# ALU DOORS

WIŚNIOWSKI
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/m$^2$K

### 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 WIŚNIOWSKI does not only save you money, but also helps you protect the natural environment.

# FUTURO 79

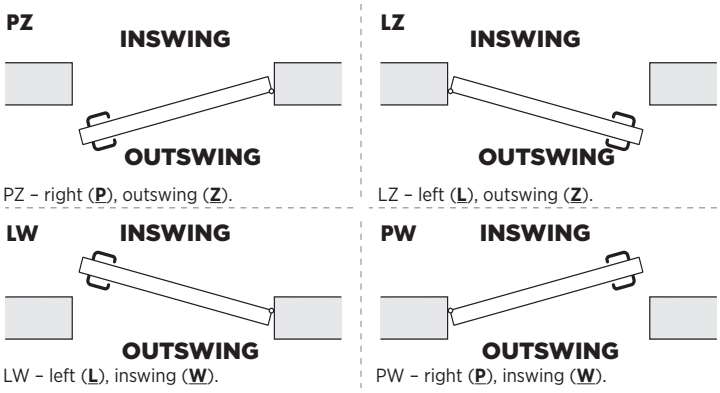
## DOOR CHARACTERISTICS

- 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] Ud= 1.1 W/m$^2$K when a triple-glazed unit with Ug = 0.5 W/m$^2$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




PZ – right (**P**), outswing (**Z**).

LZ – left (**L**), outswing (**Z**).

LW – left (**L**), inswing (**W**).

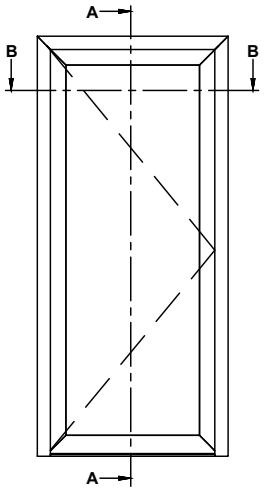
PW – right (**P**), inswing (**W**).

The minimum required clear passage of entrance doors in residential and public utility buildings, in accordance with the applicable building regulations, is min. 900 × 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
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Ho – wall opening height
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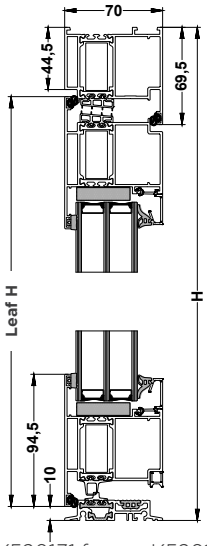
Leaf H – leaf height
Hj – clear passage height

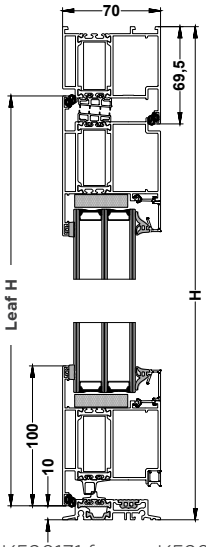
## Cross-sections

Vertical cross-section
Standard frame + narrow leaf



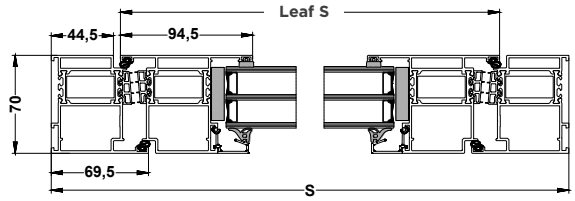

K520131 frame, K520142 leaf

Vertical cross-section
Standard frame + standard leaf



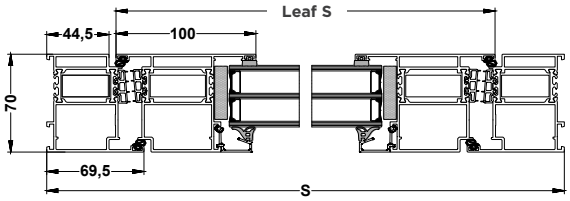

K520131 frame, K520146 leaf

Horizontal cross-section
Standard frame + narrow leaf




K520131 frame, K520142 leaf

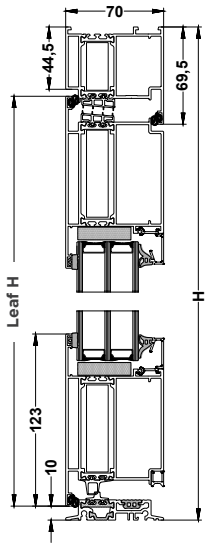
Horizontal cross-section
Standard frame + standard leaf




K520131 frame, K520146 leaf

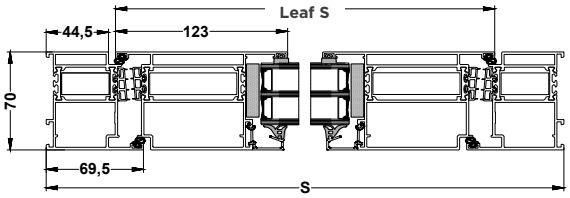
## Cross-sections

Vertical cross-section
Standard frame + wide leaf




K520131 frame, K520150 leaf

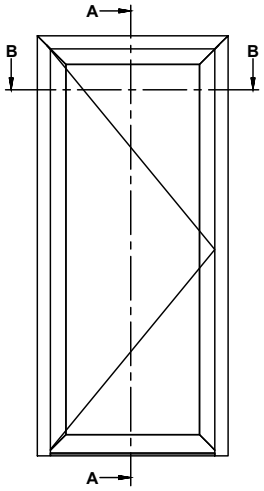
Horizontal cross-section
Standard frame + wide leaf




K520131 frame, K520150 leaf

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

As seen from the inside

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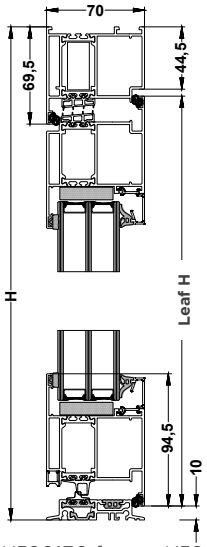
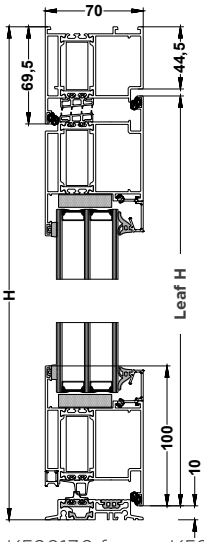
## Cross-sections

Vertical cross-section
Standard frame + narrow leaf



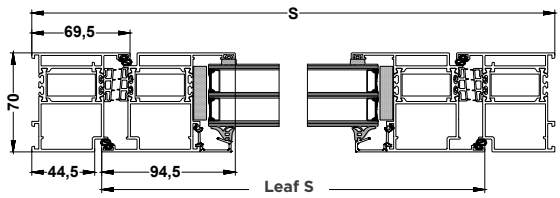

K520130 frame, K520140 leaf

Vertical cross-section
Standard frame + standard leaf



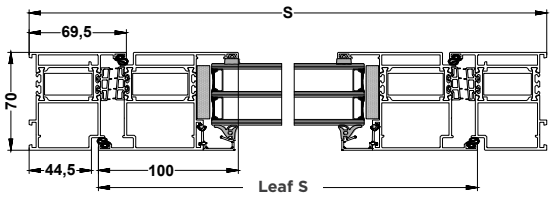

K520130 frame, K520144 leaf

Horizontal cross-section
Standard frame + narrow leaf




K520130 frame, K520140 leaf

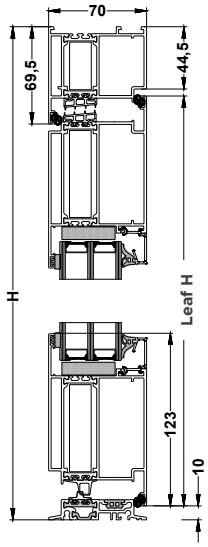
Horizontal cross-section
Standard frame + standard leaf




K520130 frame, K520144 leaf

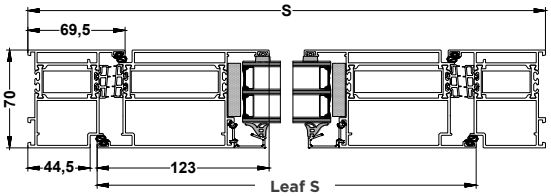
## Cross-sections

Vertical cross-section
Standard frame + wide leaf




K520130 frame, K520148 leaf

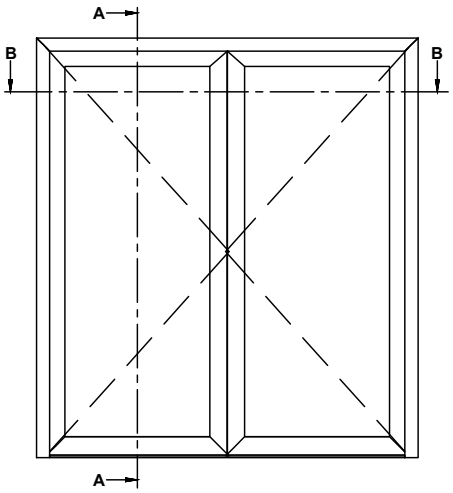
Horizontal cross-section
Standard frame + wide leaf




K520130 frame, K520148 leaf

# FUTURO 79
# – double-leaf outswing door

As seen from the inside

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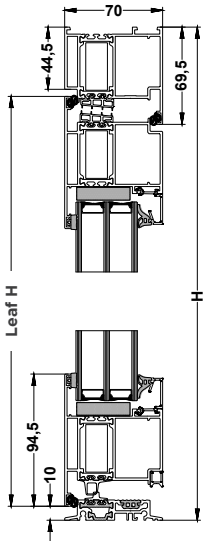
Hj – clear passage height

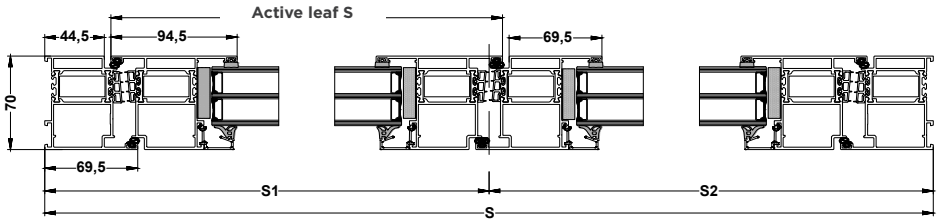
## Cross-sections

Vertical cross-section
Standard frame + narrow leaf




K520131 frame, K520142 leaf

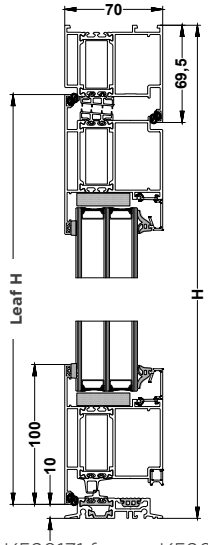
Horizontal cross-section
Standard frame + narrow leaf




K520131 frame, K520142 leaf

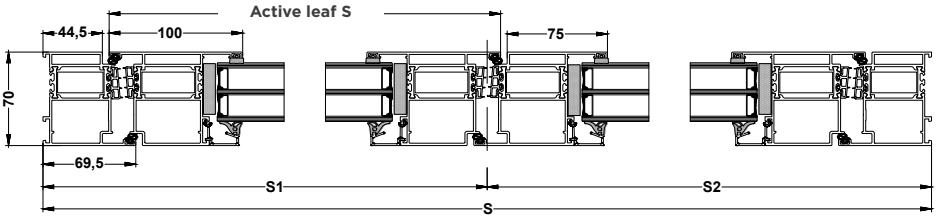
## Cross-sections

Vertical cross-section
Standard frame + standard leaf



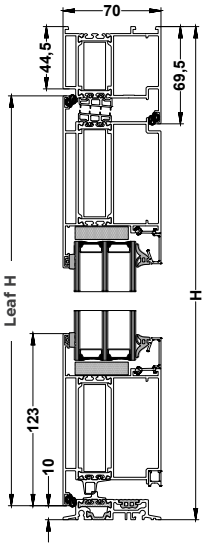

K520131 frame, K520146 leaf

Horizontal cross-section
Standard frame + standard leaf



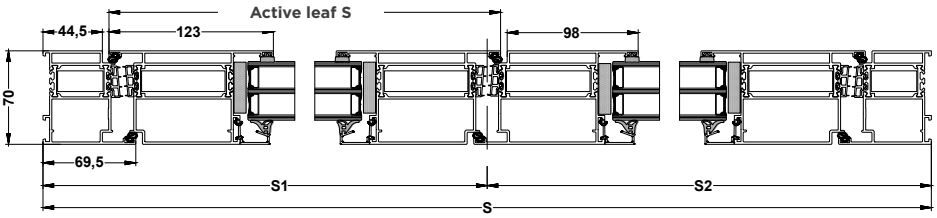

K520131 frame, K520146 leaf

Vertical cross-section
Standard frame + wide leaf




K520131 frame, K520150 leaf

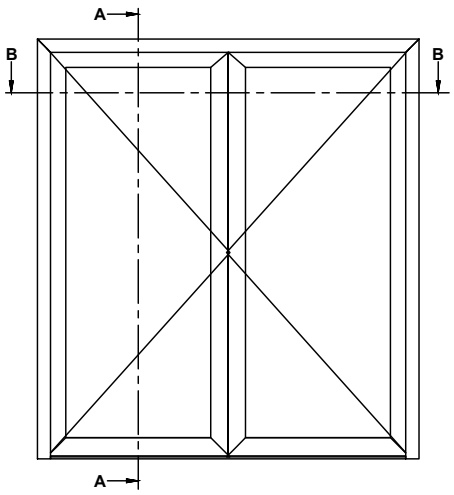
Horizontal cross-section
Standard frame + wide leaf




K520131 frame, K520150 leaf

# FUTURO 79
# – double-leaf inswing door

As seen from the inside

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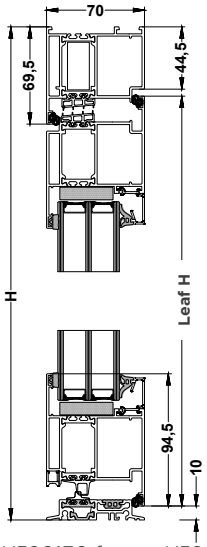
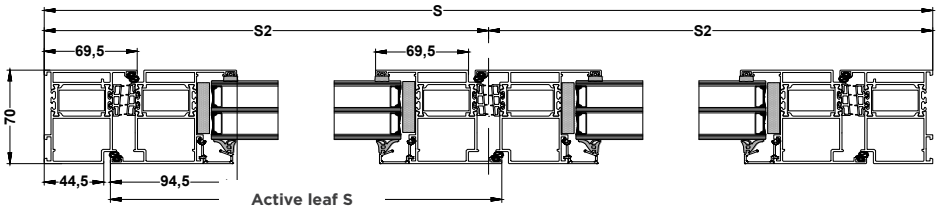
## Cross-sections

Vertical cross-section
Standard frame + narrow leaf




K520130 frame, K520140 leaf

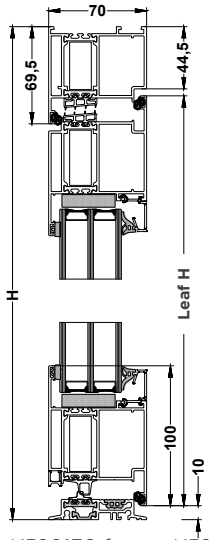
Horizontal cross-section
Standard frame + narrow leaf




K520130 frame, K520140 leaf

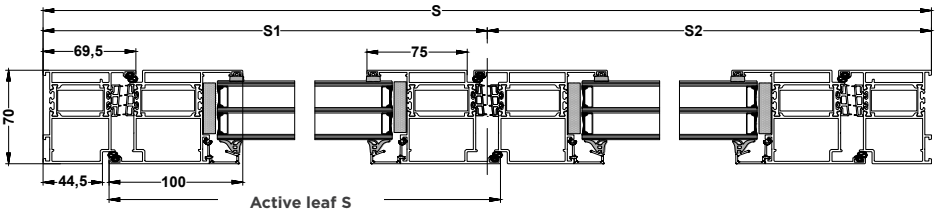
## Cross-sections

Vertical cross-section
Standard frame + standard leaf



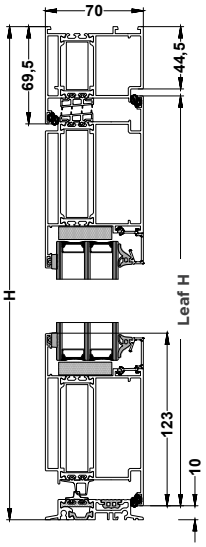

K520130 frame, K520144 leaf

Horizontal cross-section
Standard frame + standard leaf



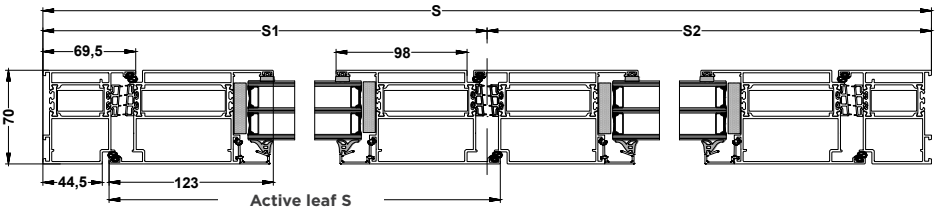

K520130 frame, K520144 leaf

Vertical cross-section
Standard frame + wide leaf




K520130 frame, K520148 leaf

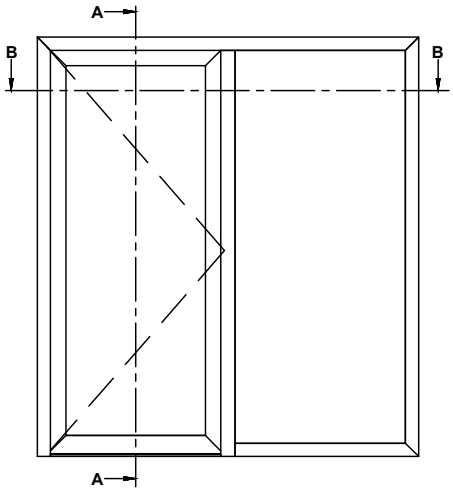
Horizontal cross-section
Standard frame + wide leaf




K520130 frame, K520148 leaf

# FUTURO 79
## – single-leaf outswing door with a sidelight

As seen from the inside

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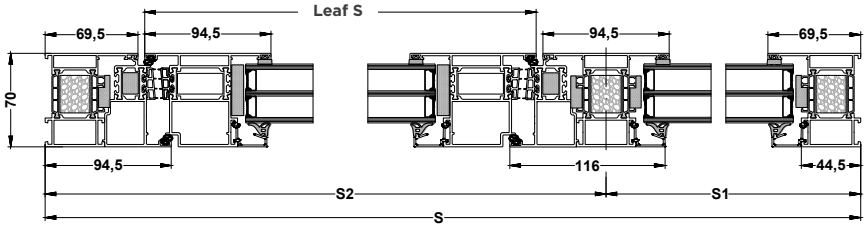
Ho – wall opening height
H – door ordering height
Leaf H – leaf height
Hj – clear passage height

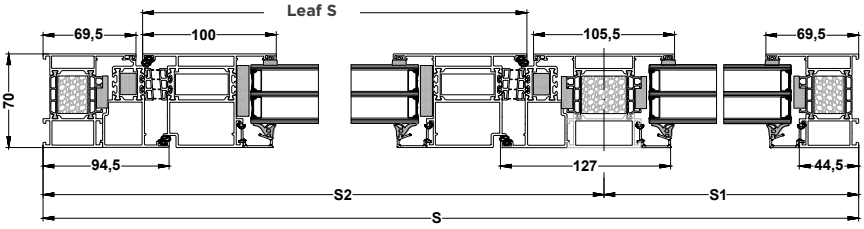
## Cross-sections

Horizontal cross-section
Standard frame + narrow leaf




K520012 frame, K520142 leaf, K520052 transom

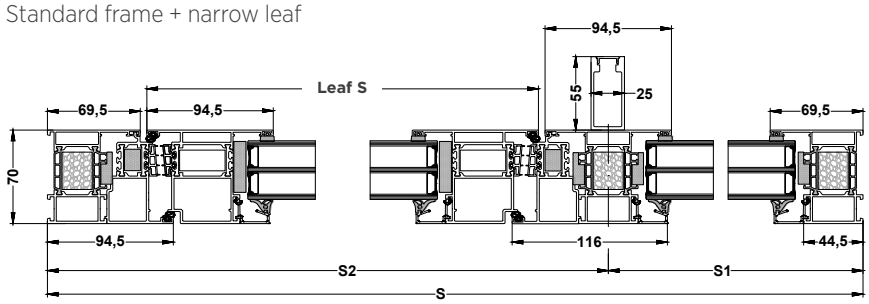
Horizontal cross-section
Standard frame + standard leaf




K520012 frame, K520146 leaf, K520053 transom

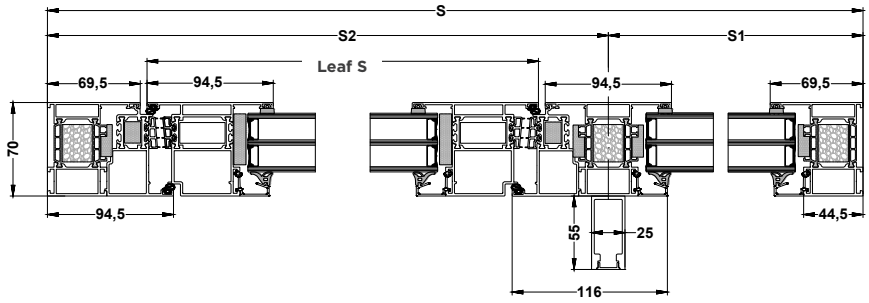
## Cross-sections

Horizontal cross-section
Standard frame + narrow leaf



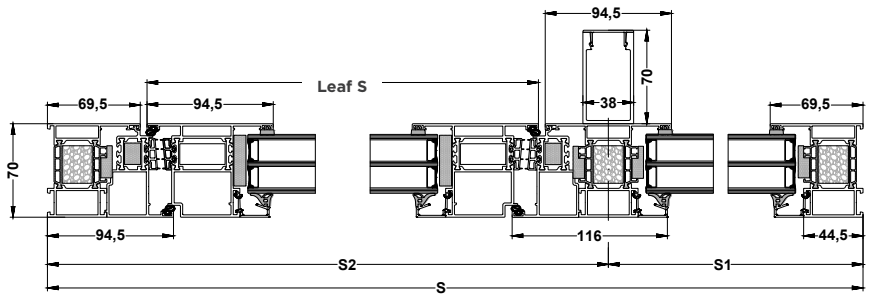

K520012 frame, K520142 leaf, K520052 transom + K433872 reinforcement on the outside

Horizontal cross-section
Standard frame + narrow leaf



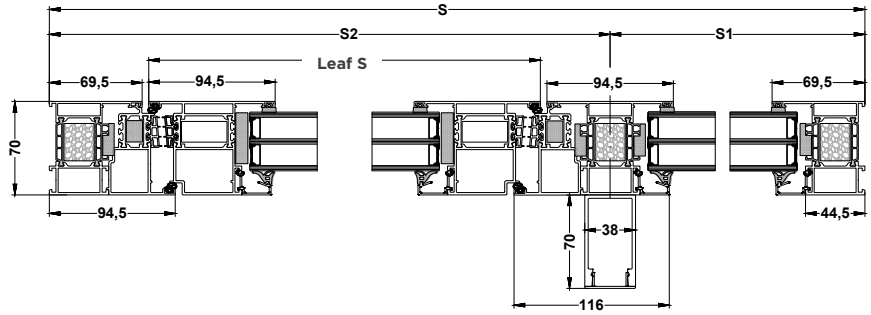

K520012 frame, K520142 leaf, K520052 transom + K433872 reinforcement on the inside

Horizontal cross-section
Standard frame + narrow leaf




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

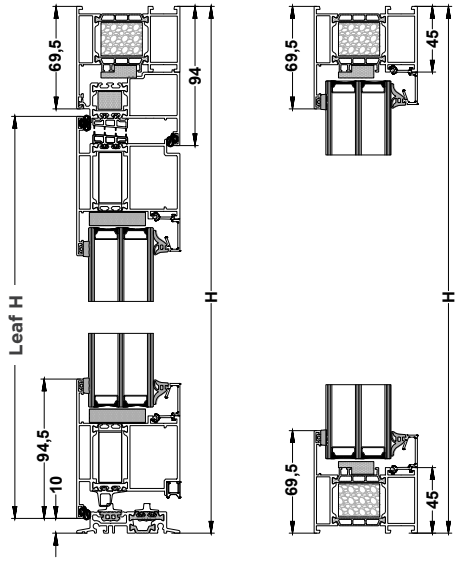
Horizontal cross-section
Standard frame + narrow leaf




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

## Cross-sections

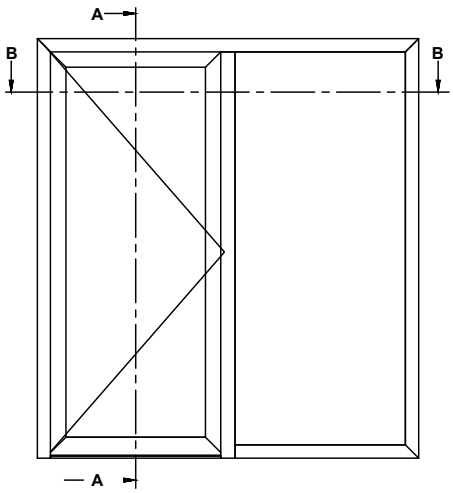
Vertical cross-section
Standard frame + narrow leaf




K520012 frame, K520142 leaf

# FUTURO 79
# – single-leaf inswing door with a sidelight

As seen from the inside

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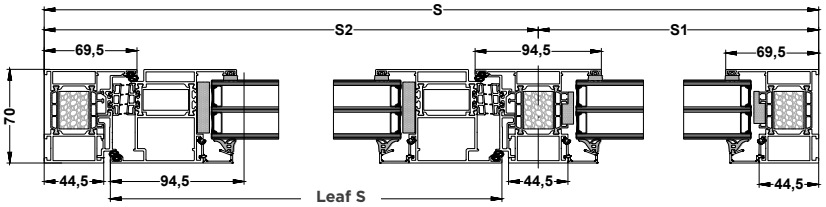
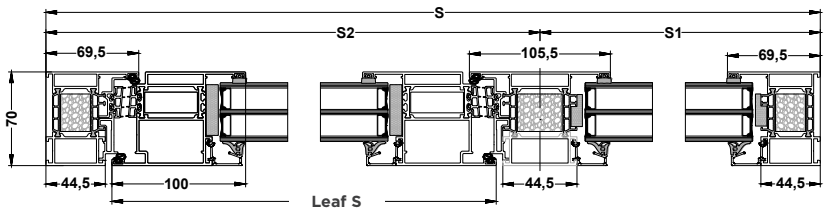
## Cross-sections

Horizontal cross-section
Standard frame + narrow leaf




K520012 frame, K520140 leaf, K520052 transom

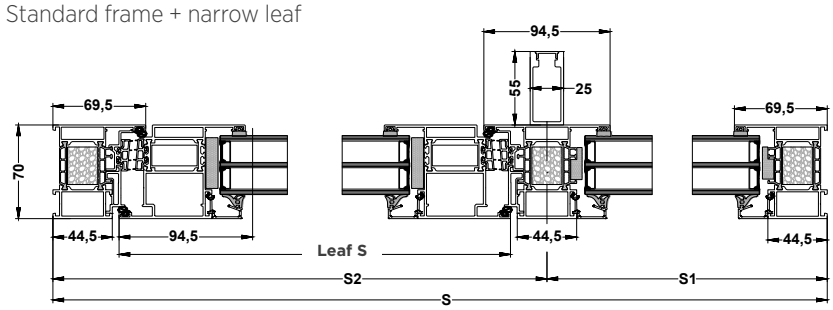
Horizontal cross-section
Standard frame + standard leaf




K520012 frame, K520144 leaf, K520053 transom

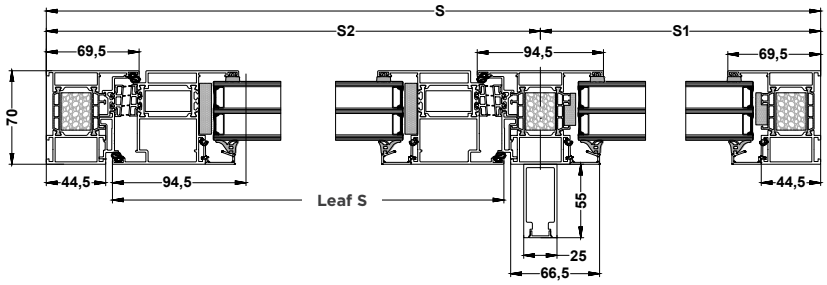
## Cross-sections

Horizontal cross-section
Standard frame + narrow leaf



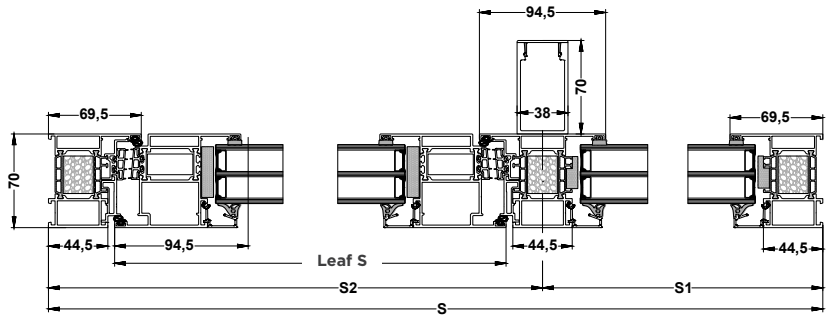

K520012 frame, K520140 leaf, K520052 transom + K433872 reinforcement on the outside

Horizontal cross-section
Standard frame + narrow leaf



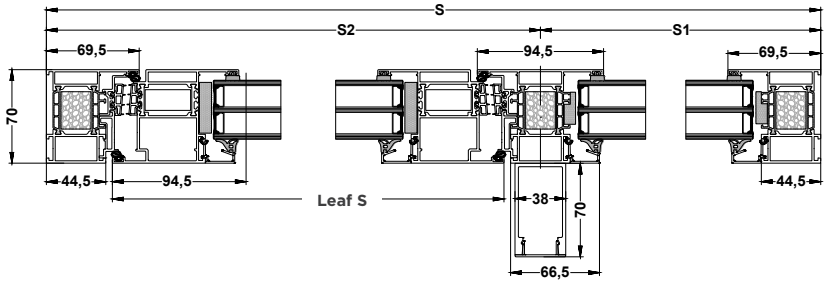

K520012 frame, K520140 leaf, K520052 transom + K433872 reinforcement on the inside

Horizontal cross-section
Standard frame + narrow leaf




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

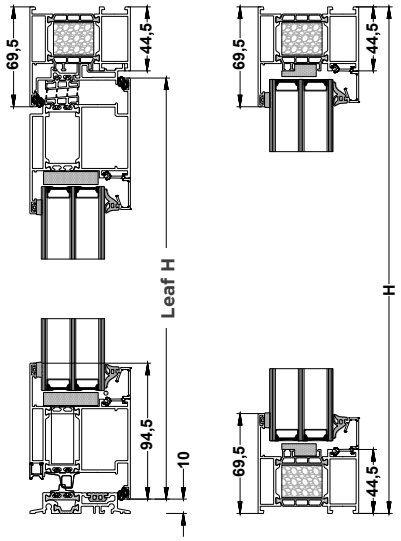
Horizontal cross-section
Standard frame + narrow leaf




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

## Cross-sections

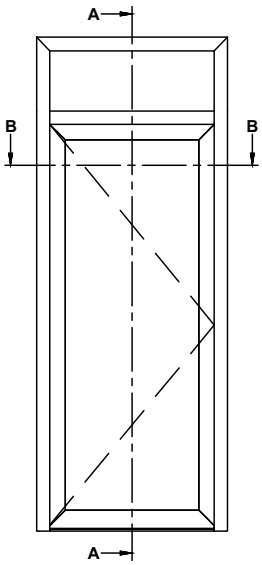
Vertical cross-section
Standard frame + narrow leaf




K520012 frame, K520140 leaf

# FUTURO 79
## – single-leaf outswing door with a toplight

As seen from the inside

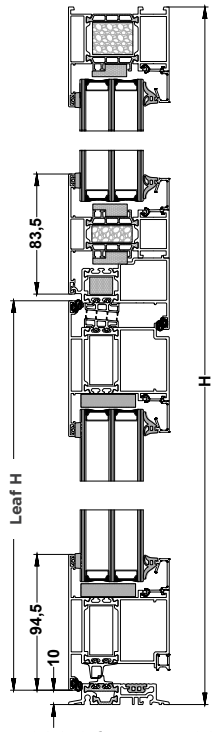



## Descriptive dimensions:

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 leafs open
Ho – wall opening height
H – door ordering height
Leaf H – leaf height
Hj – clear passage height

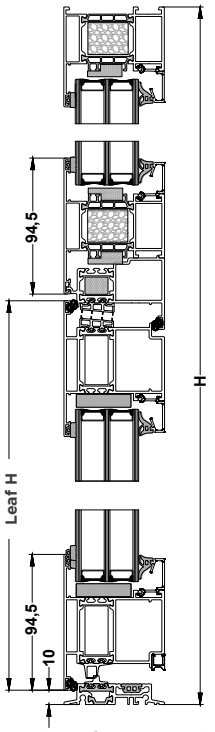
## Cross-sections

Vertical cross-section
Standard frame + narrow leaf



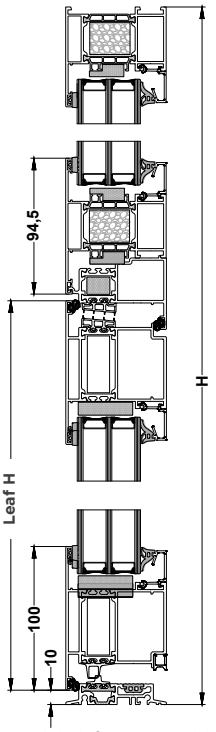

K520012 frame, K520142 leaf,
K520051 transom

Vertical cross-section
Standard frame + narrow leaf




K520012 frame, K520142 leaf,
K520052 transom

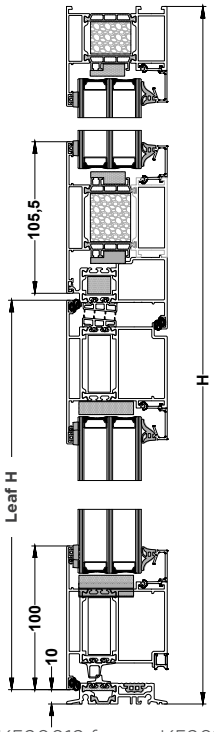
Vertical cross-section
Standard frame + standard leaf




K520012 frame, K520146 leaf,
K520052 transom

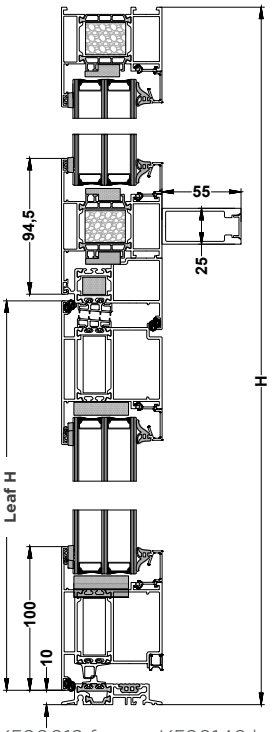
## Cross-sections

Vertical cross-section
Standard frame + standard leaf



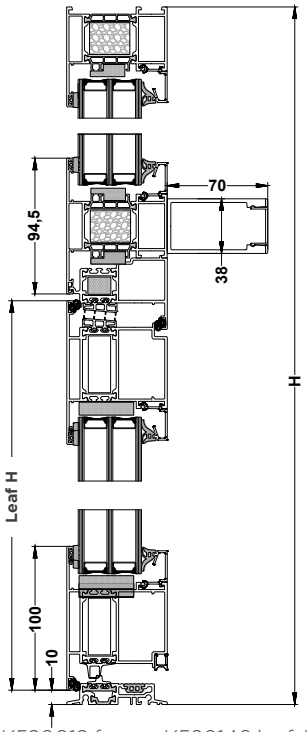

K520012 frame, K520146 leaf, K520053 transom

Vertical cross-section
Standard frame + standard leaf



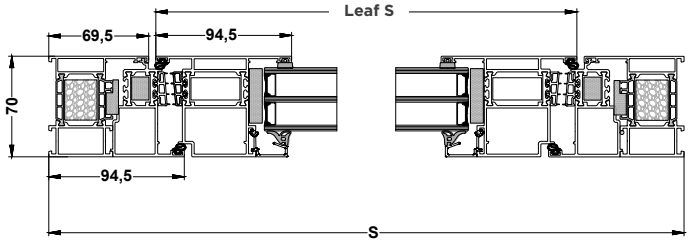

K520012 frame, K520146 leaf, K520052 transom + K433872 reinforcement on the inside

Vertical cross-section
Standard frame + standard leaf




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

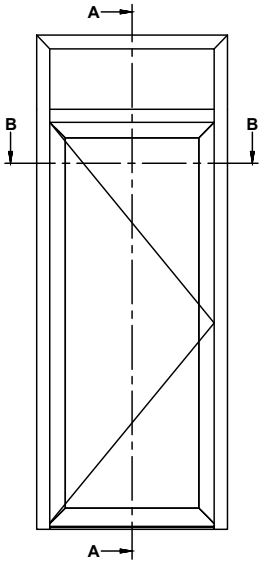
Horizontal cross-section
Standard frame + narrow leaf




K520012 frame, K520142 leaf

# FUTURO 79
## – single-leaf inswing door with a toplight

As seen from the inside

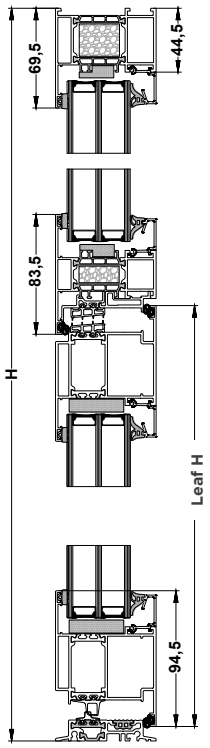



## Descriptive dimensions:

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 leafs open
Ho – wall opening height
H – door ordering height
Leaf H – leaf height
Hj – clear passage height

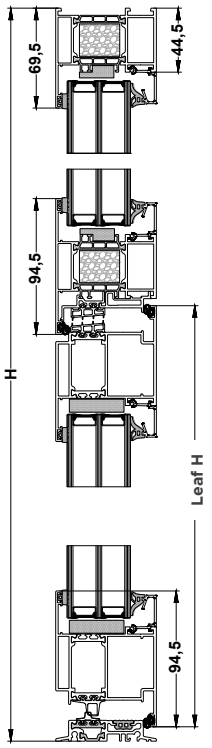
## Cross-sections

Vertical cross-section
Standard frame + narrow leaf



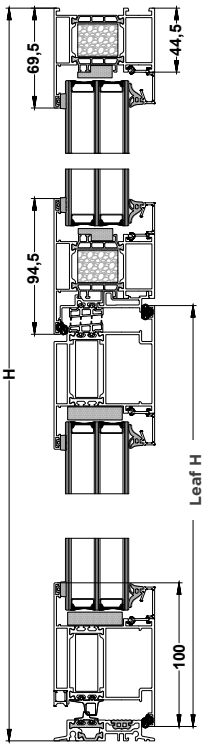

K520012 frame, K520140 leaf,
K520051 transom

Vertical cross-section
Standard frame + narrow leaf




K520012 frame, K520140 leaf,
K520052 transom

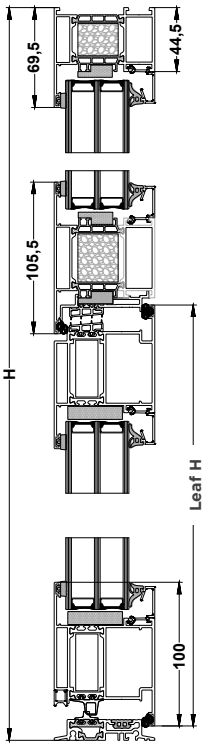
Vertical cross-section
Standard frame + standard leaf




K520012 frame, K520144 leaf,
K520052 transom

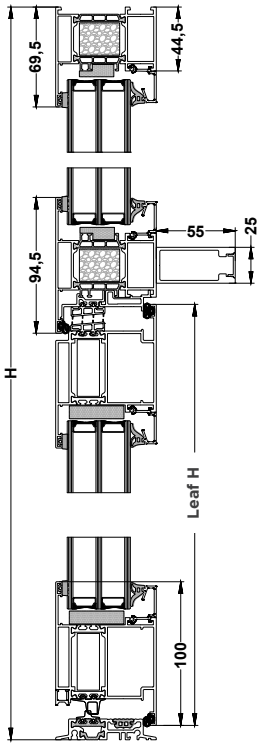
## Cross-sections

Vertical cross-section
Standard frame + standard leaf



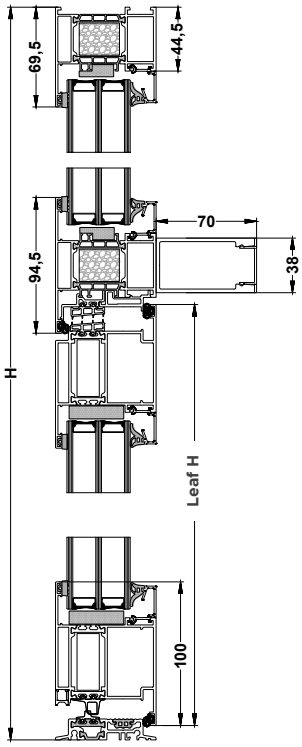

K520012 frame, K520144 leaf, K520053 transom

Vertical cross-section
Standard frame + standard leaf



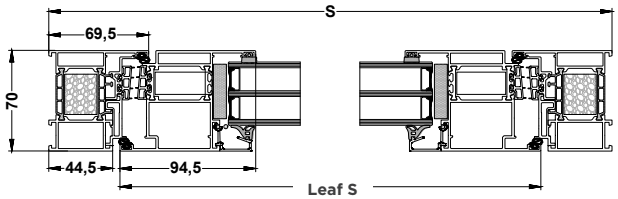

K520012 frame, K520144 leaf, K520052 transom + K433872 reinforcement on the inside

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

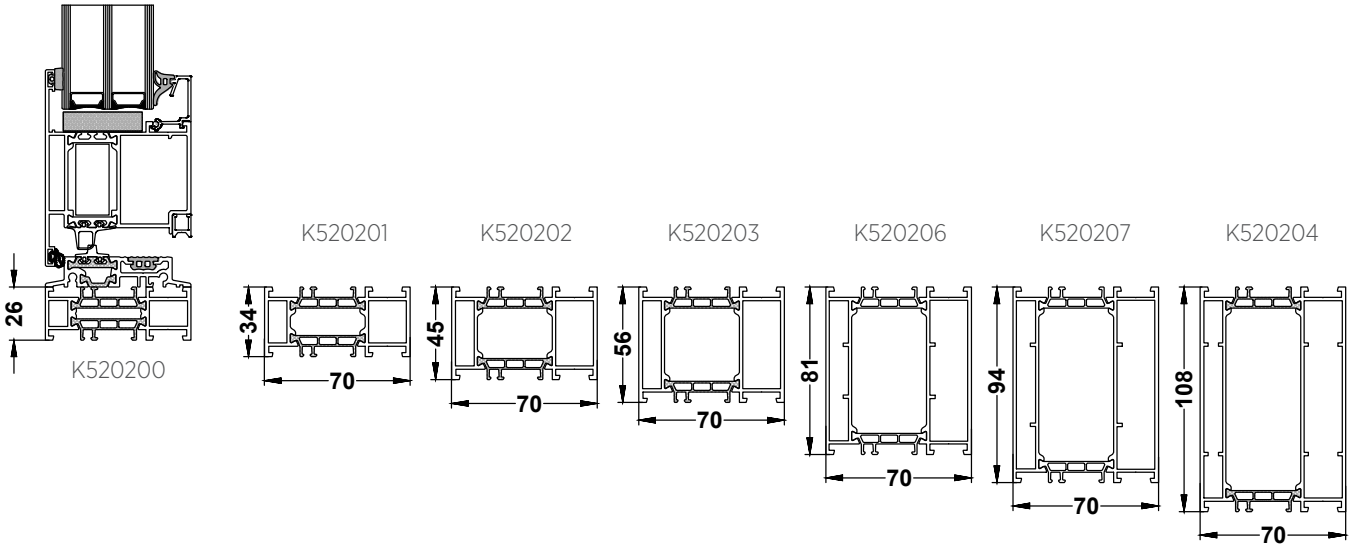



K520012 frame, K520140 leaf

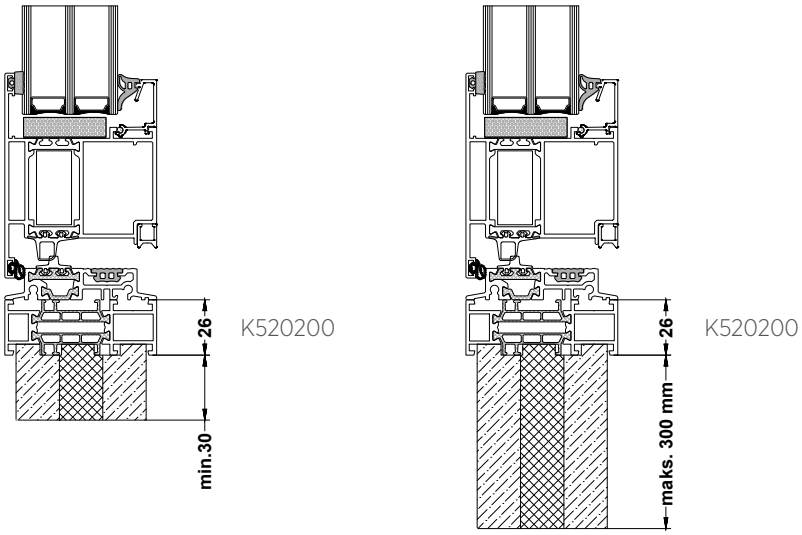
## PROFILE AND SYSTEM ELEMENT CROSS-SECTIONS

### 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]

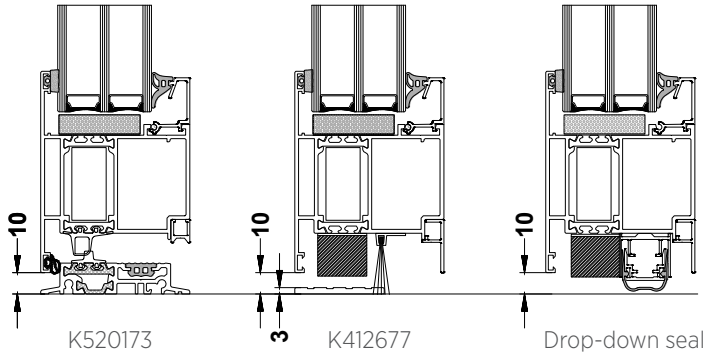



### System widening 25.5 mm + system threshold sill 30-300 mm

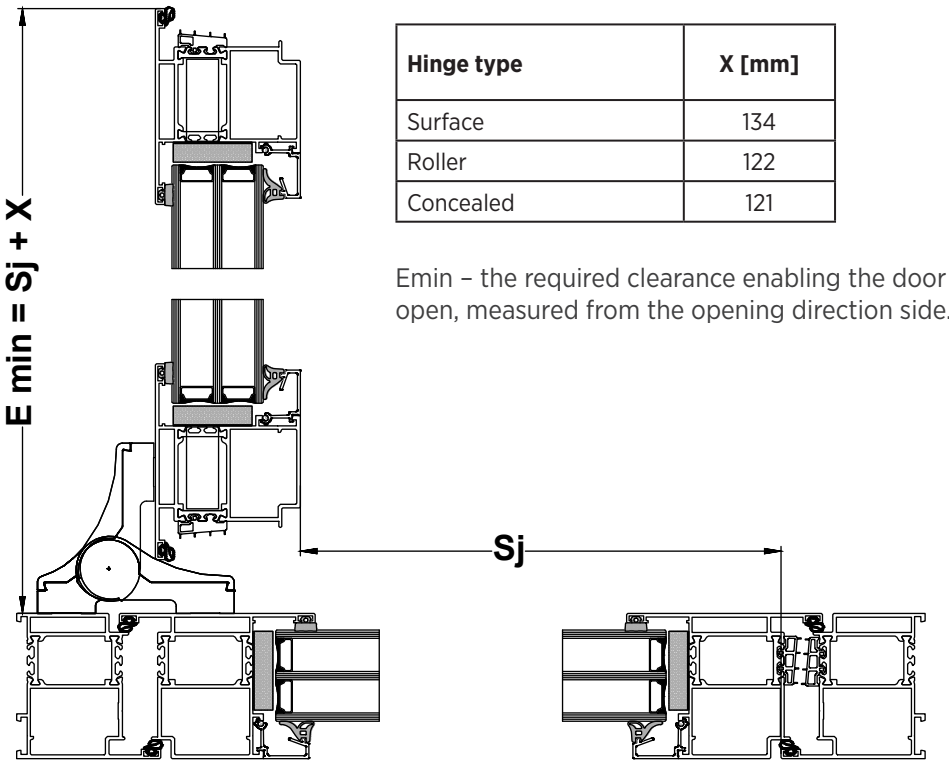



As standard, when a threshold sill is selected, a 26 mm widening is added first, followed by the threshold sill. The overall dimension includes both the widening and the threshold sill.

### Threshold solutions



## Minimum door leaf opening clearance (Emin) depending on the hinge type



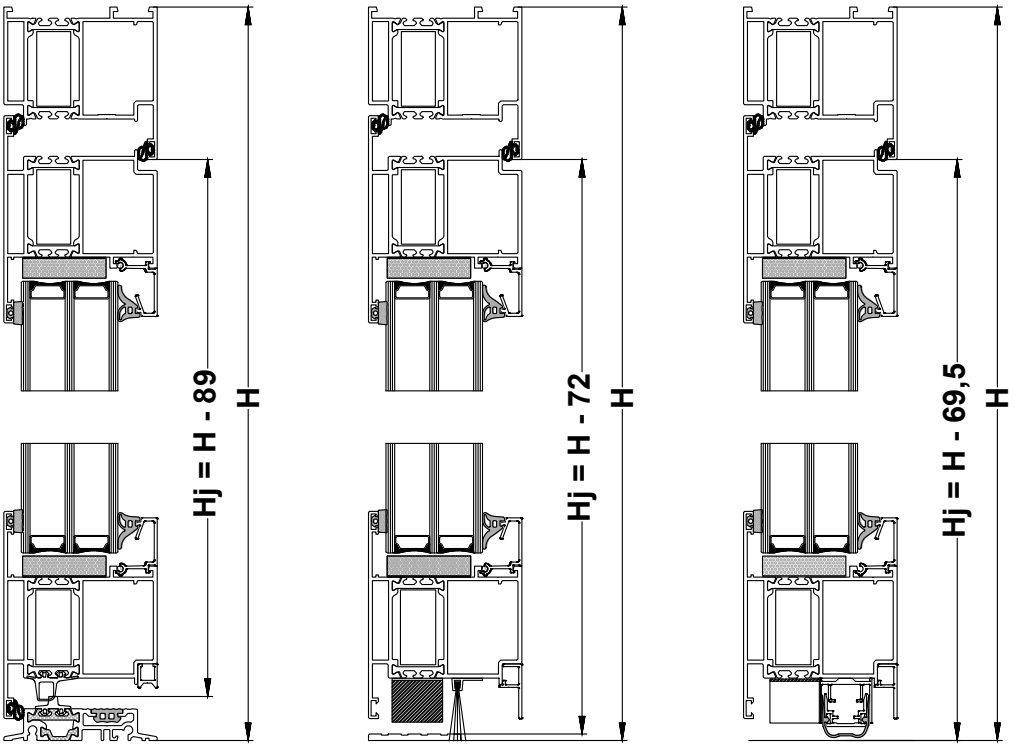

| Hinge type | X [mm] |
|---|---|
| Surface | 134 |
| Roller | 122 |
| Concealed | 121 |

Emin – the required clearance enabling the door leaf to open, measured from the opening direction side.

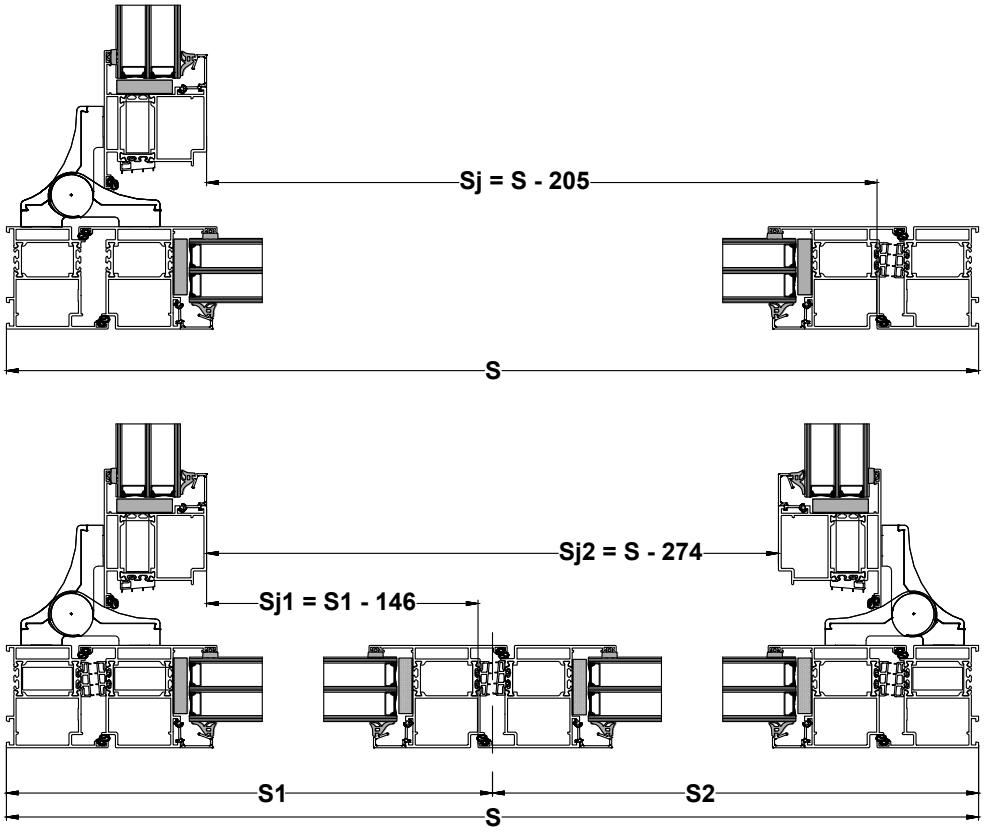
## CLEAR PASSAGE

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

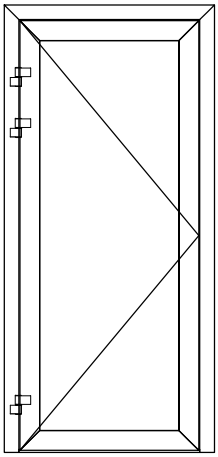


## Clear passage – surface hinge

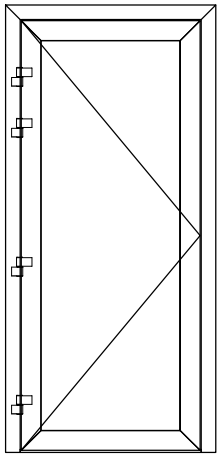



Surface hinges – approximate position

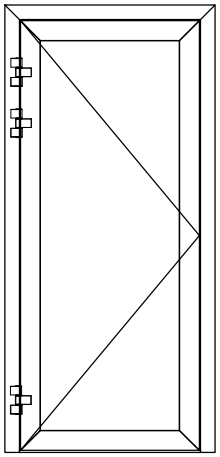
3 surface hinges 2 leafs



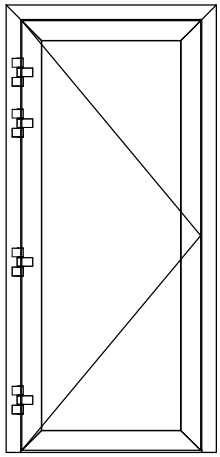
4 surface hinges 2 leafs



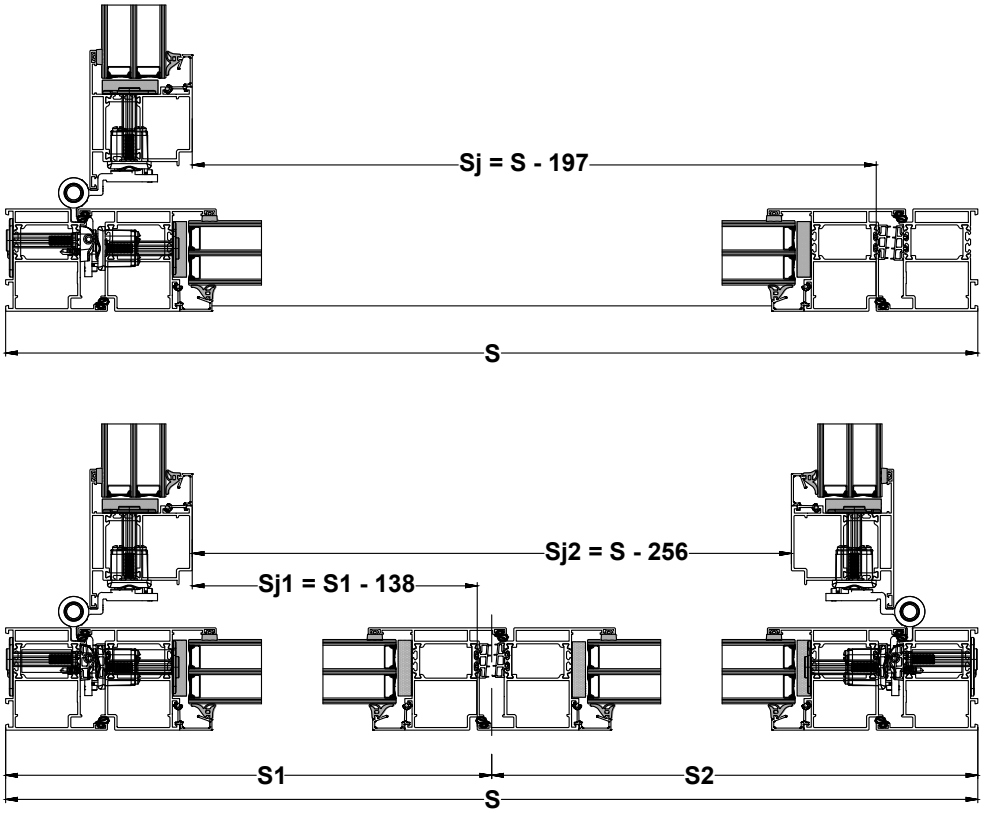
3 surface hinges 3 leafs



4 surface hinges 3 leafs

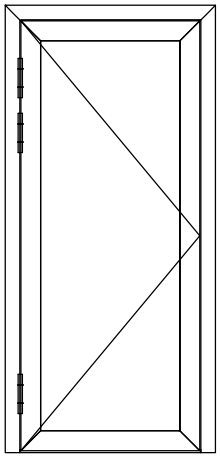


## Clear passage – roller hinge

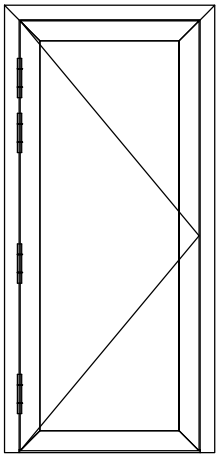



Roller hinges – approximate position

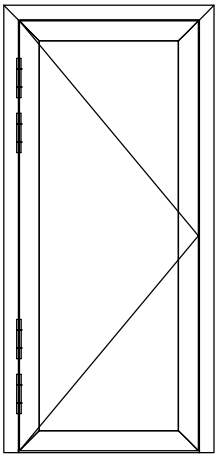
3 roller hinges



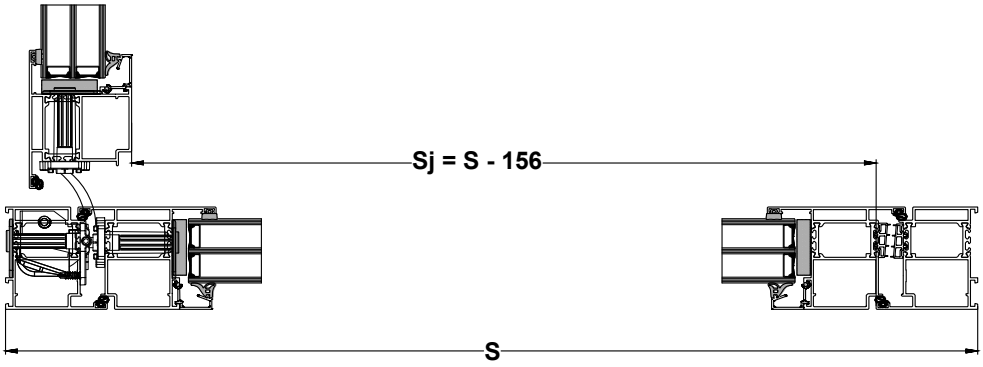
4 roller hinges

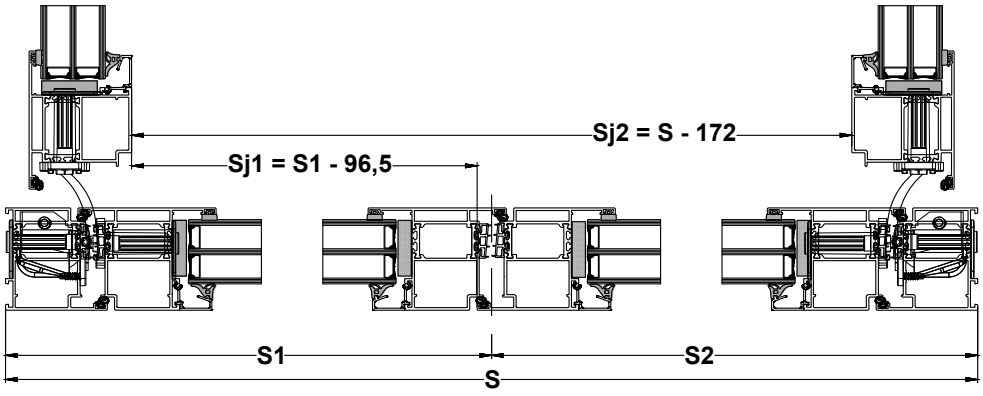


4 roller hinges (834/834p)



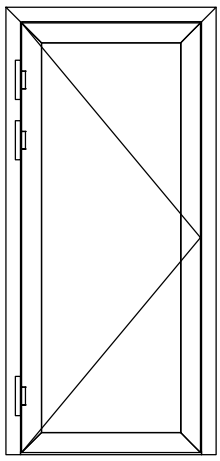
## Clear passage – concealed hinge



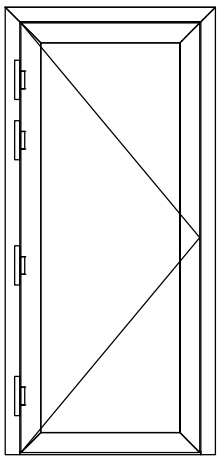




Concealed hinges – approximate position

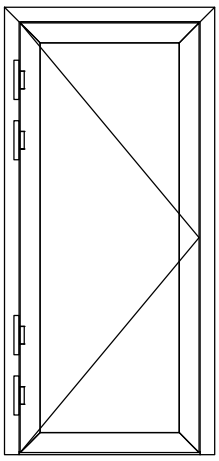
3 concealed hinges



4 concealed hinges



4 concealed hinges (834/834p)



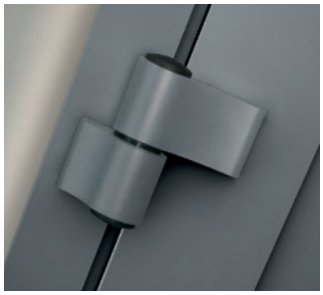
## SYSTEM LIMITATIONS

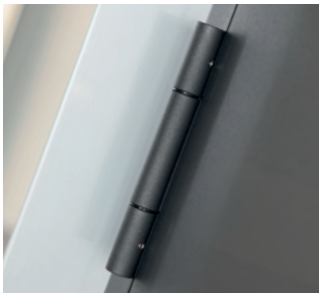
### Structural and system limitations for the FUTURO 79 doors

| | | 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

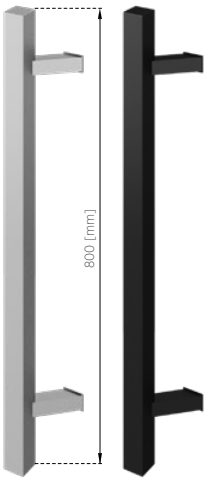

D-116 handle-pull design
INOX
split cover plate


Denver handle-pull design, stainless steel
long cover plate

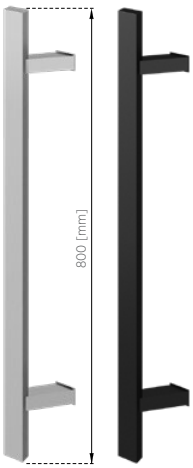

Liverpool handle-pull design
colour: silver
long cover plate


Liverpool III handle design
colour: mat black
split cover plate

### Pull types:



Q45R 4v40

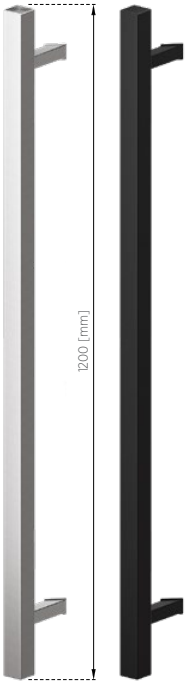


Q45R 40x20


Sensor located on the outer side of the pull.

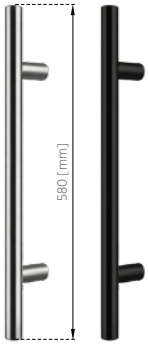

Button activating the day latch function.

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.

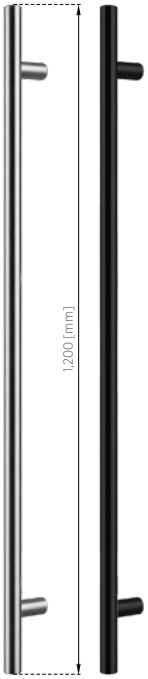



Q45 4v40

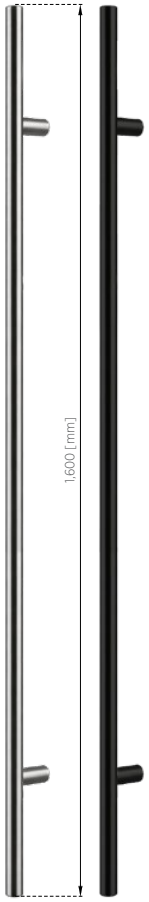

Q45 40x20



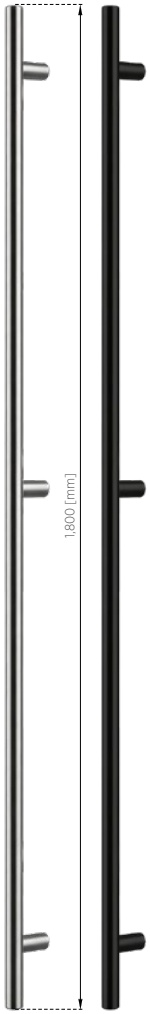

P45




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)

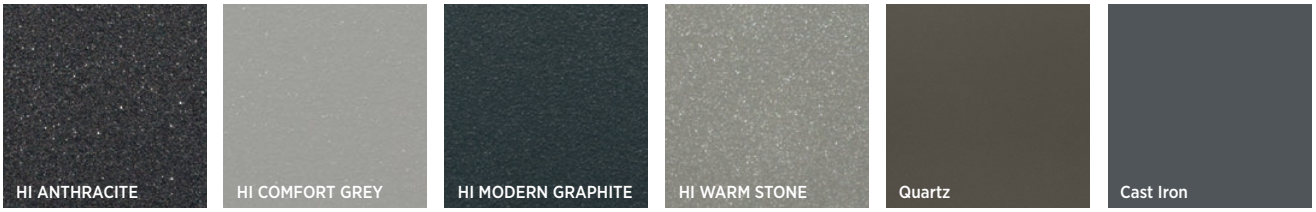
The WIŚNIOWSKI Connected system, as well as access control systems or the day latch function can be used when a lock with an electric motor (Autotronic) is used.

## 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**

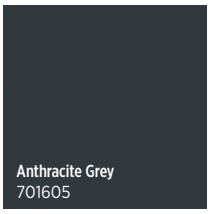
## Special colours (mat structure)


## Special RAL colours (mat structure and smooth mat)

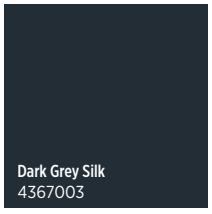
RAL 1001, RAL 1003, RAL 1004, RAL 1011, RAL 1014, RAL 1015, RAL 1016, RAL 1018, RAL 1019, RAL 1021, RAL 1023, RAL 1028, RAL 1032, RAL 2000, RAL 2001, RAL 2002, RAL 2003, RAL 2004, RAL 2008, RAL 2009, RAL 2010, RAL 2011, RAL 3001, RAL 3002, RAL 3003, RAL 3004, RAL 3005, RAL 3007, RAL 3009, RAL 3011, RAL 3012, RAL 3013, RAL 3016, RAL 3018, RAL 3020, RAL 3031, RAL 4004, RAL 4005, RAL 4006, RAL 4007, RAL 4008, RAL 4010, RAL 5000, RAL 5001, RAL 5002, RAL 5005, RAL 5007, RAL 5008, RAL 5009, RAL 5010, RAL 5011, RAL 5012, RAL 5013, RAL 5014, RAL 5015, RAL 5017, RAL 5018, RAL 5019, RAL 5021, RAL 5023, RAL 5024, RAL 6001, RAL 6003, RAL 6004, RAL 6007, RAL 6008, RAL 6011, RAL 6013, RAL 6014, RAL 6015, RAL 6016, RAL 6017, RAL 6018, RAL 6019, RAL 6021, RAL 6022, RAL 6027, RAL 6029, RAL 6033, RAL 6034, RAL 7000, RAL 7001, RAL 7002, RAL 7003, RAL 7004, RAL 7005, RAL 7008, RAL 7009, RAL 7010, RAL 7011, RAL 7012, RAL 7013, RAL 7015, RAL 7022, RAL 7023, RAL 7030, RAL 7031, RAL 7032, RAL 7033, RAL 7034, RAL 7036, RAL 7038, RAL 7039, RAL 7040, RAL 7042, RAL 7044, RAL 7045, RAL 7046, RAL 8000, RAL 8001, RAL 8002, RAL 8003, RAL 8004, RAL 8007, RAL 8008, RAL 8012, RAL 8015, RAL 8016, RAL 8017, RAL 8019, RAL 8022, RAL 8023, RAL 8024, RAL 8025, RAL 8028, RAL 9002, RAL 9003, RAL 9004, RAL 9008, RAL 9011, RAL 9017, RAL 9018

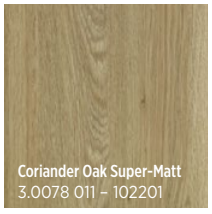
## Film coatings – standard colours



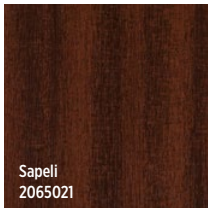



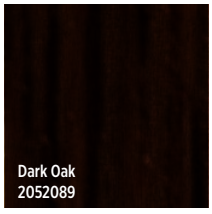


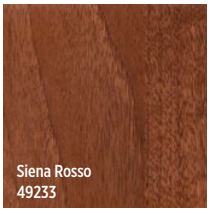



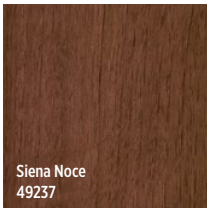

## Film coatings – non-standard colours



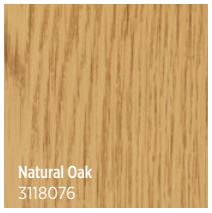



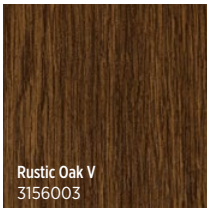


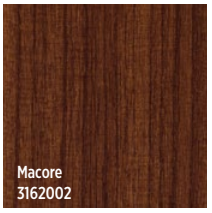


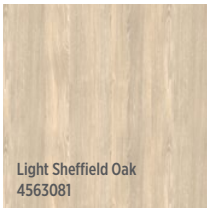



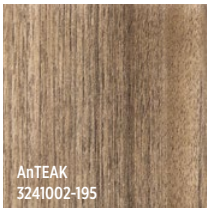


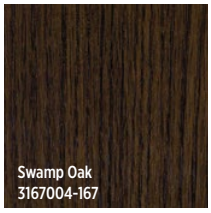


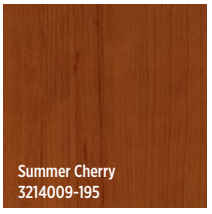



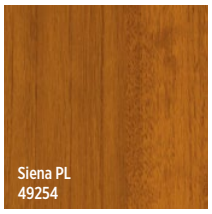



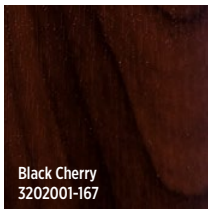





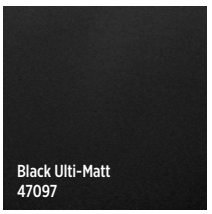










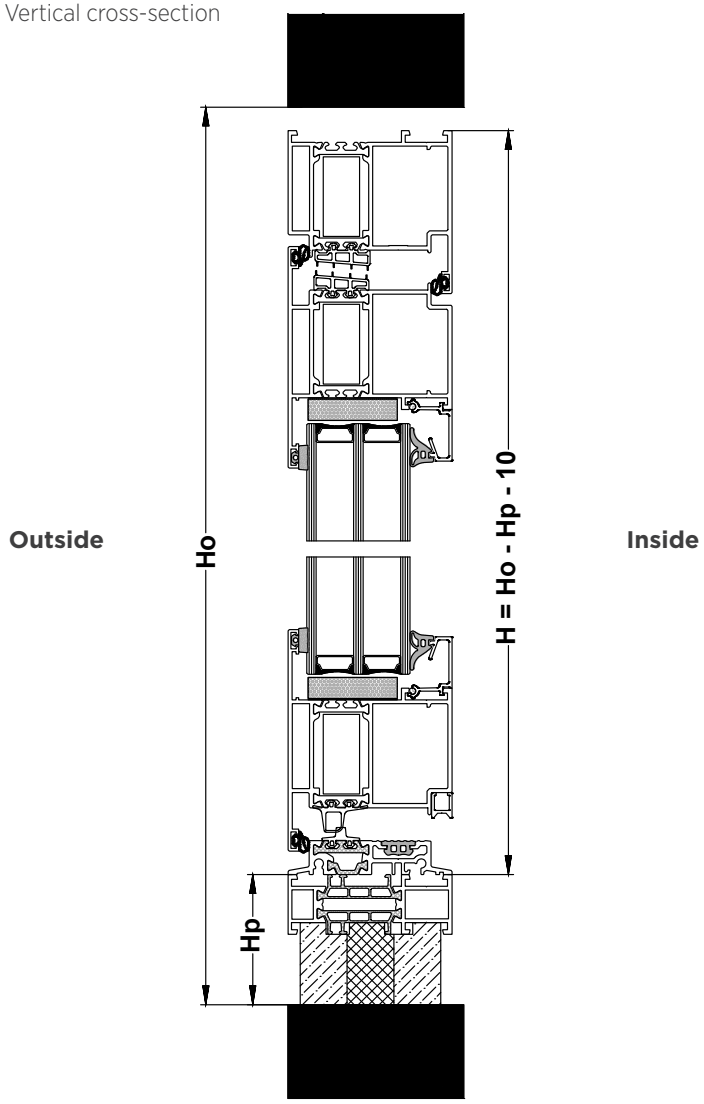


| Film coating colour | Primer and hinge colour |
|---|---|
| Golden Oak 2178001-167 | RAL 8003 Clay Brown |
| Walnut 2178007 | RAL 8011 Walnut Brown |
| Winchester 49240 | RAL 8001 Brown-Orange |
| Anthracite Grey 701605 | RAL 7016 Anthracite Grey |
| Woodec Turner Oak Malt f470-3001 | RAL 1001 Beige |
| 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

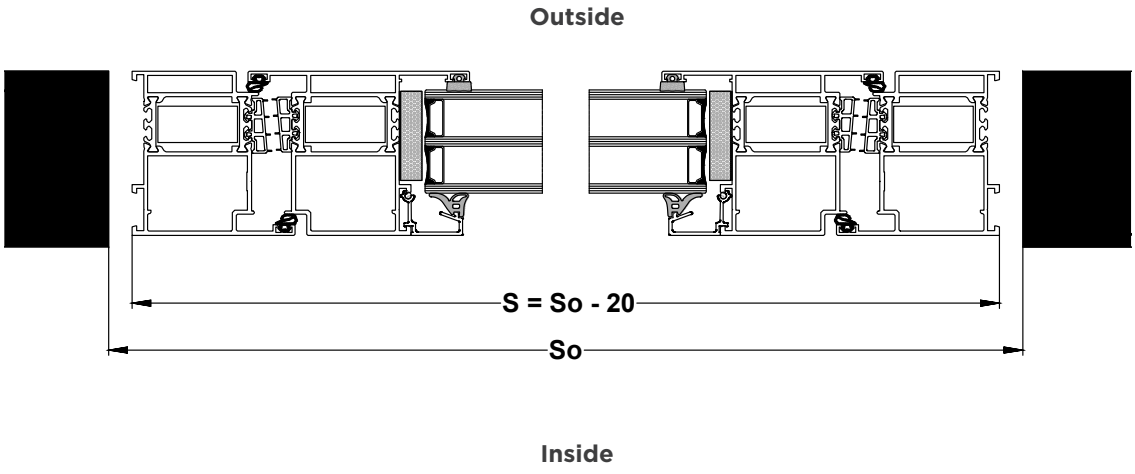
Vertical cross-section



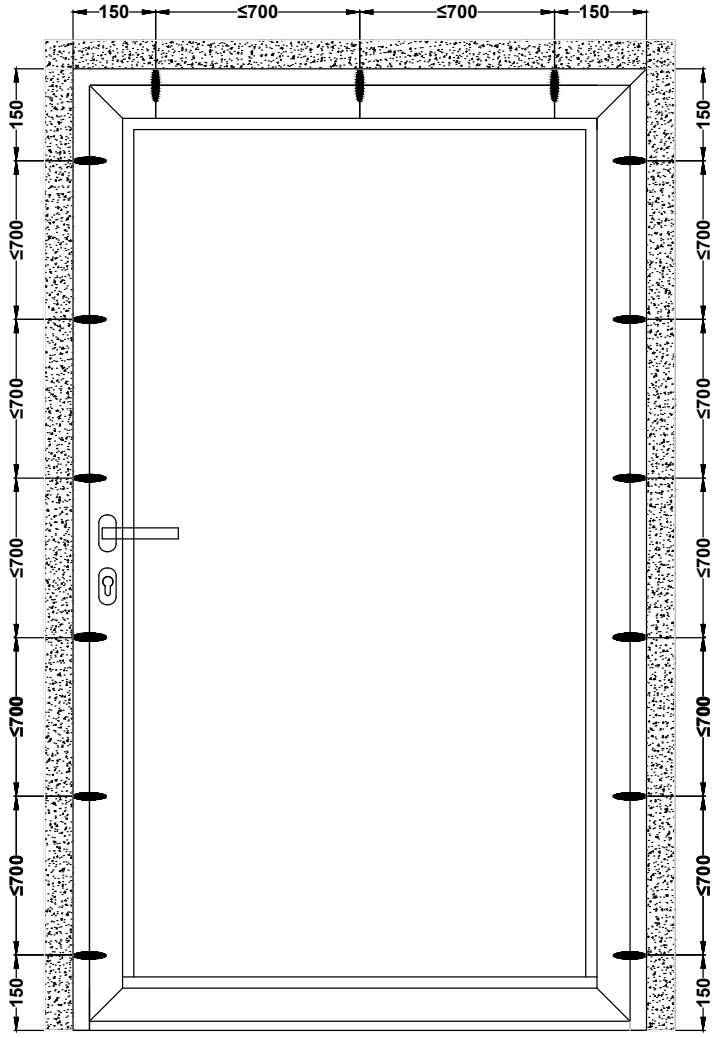

### Installation dimensions:

So – wall opening width
S – door ordering width
Ho – wall opening height
H – door ordering height
Hp – 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 leafs 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.

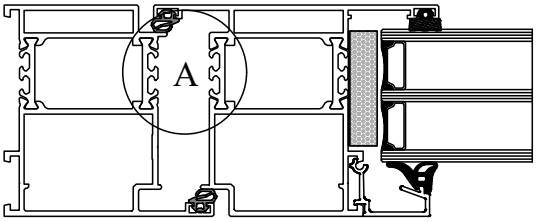
## WARM EDGE

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

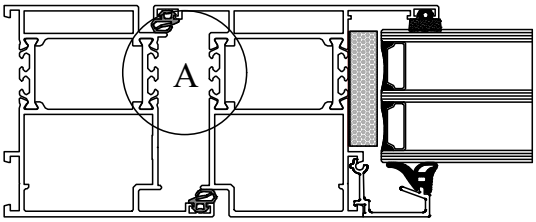
## THERMAL VARIANTS

### Thermal variant

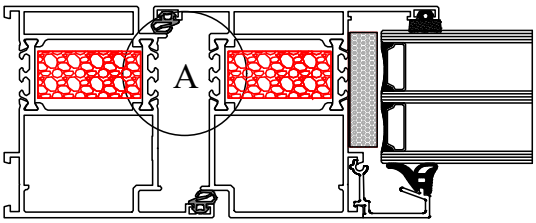
#### FUTURO 79 E




#### FUTURO 79 ST

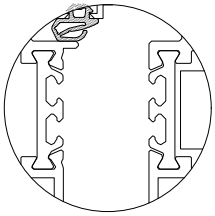



#### FUTURO 79 SI



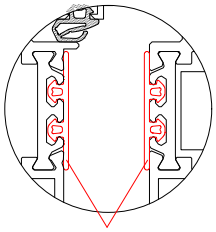

### Gasket variant

A (E, ST, SI)



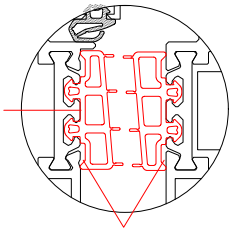
NONE

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 1,300 mm |
| Max. leaf weight | up to 160 kg |
| Widening | optional |

WIŚNIOWSKI

WIŚNIOWSKI Sp. z o.o. S.K.A.
PL 33-311 Wielogłowy 153
tel. +48 18 44 77 111

**www.wisniowski.com**

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