander Oak Super-Matt 3.0078 011 – 102201				

Film coatings – non-standard colours

 Sapeli 2065021	 Dark Oak 2052089	 Chocolate Brown 887505	 Siena Rosso 49233	 Siena Noce 49237	 Douglas Fir V 3069037
 Natural Oak 3118076	 Rustic Oak V 3156003	 Macore 3162002	 Light Sheffield Oak 4563081	 AnTEAK 3241002-195	 Swamp Oak 3167004-167
 Summer Cherry 3214009-195	 Siena PL 49254	 Sheffield Oak Grey F436-3086	 Anthracite Quartz F4361014	 Black Cherry 3202001-167	 Rustic Oak 3149008-167
 Oregon 1192001-167	 Cream White 137905	 Dark Green 612505	 Metbrush Silver 4361002	 Earl Platinum 1293010	 Woodec Sheffield Oak Alpine f470-3002
 Woodec Sheffield Oak Concrete f470-3003	 Anthracite Quartz Mat f470 -1014	 Irish Oak 3211305-1148	 Black Ulti-Matt 47097	 Silver Grey 715505	 Anthracite Grau Matt F4706003

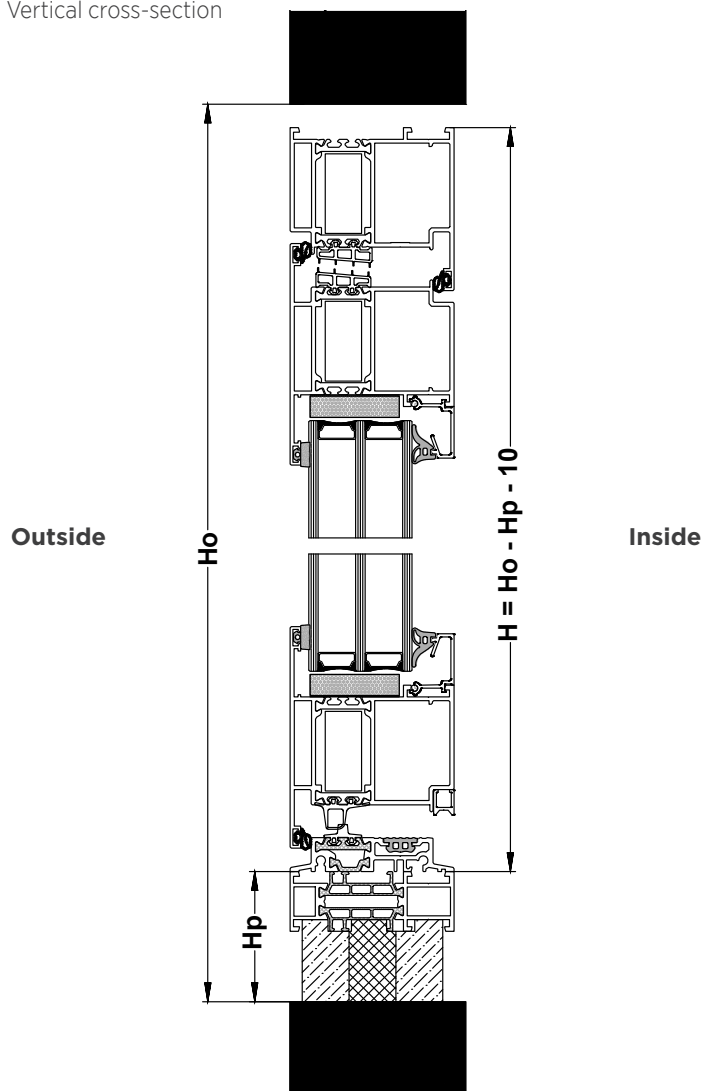


Film coating colour	Primer and hinge colour
Golden Oak 2178001-167	RAL 8003 Clay Brown
Walnut 2178007	RAL 8011 Walnut Brown
Winchester 49240	RAL 8001 Brown-Orange
Anthracite Grey 701605	RAL 7016 Anthracite Grey
Woodec Turner Oak Malt f470-3001	RAL 1001 Beige
Woodec Turner Oak Toffee f470-3004	RAL 8028 Clay Brown
Dark Grey Silk 4367003	RAL 7016 Anthracite Grey
Coriander Oak Super-Matt 3.0078 011 – 102201	RAL 1001 Beige
Sapeli 2065021	RAL 8017 Chocolate Brown
Dark Oak 2052089	RAL 8017 Chocolate Brown
Chocolate Brown 887505	RAL 8019 Chocolate Brown
Siena Rosso 49233	RAL 8011 Walnut Brown
Siena Noce 49237	RAL 8028 Chocolate Brown
Douglas Fir V 3069037	RAL 8003 Clay Brown
Natural Oak 3118076	RAL 1001 Beige
Rustic Oak V 3156003	RAL 8028
Macore 3162002	RAL 8002 Signal Brown
Light Sheffield Oak 4563081	RAL 1019 Beige-Grey
AnTEAK 3241002-195	RAL 1019 Beige-Grey
Swamp Oak 3167004-167	RAL 8019 Brown-Grey
Summer Cherry 3214009-195	RAL 8002 Signal Brown
Siena PL 49254	RAL 8024 Brown-Beige
Sheffield Oak Grey F436-3086	RAL 7006
Anthracite Quartz F4361014	DB703 mat
Black Cherry 3202001-167	RAL 8002 Signal Brown
Rustic Oak 3149008-167	RAL 8028
Oregon 1192001-167	RAL 8001
Cream White 137905	RAL 9001 Cream
Dark Green 612505	RAL 6009 Fir Green
Metbrush Silver 4361002	RAL 9006 White Aluminium
Earl Platinum 1293010	RAL 7016 Anthracite Grey
Woodec Sheffield Oak Alpine f470-3002	RAL 7044 Silk Grey
Woodec Sheffield Oak Concrete f470-3003	RAL 7037 Steel Grey
Anthracite Quartz Mat f470-1014	DB703 mat
Irish Oak 3211305-1148	RAL 8001 Brown-Ochre
Black Ulti-Matt 47097	RAL 9005 Jet Black
Silver Grey 715505	RAL 7040 Dark Grey
Anthracite Grey Mat F4706003	RAL 7016

INSTALLATION CONSIDERATIONS

Installation in the opening

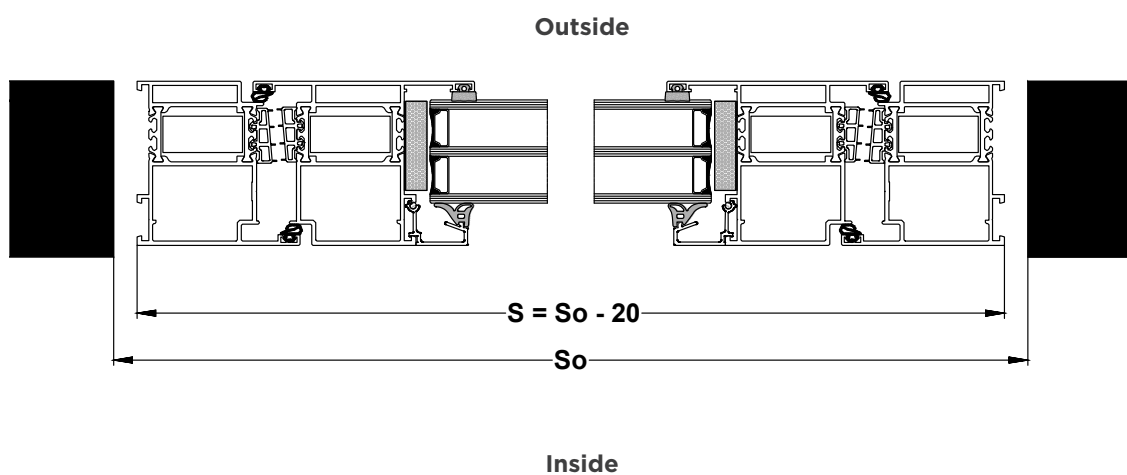
Vertical cross-section



Installation dimensions:

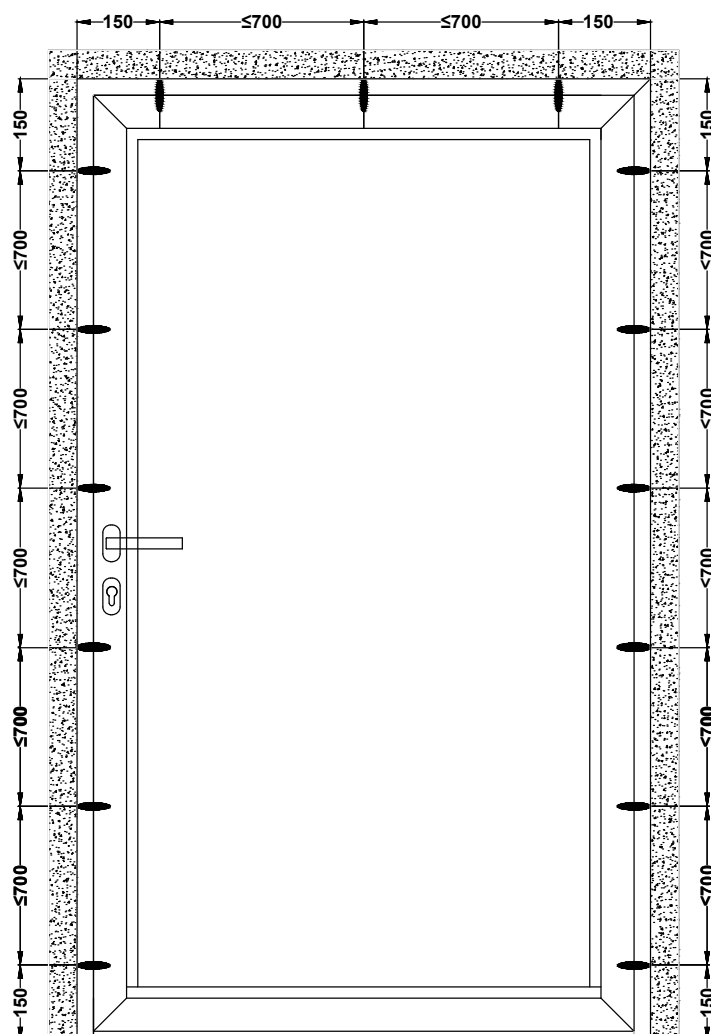
- S_o - wall opening width
- S - door ordering width
- H_o - wall opening height
- H - door ordering height
- H_p - threshold sill/understructure height

Horizontal cross-section





Spacing of anchors / dowels – STANDARD doors



GLASS PANES

When using glass 4 [mm] thick – the maximum side length can be 2,440 [mm] (maximum side ratio 1:8), maximum surface up to 3.35 [m²]. The above standard dimensional limitations apply only to clear glazing units installed vertically in locations where increased wind loads do not occur. The limitations do not take into account the effect of heat reflective coatings on the increase of the temperature inside the glazing units and the effect of the changes in atmospheric pressure resulting from fitting in mountainous areas.

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

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

In public utility buildings, in accordance with the applicable Construction Law and technical regulations, door leaves must be fitted with safety glass infills (tempered safety glass or laminated glass) across the entire surface. In fixed storefront glazing, safety glass must be used in the lower section up to a height of 850 mm (for buildings up to 25 m in height) or 1,100 mm (for buildings over 25 m in height).

Alternatively, the system allows for the installation of solid infills with a layered structure (steel sheet / insulation / steel sheet), adapted to the technical and insulation requirements of the FUTURO 79 system.



WARM EDGE

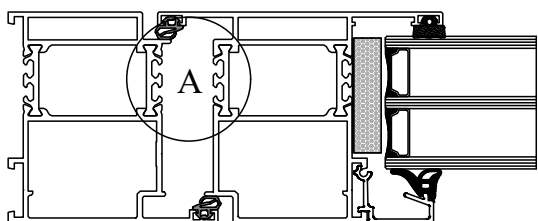
Available in the following colours for the ALU door range:

Light Grey 7035, Grey 7040, Black 9005, Light Brown 8003, Brown 8016, White 9016.

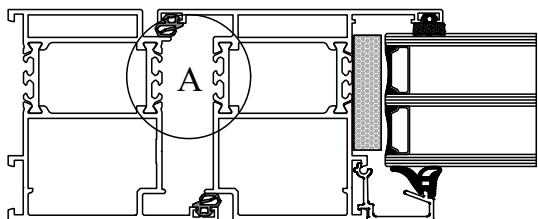
THERMAL VARIANTS

Thermal variant

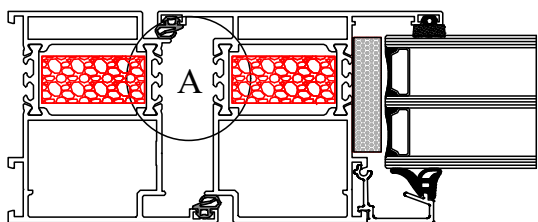
FUTURO 79 E



FUTURO 79 ST

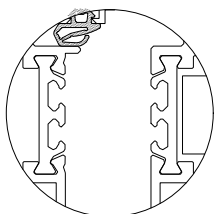


FUTURO 79 SI



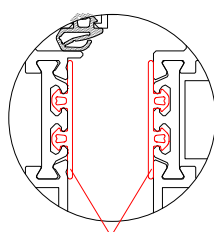
Gasket variant

A (E, ST, SI)



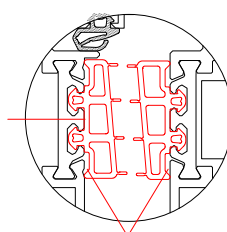
NONE

A (E, ST, SI)



8G000270

A (SI+)



8G000320



Door type	FUTURO 79
Profile structure	3-chamber with a thermal break
Profile thickness	70 mm frame and leaf
Infill thickness	max. 53 mm (glazing unit or panel)
Gaskets along the perimeter	2
Central gasket	available in the SI+ variant
Hardware	hinges, 3-point lock, lock cylinder
Handle/Pull	coated/anodized aluminium or stainless steel (INOX)
Max. leaf dimensions	max. height 2,600 mm / max. width 1,400 mm
Max. leaf weight	up to 160 kg
Widening	optional

**WIŚNIEWSKI**

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