



## 45MM FOLDING SERIES

Aluminum exterior joinery series, for windows and doors.





### 45mm Folding Series

#### Characteristics

- High-end folding system, with features that fully meet requirements functionality, flexibility, ergonomics and quality.
- It allows for a wide variety of designs and assemblies, offering versatility in any space.
- Complete hardware line. For European channel support, it allows the use of all types of compatible hardware.
- Frame and leaf brackets to guarantee quality finish, good alignment and firmness.
- Good thermal performance and watertightness (against water and temperature).
- Accordion-type folding system, a good solution to increase or limit functionality in open spaces.

#### Geometry of the Series

- Perimeter frame of 45, 60, 70 and 105 mm wide and 46 mm high.
- 52 mm thick sheets.
- 1.4 mm and 1.5 mm thick for doors.
- 45° cut sheets.
- Joined with corner brackets.
- Total opening 41 mm.

#### Glazing

- Maximum thickness of glass or panels 26 mm and minimum 1 mm (according to glazing table).

Monolithic

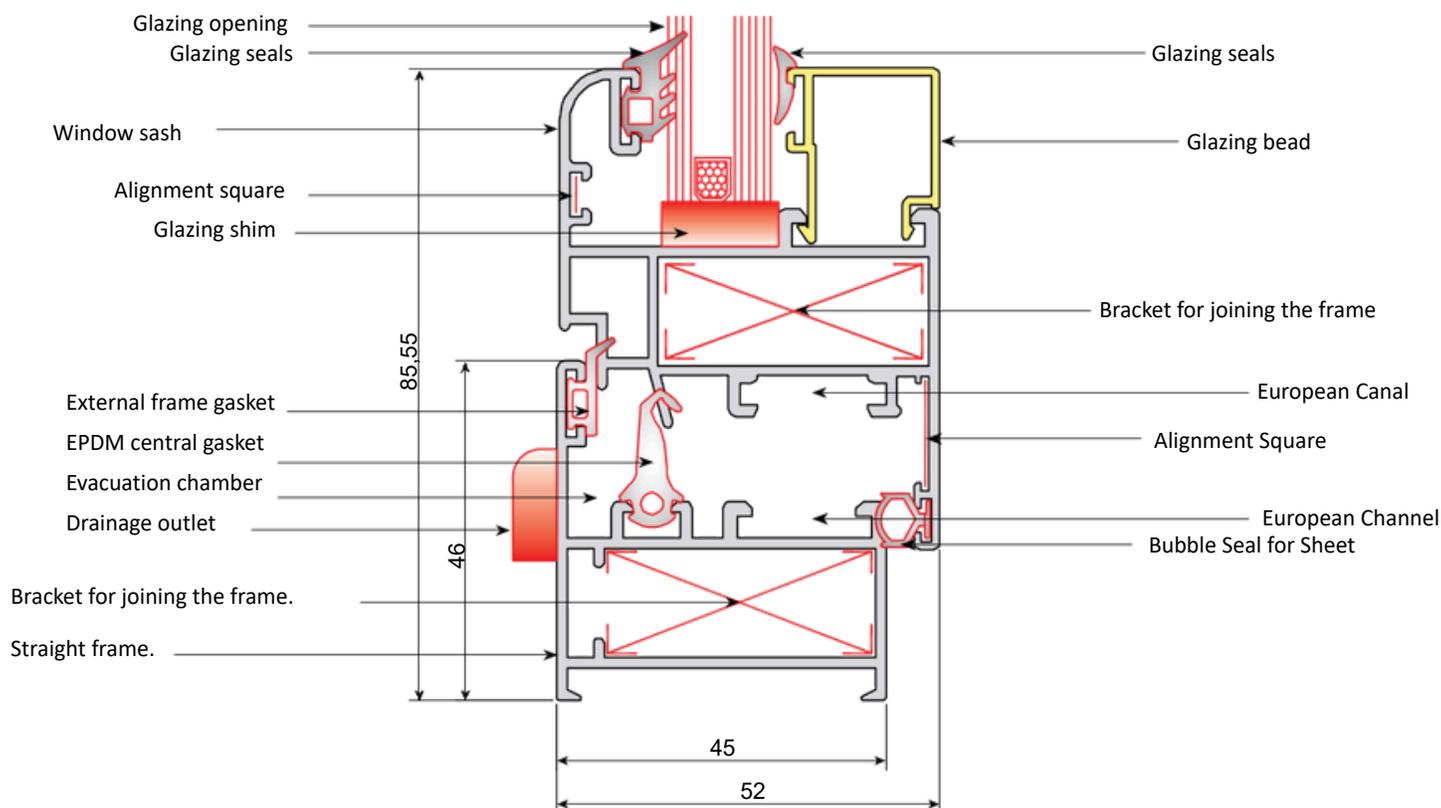
Laminate

Double



45mm hinged section with subframe and overlap

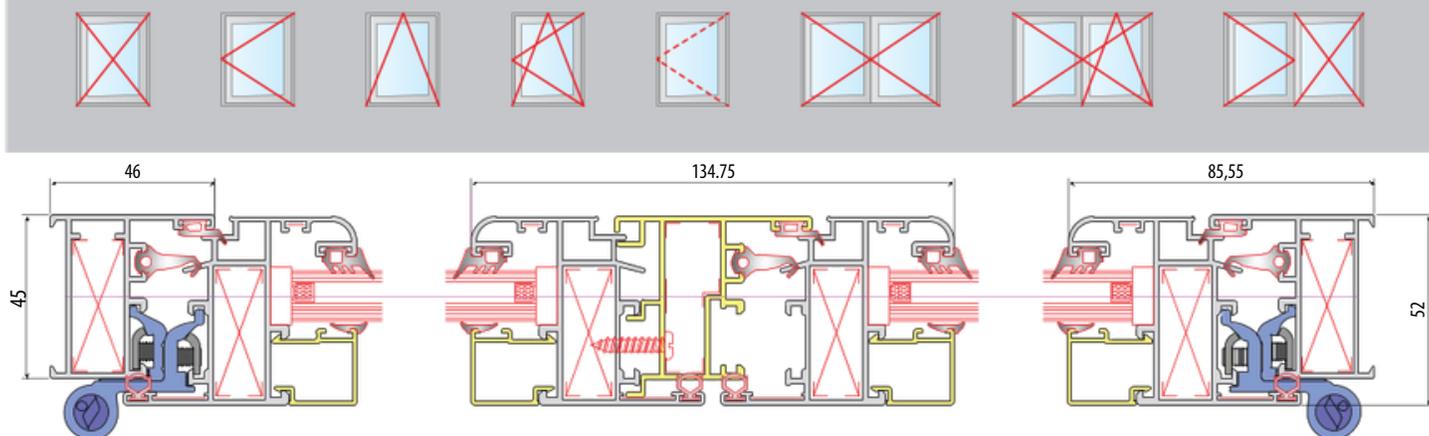
## Technical specifications Folding system 45mm



### Technical data

<b>Section width</b>	Frame width 45 mm / Leaf width 52 mm. Optionally available frame widths of 60, 70 and 105 mm.
<b>Profile thickness</b>	Thickness 1.4 – 1.6 mm.
<b>Glazing opening</b>	From 10 to 26 mm.
<b>Bead height</b>	19 mm.
<b>Type of rushes</b>	Straight clip, curved clip, and curved staple.
<b>Use</b>	Construction of 1 and 2 sash operable windows, tilt-and-turn windows and also exterior openings.
<b>Compatible series</b>	70mm perimeter sliding door. 70mm perimeter sliding door + straight cut. 60mm perimeter sliding door.
<b>Alloy of the profiles</b>	EN-AW-6060 T5 / EN-AW-6063 T5. Alloy 6060/6063 and T5, according to chemical composition standards.
<b>Finishes</b>	Available in surface treatments with a wide range of Colors and textures. Fittings for European channels, wheels, casters, rails, and rollers adapted to the system. Special extruded high-strength resins.
<b>Hardware</b>	Standard channels for European channel fittings.

## Types of opening



## Mechanical resistance

Capacity to withstand loads of the safety mechanisms

APT (350 N)

Estimated values for a 2-leaf window measuring 1230x1480mm with the indicated glazing 4/12/4. According to standard UNE-EN 14609-:2004

## Maximum dimensions

	Width		Height		Maximum weight
	1600 mm		2800 mm		per sheet: 150 kg

Maximum dimensions for a 2-leaf tilt-and-turn balcony door. Consult weight and dimensions for other types.

## Thermal Insulation

Thermal transmittance of aluminum profiles

 $IN_{H,M} = 5.7 \text{ W/m}^2\text{K}$ 

Estimated values for a 2-leaf window measuring 1230x1480mm with the indicated glazing. According to standard UNE-EN ISO 10077-1:2010

Glass	U H,V Thermal transmittance of glass	U H Thermal transmittance of the window
4/8/4	3.1 W/m <sup>2</sup> K	4.0 W/m <sup>2</sup> K
4/12/6	2.90 W/m <sup>2</sup> K	3.90 W/m <sup>2</sup> K
4/12/6 be	1.70 W/m <sup>2</sup> K	3.10 W/m <sup>2</sup> K

## Acoustic insulation

Glass (Characteristics, Rin)	4/12/6 (33 dB)	5/12/3+3 (36 dB)
Window sound reduction index (RW)	34 (-1;-3) dB	36 (-1;-3) dB

Estimated values for a 2-leaf window measuring 1230x1480mm with the indicated glazing. According to standard UNE-EN 14351-1:2006

## Mechanical technical characteristics

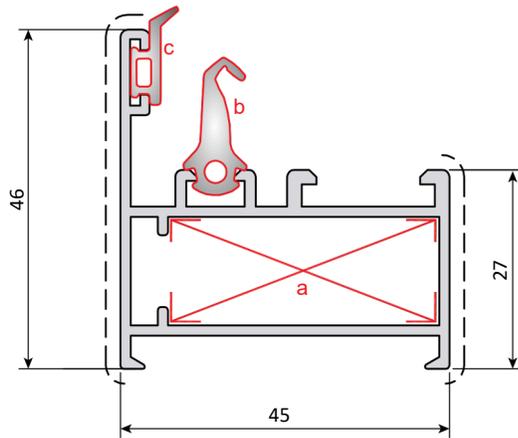
### Behavior in response to external factors.

Classification	Standard	Value
Air permeability	UNE-EN 12207:2000	Class 3
Water tightness	UNE-EN 12208:2000	Class 9A
Wind load resistance	UNE-EN 12210:2000	Class C5

Estimated values for a 2-leaf window measuring 1200x1200mm with 4/12/4 glazing.

## 45mm folding series profiles

### Window frame 45x46 mm



#### Window frame 45x46 mm

<b>Code: U004</b>	Weight (kg/m): 0.750		
Total perimeter (mm): 384	Overall thickness = 1.4		
Ext. perimeter (mm): 261	Alloy-Temper = 6063 T5		
a	UA001	b	UI001
c	UI003	d	---

Available finishes:



Natural anodized

White Lacquer

Black Anodized

Anodized Bronze

Textured lacquer

Dark grey

Wood lacquer

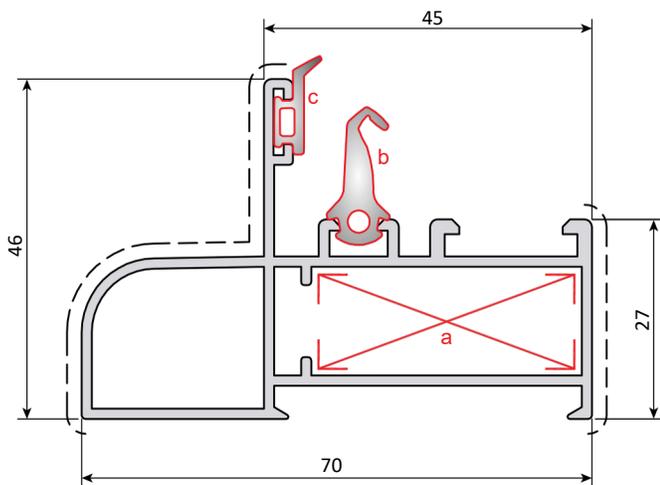
LENGTH 5.85

METERS

\*Check availability of different finishes.



### Window frame 70x46 mm



#### Window frame 70x46 mm

<b>Code: U005</b>	Weight (kg/m): 0.995		
Total perimeter (mm): 512	Overall thickness = 1.4		
Ext. perimeter (mm): 307	Alloy-Temper = 6063 T5		
a	UA001	b	UI001
c	UI003	d	---

Available finishes:



Natural anodized

White Lacquer

Black Anodized

Anodized Bronze

Textured lacquer

Dark grey

Wood lacquer

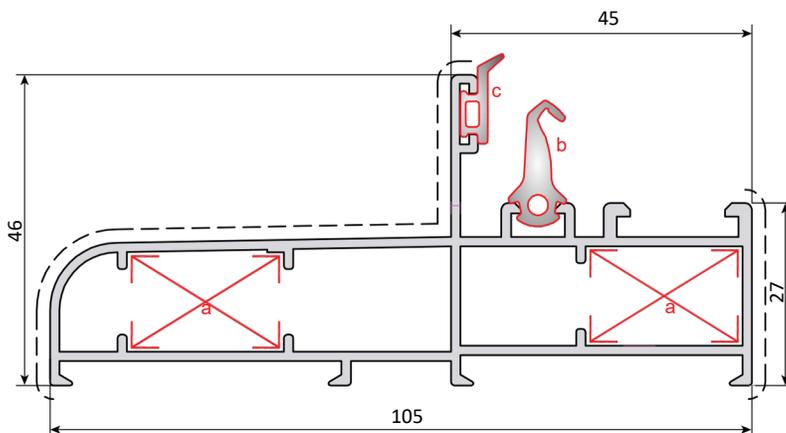
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METERS

\*Check availability of different finishes.



### Window frame 105x46 mm



#### Window frame 105x46 mm

<b>Code: U006</b>	Weight (kg/m): 1.323		
Total perimeter (mm): 682	Overall thickness = 1.4		
Ext. perimeter (mm): 396	Alloy-Temper = 6063 T5		
a	UA002	b	UI001
c	UI003	d	---

Available finishes:



Natural anodized

White Lacquer

Black Anodized

Anodized Bronze

Textured lacquer

Dark grey

Wood lacquer

LENGTH 5.85

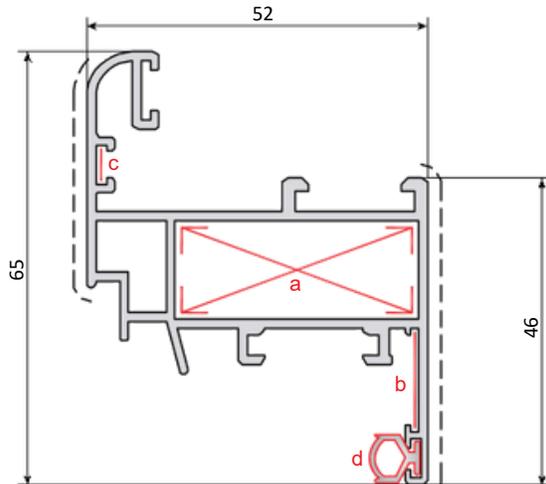
METERS

\*Check availability of different finishes.



## 45mm folding series profiles

## Casement window sash 52x65 mm



## Casement window sash 52x65 mm

<b>Code: U016</b>		Weight (kg/m): 1.050	
Total perimeter (mm): 539		Overall thickness = 1.4	
Ext. perimeter (mm): 386		Alloy-Temper = 6063 T5	
a	UA001	b	UA066
c	UA065	d	UI002

Available finishes:



Natural anodized

White Lacquer

Black Anodized

Anodized Bronze

Textured lacquer

Dark grey

Wood lacquer

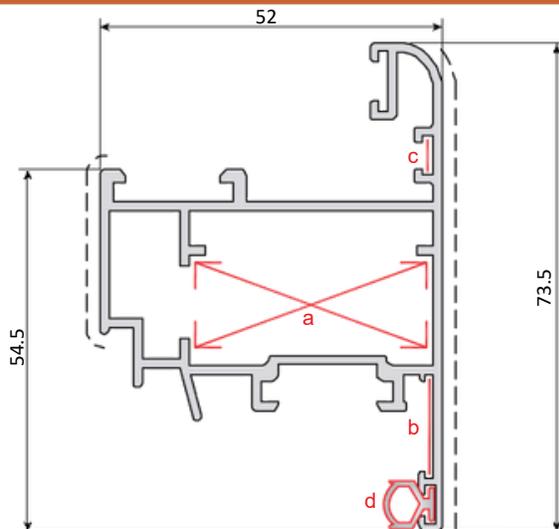
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METERS

\*Check availability of different finishes.



## Tilt and turn window sash, outward opening 52x73.5 mm



## Tilt and turn window sash, outward opening 52x73.5 mm

<b>Code: U017</b>		Weight (kg/m): 1.137	
Total perimeter (mm): 585		Overall thickness = 1.4	
Ext. perimeter (mm): 405		Alloy-Temper = 6063 T5	
a	UA001	b	UA066
c	UA065	d	UI002

Available finishes:



Natural anodized

White Lacquer

Black Anodized

Anodized Bronze

Textured lacquer

Dark grey

Wood lacquer

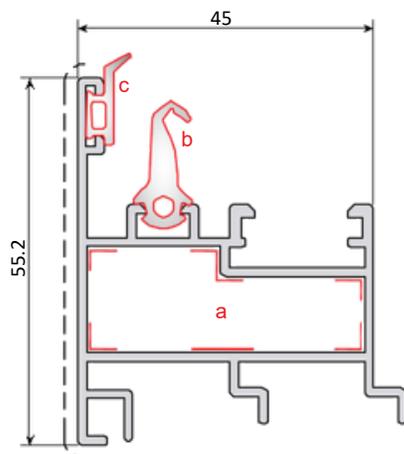
LENGTH 5.85

METERS

\*Check availability of different finishes.



## Leaf inverter



## Leaf inverter

<b>Code: U018</b>		Weight (kg/m): 0.940	
Total perimeter (mm): 484		Overall thickness = 1.4	
Ext. perimeter (mm): 368		Alloy-Temper = 6063 T5	
a	UA059	b	UI001
c	UI003	d	---

Available finishes:



Natural anodized

White Lacquer

Black Anodized

Anodized Bronze

Textured lacquer

Dark grey

Wood lacquer

LENGTH 5.85

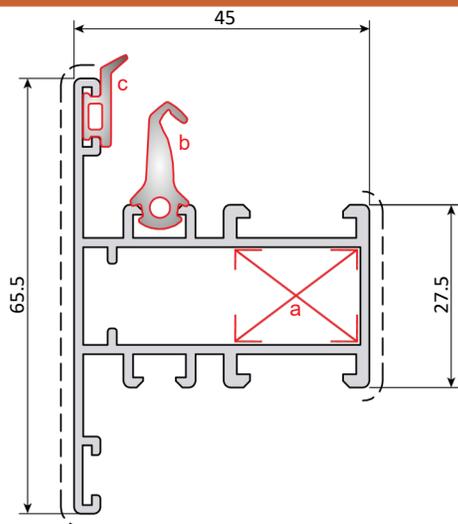
METERS

\*Check availability of different finishes.



## 45mm folding series profiles

### Window crossbar 45x65.5 mm



#### Window crossbar 45x65.5 mm

<b>Code: U019</b>	Weight (kg/m): 0.940		
Total perimeter (mm): 474	Overall thickness = 1.4		
Ext. perimeter (mm): 351	Alloy-Temper = 6063 T5		
a	UA064	b	UI001
c	UI003	d	---

Available finishes:

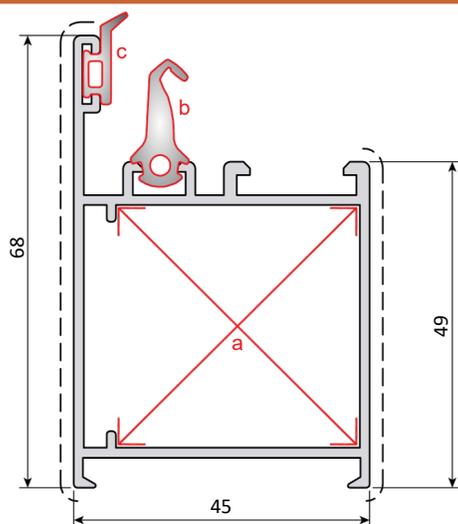


LENGTH 5.85  
METERS

\*Check availability of different finishes.



### Door frame 45 mm



#### Door frame 45 mm

<b>Code: U020</b>	Weight (kg/m): 0.961		
Total perimeter (mm): 471	Overall thickness = 1.5		
Ext. perimeter (mm): 305	Alloy-Temper = 6063 T5		
a	UA068	b	UI001
c	UI003	d	---

Available finishes:

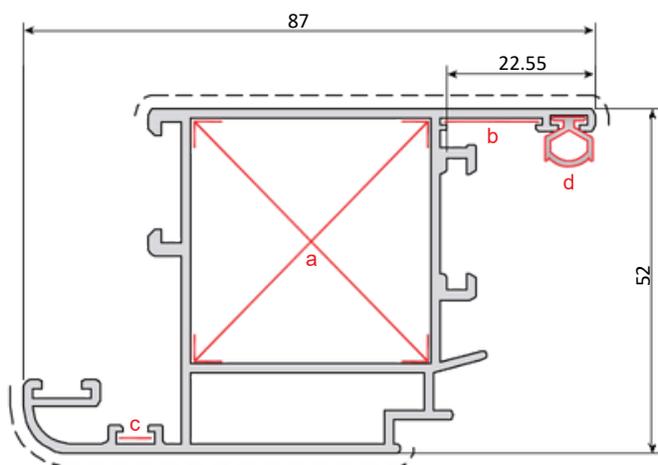


LENGTH 5.85  
METERS

\*Check availability of different finishes.



### Hinged door leaf 52x87 mm



#### Hinged door leaf 52x87 mm

<b>Code: U021</b>	Weight (kg/m): 1.339		
Total perimeter (mm): 668	Overall thickness = 1.4		
Ext. perimeter (mm): 429	Alloy-Temper = 6063 T5		
a	UA068	b	UA066
c	UA065	d	UI002

Available finishes:



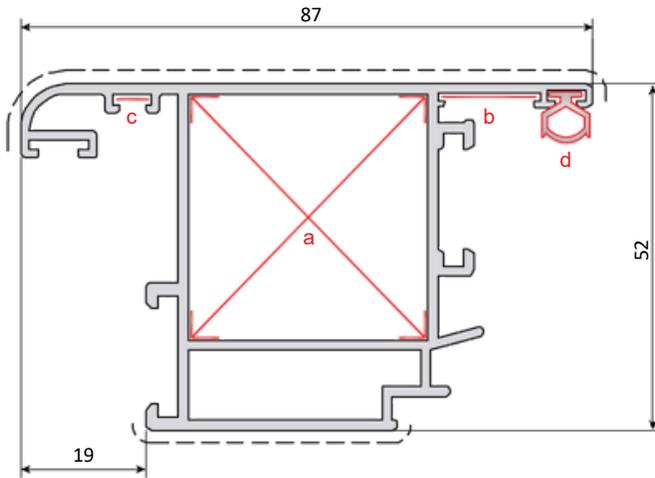
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METERS

\*Check availability of different finishes.



### 45mm folding series profiles

#### Door leaf Ab. 52x87 mm, outward opening



#### Door leaf Ab. 52x87 mm, outward opening

<b>Code: U022</b>		Weight (kg/m): 1.339	
Total perimeter (mm): 668		Overall thickness = 1.5	
Ext. perimeter (mm): 429		Alloy-Temper = 6063 T5	
a	UA068	b	UA066
c	UI065	d	UI002

Available finishes:



Natural anodized

White Lacquer

Black Anodized

Anodized Bronze

Textured lacquer  
Dark grey

Wood lacquer

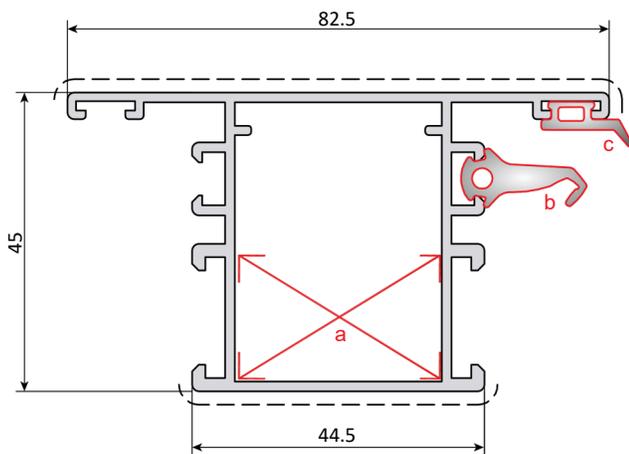
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METERS

\*Check availability of different finishes.



#### Door crossbar 45x82.5 mm



#### Door crossbar 45x82.5 mm

<b>Code: U023</b>		Weight (kg/m): 1.117	
Total perimeter (mm): 541		Overall thickness = 1.5	
Ext. perimeter (mm): 385		Alloy-Temper = 6063 T5	
a	UA067	b	UI001
c	UI003	d	---

Available finishes:



Natural anodized

White Lacquer

Black Anodized

Anodized Bronze

Textured lacquer  
Dark grey

Wood lacquer

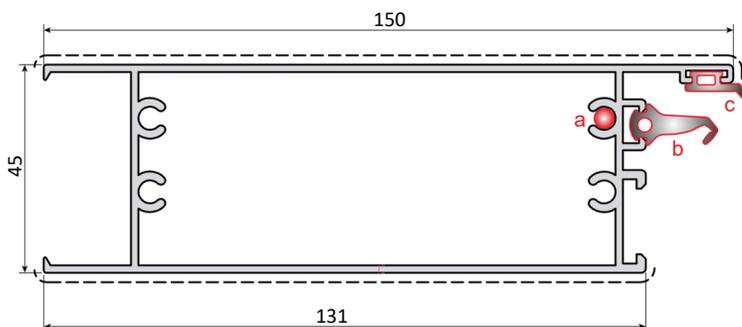
LENGTH 5.85

METERS

\*Check availability of different finishes.



#### Lower door skirting board 45x150 mm



#### Lower door skirting board 45x150 mm

<b>Code: U024</b>		Weight (kg/m): 1.959	
Total perimeter (mm): 878		Overall thickness = 1.6	
Ext. perimeter (mm): 497		Alloy-Temper = 6063 T5	
a	Screw R/Ch D-6.3	b	UI001
c	UI003	d	---

Available finishes:



Natural anodized

White Lacquer

Black Anodized

Anodized Bronze

Textured lacquer  
Dark grey

Wood lacquer

LENGTH 5.85

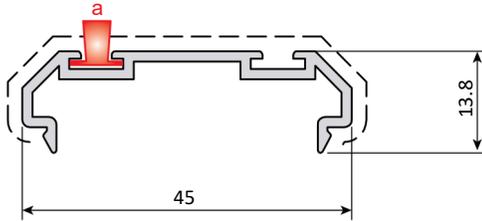
METERS

\*Check availability of different finishes.



### 45mm folding series profiles

#### Cover for 45 mm frame, with felt



#### Cover for 45 mm frame, with felt

<b>Code: U028</b>		Weight (kg/m): 0.315	
Total perimeter (mm): 172		Overall thickness = 1.4	
Ext. perimeter (mm): 172		Alloy-Temper = 6063 T5	
a	UA012	b	---
c	---	d	---

Available finishes:



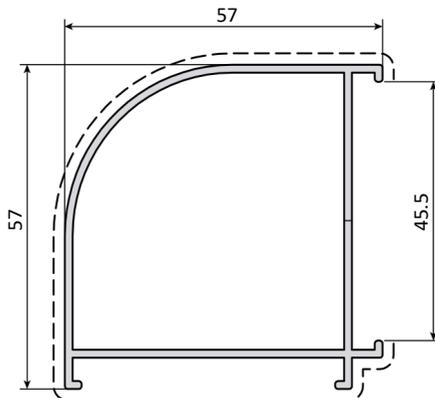
LENGTH 5.85

METERS

\*Check availability of different finishes.



#### 90° corner piece for 45 mm frame



#### 90° corner piece for 45 mm frame

<b>Code: U026</b>		Weight (kg/m): 0.815	
Total perimeter (mm): 430		Overall thickness = 1.4	
Ext. perimeter (mm): 247		Alloy-Temper = 6063 T5	
a	---	b	---
c	---	d	---

Available finishes:



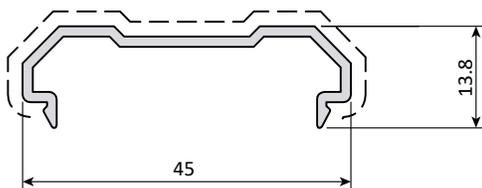
LENGTH 5.85

METERS

\*Check availability of different finishes.



#### Cover for 45 mm frame, without felt



#### Cover for 45 mm frame, without felt

<b>Code: U029</b>		Weight (kg/m): 0.268	
Total perimeter (mm): 144		Overall thickness = 1.4	
Ext. perimeter (mm): 144		Alloy-Temper = 6063 T5	
a	---	b	---
c	---	d	---

Available finishes:



LENGTH 5.85

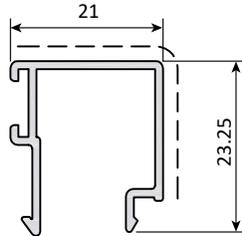
METERS

\*Check availability of different finishes.



## 45mm folding series profiles

## 21 mm straight bead



## 21 mm straight bead

<b>Code: U033</b>		Weight (kg/m): 0.230	
Total perimeter (mm): 154		Overall thickness = 1.2	
Ext. perimeter (mm): 154		Alloy-Temper = 6063 T5	
a	---	b	---
c	---	d	---

Available finishes:



Natural anodized

White Lacquer

Black Anodized

Anodized Bronze

Textured lacquer Dark grey

Wood lacquer

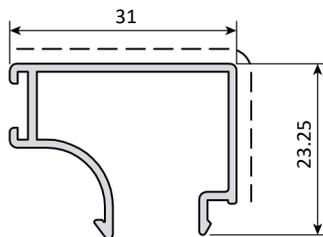
LENGTH 5.85

METERS



\*Check availability of different finishes.

## 31 mm straight bead



## 31 mm straight bead

<b>Code: U032</b>		Weight (kg/m): 0.280	
Total perimeter (mm): 187		Overall thickness = 1.2	
Ext. perimeter (mm): 187		Alloy-Temper = 6063 T5	
a	---	b	---
c	---	d	---

Available finishes:



Natural anodized

White Lacquer

Black Anodized

Anodized Bronze

Textured lacquer Dark grey

Wood lacquer

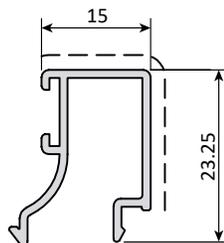
LENGTH 5.85

METERS



\*Check availability of different finishes.

## 15 mm straight bead



## 15 mm straight bead

<b>Code: U046</b>		Weight (kg/m): 0.217	
Total perimeter (mm): 145		Overall thickness = 1.1	
Ext. perimeter (mm): 145		Alloy-Temper = 6063 T5	
a	---	b	---
c	---	d	---

Available finishes:



Natural anodized

White Lacquer

Black Anodized

Anodized Bronze

Textured lacquer Dark grey

Wood lacquer

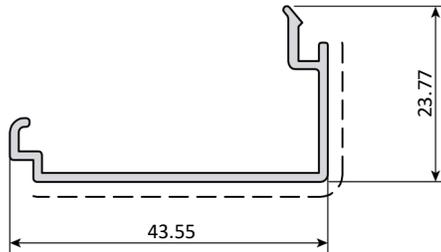
LENGTH 5.85

METERS

\*Check availability of different finishes.

## 45mm folding series profiles

## 45 mm crossbar closure



## 45 mm crossbar closure

**Code: U031**

Weight (kg/m): 0.265

Total perimeter (mm): 163

Overall thickness = 1.2

Ext. perimeter (mm): 163

Alloy-Temper = 6063 T5

a	---	b	---
c	---	d	---

Available finishes:

Natural  
anodizedWhite  
LacquerBlack  
AnodizedAnodized  
BronzeTextured  
lacquer  
Dark greyWood  
lacquer

LENGTH 5.85

METERS

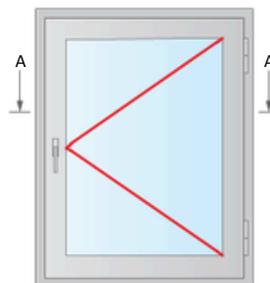
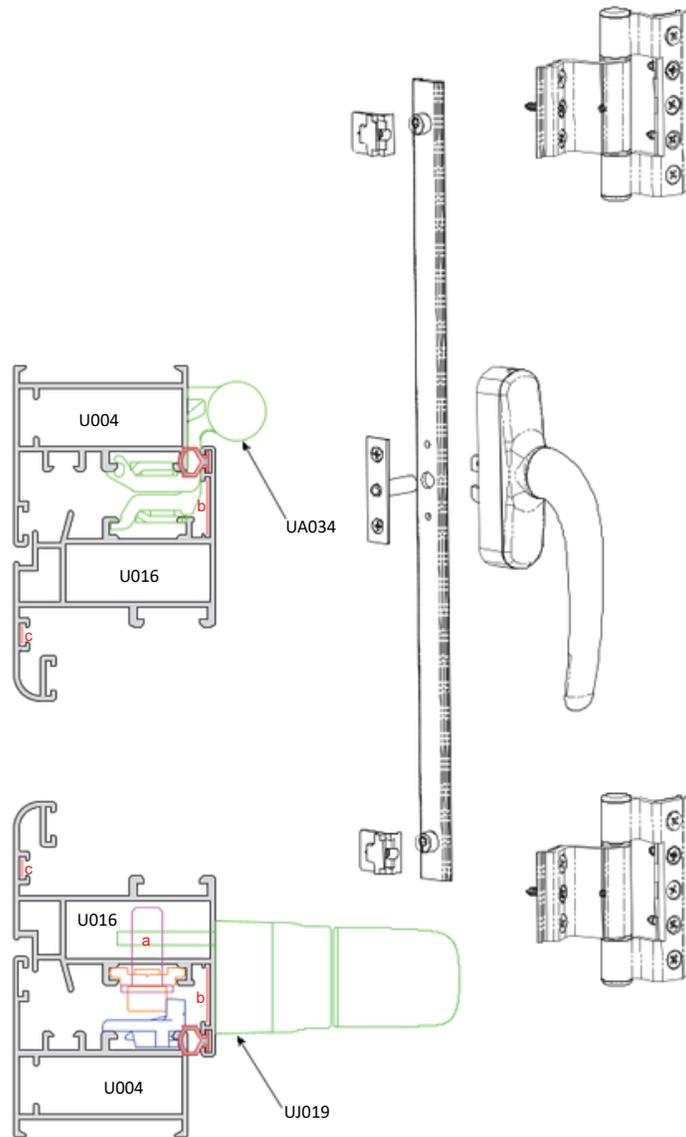
\*Check availability of different finishes.



## 45mm folding series sections

### Section A-A Views

#### CLOSING SECUREAS® Y PLUS A (INTERNAL OPENING)



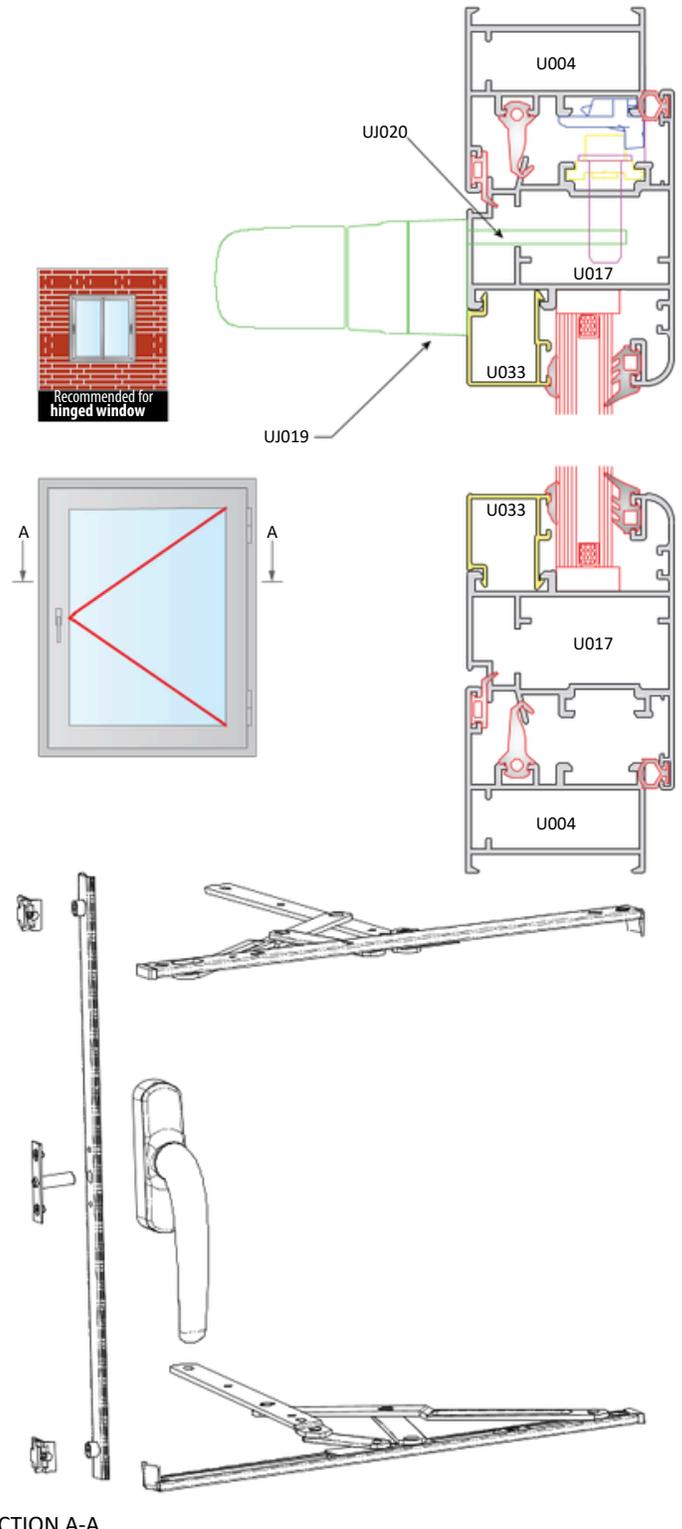
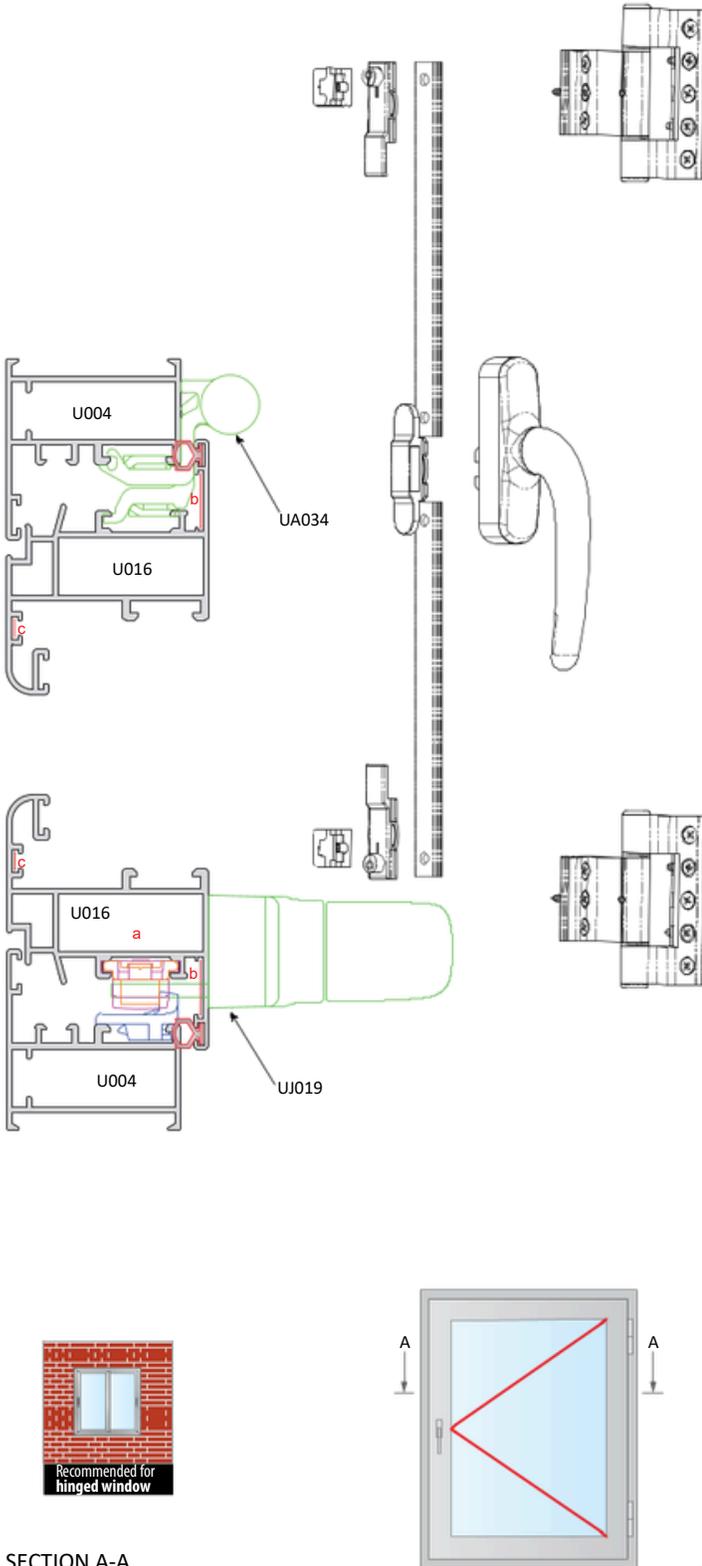
SECTION A-A

45mm folding series sections

Section A-A Views

CLOSING **SECUREAS®Y PLUS B**

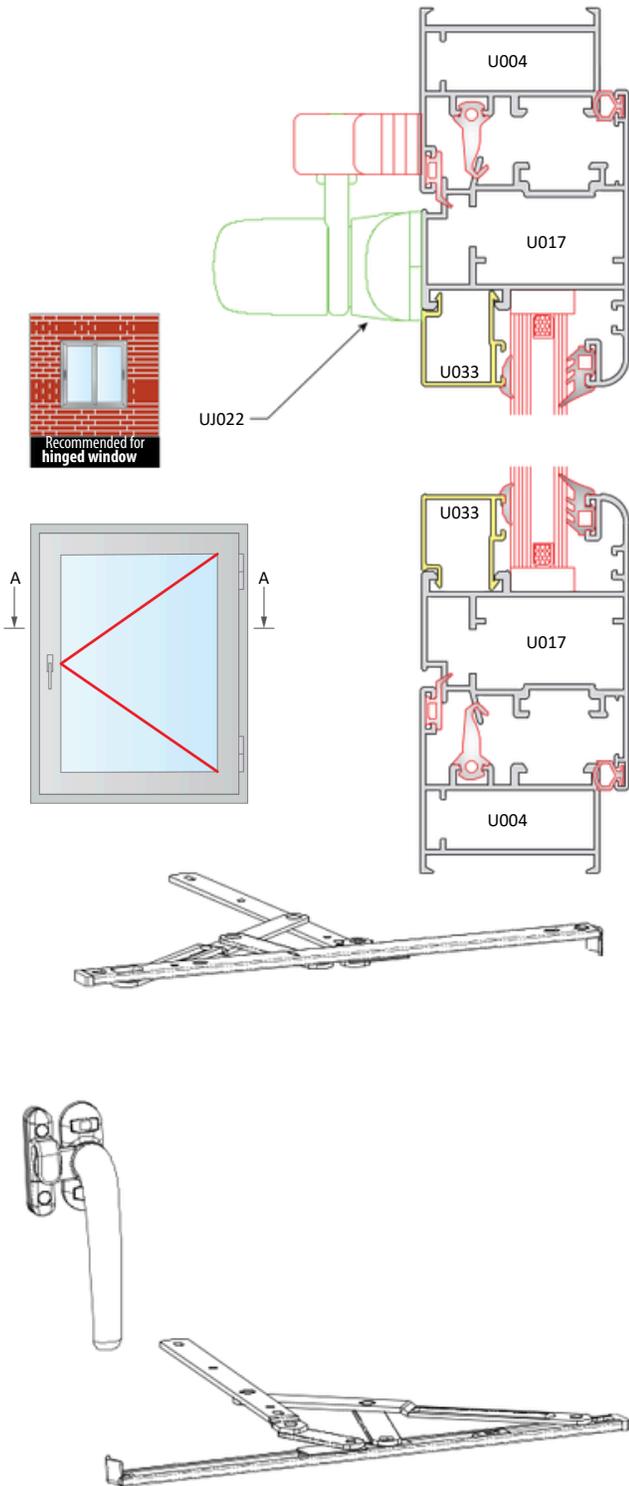
CLOSING **SECUREAS®Y PLUS A (External opening)**



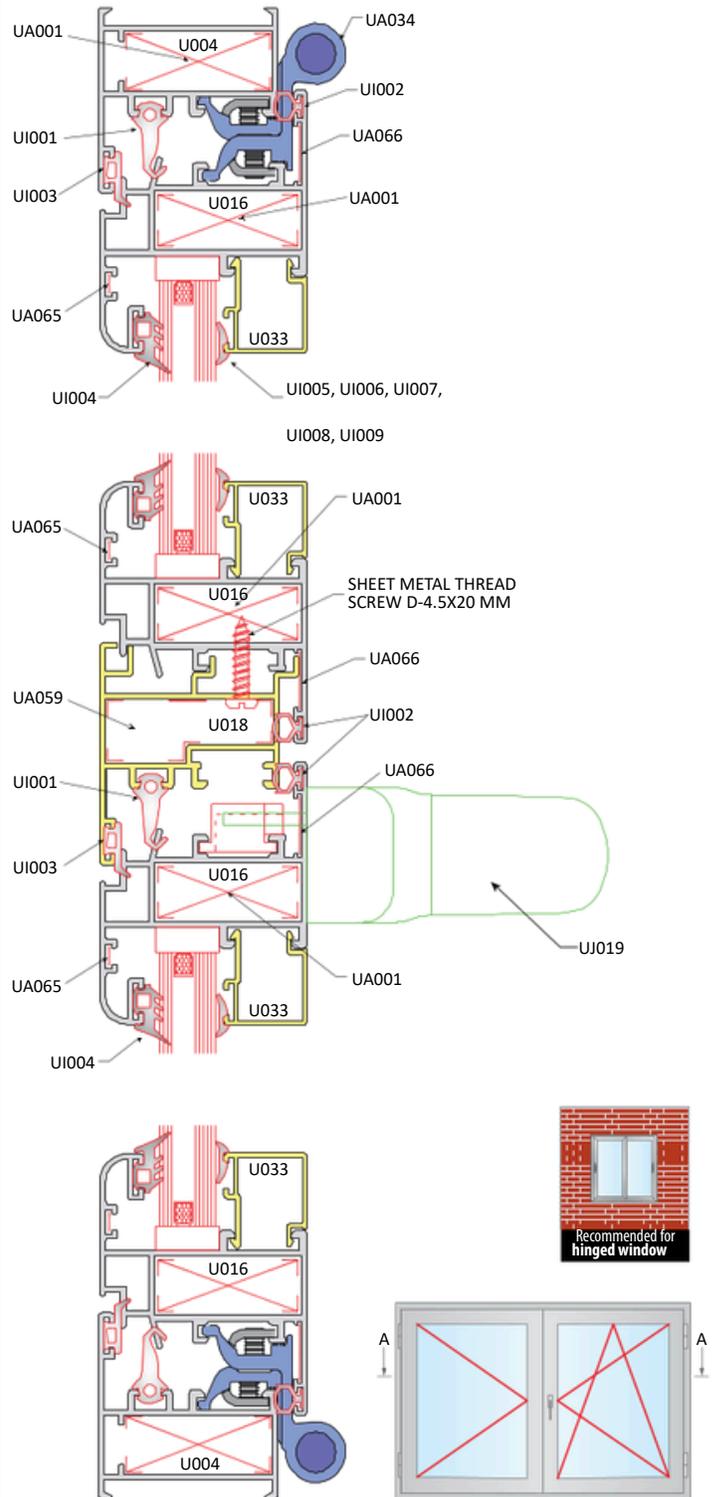
45mm folding series sections

Section A-A Views

PROJECTABLE WINDOW CLOSURE



CLOSURE FOR 2-PANEL HINGED WINDOW



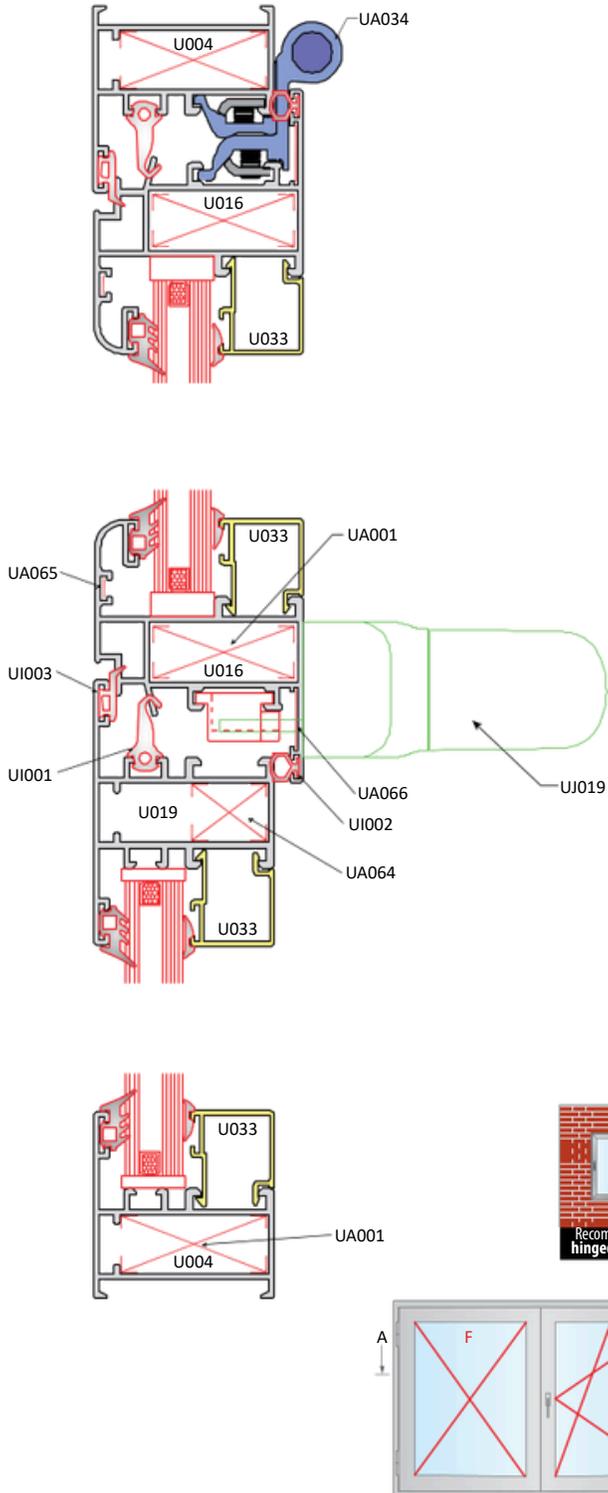
SECTION A-A

SECTION A-A

## 45mm folding series sections

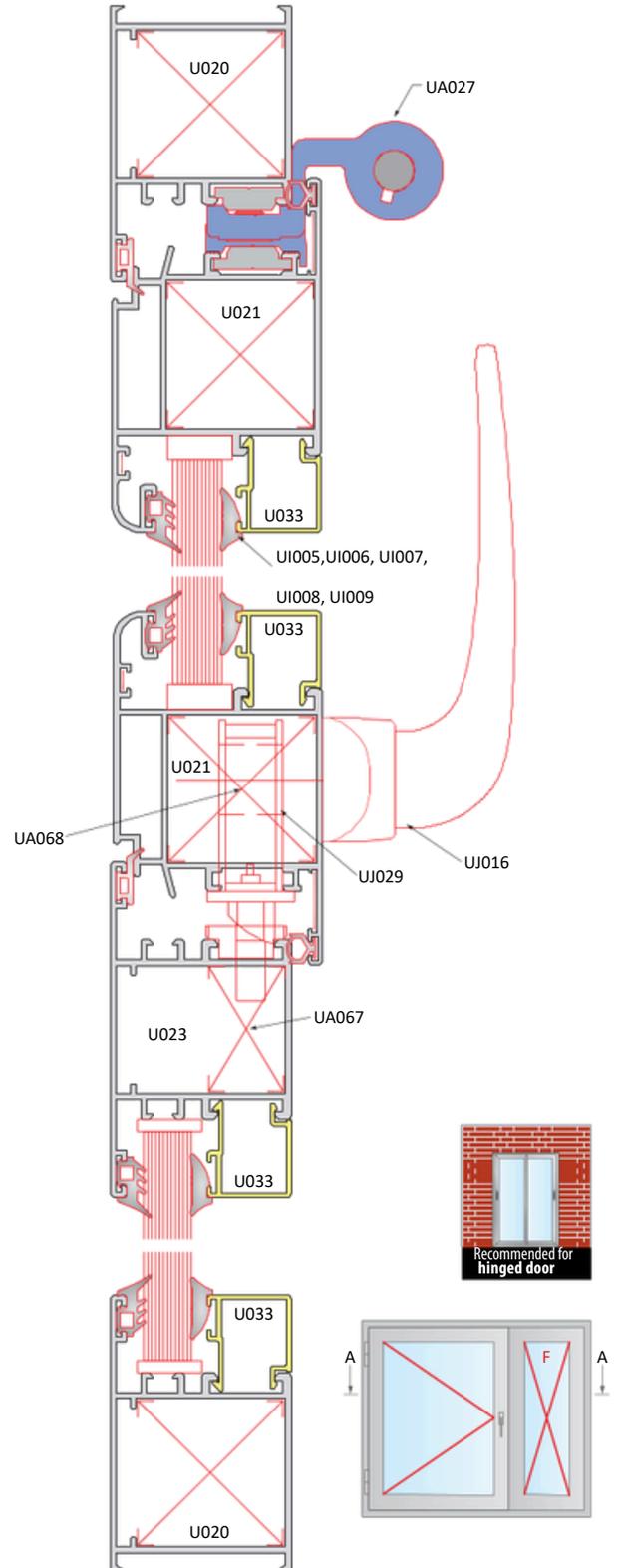
### Section A-A Views

SINGLE-PANEL CURTAIN WINDOW WITH FIXED SIDE PANEL



SECTION A-A

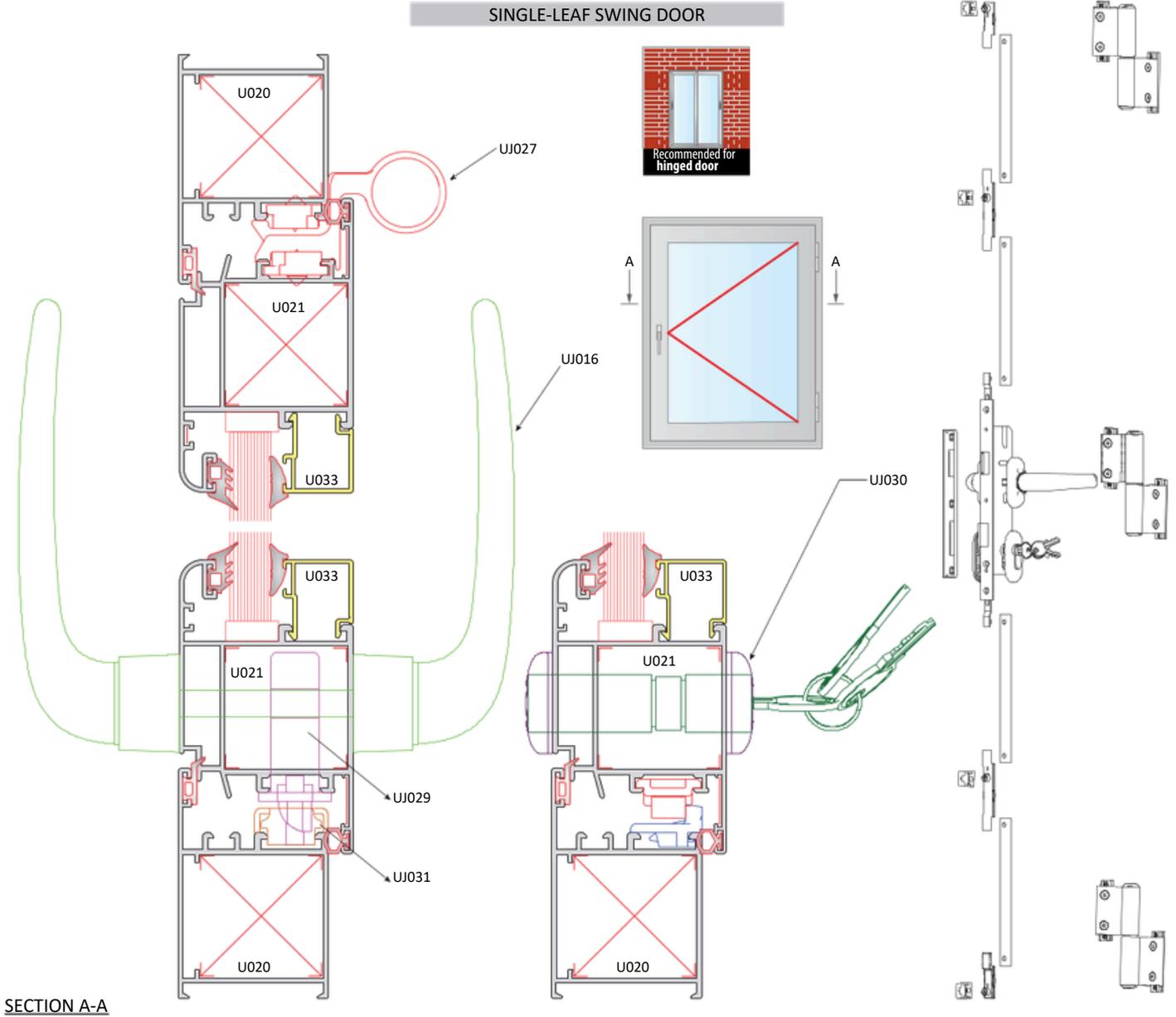
SINGLE-LEAF SWING DOOR WITH FIXED SIDE PANEL



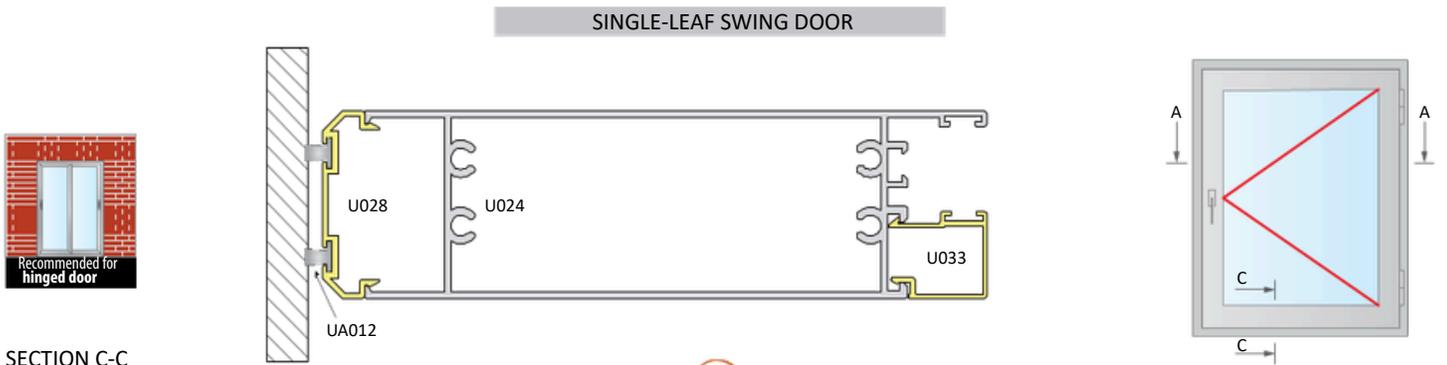
SECTION A-A

45mm folding series sections

Section A-A Views

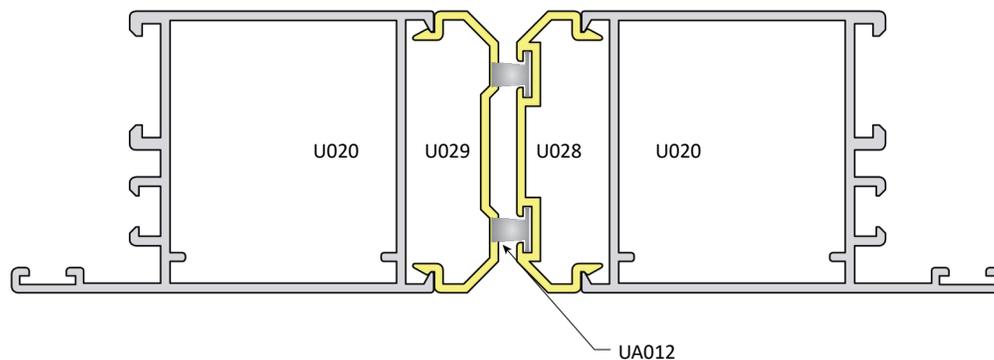


Section C-C Views

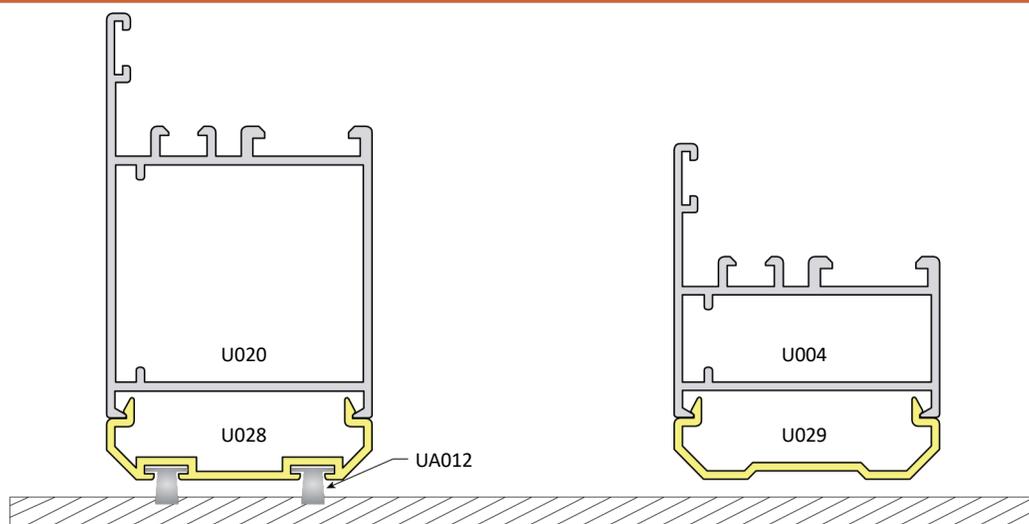


## 45mm folding series sections

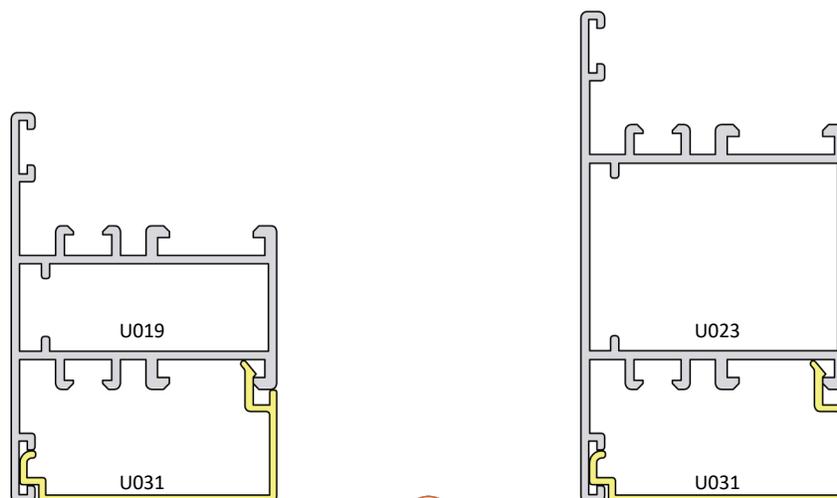
### Frame cover sections - Swing door - Automatic door



### Frame cap sections - frame trim

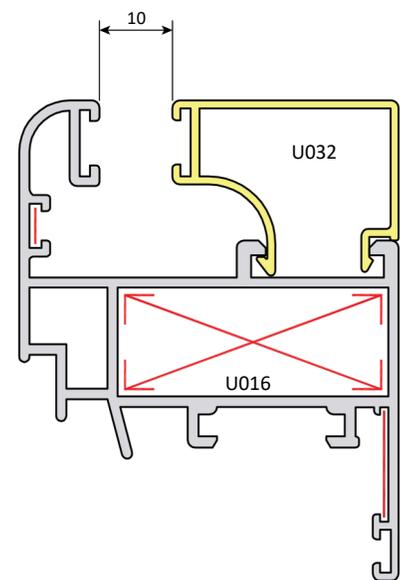
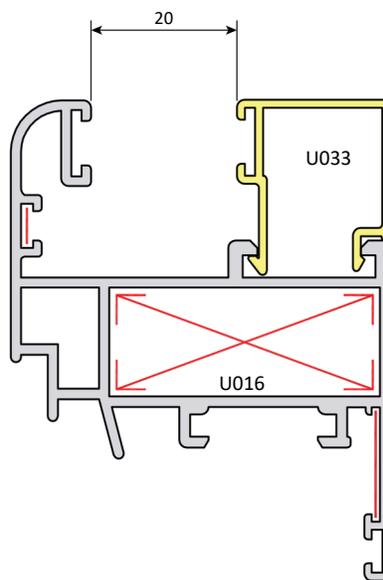
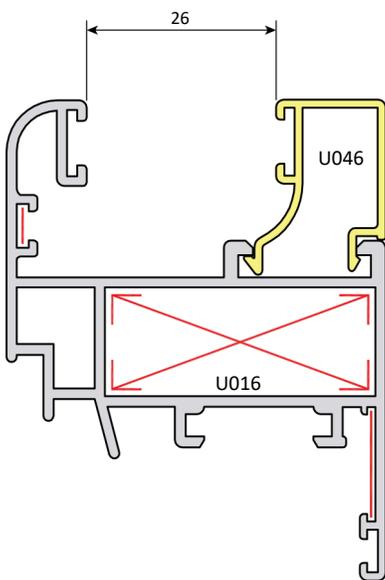
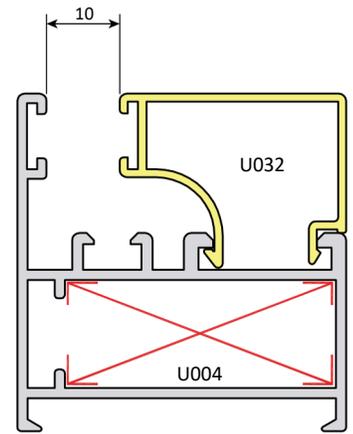
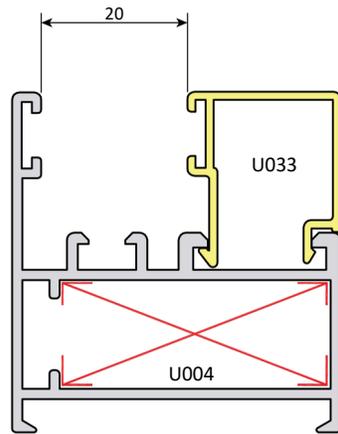
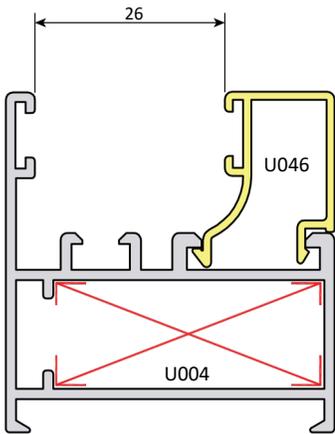


### Crossbeam closure sections



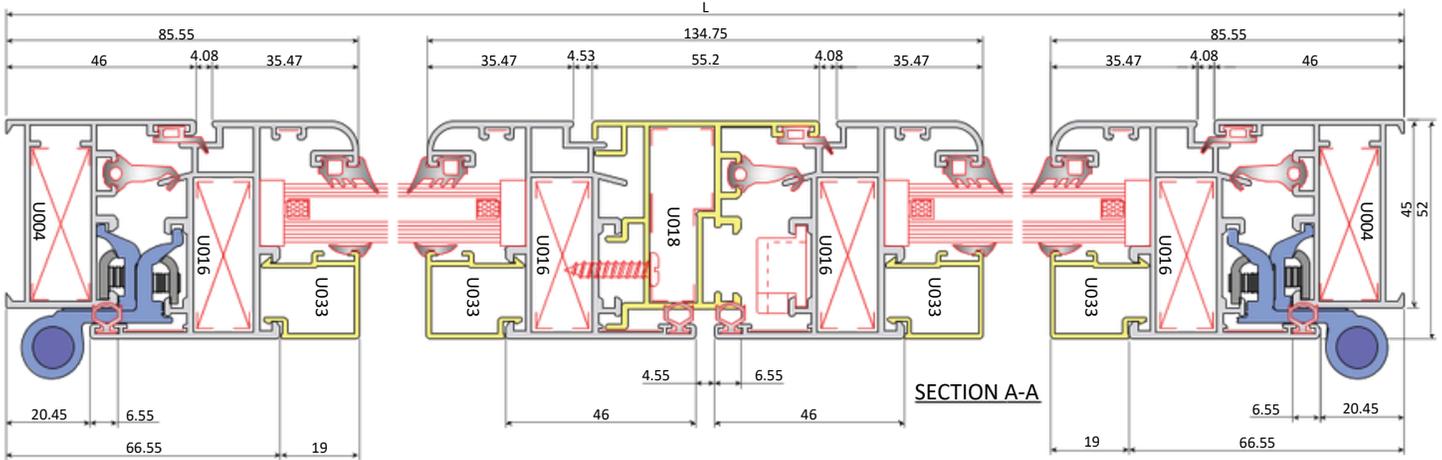
## 45mm folding series sections

## Sections of straight reeds

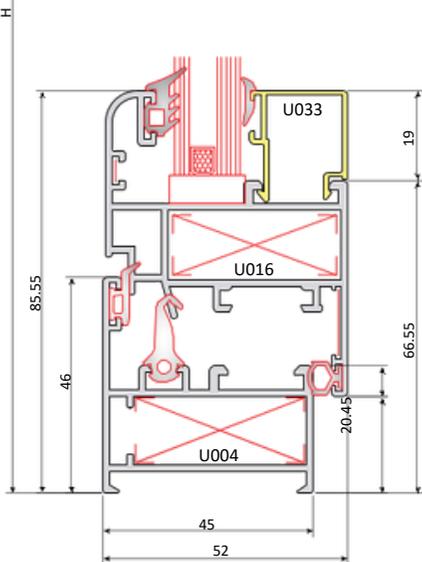
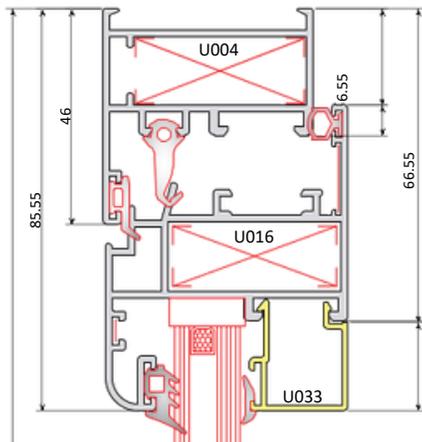
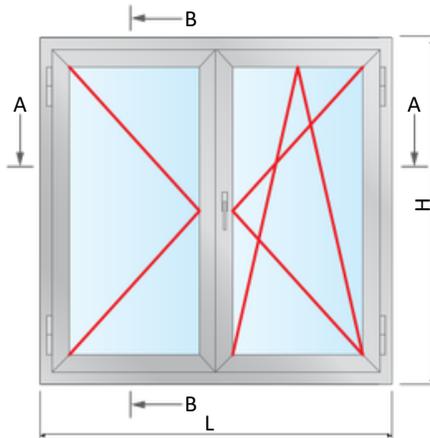


## Folding Series Cutting Boards 45 mm

### Cutting measurements (2-leaf casement window)



### TWO-PANEL HINGED WINDOW

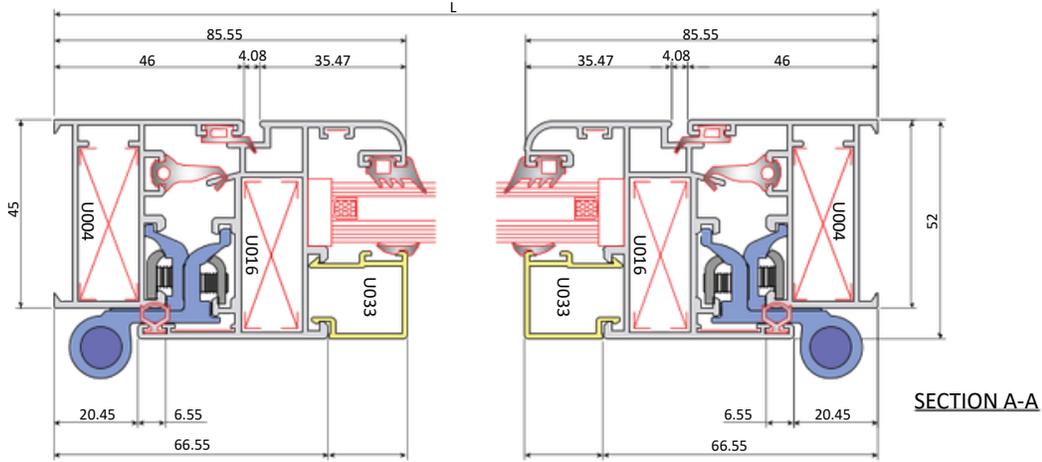


SECTION B-B

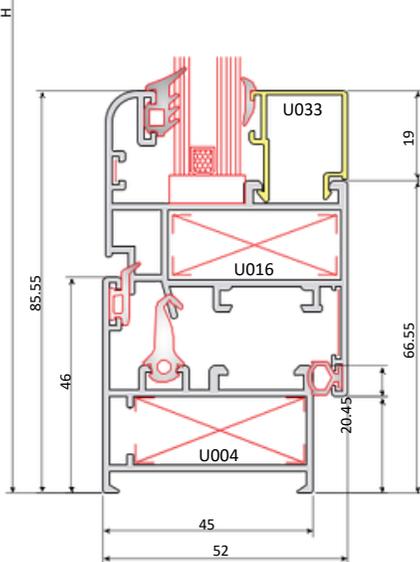
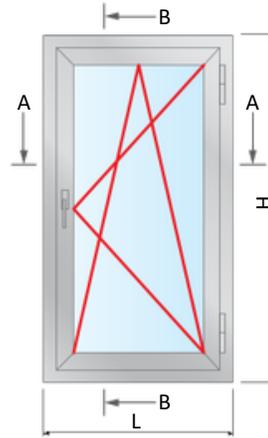
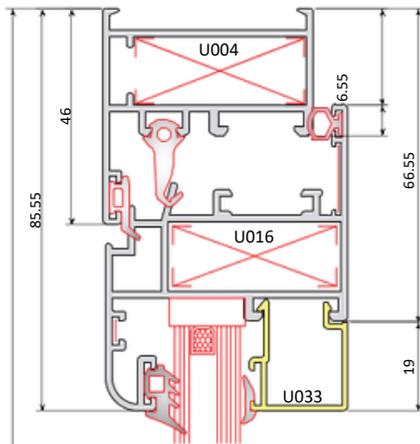
HINGED SERIES 45 mm Cut-out dimensions (2-leaf window)			H = frame height / L = frame width Theoretical cutting measures, checks before cutting in series	
SKETCH	REF.	DESCRIPTION	CUTTING M. (mm)	UNITS AND CUT TYPE
	U004	FRAME	H	2 UNITS
			L	2 UNITS
	U016	POINT	H - 40.9	4 UNITS
			(L - 45.5) / 2	4 UNITS
	U018	INVESTOR	H - 106	1 UNIT
---	---	GLASS (8mm SHIELD)	H - 139 (L - 242) / 2	GLASS 2 UNITS

## Folding Series Cutting Boards 45 mm

### Cutting measurements (1-leaf casement window)



SINGLE-PANEL HINGED WINDOW

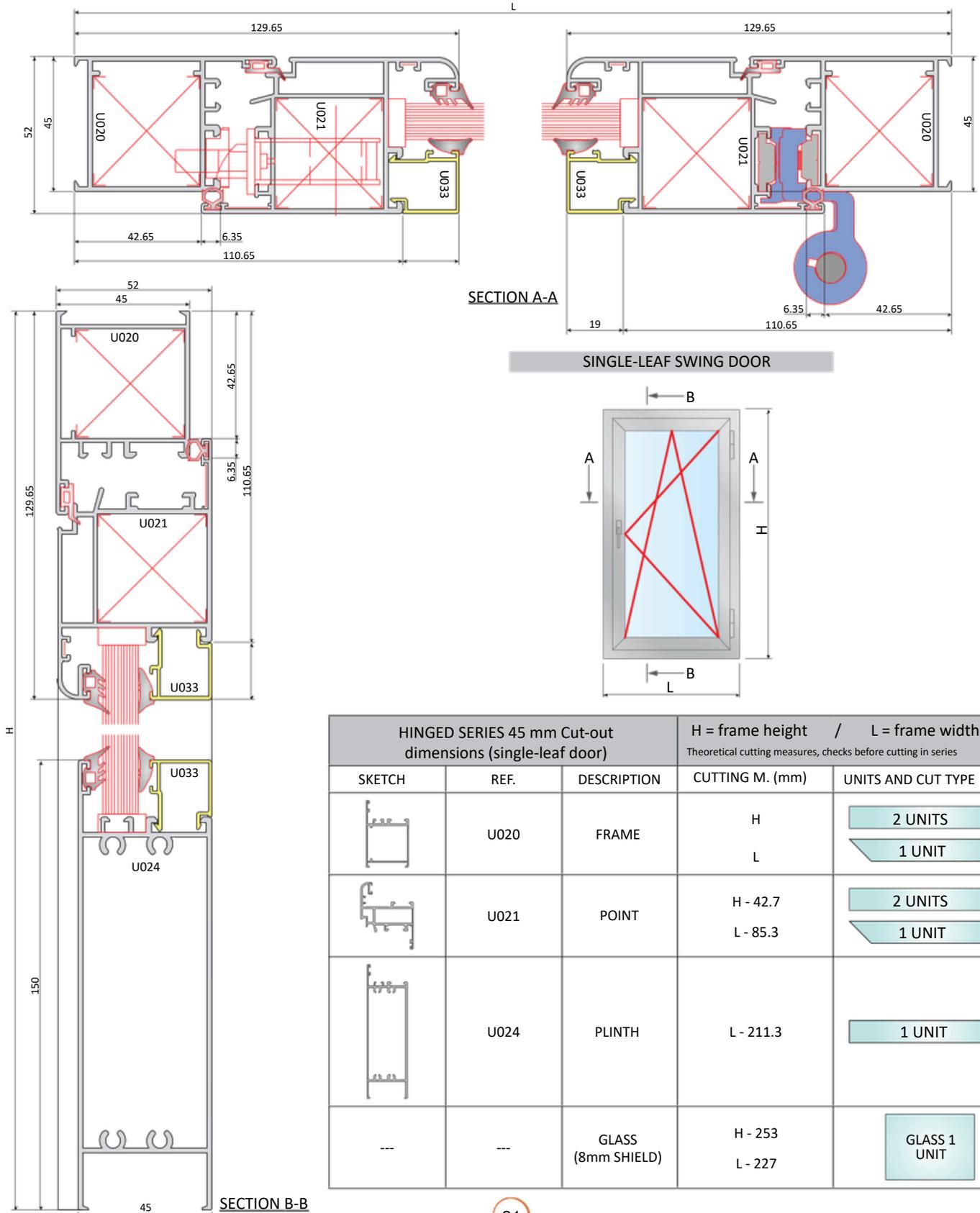


SECTION B-B

HINGED SERIES 45 mm Cut-out dimensions (single-leaf window)			H = frame height / L = frame width Theoretical cutting measures, checks before cutting in series	
SKETCH	REF.	DESCRIPTION	CUTTING M. (mm)	UNITS AND CUT TYPE
	U004	FRAME	H	2 UNITS
			L	2 UNITS
	U016	POINT	H - 40.9	2 UNITS
			L - 40.9	2 UNITS
---	---	GLASS (8mm SHIELD)	H - 139 L - 139	GLASS 1 UNIT

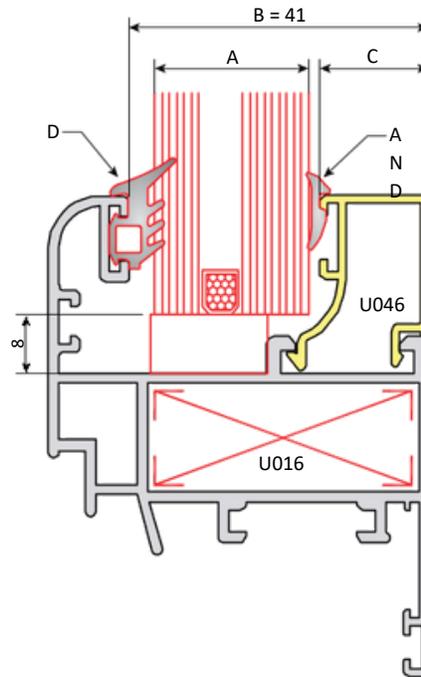
## Folding Series Cutting Boards 45 mm

### Cutting measurements (1-leaf casement door)



## 45mm Tilt and Turn Glazing Panels

### Glazing measurements



STRAIGHT JOINTS

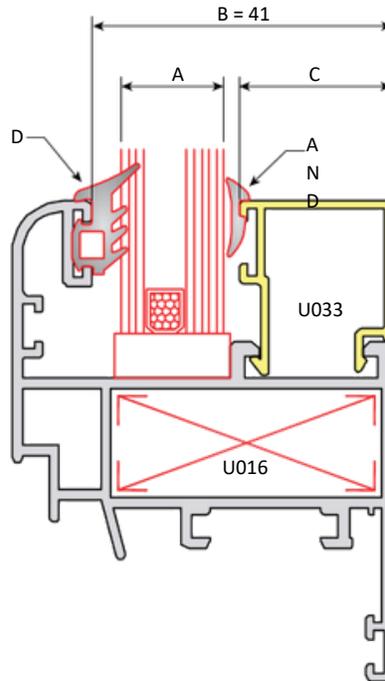
**GLAZING TABLE FOR HINGED SERIES 45 mm - 15 mm JOINTS SKETCHES AND TABLES VALID FOR PROFILES: U004, U005, U006, U016, U017, U019, U020, U021, U022, U023, U024, U044.**

(A)	(B)	JUNQUILLO (C)		(D)	(AND)
GLASS	TOTAL GAP	CODE	BROAD	EXTERNAL SEAL	INNER SEAL
24 mm (*)	41 mm	U046 / U047 / U048	15 mm	UI003 (2mm)	Silicon (0 mm)
22 mm (*)	41 mm	U046 / U047 / U048	15 mm	UI003 (2mm)	UI003 (2mm)
21 mm (*)	41 mm	U046 / U047 / U048	15 mm	UI004 (4 mm)	UI005 (2mm)
19 mm (*)	41 mm	U046 / U047 / U048	15 mm	UI004 (4 mm)	UI006 (3 mm)
18 mm	41 mm	U046 / U047 / U048	15 mm	UI004 (4 mm)	UI007 (4 mm)
17 mm	41 mm	U046 / U047 / U048	15 mm	UI004 (4 mm)	UI008 (5 mm)
16 mm	41 mm	U046 / U047 / U048	15 mm	UI004 (4 mm)	UI009 (6 mm)

(\*) - Minimum shim: 8 mm for jumpers U046 and U047, 10 mm for jumper U0

## 45mm Tilt and Turn Glazing Panels

### Glazing measurements



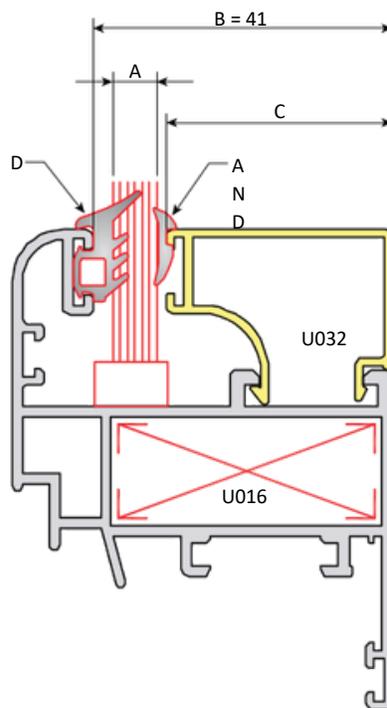
STRAIGHT JOINTS

**GLAZING TABLE FOR HINGED SERIES 45 mm - 21 mm JOINTS SKETCHES AND TABLES VALID FOR PROFILES: U004, U005, U006, U016, U017, U019, U020, U021, U022, U023, U024, U044.**

(A)	(B)	JUNQUILLO (C)		(D)	(AND)
GLASS	TOTAL GAP	CODE	BROAD	EXTERNAL SEAL	INNER SEAL
18 mm	41 mm	U033 / U035 / U037	21 mm	UI003 (2mm)	Silicon (0 mm)
16 mm	41 mm	U033 / U035 / U037	21 mm	UI003 (2mm)	UI003 (2mm)
14 mm	41 mm	U033 / U035 / U037	21 mm	UI004 (4 mm)	UI005 (2mm)
13 mm	41 mm	U033 / U035 / U037	21 mm	UI004 (4 mm)	UI006 (3 mm)
12 mm	41 mm	U033 / U035 / U037	21 mm	UI004 (4 mm)	UI007 (4 mm)
11 mm	41 mm	U033 / U035 / U037	21 mm	UI004 (4 mm)	UI008 (5 mm)
10 mm	41 mm	U033 / U035 / U037	21 mm	UI004 (4 mm)	UI009 (6 mm)

## 45mm Tilt and Turn Glazing Panels

## Glazing measurements



STRAIGHT JOINTS

GLAZING TABLE FOR HINGED SERIES 45 mm - 31 mm JOINTS SKETCHES AND TABLES VALID FOR PROFILES: U004, U005, U006, U016, U017, U019, U020, U021, U022, U023, U024, U044.

(A)	(B)	JUNQUILLO (C)		(D)	(AND)
GLASS	TOTAL GAP	CODE	BROAD	EXTERNAL SEAL	INNER SEAL
8 mm	41 mm	U032/ U034 / U036	31 mm	UI003 (2mm)	Silicon (0 mm)
6 mm	41 mm	U032/ U034 / U036	31 mm	UI003 (2mm)	UI003 (2mm)
4 mm	41 mm	U032/ U034 / U036	31 mm	UI004 (4 mm)	UI005 (2mm)
3 mm	41 mm	U032/ U034 / U036	31 mm	UI004 (4 mm)	UI006 (3 mm)
2 mm	41 mm	U032/ U034 / U036	31 mm	UI004 (4 mm)	UI007 (4 mm)
1 mm	41 mm	U032/ U034 / U036	31 mm	UI004 (4 mm)	UI008 (5 mm)

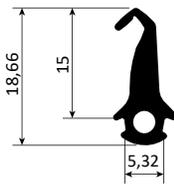
## Hardware for 45mm Folding Series Profile System

## EPDM rubber plans

## EPDM center gasket



**EPDM**  
HIGH QUALITY

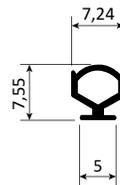


Code  
**UI001**

## Hinged bubble seal



**EPDM**  
HIGH QUALITY

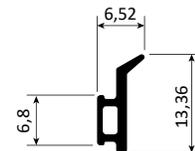


Code  
**UI002**

## EPDM clipped outer frame gasket



**EPDM**  
HIGH QUALITY

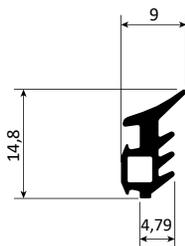


Code  
**UI003**

## 4 mm EPDM exterior glazing gasket



**EPDM**  
HIGH QUALITY

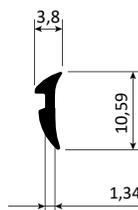


Code  
**UI004**

## 2 mm EPDM glazing gasket



**EPDM**  
HIGH QUALITY

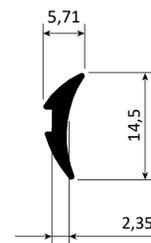


Code  
**UI005**

## 3 mm EPDM glazing gasket



**EPDM**  
HIGH QUALITY

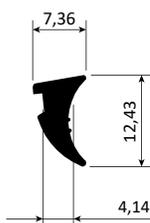


Code  
**UI006**

## 4 mm EPDM glazing gasket



**EPDM**  
HIGH QUALITY

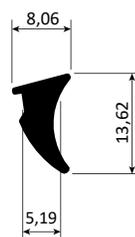


Code  
**UI007**

## 5 mm EPDM glazing gasket



**EPDM**  
HIGH QUALITY

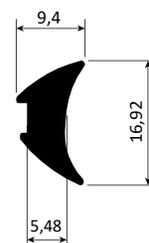


Code  
**UI008**

## 6 mm EPDM glazing gasket



**EPDM**  
HIGH QUALITY



Code  
**UI009**

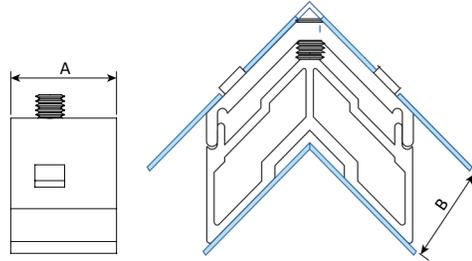
## Hardware for 45mm Folding Series Profile System

### Brackets - Bearings - Handles - Latches

#### 37 x 16 mm fixed pin bracket



Code  
UA001



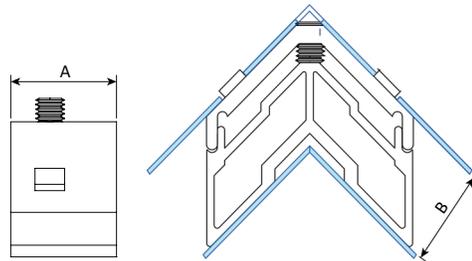
A= 37 mm  
B= 16 mm

- Extruded aluminum bracket with high corrosion resistance.
- Greater rigidity and alignment at the miters since it works by expansion.
- It works on frame profiles U004, U005, U016, U017.

#### 37 x 36 mm fixed pin bracket



Code  
UA068



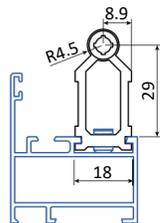
A= 36.55 mm  
B= 37 mm

- Extruded aluminum bracket with high corrosion resistance.
- Greater rigidity and alignment at the miters since it works by expansion.
- It works on frame profiles, hinged door leaves, and fixed glass. Profiles U020, U021, U022.

#### Window crossbar joint 14.7 x 29 mm

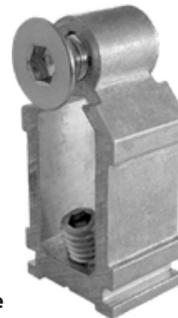


Code  
UA064

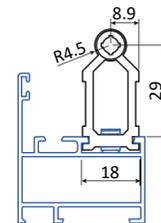


- Extruded aluminum bracket with high corrosion resistance.
- Greater rigidity, alignment, and faster installation. For fixed glass crossbars.
- It works on U019 crossbeam profiles.

#### Window crossbar joint 31.5 x 29 mm



Code  
UA067



- Extruded aluminum bracket with high corrosion resistance.
- Greater rigidity, alignment, and faster installation. For fixed glass crossbars.
- It works on U023 crossbeam profiles.

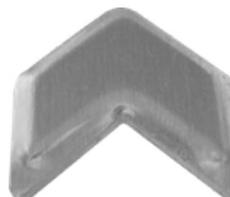
#### 5.8 x 1.5 mm Alignment Square



Code  
UA065

- Stainless steel alignment square.
- Increases rigidity and precision in the joint.
- Works on U016, U017, U021, U022.

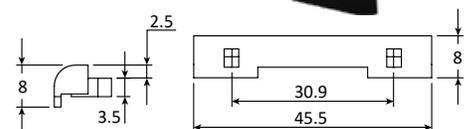
#### 14.5 x 1.5 mm Alignment Square



Code  
UA066

- Stainless steel alignment square.
- Increases rigidity and precision in the joint.
- Works on U016, U017, U021, U022.

#### Fourth aguas



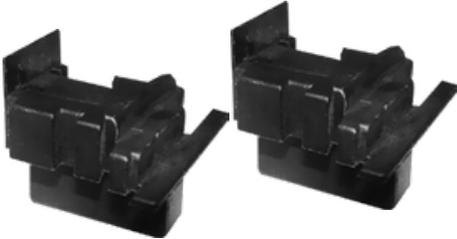
Code  
UA015

- Black PVC piece with decorative function.
- It works with both sliding and fixed frames.

## Hardware for 45mm Folding Series Profile System

### Brackets - Bearings - Handles - Latches

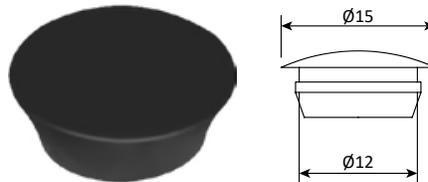
#### Reversing profile cover for hinged windows



**Code**  
**UA059**

- Black PVC piece with decorative function
- It works on the top and bottom of the Inversor profile U018.
- They are sold in pairs.

#### 12mm decorative stopper



**Code**  
**UA070**

- Black PVC piece with decorative function.
- It works with both sliding and fixed frames.

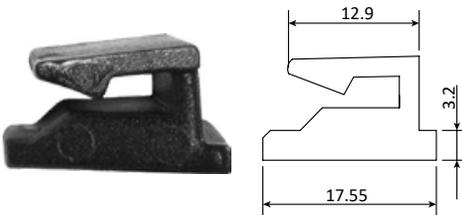
#### Drain valve



**Code**  
**UA014**

- Black PVC piece with decorative function.
- The sliding frame works.

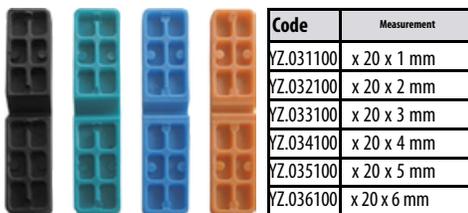
#### Staple for reed



**Code**  
**UA061**

- Black PVC fitting for glazing bead.
- Used for glazing bead U036, U037, U048.

#### Plastic wedges (pack of 100)



- Made of sealant-resistant material. The special surface shape and solid base make it ideally suited for various purposes. The block design ensures proper positioning of the glass panes during installation.
- Each block has a load capacity of 300 kg.

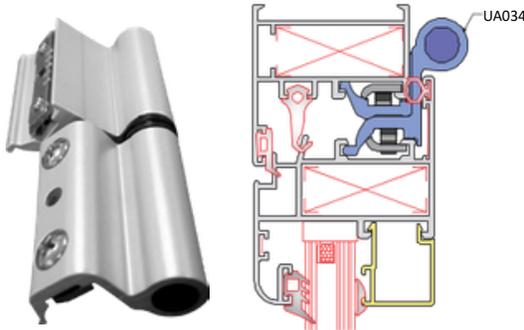
## Hardware for 45mm Folding Series Profile System

### Hinge system, projecting compasses, limiters and simple closures

#### European channel window hinge

KG  
90

Available colors:



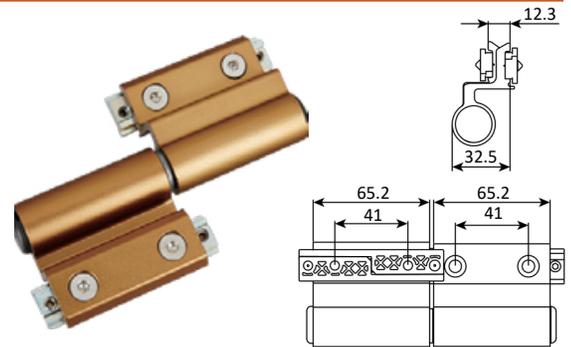
- Two-leaf hinge for European channel.
- Aluminum body with electro-painted finish.
- High resistance thanks to its shaft, pressure plates and screws.
- Made of stainless steel. Supports 90 kg per pair.

Code  
UA034

#### European channel door hinge

KG  
150

Available colors:

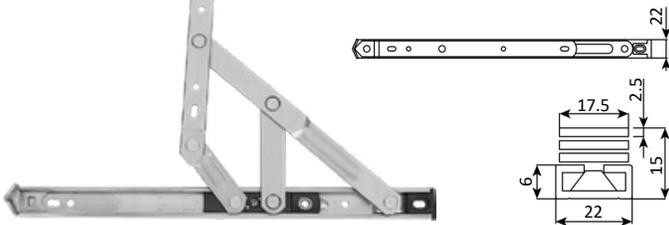


- Two-leaf hinge for European channel. Aluminum body with electro-painted finish.
- High resistance thanks to its shaft, pressure plates and screws.
- Made of stainless steel. Supports 150 kg per pair.

Code  
UJ027

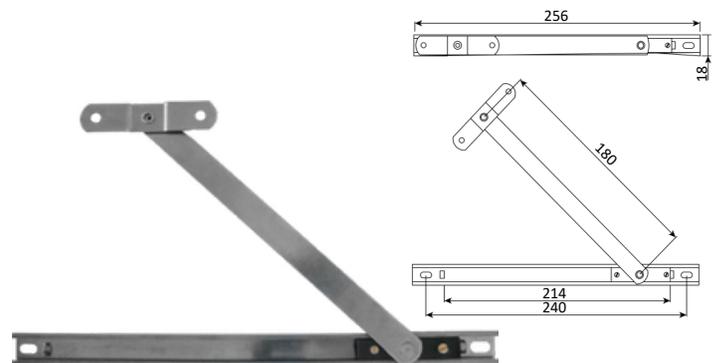
#### Projecting hinge for European channel

Code	Large	Max height	Weight	Opening
UJ032	254 mm	400 mm	33 kg	89°
UJ033	406.4 mm	750 mm	52 kg	89°
UJ034	558.8 mm	1100 mm	70 kg	89°



- Projecting hinge for Evolution Series windows.
- AISI 304 stainless steel body, 2.5 mm thick.
- Arrow-shaped end tip for easy installation.

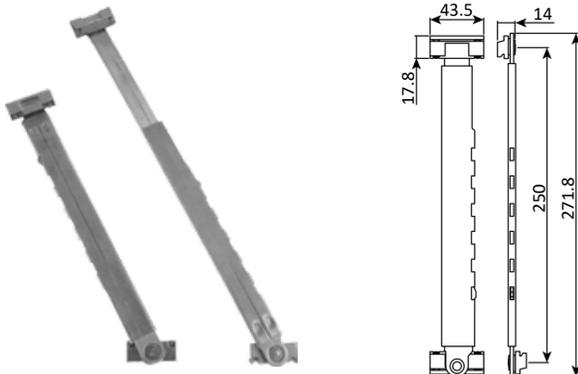
#### Opening limiting compass



- Evolution Series Window Limiter Compass.
- 430 series stainless steel body.
- It requires a piece of felted plate for installation.

Code  
UA049

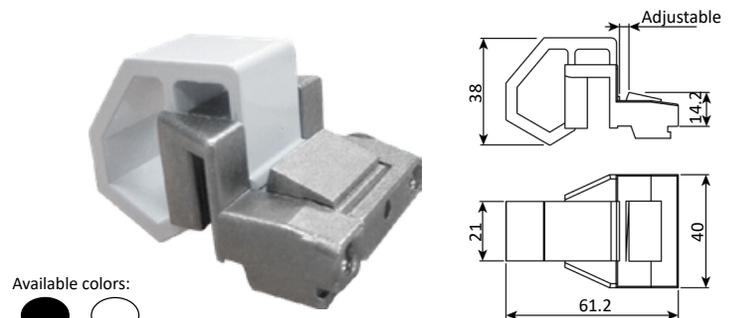
#### Telescopic window retainer



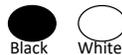
- Telescopic retainer for casement windows.
- Offers 5 retention positions.
- Easy attachment to the European channel using clamps.
- Made of 430 series stainless steel.

Code  
UA050

#### European-style knockout closure



Available colors:



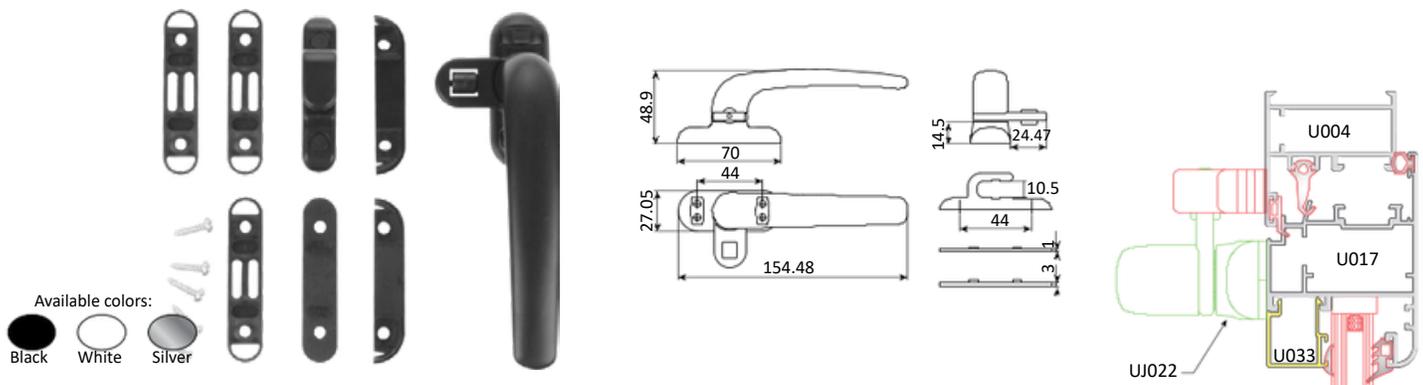
- Made of Zamak and aluminum, finished in white and black.
- Works for tilt and turn windows.
- Quick and efficient assembly and adjustment using a front bolt.
- Stainless steel. High security in the enclosure.

Code  
UA048

## Hardware for 45mm Folding Series Profile System

### Hinge system, projecting compasses, limiters and simple closures

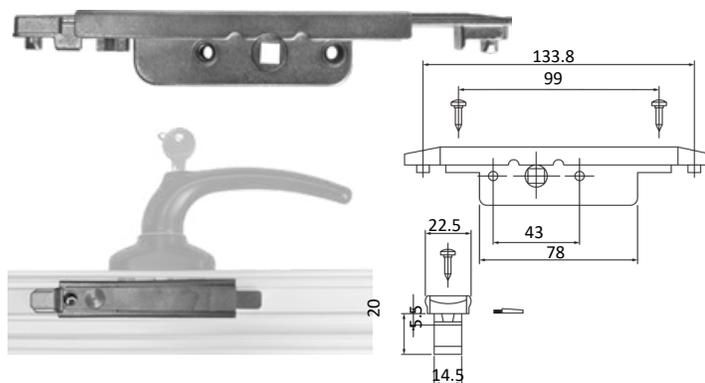
#### Pressure-mounted snap closure



Code  
UJ022

- Made of Zamak and aluminum with a silver, white, and black finish. Universal lock that works with all window models and functions. Quick and easy surface-mounted installation.
- Includes adjustment shims and installation screw.

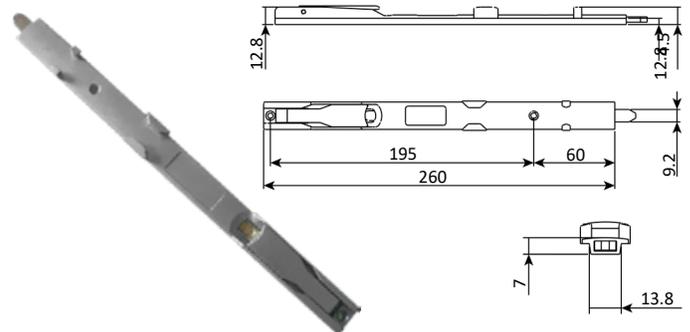
#### Multipoint operator body



Code  
UA084

- Bidirectional function.
- 20mm European channel, 8x8 grid.
- Works with UA023 and UJ021 handles.

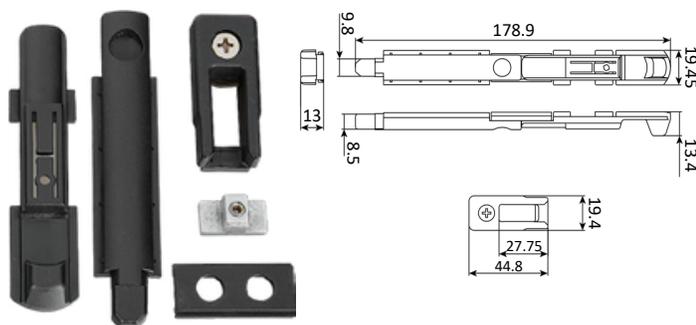
#### Closing the second leaf of the door or window



Code  
UJ011

- Made of Zamak and aluminum with a black finish.
- Quick installation in European channel and fixing by pressure screw.
- Hardened metal pin for added security.

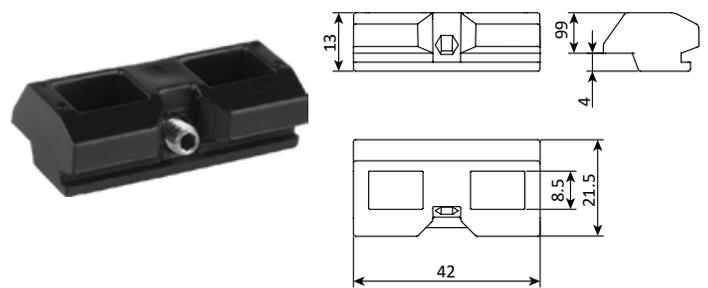
#### Closing the second leaf of the door or window



Code  
UJ012

- Made of high-strength PVC with a black finish.
- Hardened metal pin for added security.
- Quick installation in European channel and fixing by pressure screw.

#### Second leaf closing receiver



Code  
UJ047

- Made of high-strength PVC with a black finish.
- Quick installation in European channel and fixing by pressure screw.

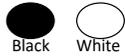
## Hardware for 45mm Folding Series Profile System

### SECUREASY® Closure PLUS A (internal opening)

#### SECUREASY® PLUS (multi-operator 8 x 24) handle



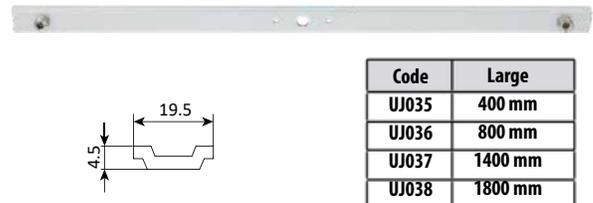
Available colors:



Code  
**UJ019**

- Made with aluminum and zinc alloy.
- Left and right reversible function.
- Available in white and black painted finishes.

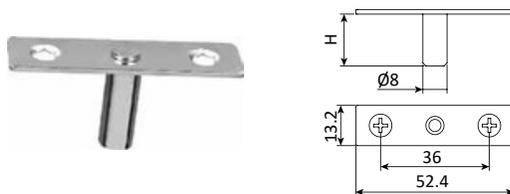
#### Drive shaft with locking bolt



Code	Large
UJ035	400 mm
UJ036	800 mm
UJ037	1400 mm
UJ038	1800 mm

- 19.5 mm anodized extruded aluminum.
- Reinforced, offset steel bolt.
- Includes holes for T-shaped transmission installation.
- Different lengths depending on the window dimensions.

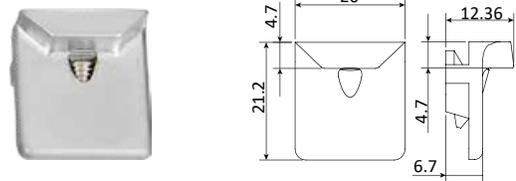
#### T-shaped transmission



Code  
**UJ048.1**

- Reinforced zinc transmission with a silver finish.
- Includes installation screw.
- One T-shaped handle must be used for each Secureasy handle® PLUS.

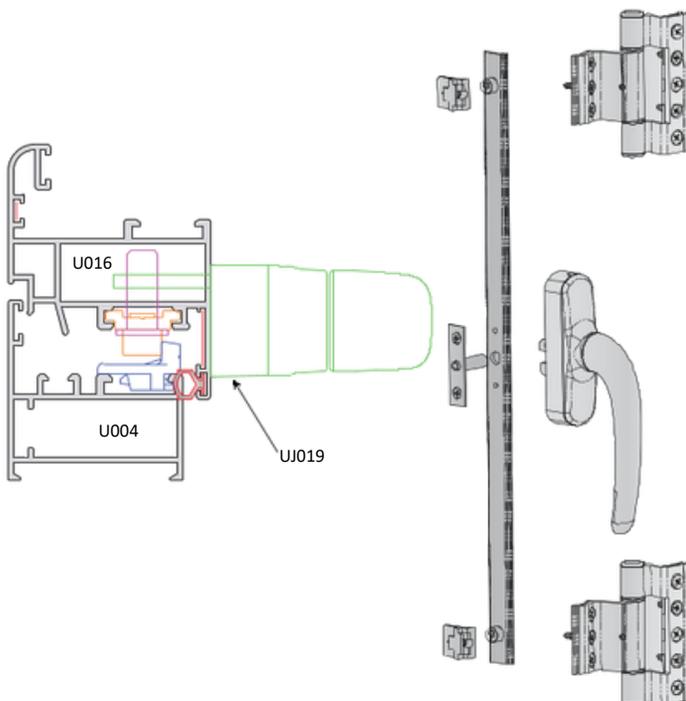
#### Locking bolt receiver



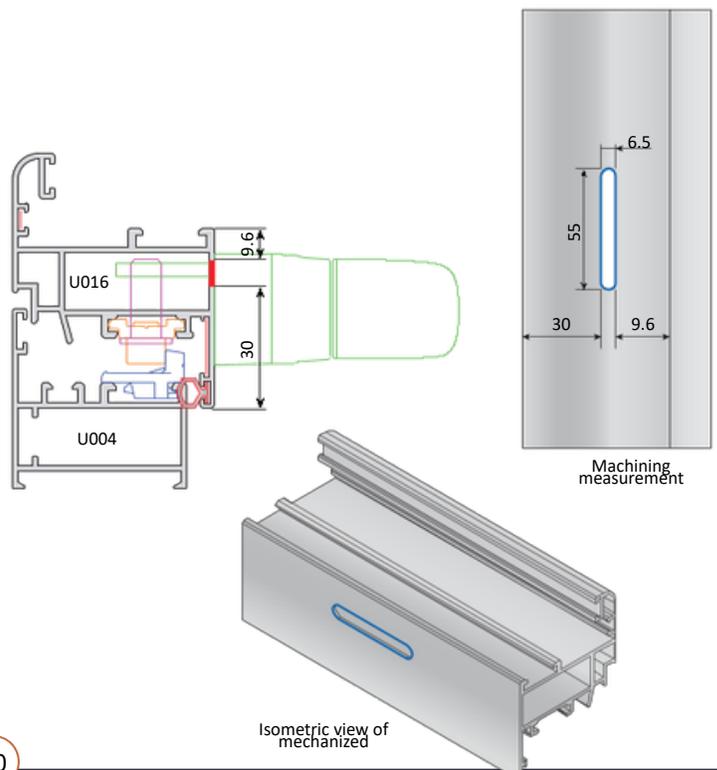
Code  
**UJ046**

- Made of reinforced zinc with a silver finish.
- Quick and easy installation on the fixed frame using a quick-release clamp.
- One should be used for each locking bolt that the SECUREASY® PLUS A system has.

#### SECUREASY® Assembly PLUS A



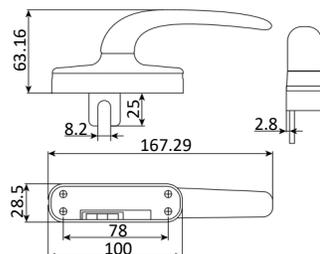
#### Machining of SECUREASY® PLUS A



## Hardware for 45mm Folding Series Profile System

### SECUREASY® Closure PLUS B (internal opening)

#### SECUREASY® PLUS (multi-operator 8 x 24) handle



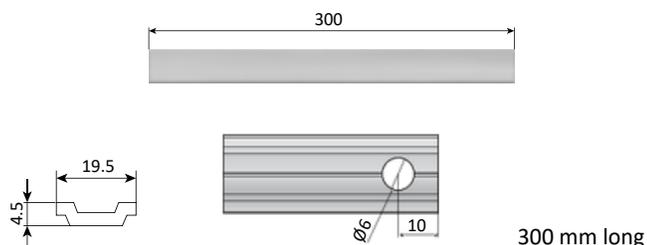
Available colors:



Code  
UJ019

- Made from aluminum and zinc alloy.
- Reversible left and right function.
- Available in white and black painted finishes.

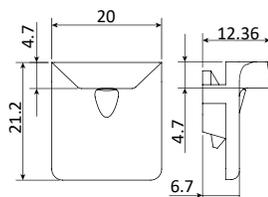
#### Drive shaft 19.5 x 300 mm



- It functions as a transmission bar to connect the SECUREASY® PLUS handle with locking bolts.
- Made of silver anodized extruded aluminum.
- Includes two holes at the ends for connection of SECUREASY® PLUS B system.

Code  
UJ044

#### Locking bolt receiver

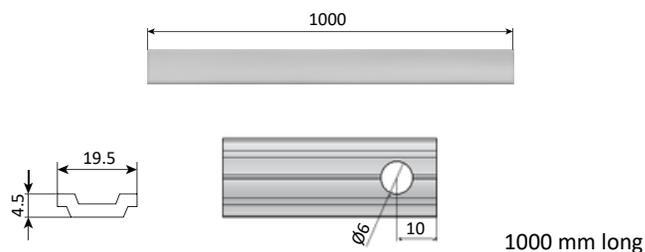


- Made of reinforced zinc with a silver finish.
- Fast and easy installation on the fixed frame using prisoner of quick fit.
- One must be used for each locking bolt that the SECUREASY® PLUS B system.

Code  
UJ046



#### Drive shaft 19.5 x 1000 mm



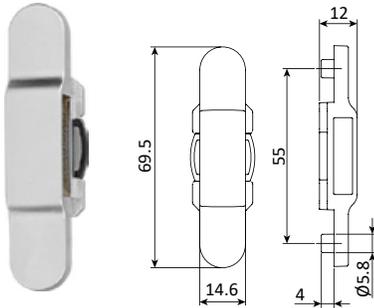
- It functions as a transmission bar to connect the SECUREASY® PLUS handle with locking bolts.
- Made of silver anodized extruded aluminum.
- Includes two holes at the ends for connection sistema SECUREASY® PLUS B.

Code  
UJ045

## Hardware for 45mm Folding Series Profile System

## SECUREASY® Closure PLUS B (internal opening)

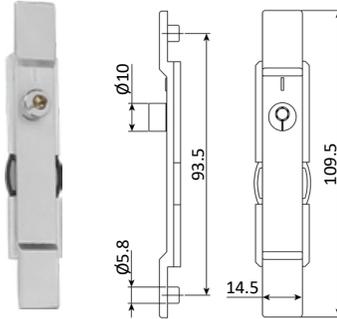
## Intermediate connector - locking handle



Code  
**UJ051**

- Made of reinforced zinc with a silver finish.
- Quick and easy installation using a pressure ring that fits into the European channel.
- Connects to the SECUREASY® PLUS handle nail - drive bar.

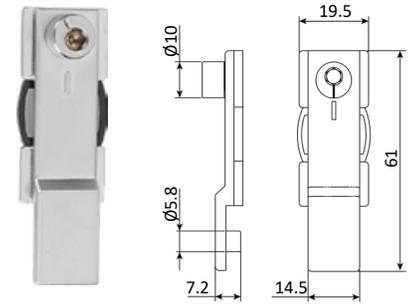
## Intermediate connector - locking bolt



Code  
**UJ050**

- Made of reinforced zinc with a silver finish.
- Quick and easy installation using a pressure ring that fits into the European channel.
- Connects to the drive shaft on both sides with an additional locking bolt.

## End connector - locking bolt

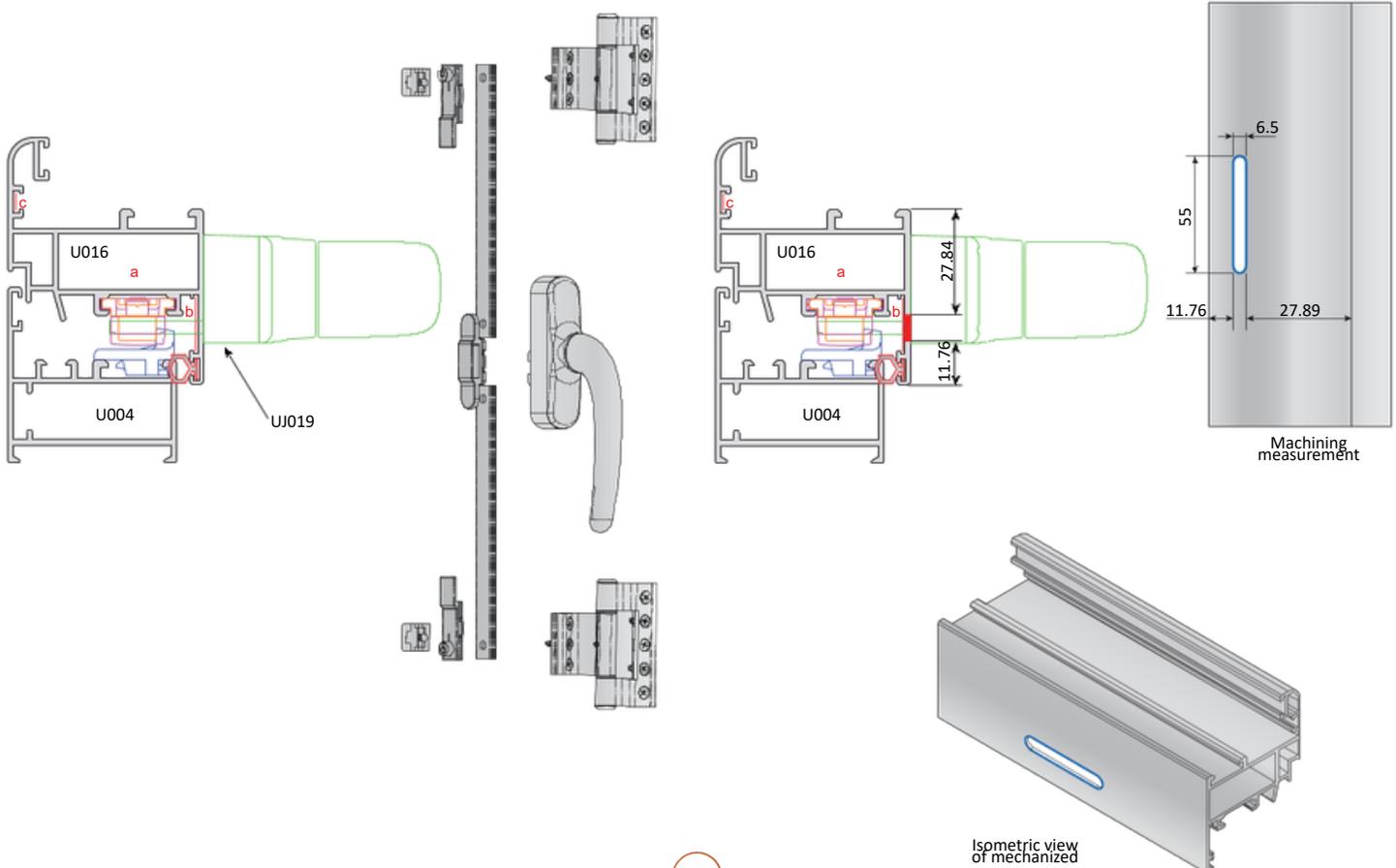


Code  
**UJ049**

- Made of reinforced zinc with a silver finish.
- Quick and easy installation using a pressure ring that fits into the European channel.
- The drive shaft is secured with a locking bolt.

## SECUREASY® Assembly PLUS B

## Machining of SECUREASY® PLUS B



## Hardware for 45mm Folding Series Profile System

### SECUREASY® Closure PLUS A (external opening)

#### SECUREASY® PLUS (multi-operator 8 x 24) handle



Available colors:



Code  
**UJ019**

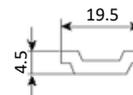
- Made of aluminum and zinc alloy.
- Left and right reversible function.
- Must be installed with the UJ020 bracket for casement windows.

Purchase the 40mm  
nail UJ020 separately



Code  
**UJ020** Sold separately.

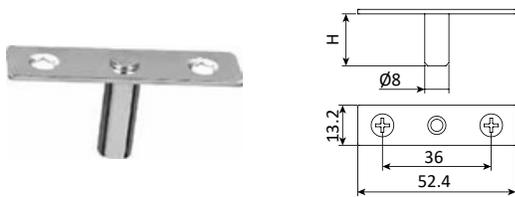
#### Drive shaft with locking bolt



Code	Large
UJ035	400 mm
UJ036	800 mm
UJ037	1400 mm
UJ038	1800 mm

- 19.5 mm anodized extruded aluminum.
- Reinforced, offset steel bolt.
- Includes holes for T-shaped transmission installation.
- Different lengths depending on the window dimensions.

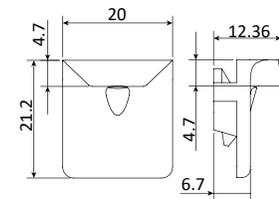
#### T-shaped transmission



Code  
**UJ048**

- Reinforced zinc transmission with a silver finish.
- Includes installation screw.
- One T-shaped handle must be used for each Secureasy handle® PLUS A.

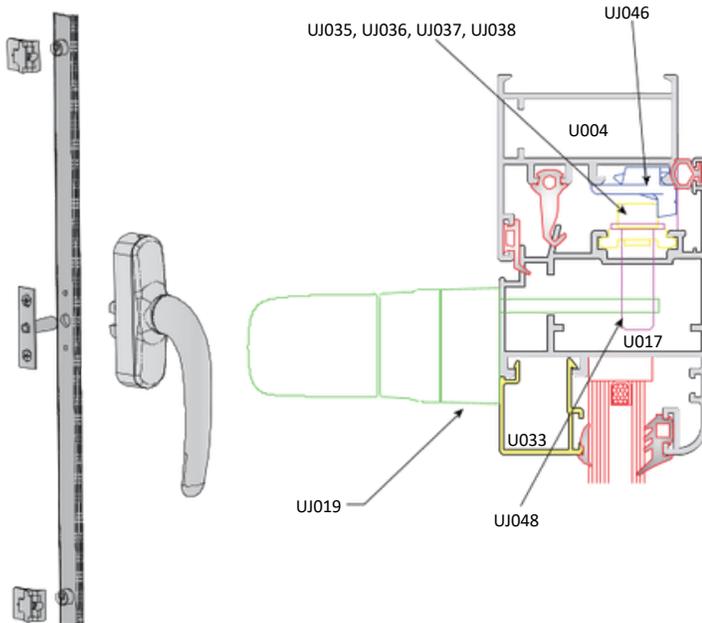
#### Locking bolt receiver



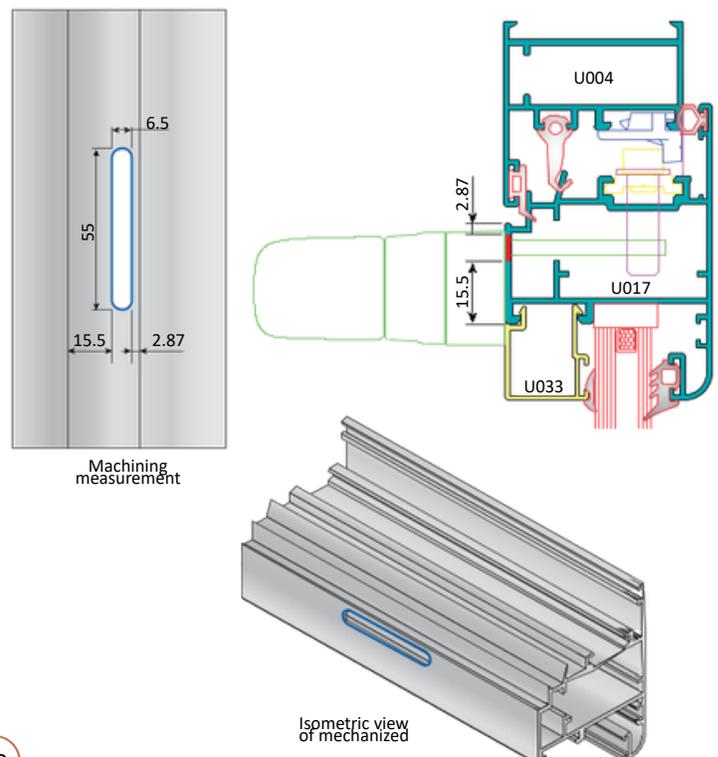
Code  
**UJ046**

- Made of reinforced zinc with a silver finish.
- Quick and easy installation on the fixed frame using a quick-release clamp.
- One should be used for each locking bolt that the SECUREASY® PLUS A has.

#### SECUREASY® Assembly PLUS A



#### Machining of SECUREASY® PLUS A



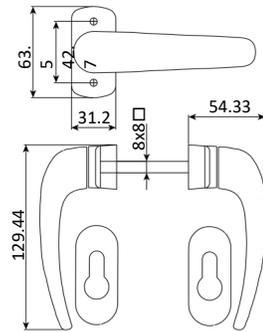
## Hardware for 45mm Folding Series Profile System

### SECUREASY® Door Lock PLUS for aluminum door

#### Neo handle for aluminum door



Available colors:

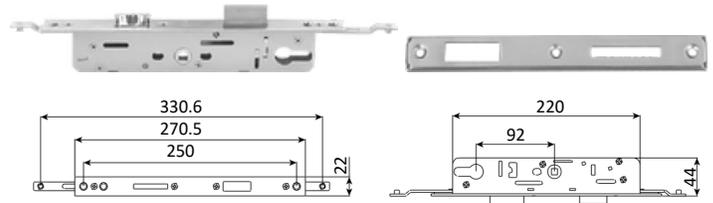


130 cm long

- Zamak and aluminum injection-molded handle.
- Includes 8x8 grid and decorative shield for the cylinder.

Code  
UJ015

#### Aluminum door security lock body

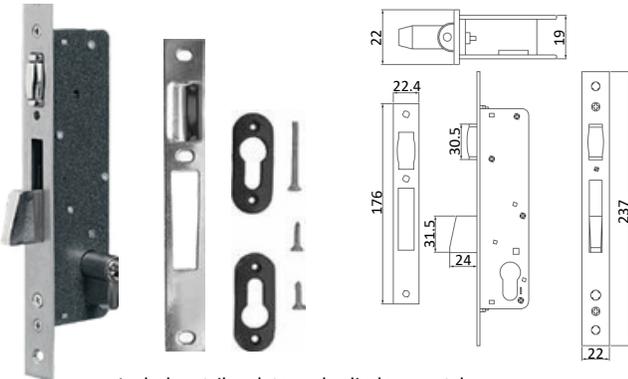


#### LIFESPAN OF 80 MILLION CYCLES

- Metal body lock with pins and bolts stainless steel.
- Accesories.
- Distance between cylinder and grid is 92 mm and back.
- Includes satin stainless steel receiver for the lock and multipoint option.

Code  
UJ029

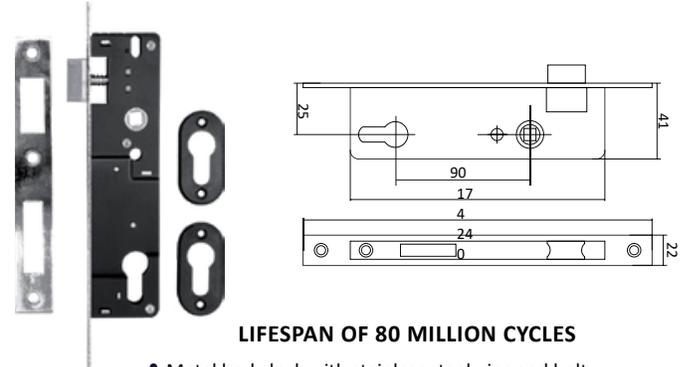
#### Roller and lever lock



- Includes strike plate and cylinder escutcheon.
- Single-point locking security lock for metalwork with cylinder entry.
- Stainless steel faceplate and strike plate.
- Ideal for commercial premises doors.

Code  
UA081

#### Aluminum door lock body

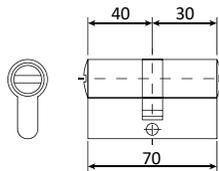


#### LIFESPAN OF 80 MILLION CYCLES

- Metal body lock with stainless steel pins and bolts.
- Distance between cylinder and spindle is 92 mm and backset is 29 mm.
- The face plate is finished in stainless steel.
- Includes satin stainless steel receiver for the lock.

Code  
78480

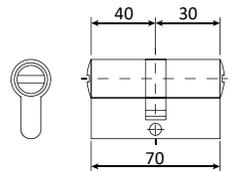
#### European cylinder for aluminum door



- Bronze body cylinder.
- 70 mm diameter, offset 40-30.
- Includes 3 bronze keys.

Code  
UJ030

#### European cylinder for aluminum door with knob



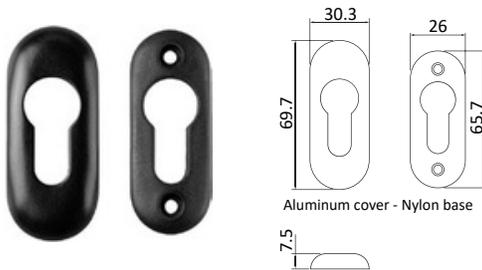
- Bronze body cylinder.
- 70 mm diameter, offset 40-30.
- Includes 3 bronze keys.

Code  
UA076

## Hardware for 45mm Folding Series Profile System

### SECUREASY® Door Lock PLUS for aluminum door

#### European cylinder trim



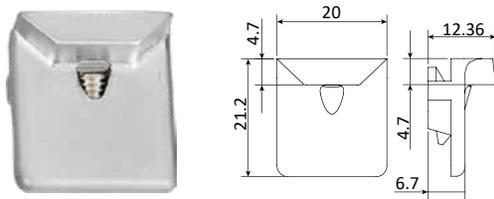
Available colors:



- P-shaped escutcheon
- Aluminum cover clipped onto a nylon base.
- Escutcheon - Keyhole for lock cylinder.

Code  
**UA082**

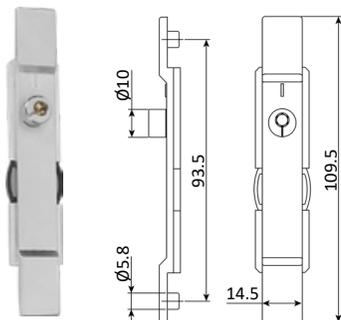
#### Locking bolt receiver



- Made of reinforced zinc with a silver finish.
- Quick and easy installation on the fixed frame using a quick-release clamp.
- One should be used for each locking bolt that the SECUREASY® PLUS has.

Code  
**UJ046**

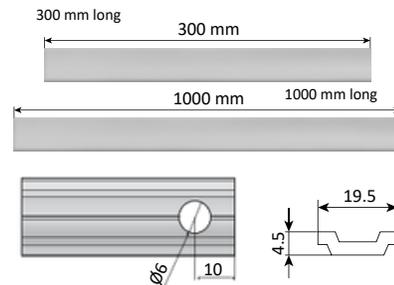
#### Intermediate connector - locking bolt



- Made of reinforced zinc with a silver finish.
- Quick and easy installation using a pressure ring.
- Connects to the drive shaft on both sides with additional locking bolt.

Code  
**UJ050**

#### Drive shaft



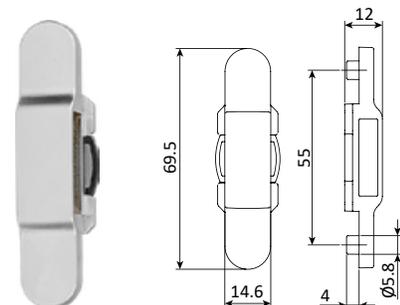
Code  
**UJ044**

- It functions as a transmission bar to connect the SECUREASY® PLUS handle with locking bolts.

Code  
**UJ045**

- Made of silver anodized extruded aluminum.
- Includes two holes at the ends for connection of SECUREASY® PLUS B system.

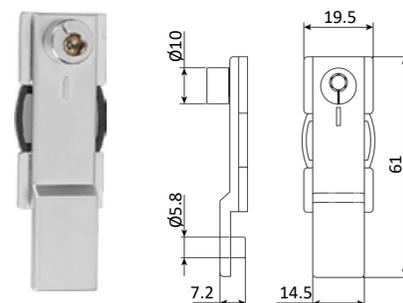
#### Intermediate connector - locking handle



- Made of reinforced zinc with a silver finish.
- Quick and easy installation using a pressure ring.
- Connects to the SECUREASY® PLUS handle nail - drive shaft.

Code  
**UJ051**

#### End connector - locking bolt



- Made of reinforced zinc with a silver finish.
- Quick and easy installation using a pressure ring.
- The transmission bar ends with a locking bolt.

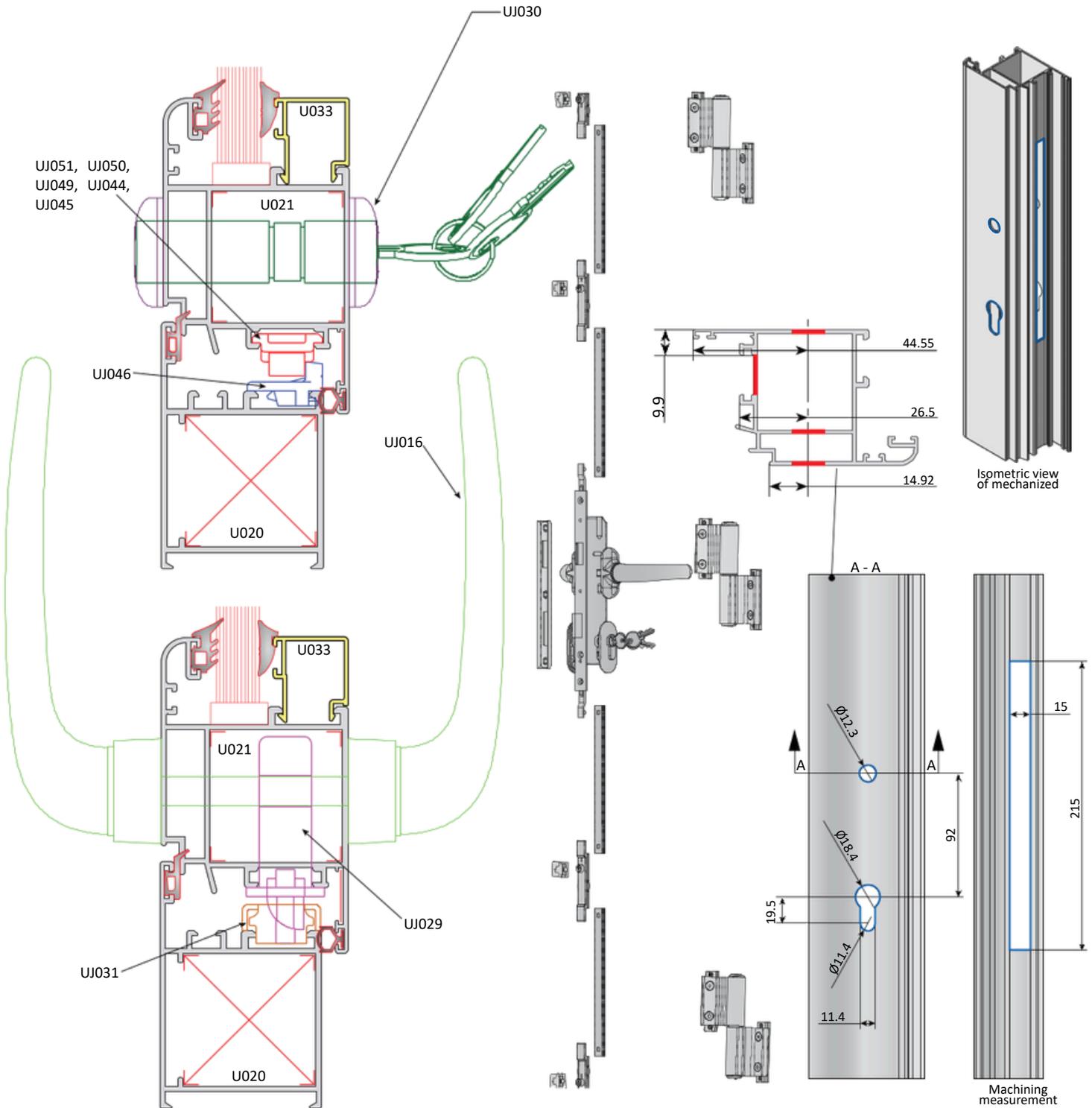
Code  
**UJ049**

Hardware for 45mm Folding Series Profile System

SECUREASY® Closure PLUS for aluminum door

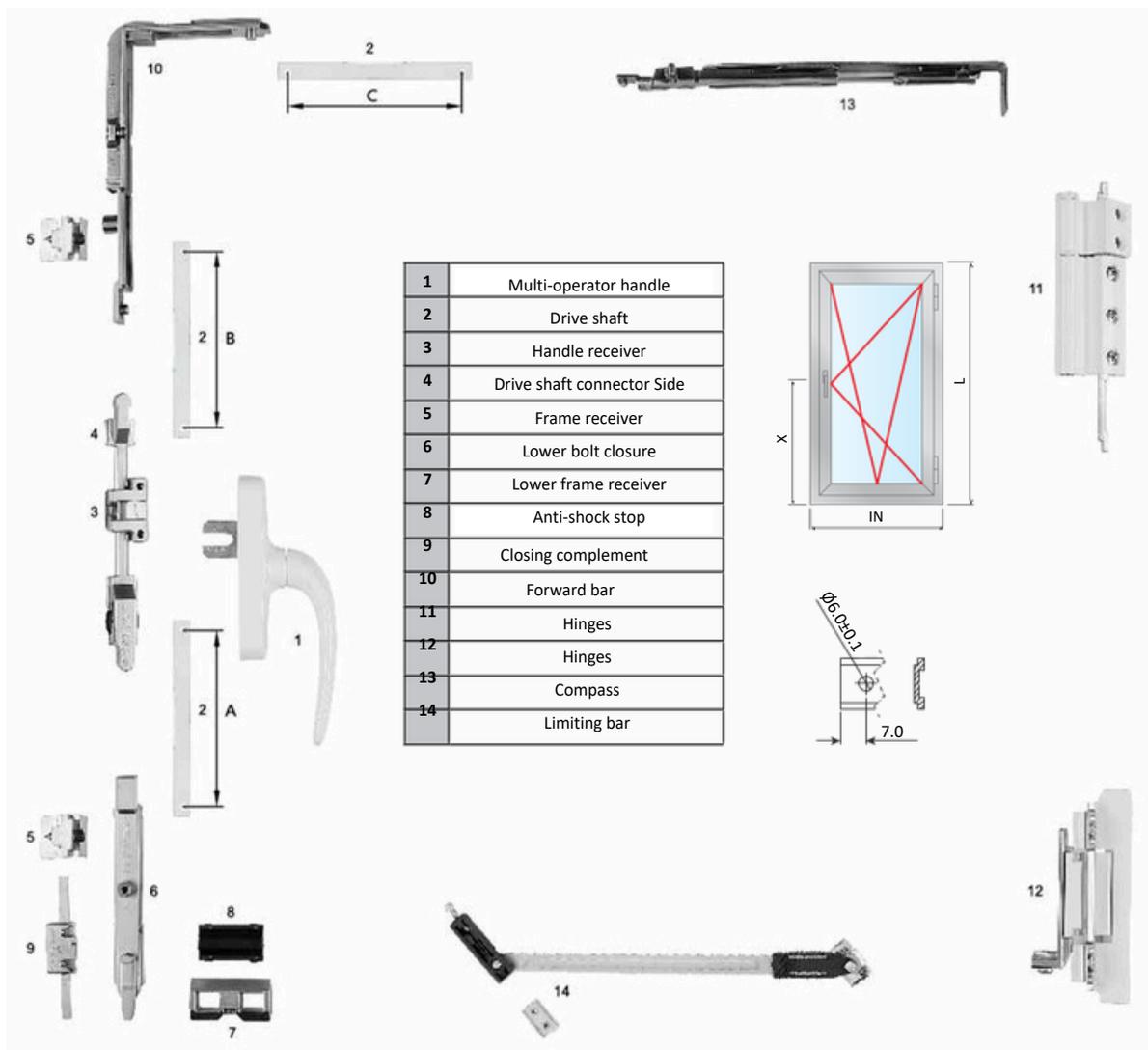
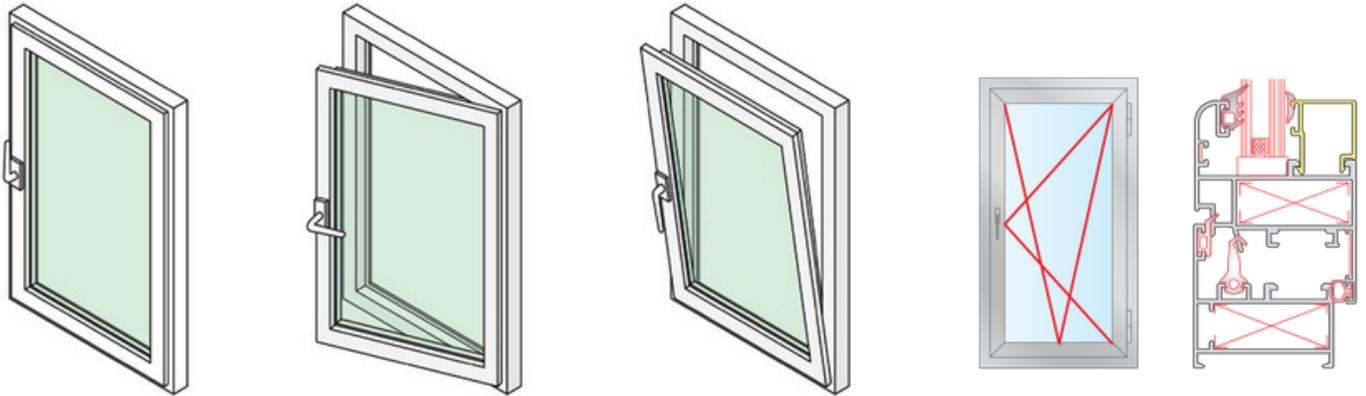
SECUREASY® Assembly PLUS for aluminum door

Machining of SECUREASY® PLUS for aluminum door



## Hardware for 45mm Folding Series Profile System

### Tilt and turn kit



Code  
UJ054

- Width: Max 1600mm, Min 400mm
- Height: Max 2400mm, Min 600mm
- Maximum weight allowed < 130 kg



## 70 MM PERIMETER SERIES

Aluminum exterior joinery series, for sliding windows and balcony doors.





## 70 mm perimeter series

### Characteristics

- High-end sliding system with perimeter frame and 45° mitered sashes. High performance thanks to the size of its sashes and frames with wide running tracks, allowing for large window and door installations.
- It has a variety of frames, leaves and leaf crossings, which allow it to cover all sliding options including large doors or windows and mosquito nets.
- Simple carpentry in assembly and design.
- Frame and leaf brackets to guarantee quality finish, good alignment and strength.
- Good thermal performance and watertightness (against water and temperature).
- Compatible with the 70mm wide hinged system (U005).
- It allows the incorporation of operable openings, crossbars and all the designs of the "45mm Folding" series.

### Geometry of the series

- Perimeter frame with double rail of 45, 70 mm and triple rail of 105 mm.
- Sheets of 28 x 66 mm.
- Reinforced sheet.
- Thickness of 1.4 mm.
- 45° cutting blades.
- Union through squads.
- Glass gap 10 and 22 mm.

### Glazing

- Maximum thickness of glass or panels 22 mm and minimum 1 mm (according to glazing table).

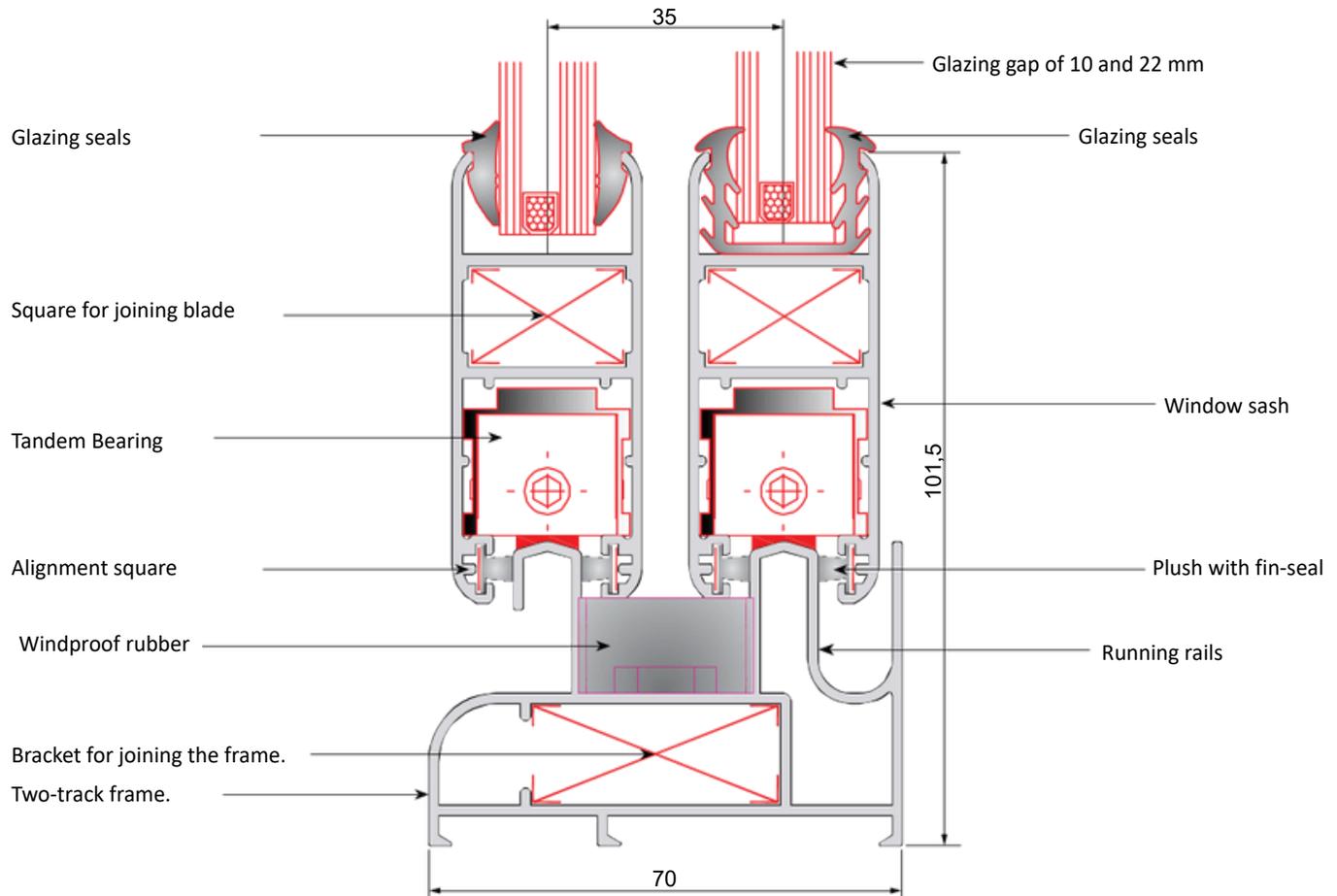


02



70 mm perimeter section with subframe and overlap

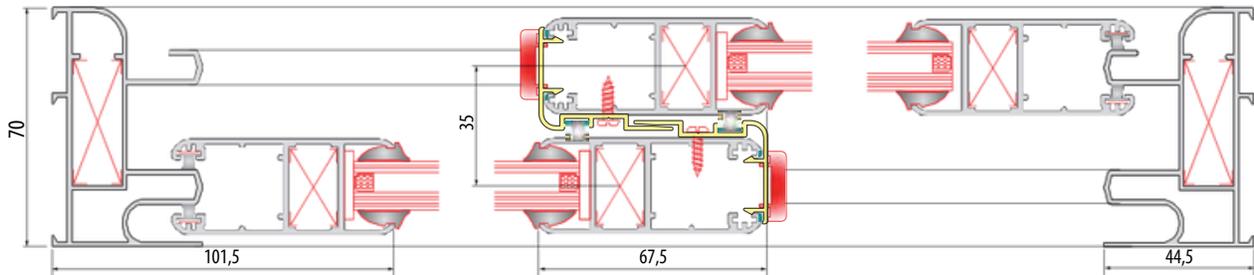
## Technical specifications for the 70 mm perimeter series



### Technical data

<b>Section width</b>	Standard frame width 70 mm / Leaf width 28 mm.
<b>Profile thickness</b>	Thickness 1.4 - 1.6 mm.
<b>Glazing opening</b>	10 and 22 mm (15 mm high glass glaze).
<b>Special profiles</b>	2 and 3 track frame. Reinforced sash. 4-sash cross profile. Glass reducer profile.
<b>Use</b>	Construction of 2, 3, or 4-sash windows in 2 tracks. Construction of 3 or 6-sash windows in 3 tracks. Combination with fixed structures and/or hinged assemblies.
<b>Compatible series</b>	45 mm hinge. It has frames and sliding screen panels compatible with the series.
<b>Alloy of the profiles</b>	EN-AW-6060 T5 / EN-AW-6063 T5. Alloy 6060/6063 and T5 condition, according to chemical composition standards EN 573-3 and mechanical characteristics EN 755-2.
<b>Finishes</b>	Available in surface treatments such as lacquering, anodizing or wood finish, with a wide range of colors and textures.
<b>Hardware</b>	Functional, economical, and high-quality sliding door hardware. Features multipoint locking mechanisms.

## Types of opening

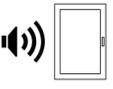


## Maximum dimensions

	Width		Height		Maximum weight per sheet
	1600 mm		2800 mm (3200 mm H/ booster )		120 Kg

Maximum dimensions for 2-leaf balcony door with tandem wheels, consult weight and dimensions for other types.

	Thermal insulation		
	Thermal transmittance of aluminum profiles		$IN_{H,M} = 5,7 \text{ W/m}^2\text{K}$
	Estimated values for a 2-leaf window measuring 1230 x 1480 mm with the indicated glazing. According to standard UNE-EN ISO 10077-1:2010.		
	Glass	$IN_{H,V}$ Thermal transmittance of glass	$IN_H$ Thermal transmittance of the window
4/6/4	3,3 $\text{W/m}^2\text{K}$	4,10 $\text{W/m}^2\text{K}$	
4/10/4	3,0 $\text{W/m}^2\text{K}$	3,90 $\text{W/m}^2\text{K}$	
4/10/4 be	1,8 $\text{W/m}^2\text{K}$	3,10 $\text{W/m}^2\text{K}$	

	Sound insulation		
	Glass (characteristics, $R_{IN}$ )	4/6/6 (32 dB)	4/6/3+3 (34 dB)
	Window sound reduction index ( $R_{IN}$ )	33 (-1;-3) dB	35 (-1;-3) dB

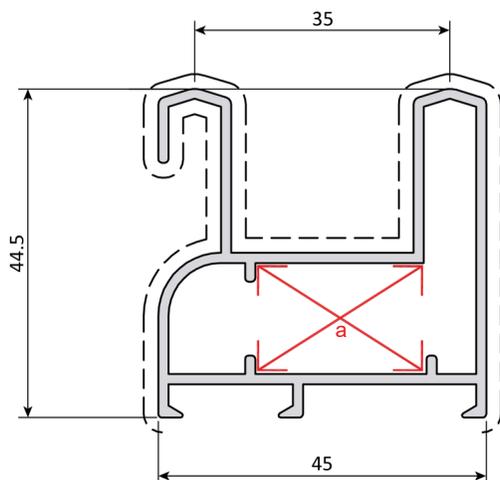
Estimated values for a 2-leaf window measuring 1230 x 1480 mm with the indicated glazing. According to standard UNE-EN 14351-1:2006.

	Mechanical technical characteristics		
	Behavior in response to external factors		
	Classification	Standard	Value
	Air permeability	UNE-EN 12207:2000	Class 3
	Water tightness	UNE-EN 12208:2000	Class 7A
	Wind load resistance	UNE-EN 12210:2000	Class C5

Estimated values pertaining to a 2-leaf window with dimensions 1200 x 1200 mm and glazing 4/6/6.

## 70 mm perimeter series profiles

### Perimeter frame 2 lanes 45 mm



#### Perimeter frame 2 lanes 45 mm

<b>Code: U001</b>	Weight (kg/m): 0.835		
Total perimeter (mm): 441	Overall thickness = 1.4		
Ext. perimeter (mm): 273	Alloy-Temple = 6063 T5		
a	UA002	b	---
c	---	d	---

Available finishes:

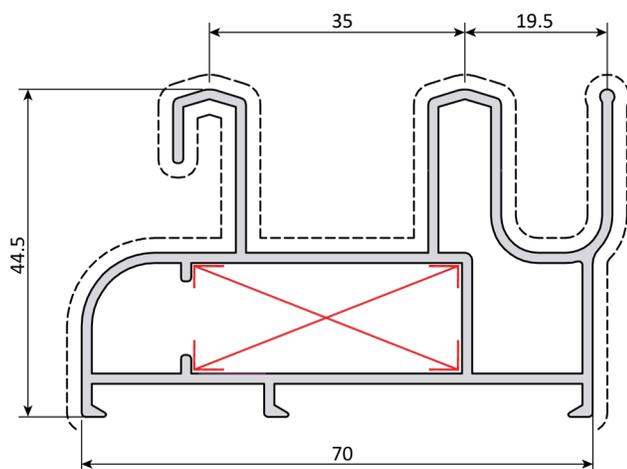


LENGTH 5.85 METERS



\*Check availability of different finishes.

### Perimeter frame with 2 rails, 70 mm, specially designed for interior mosquito nets



#### Perimeter frame with 2 rails, 70 mm

<b>Code: U050</b>	Weight (kg/m): 1.166		
Total perimeter (mm): 611	Overall thickness = 1.4		
Ext. perimeter (mm): 365	Alloy-Temperature = 6063 T5		
a	UA001	b	---
c	---	d	---

Available finishes:

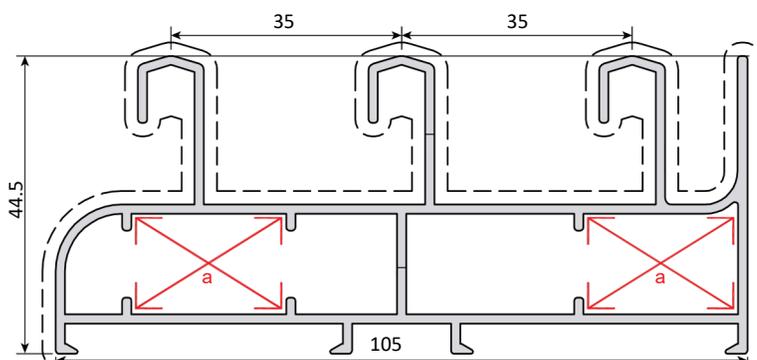


LENGTH 5.85 METERS



\*Check availability of different finishes.

### Perimeter frame 3 lanes 105 mm



#### Perimeter frame 3 lanes 105 mm

<b>Code: U003</b>	Weight (kg/m): 1.608		
Total perimeter (mm): 838	Overall thickness = 1.4		
Ext. perimeter (mm): 551	Alloy-Temple = 6063 T5		
a	UA002	b	---
c	---	d	---

Available finishes:



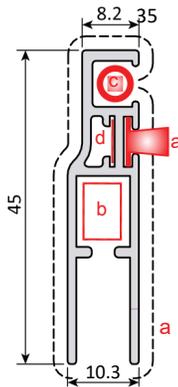
LENGTH 5.85 METERS



\*Check availability of different finishes.

## 70 mm perimeter series profiles

### Sliding mosquito net panel



#### Sliding mosquito net panel

<b>Code: U049</b>		Weight (kg/m): 0.405	
Total perimeter (mm): 223		Overall thickness = 1.3	
Ext. perimeter (mm): 196		Alloy-Temple = 6063 T5	
a	UA012	b	UA004
c	UI013	d	UA003

Available finishes:

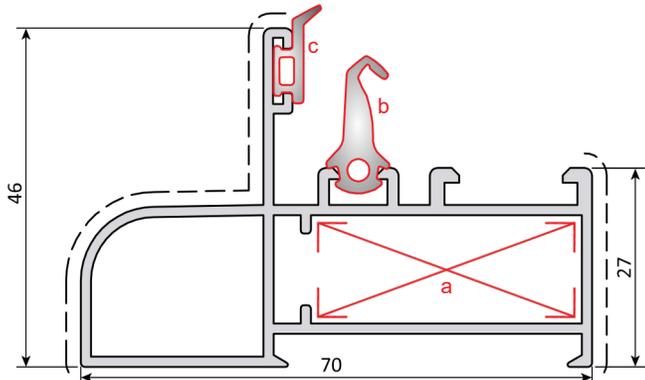


LENGTH 5.85 METERS

\*Check availability of different finishes.



### Window frame 70 x 46 mm



#### Window frame 70 x 46 mm

<b>Code: U005</b>		Weight (kg/m): 0.995	
Total perimeter (mm): 512		Overall thickness = 1.4	
Ext. perimeter (mm): 307		Alloy-Temperature = 6063 T5	
a	UA001	b	UI001
c	UI003	d	---

Available finishes:

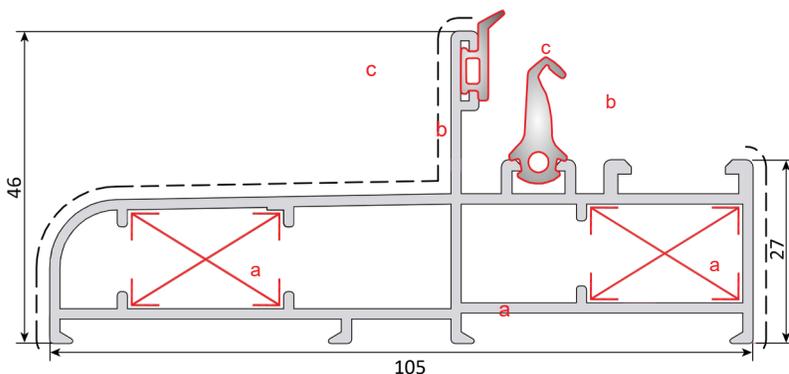


LENGTH 5.85 METERS

\*Check availability of different finishes.



### Window frame 105 x 46 mm



#### Window frame 105 x 46 mm

<b>Code: U006</b>		Weight (kg/m): 1.323	
Total perimeter (mm): 682		Overall thickness = 1.4	
Ext. perimeter (mm): 396		Alloy-Temperature = 6063 T5	
a	UA002	b	UI001
c	UI003	d	---

Available finishes:



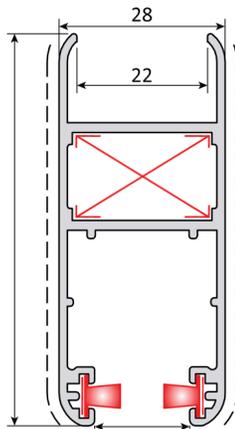
LENGTH 5.85 METERS

\*Check availability of different finishes.



## 70 mm perimeter series profiles

### Perimeter sheet 28 x 66 mm. HV 22 mm



#### Perimeter sheet 28 x 66 mm. HV 22 mm

<b>Code: U007</b>		Weight (kg/m): 0.856	
Total perimeter (mm): 420		Overall thickness = 1.4	
Ext. perimeter (mm): 341		Alloy-Temple = 6063 T5	
a	UA002	b	UA003
c	UA012	d	---

Available finishes:

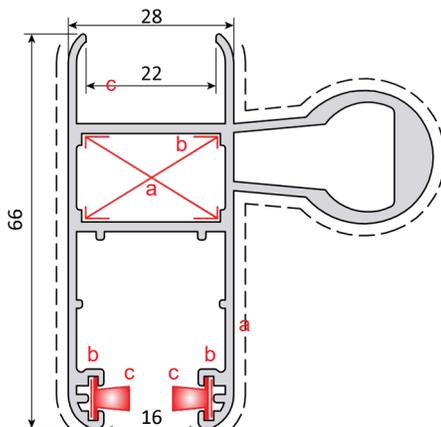


LENGTH 5.85 METERS

\*Check availability of different finishes.



### Perimeter sheet 28 x 66 mm with reinforcement. HV 22 mm



#### Perimeter sheet 28 x 66 mm with reinforcement. HV 22 mm

<b>Code: U008</b>		Weight (kg/m): 1.413	
Total perimeter (mm): 573		Overall thickness = 1.4	
Ext. perimeter (mm): 341		Alloy-Temperature = 6063 T5	
a	UA002	b	UA003
c	UA012	d	UA013

Available finishes:

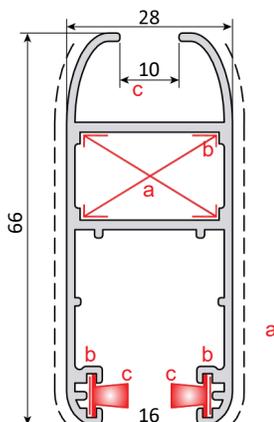


LENGTH 5.85 METERS

\*Check availability of different finishes.



### Perimeter sheet 28 x 66 mm. HV 10mm



#### Perimeter sheet 28 x 66 mm. HV 10mm

<b>Code: U009</b>		Weight (kg/m): 0.883	
Total perimeter (mm): 426		Overall thickness = 1.4	
Ext. perimeter (mm): 347		Alloy-Temperature = 6063 T5	
a	UA002	b	UA003
c	UA012	d	---

Available finishes:



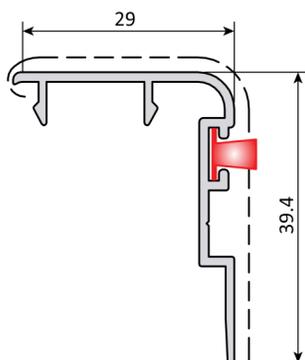
LENGTH 5.85 METERS

\*Check availability of different finishes.



## 70 mm perimeter series profiles

## Straight cross of center leaf 28 x 66 mm



## Straight cross of center leaf 28 x 66 mm

<b>Code: U010</b>		Weight (kg/m): 0.308	
Total perimeter (mm): 182		Overall thickness = 1.3	
Ext. perimeter (mm): 182		Alloy-Temple = 6063 T5	
a	UA012	b	TORNILLO D-3,5X12mm
c	---	d	---

Available finishes:

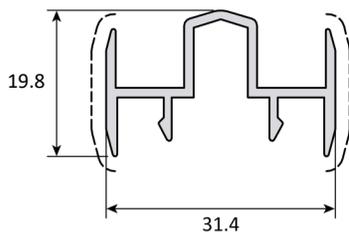


LENGTH 5.85 METERS

\*Check availability of different finishes.



## Central cross 4 leaves, 28 mm wide



## Central cross 4 leaves, 28 mm wide

<b>Code: U011</b>		Weight (kg/m): 0.318	
Total perimeter (mm): 186		Overall thickness = 1.3	
Ext. perimeter (mm): 186		Alloy-Temperature = 6063 T5	
a	---	b	---
c	---	d	---

Available finishes:

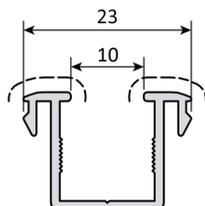


LENGTH 5.85 METERS

\*Check availability of different finishes.



## Glass gap reducer 22 - 10 mm



## Glass gap reducer 22 - 10 mm

<b>Code: U012</b>		Weight (kg/m): 0.216	
Total perimeter (mm): 133		Overall thickness = 1.3	
Ext. perimeter (mm): 133		Alloy-Temperature = 6063 T5	
a	TORNILLO D-3,5X12mm	b	---
c	---	d	---

Available finishes:



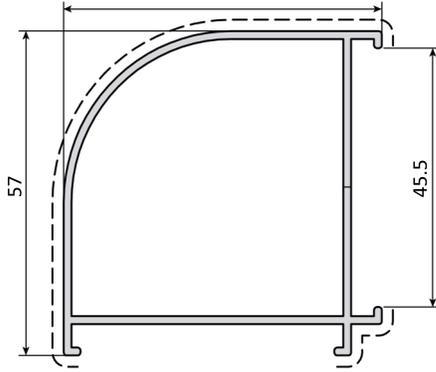
LENGTH 5.85 METERS

\*Check availability of different finishes.



## 70 mm perimeter series profiles

### 90° corner piece for 45 mm frame



#### 90° corner piece for 45 mm frame

<b>Code: U026</b>		Weight (kg/m): 0.815	
Total perimeter (mm): 430		Overall thickness = 1.4	
Ext. perimeter (mm): 247		Alloy-Temple = 6063 T5	
a	---	b	---
c	---	d	---

Available finishes:

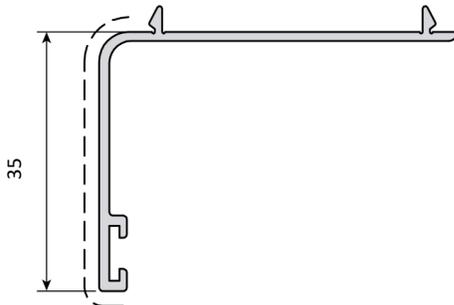


LENGTH 5.85 METERS

\*Check availability of different finishes.



### 35 overlap for 45 mm frame



#### 35 overlap for 45 mm frame

<b>Code: U030</b>		Weight (kg/m): 0.329	
Total perimeter (mm): 194		Overall thickness = 1.4	
Ext. perimeter (mm): 194		Alloy-Temperature = 6063 T5	
a	---	b	---
c	---	d	---

Available finishes:



LENGTH 5.85 METERS

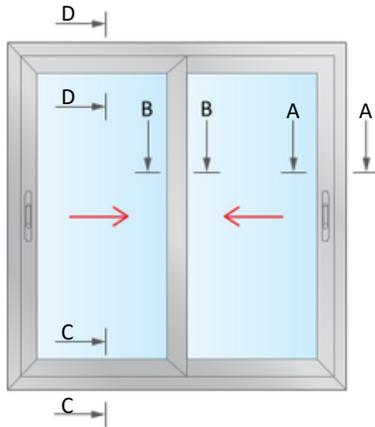
\*Check availability of different finishes.



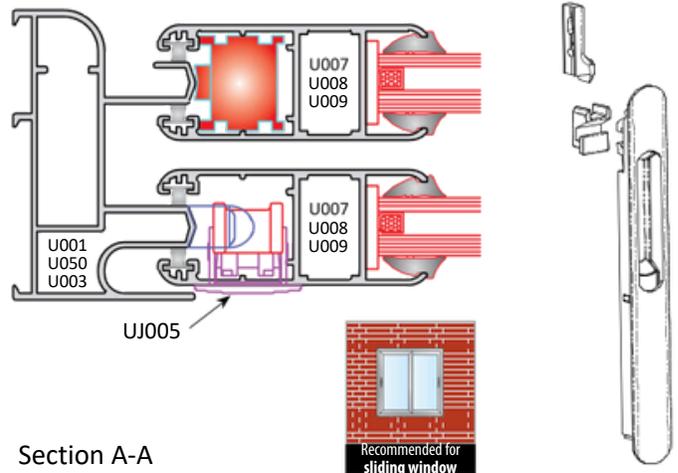
## 70 mm perimeter series sections

### Section A-A views

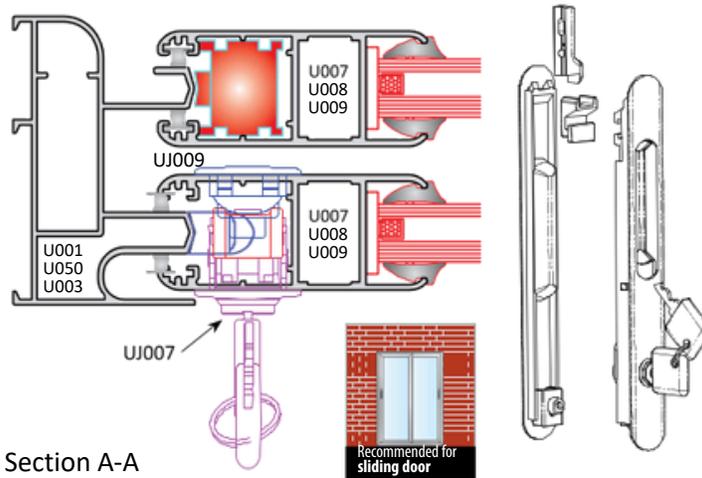
Sliding window with 2 leaves



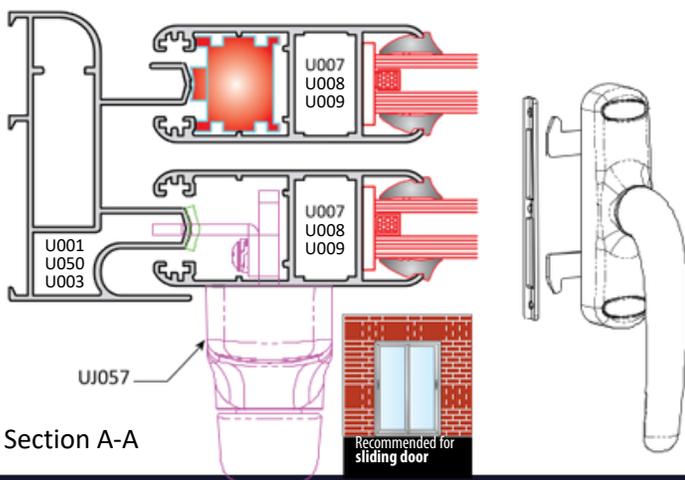
Concealed screw nail closure



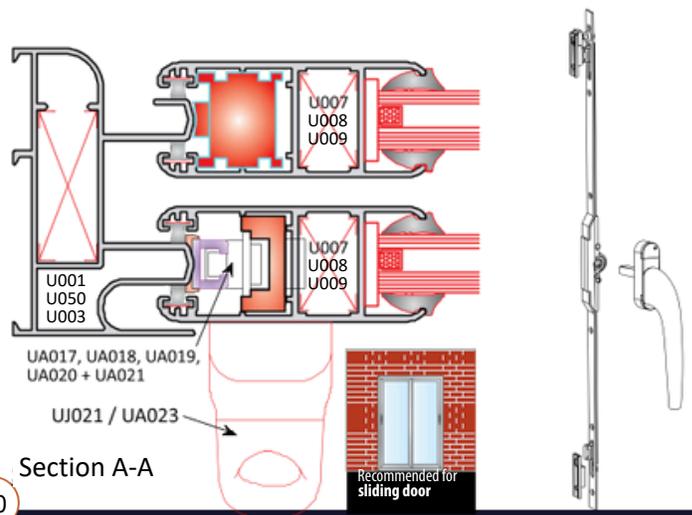
Key lock with recessed external handle



Secureasy Lock



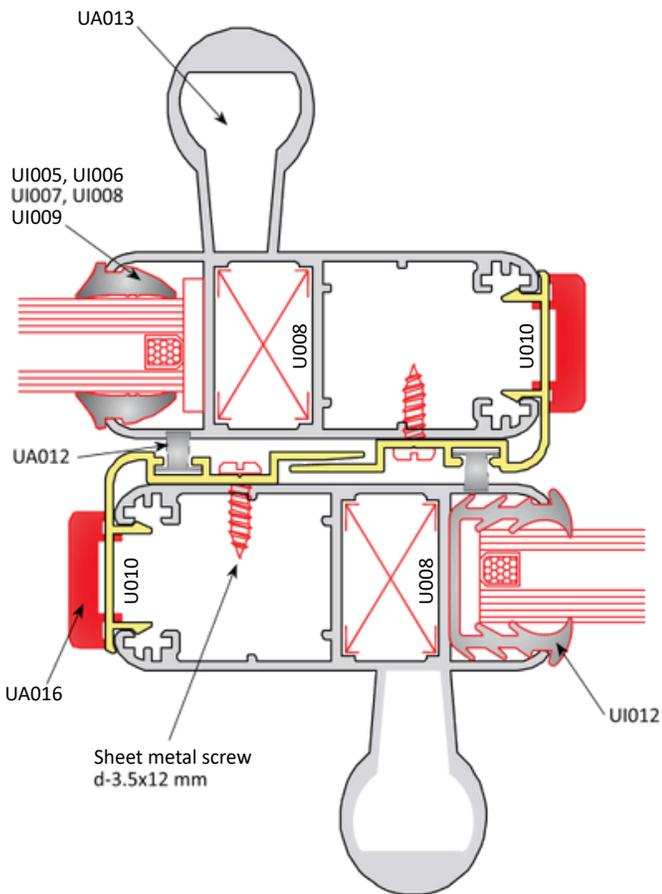
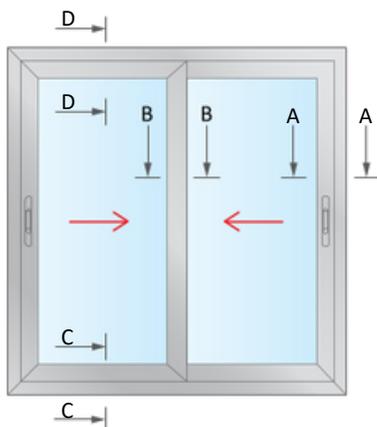
European multipoint lock



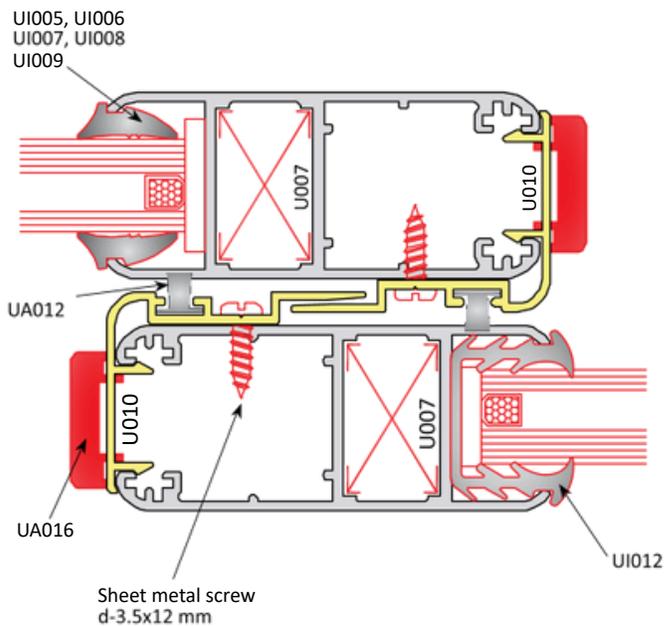
## 70 mm perimeter series sections

### Section B-B views

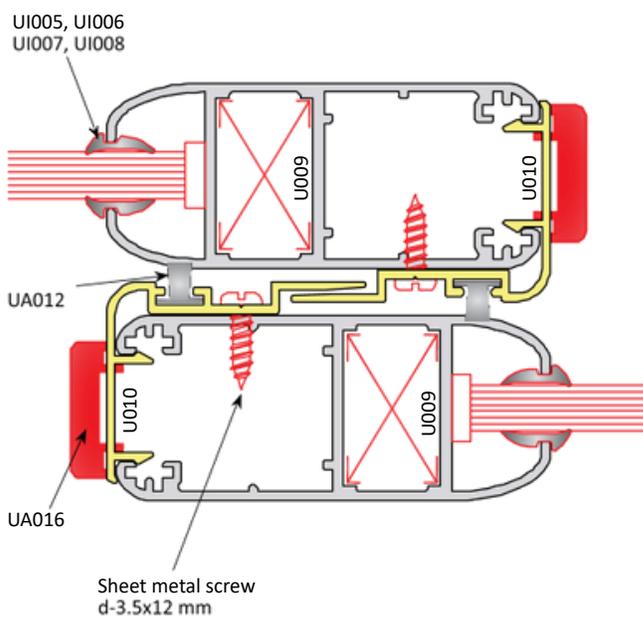
Sliding window with 2 leaves



Section B-B



Section B-B

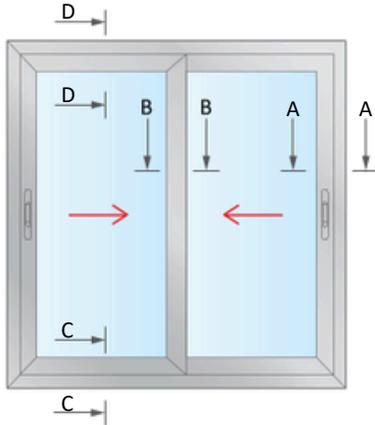


Section B-B

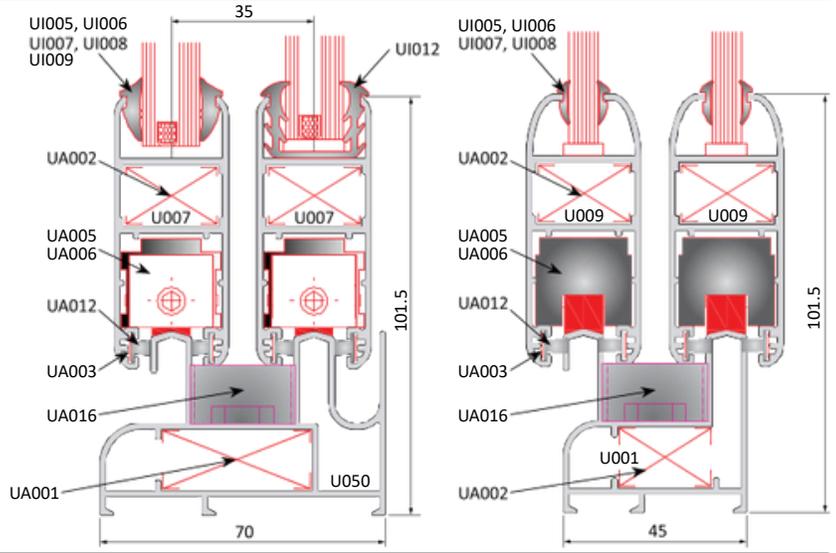
## 70 mm perimeter series sections

### Section C-C views

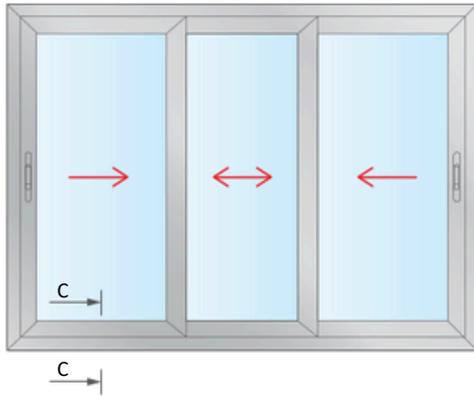
Sliding window with 2 leaves



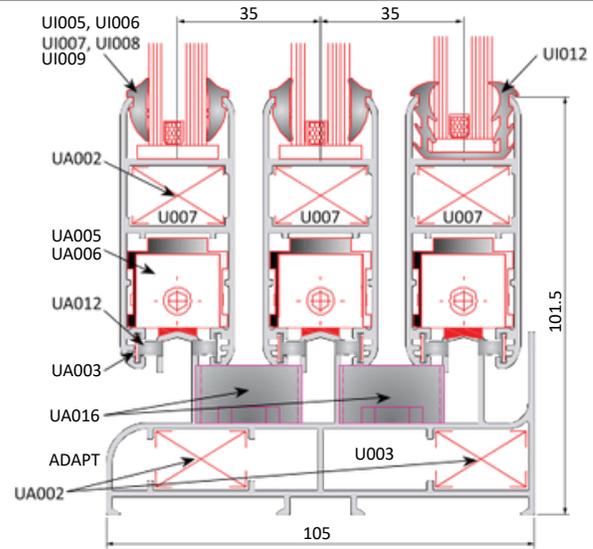
Section C-C



Sliding window with 3 leaves

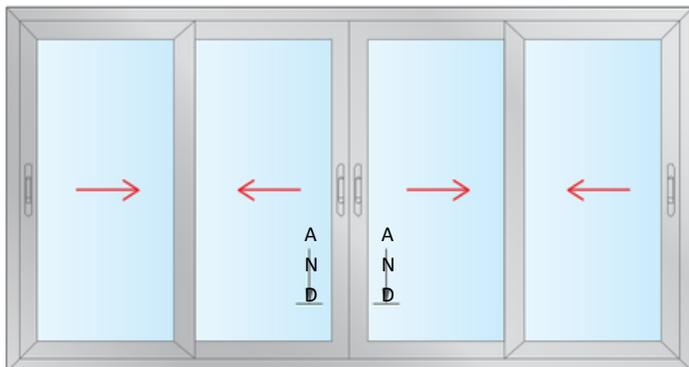


Section C-C

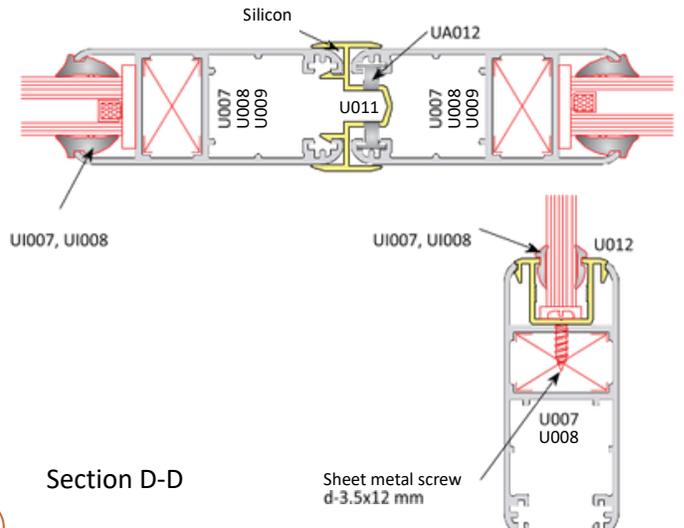


### Section D-D views

Sliding window with 4 leaves



Section D-D

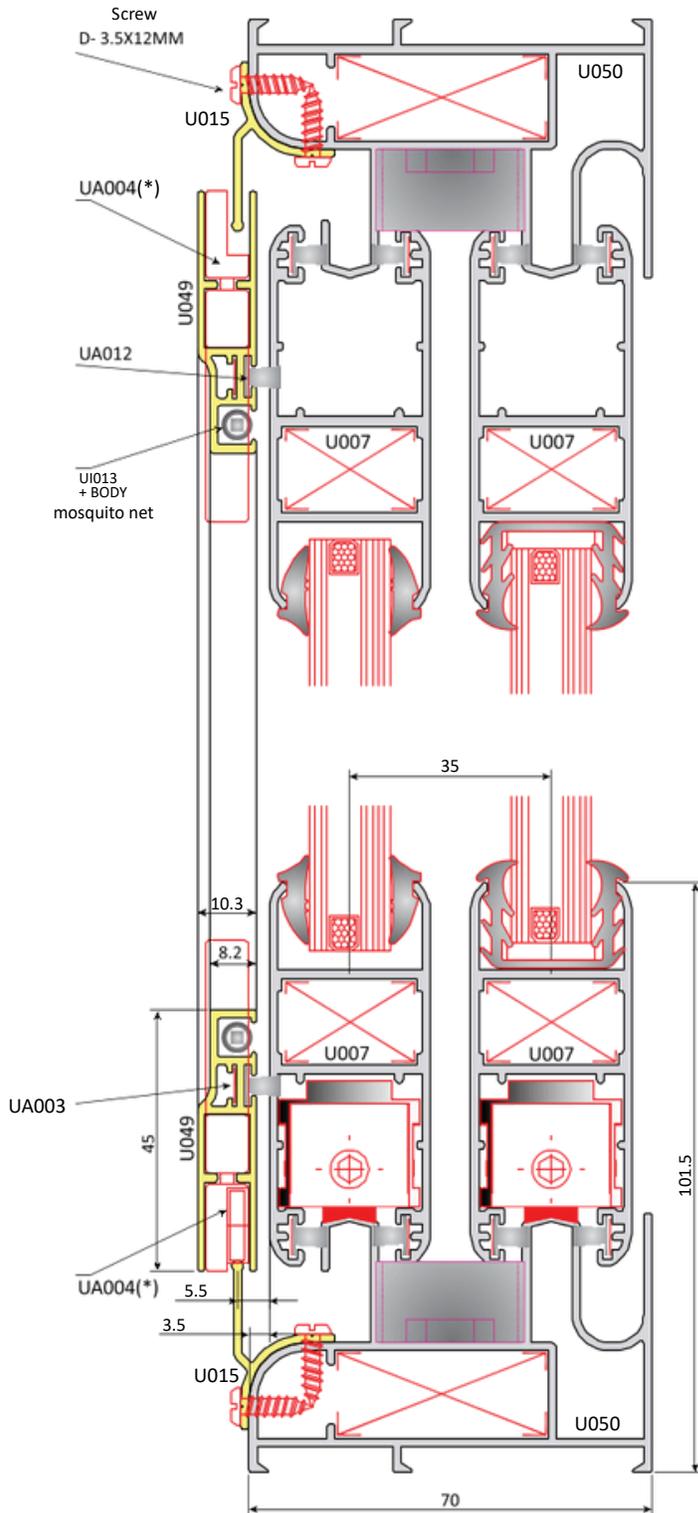


Section D-D

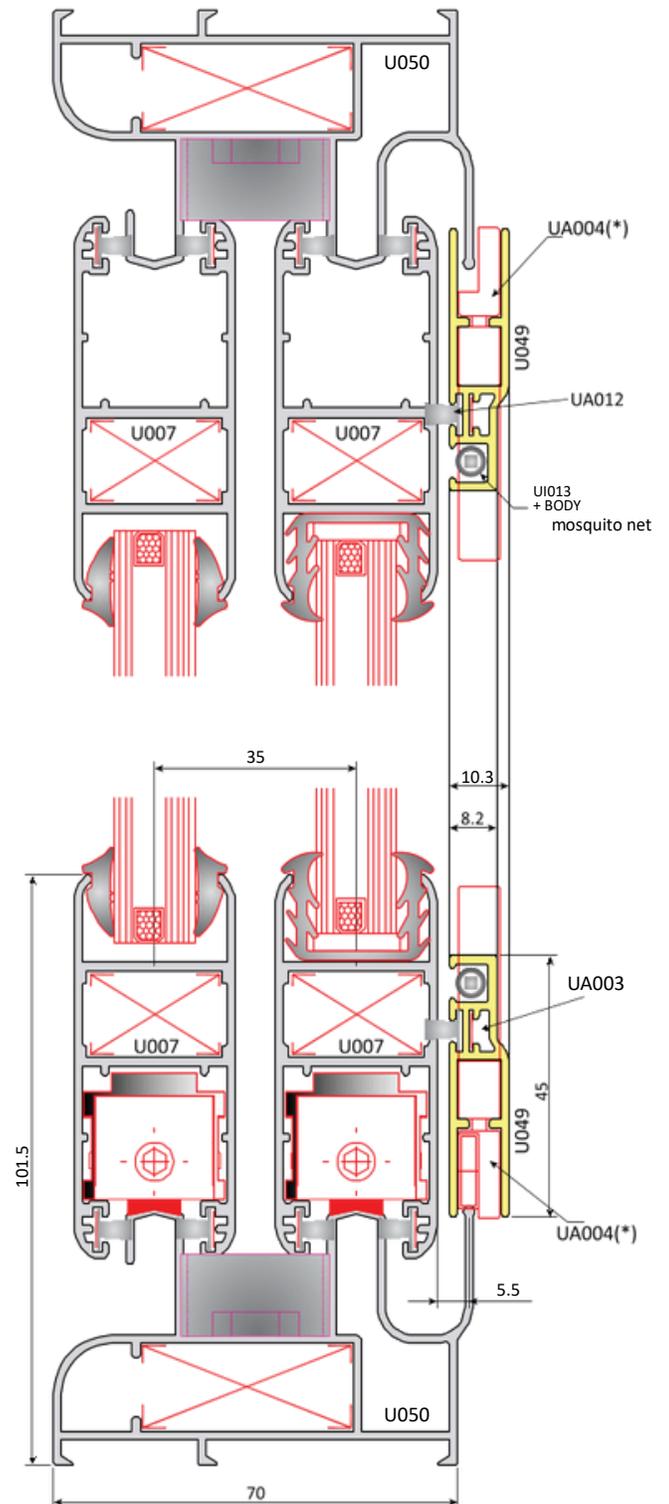
## 70 mm perimeter series sections

### Sliding mosquito net sections

Sliding window with 2 leaves



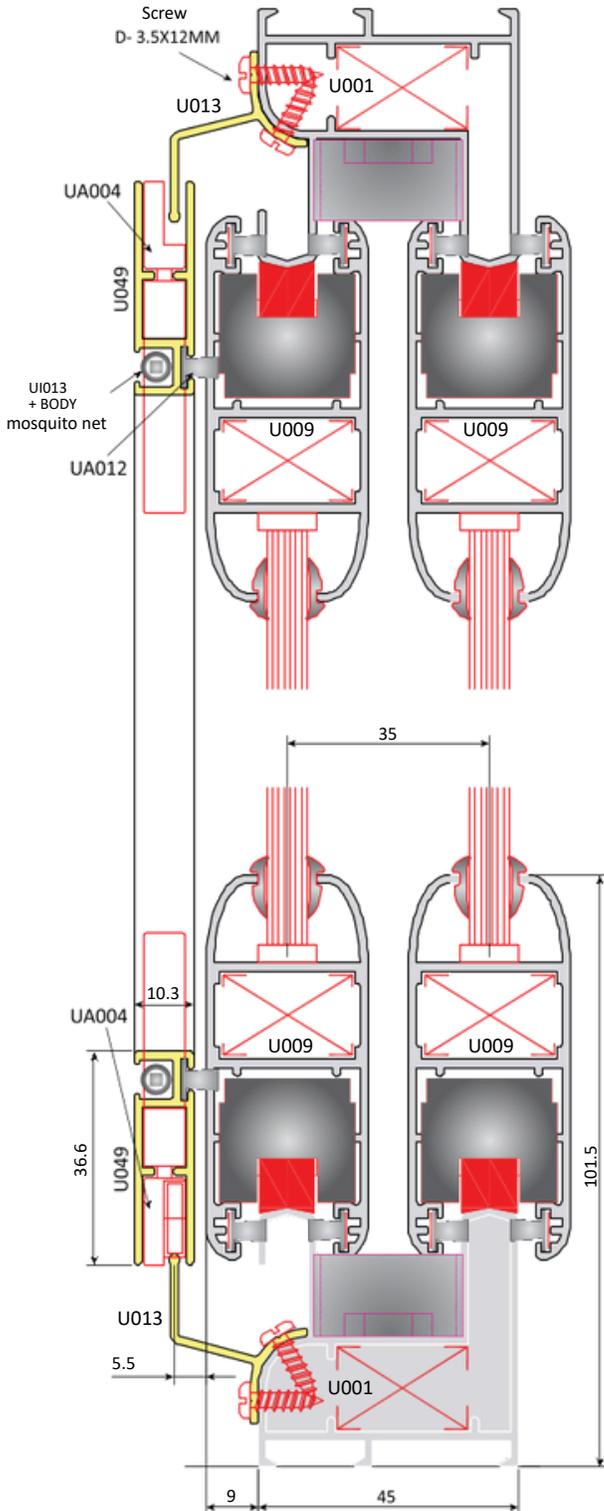
Sliding window with 2 leaves



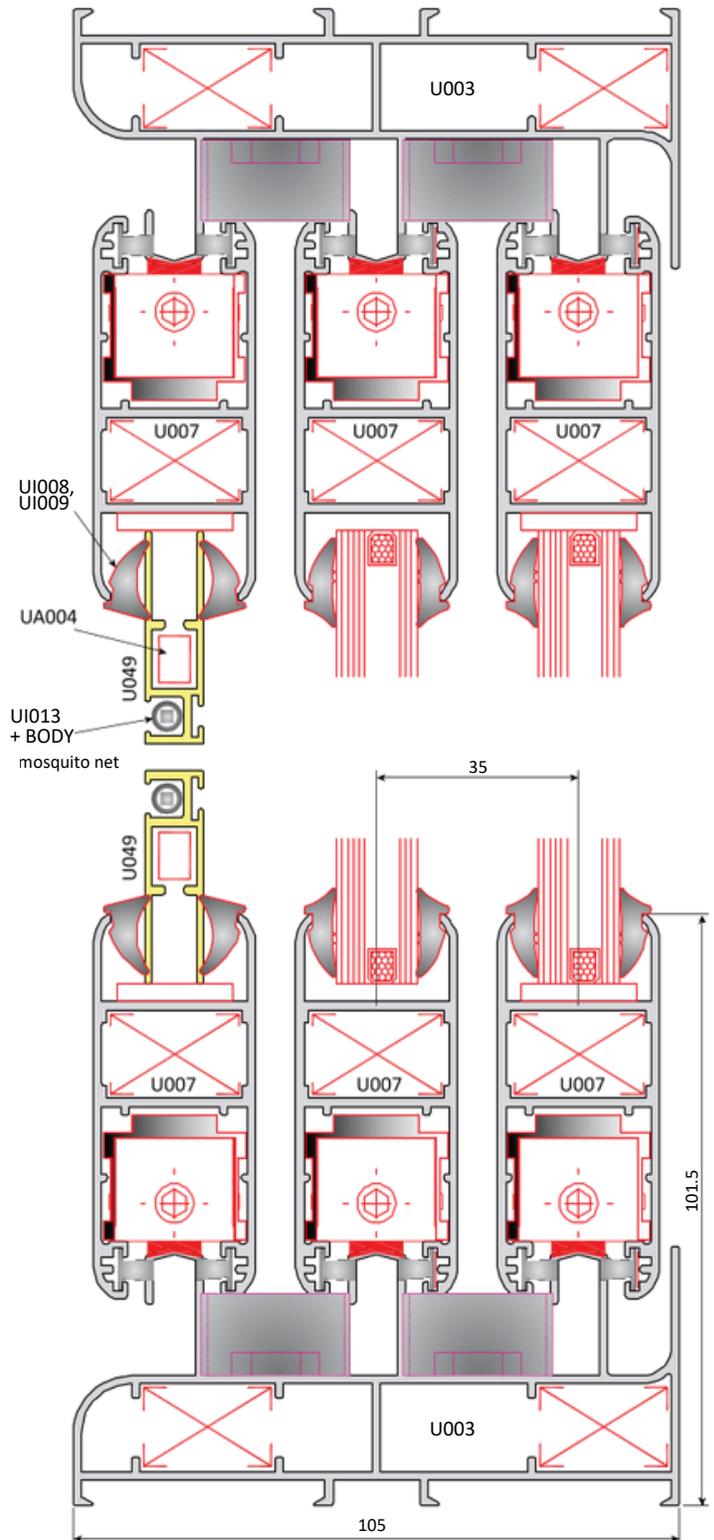
70 mm perimeter series sections

Sliding mosquito net sections

Sliding window with 2 leaves

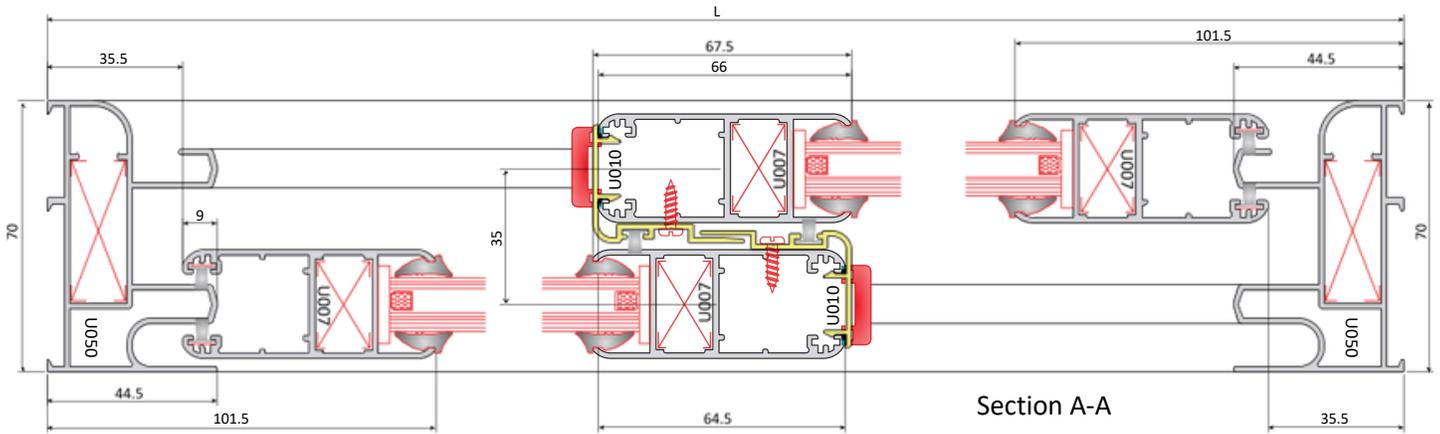


Sliding window with 3 leaves

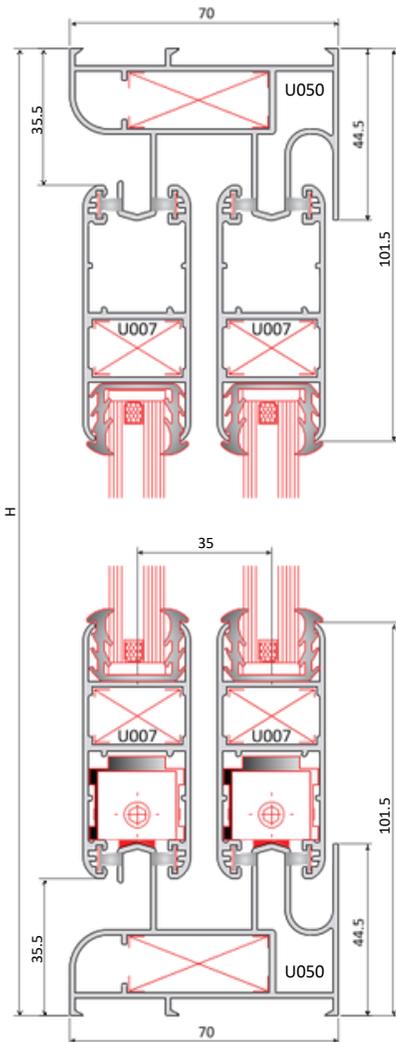
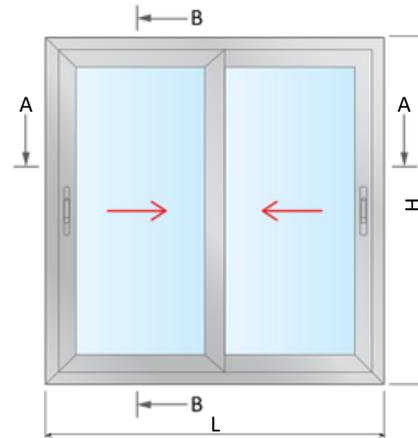


## 70mm Perimeter Series Cutting Boards

### Cutting measurements (2-leaf window)



### Sliding window with 2 leaves

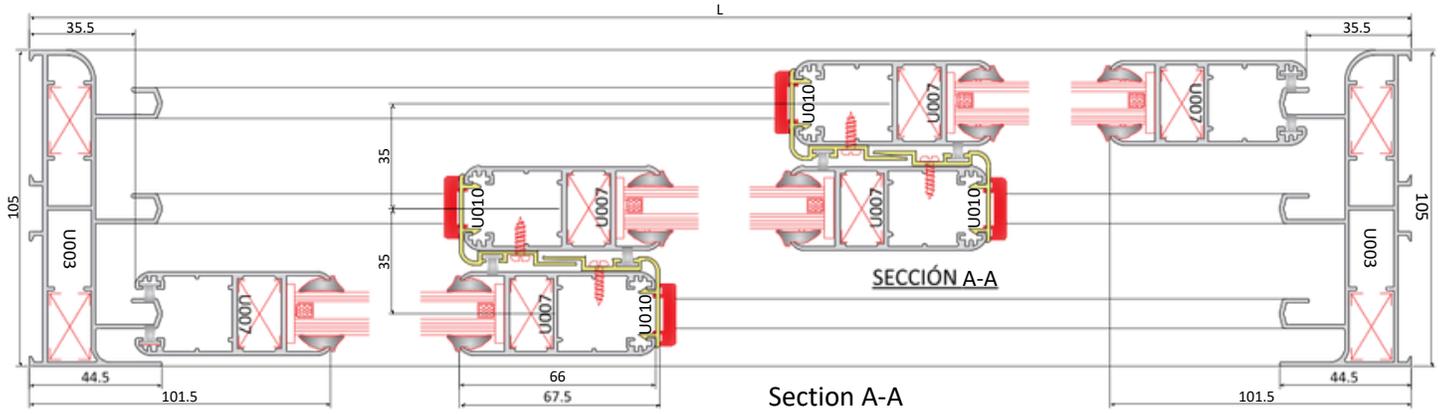


Section B-B

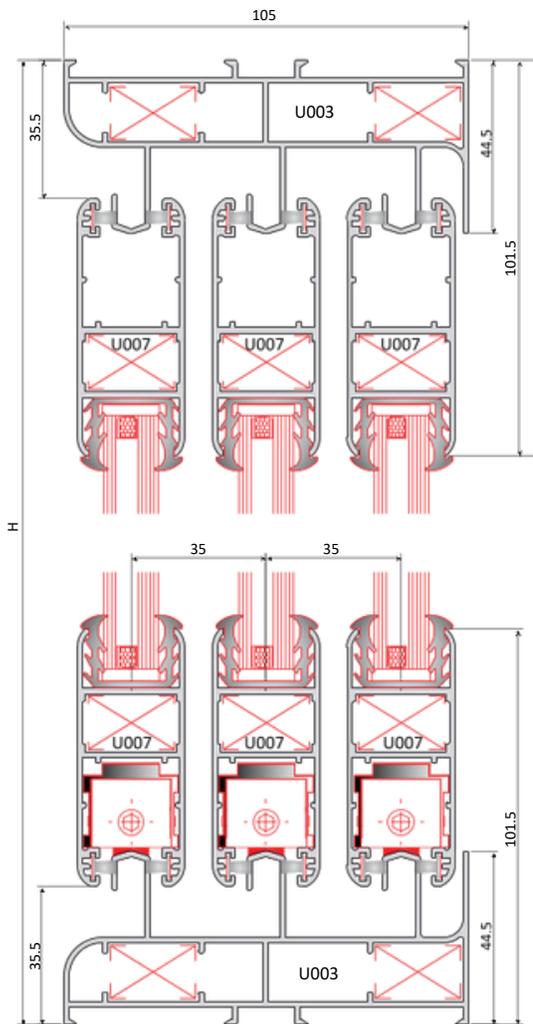
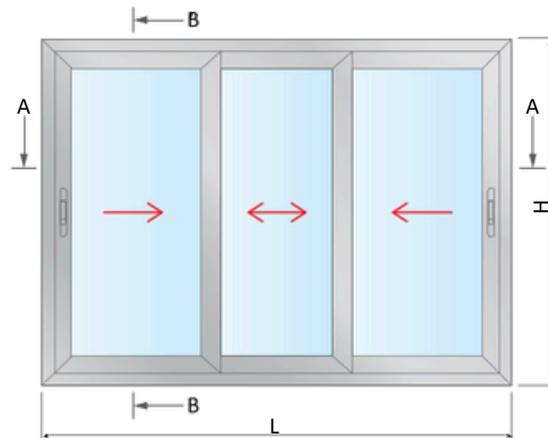
70 mm PERIMETER SLIDING SERIES Cutting measurements (2-leaf window)			H = frame height / L = frame width Theoretical cutting measurements, check before serial cutting	
CROQUIS	REF.	Description	Cutting m. (mm)	Units and type of cut
	U050	2 lanes frame	H L	2 units 2 units
	U007	Leaf	H - 71 (L - 6.5) / 2	4 units 4 units
	U010	Central cross	H - 71	2 units
---	---	Glass (5 mm shim)	H - 183 (L - 230.5) / 2	Glass 2 units

## 70mm Perimeter Series Cutting Boards

### Cutting measurements (3-leaf window)



Sliding window with 3 leaves

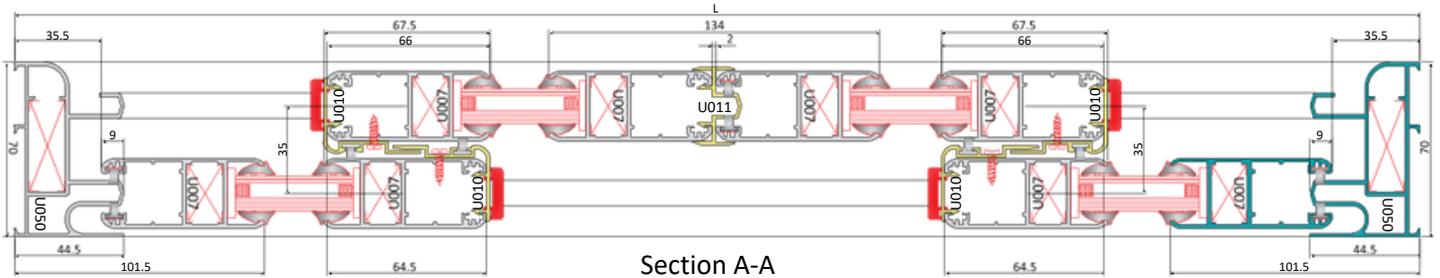


Section B-B

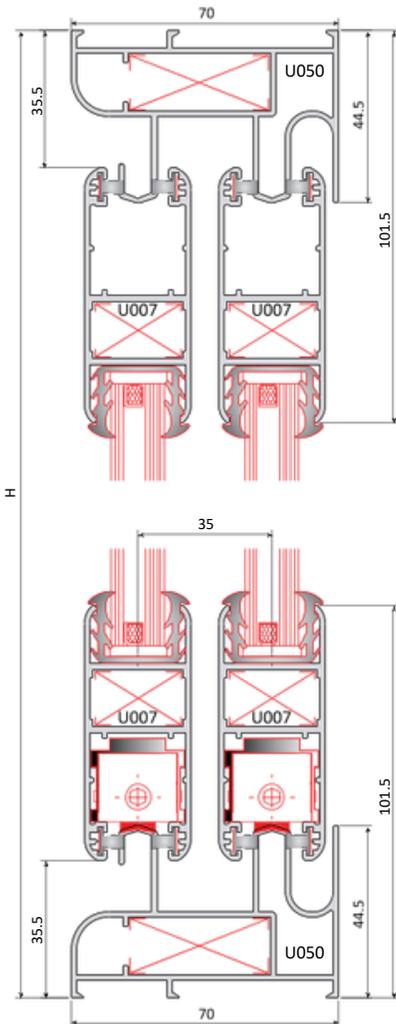
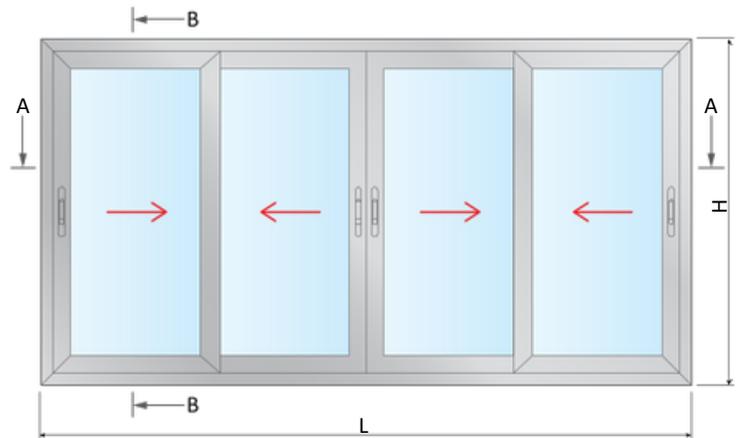
70 mm PERIMETER SLIDING SERIES Cutting measurements (3-leaf window)			H = frame height / L = frame width Theoretical cutting measurements, check before serial cutting	
CROQUIS	REF.	Description	Cutting m. (mm)	Units and type of cut
	U003	3 lanes frame	H L	2 units 2 units
	U007	Leaf	H - 71 (L + 58) / 3	6 units 6 units
	U010	Central cross	H - 71	4 units
---	---	Glass (5 mm shim)	H - 183 (L - 278) / 3	Glass 3 units

## 70mm Perimeter Series Cutting Boards

### Cutting measurements (4-leaf window)



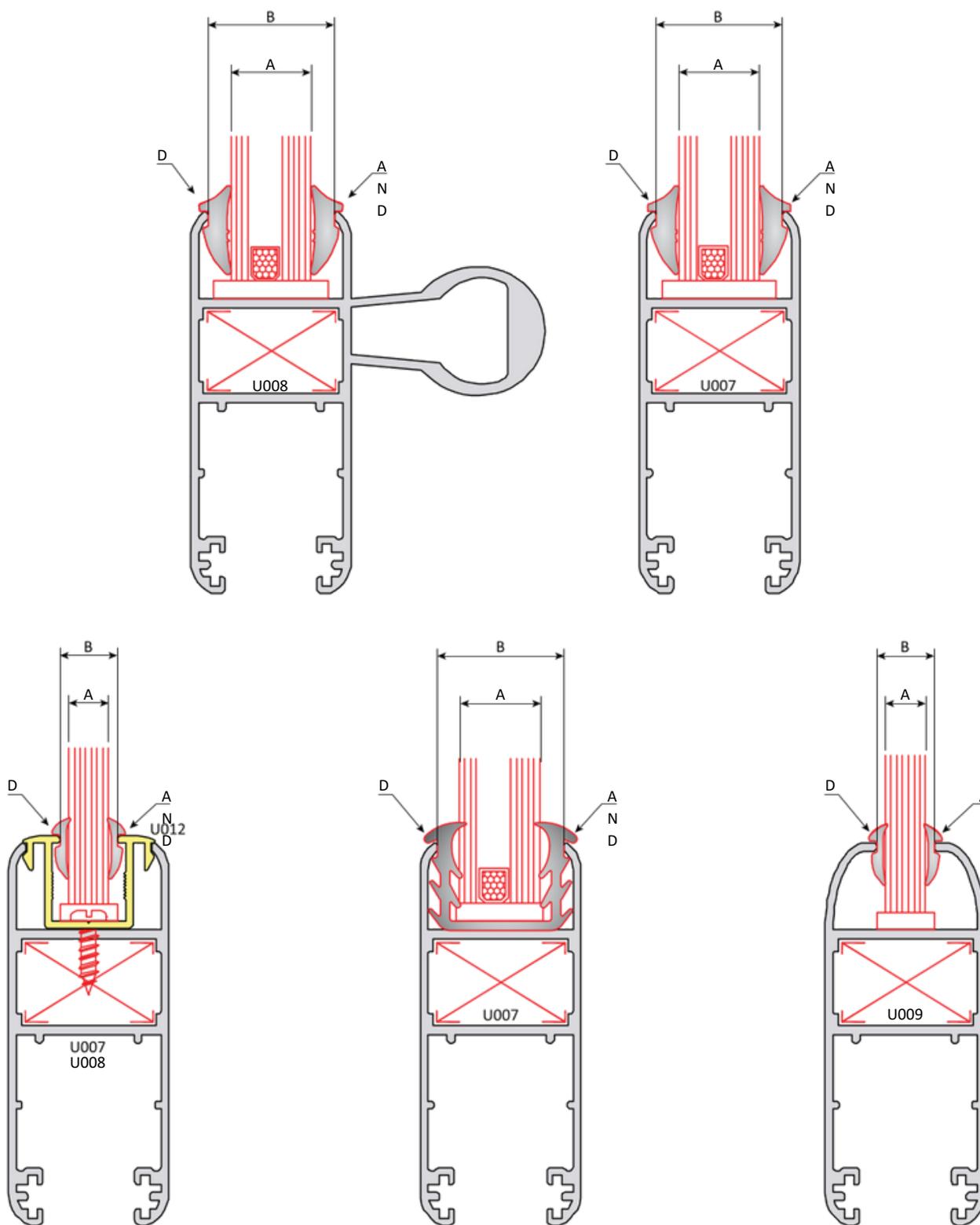
### Sliding window with 4 leaves



70 mm PERIMETER SLIDING SERIES Cutting measurements (4-leaf window)			H = frame height / L = frame width Theoretical cutting measurements, check before serial cutting	
CROQUIS	REF.	Description	Cutting m. (mm)	Units and type of cut
	U050	2 lanes frame	H L	2 units 2 units
	U007	Leaf	H - 71 (L + 56) / 4	8 units 8 units
	U010	Central cross	H - 71	4 units
	U011	Central cross 4 leaves	H - 89	1 unit
	---	Glass (5 mm shim)	H - 183 (L - 392) / 4	Glass 4 units

## Perimeter Series 70 mm Glazing Boards

### Glazing measurements



Sketches and tables valid for profiles: U007, U008, U009 and U012

## Perimeter Series 70 mm Glazing Boards

## Glazing measurements

Perimeter Series 70 mm Glazing Boards					
Sketches and tables valid for profiles: U007, U008, U009 and U012					
(A)	(B)	PERFIL (C)		(D)	(E)
GLASS	TOTAL GAP	CODE	BROAD	EXTERNAL SEAL	INNER SEAL
22 mm	22 mm	U007 / U008	22 mm	No (0 mm)	No (0 mm)
20 mm	22 mm	U007 / U008	22 mm	Silicon (2 mm)	No (0 mm)
18 mm	22 mm	U007 / U008	22 mm	Silicon (2 mm)	Silicon (2 mm)
18 mm	22 mm	U007 / U008	22 mm	UI005 (2 mm)	UI005 (2 mm)
17 mm	22 mm	U007 / U008	22 mm	UI006 (3 mm)	UI005 (2 mm)
16 mm	22 mm	U007 / U008	22 mm	UI006 (3 mm)	UI006 (3 mm)
16 mm	22 mm	U007 / U008	22 mm	UI012 (3+3 mm)	
15 mm	22 mm	U007 / U008	22 mm	UI007 (4 mm)	UI006 (3 mm)
14 mm	22 mm	U007 / U008	22 mm	UI007 (4 mm)	UI007 (4 mm)
13 mm	22 mm	U007 / U008	22 mm	UI008 (5 mm)	UI007 (4 mm)
12 mm	22 mm	U007 / U008	22 mm	UI008 (5 mm)	UI008 (5 mm)
12 mm	22 mm	U007 / U008	22 mm	UI008 (5 mm)	UI008 (5 mm)
11 mm	22 mm	U007 / U008	22 mm	UI009 (6 mm)	UI008 (5 mm)
10 mm	22 mm	U007 / U008	22 mm	UI009 (6 mm)	UI009 (6 mm)
10 mm	10 mm	U009 / U012	10 mm	No (0 mm)	No (0 mm)
8 mm	10 mm	U009 / U012	10 mm	Silicon (2 mm)	No (0 mm)
6 mm	10 mm	U009 / U012	10 mm	Silicon (2 mm)	Silicon (2 mm)
6 mm	10 mm	U009 / U012	10 mm	UI005 (2 mm)	UI005 (2 mm)
5 mm	10 mm	U009 / U012	10 mm	UI006 (3 mm)	UI005 (2 mm)
4 mm	10 mm	U009 / U012	10 mm	UI006 (3 mm)	UI006 (3 mm)
3 mm	10 mm	U009 / U012	10 mm	UI007 (4 mm)	UI006 (3 mm)
2 mm	10 mm	U009 / U012	10 mm	UI007 (4 mm)	UI007 (4 mm)
1 mm	10 mm	U009 / U012	10 mm	UI007 (4 mm)	UI008 (5 mm)

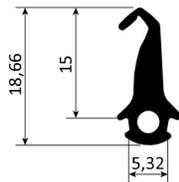
## Hardware for the Perimetral Series 70 mm door and window system

## EPDM rubber plans

## EPDM Central Board



**EPDM**  
HIGH QUALITY

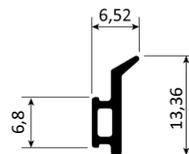


Code  
UI001

## EPDM clipped outer frame gasket



**EPDM**  
HIGH QUALITY

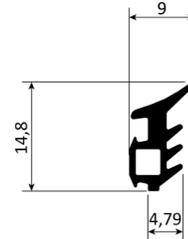


Code  
UI003

## 4 mm EPDM exterior glazing gasket



**EPDM**  
HIGH QUALITY

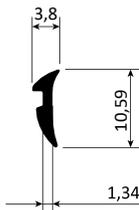


Code  
UI004

## 2 mm EPDM glazing gasket



**EPDM**  
HIGH QUALITY

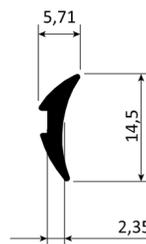


Code  
UI005

## 3 mm EPDM glazing gasket



**EPDM**  
HIGH QUALITY

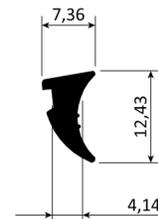


Code  
UI006

## 4 mm EPDM glazing gasket



**EPDM**  
HIGH QUALITY

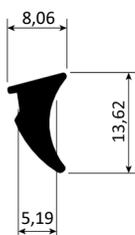


Code  
UI007

## 5 mm EPDM glazing gasket



**EPDM**  
HIGH QUALITY

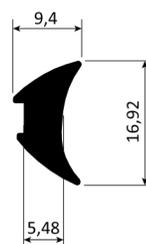


Code  
UI008

## 6 mm EPDM glazing gasket



**EPDM**  
HIGH QUALITY

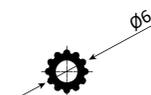


Code  
UI009

## EPDM mosquito net rubber



**EPDM**  
HIGH QUALITY



Code  
UI013

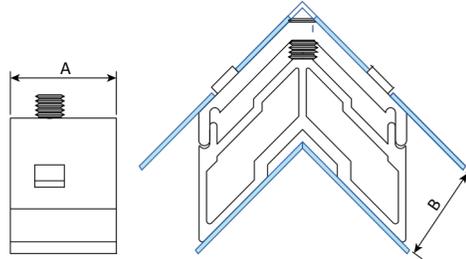
## Hardware for 70mm Perimeter Series Door and Window Systems

### Corners - Bearings - Handles - Locks

#### 37 x 16 mm fixed pin bracket



Code  
**UA001**



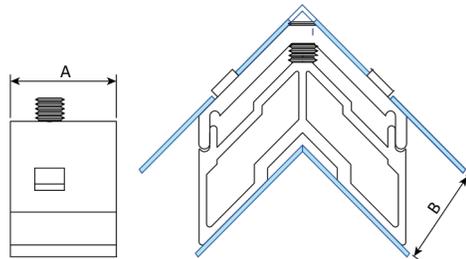
A = 37 mm  
B = 16 mm

- Extruded aluminum bracket with high corrosion resistance.
- Greater rigidity and alignment in the miters because it works by expansion.
- It works on U050, U004 and U005 frame profiles.

#### Fixed pin bracket 23 x 15 mm



Code  
**UA002**



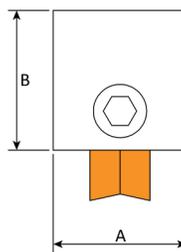
A = 15 mm  
B = 23 mm

- Extruded aluminum bracket with high corrosion resistance.
- Greater rigidity and alignment in the miters because it works by expansion.
- It works on U001, U003, U006 frame profiles and U007, U008 and U009 leaf profiles.

#### 23.2 x 21.6 mm nylon double wheel



Code  
**UA005**



A = 21.6 mm  
B = 23.2 mm

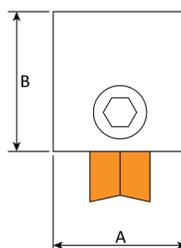
- Non-adjustable double wheel with housing reinforced PVC and needle bearing.
- Recommended for sliding windows with a maximum weight of 90 kg per pair.
- It works on sheet profiles U007, U008 and U009.



#### 23.2 x 21.6 mm zamak double wheel



Code  
**UA006**



A = 21.6 mm  
B = 23.2 mm

- Non-adjustable double wheel with housing reinforced ZAMAC and needle bearing.
- Recommended for sliding doors. Maximum weight of 180 kg per pair.
- It works on sheet profiles U007, U008 and U009.



### Hardware for 70mm Perimeter Series Door and Window Systems

#### Corners - Bearings - Handles - Locks

##### 6.9 x 5.1 mm Alignment Square



Code  
**UA003**

- Stainless steel alignment square.
- Increases rigidity and precision in the leaf profile joint.
- Works with leaf profiles U007, U008, and U009.

##### 70 mm perimeter PVC kit



Code  
**UA016**

- Polyamide and rubber components designed to ensure greater weatherproofing and smooth operation of windows and doors.
- The kit includes weatherstripping, safety stops, and anti-tip devices.

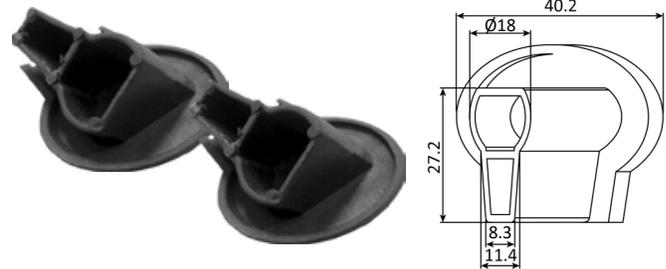
##### 6.9 x 6 mm plush gasket with Fin-Seal



Code  
**UA012**

- Felt seal with Fin-Seal, significantly more resistant to wear thanks to a flexible, transparent PVC rib.
- Available in black, 350-meter roll.
- Compatible with U007, U008, U009, U010, and U049 sash profiles.

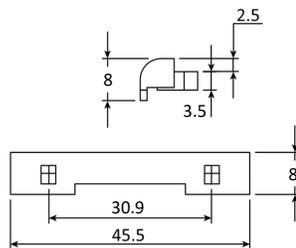
##### PVC cover with sliding reinforcement leaf



Code  
**UA013**

- Black PVC decorative trim piece.
- Fits U008 profile sashes.
- Sold in pairs.

##### Pour water



Code  
**UA015**

- Black PVC decorative trim piece.
- It works on sliding frames and fixed frames.

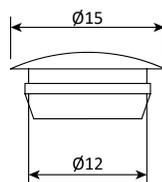
##### Drain valve



Code  
**UA014**

- Black PVC decorative trim piece.
- It works on sliding frames.

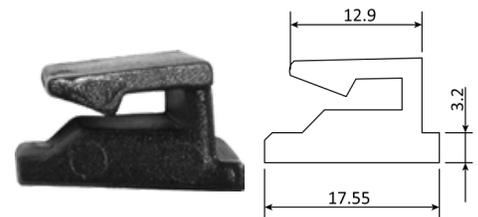
##### 12mm decorative stopper



Code  
**UA070**

- Black PVC decorative trim piece.
- It works on sliding frames and fixed frames.

##### Staple for reed



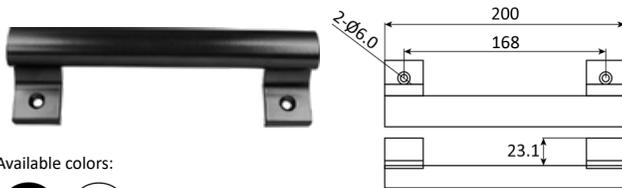
Code  
**UA061**

- Injected polyamide clip for round glazing bead.
- For use with U036, U037, and U048 glazing beads.

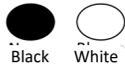
## Hardware for 70mm Perimeter Series Door and Window Systems

### Corners - Bearings - Handles - Locks

#### Handle puller



Available colors:



Code

UJ018

- Made of extruded aluminum, zinc alloy and PVC.

#### Plastic wedges (pack of 100)



Código	Medida
YZ.031	100 x 20 x 1 mm
YZ.032	100 x 20 x 2 mm
YZ.033	100 x 20 x 3 mm
YZ.034	100 x 20 x 4 mm
YZ.035	100 x 20 x 5 mm
YZ.036	100 x 20 x 6 mm

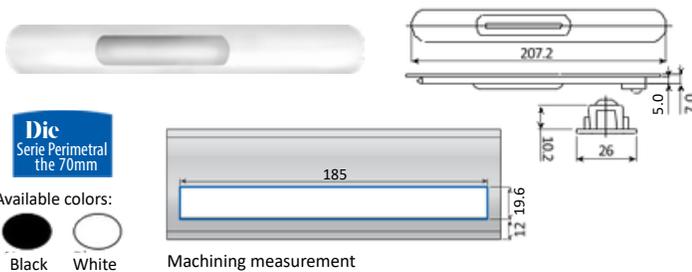
- Made of sealant-resistant material. The special surface shape and solid base make it ideally suited for various purposes. The block design ensures proper positioning of the glass panes during installation.
- Each block has a load capacity of 300 kg.



Acabados disponibles:



#### Simple built-in pull handle


**Dic**  
Serie Perimetral  
the 70mm

Available colors:



Code

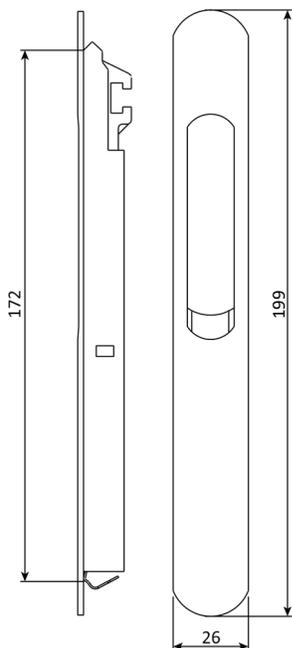
UJ009

- Made of extruded aluminum, zinc alloy and PVC.
- Concealed screw pressure installation system.

## Hardware for 70mm Perimeter Series Door and Window Systems

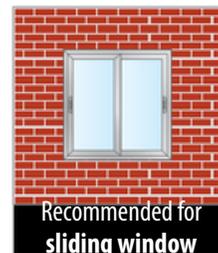
### Corners - Bearings - Handles - Locks

#### Concealed screw perimeter closure



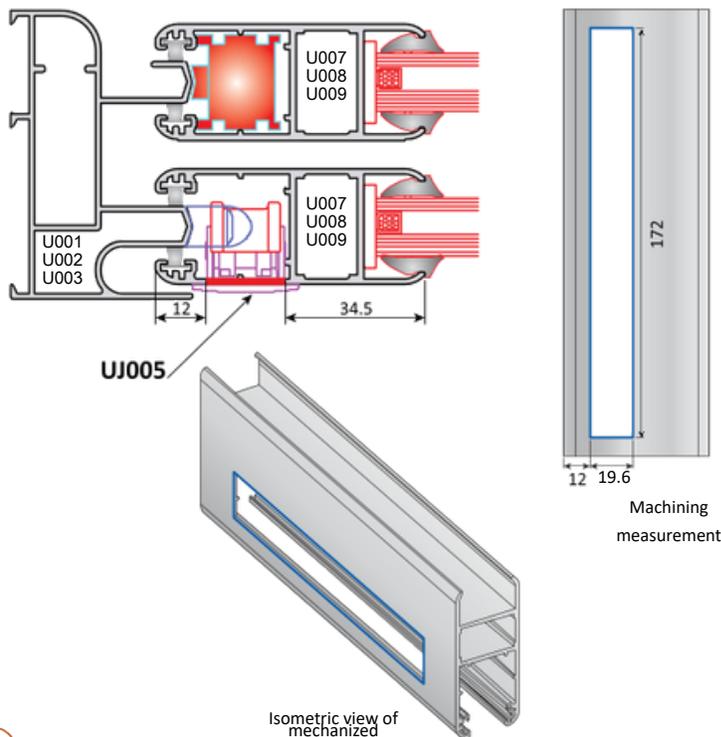
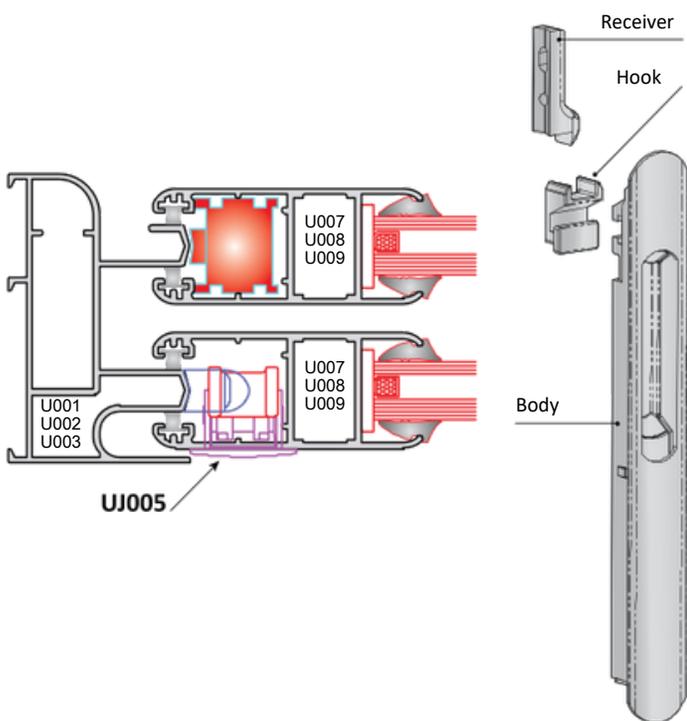
**Characteristics:**

- Made of extruded aluminum, zinc alloy and PVC.
- Available in white and black painted finishes.
- Automatic perimeter locking system.
- Includes hook and European-style receiver.
- Concealed screw-on, pressure-mounted installation system.



#### UJ005 Assembly in 70mm Perimeter Series

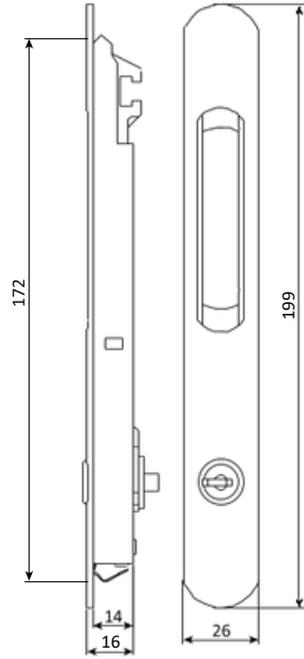
#### Machining of UJ005 in 70 mm Perimeter Series



## Hardware for 70mm Perimeter Series Door and Window Systems

### Corners - Bearings - Handles - Locks

#### Perimeter lock with concealed screw key



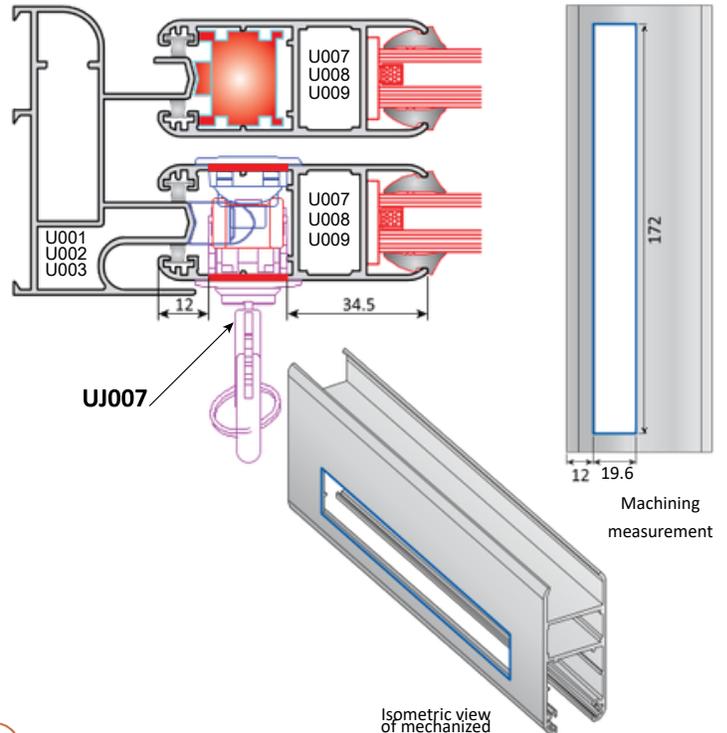
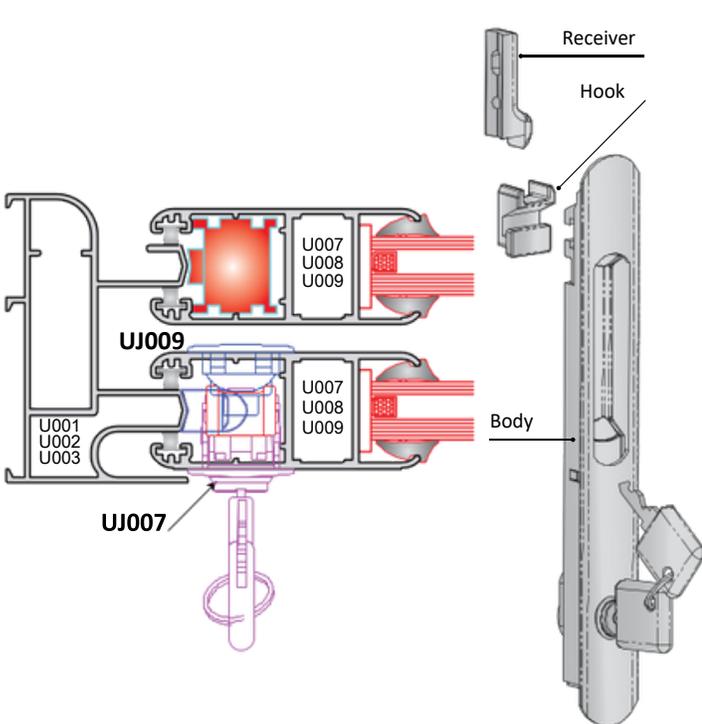
**Characteristics:**

- Made of extruded aluminum.
- Available in white and black painted finishes.
- Manual perimeter closure.
- Includes hook and European-style receiver.
- Concealed screw pressure installation system.



#### UJ007 Assembly in 70mm Perimeter Series

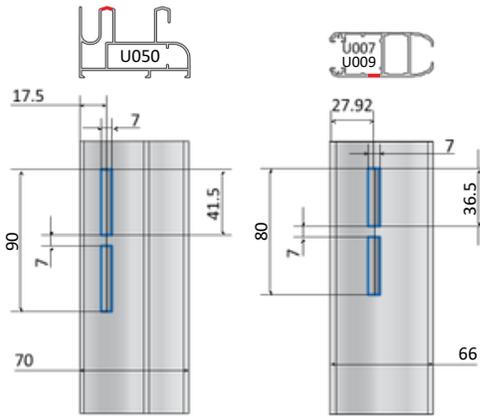
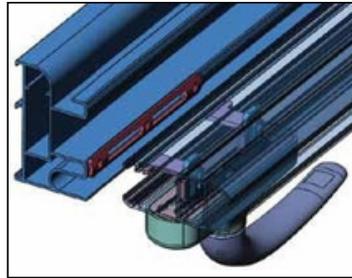
#### Machining of UJ007 in 70 mm Perimeter Series



## Hardware for 70mm Perimeter Series Door and Window Systems

### Corners - Bearings - Handles - Locks

#### SecurEasy perimeter lock for 70 mm

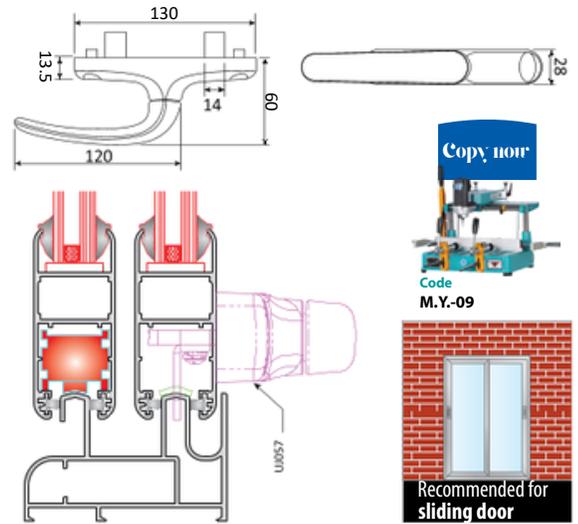


Code  
**UJ057**

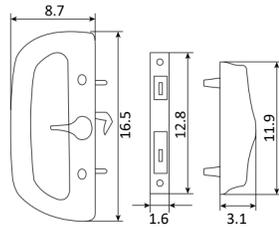
Available colors:  
 Black  
 White

#### Characteristics:

- Available in a painted finish in white or black.
- Made of aluminum and zinc alloy.
- Reversible left/right opening.
- Requires machining of the sash and frame.
- Double locking point for added security.



#### Aluminum sliding door lock



**Use:** It doesn't work with a shooter.

- Latch made of rolled steel.
- Made of zinc alloy.
- No machining required.
- Mounts to profile.
- Includes strike plate, cylinder, handle, and 3 keys.

Code	White finish
US066	Natural
US064	aluminum
US065	Black

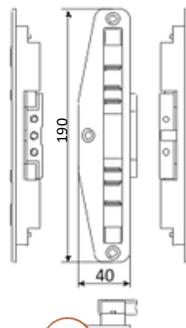
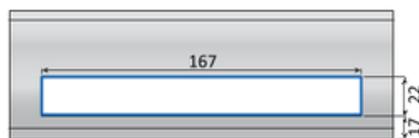


#### Double hook mortise closure

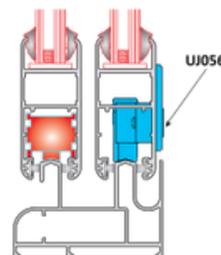


Available colors:  
 Black  
 White  
 Silver

Code  
**UJ056**



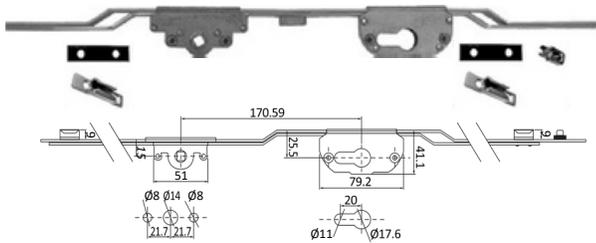
- Available in a painted finish in white or black.
- Made of extruded aluminum, an aluminum-zinc alloy.
- Installation system with exposed screws.



## Hardware for 70mm Perimeter Series Door and Window Systems

### Multi-point locks

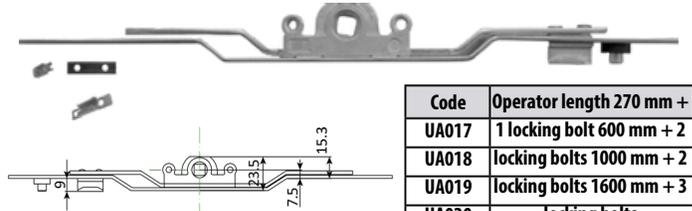
#### Multipoint locking with CM25 cylinder



Code  
**UA077**

- Includes 3 locking hooks, anti-tip stop, and frame receivers.
- Function for European cylinder locks. Locking from both sides.
- Length 1600mm.

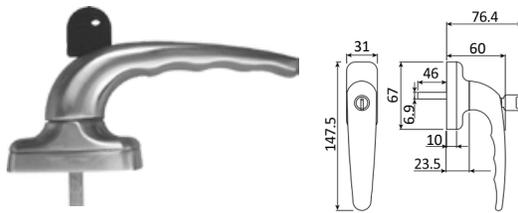
#### CM75 Multipoint Lock



Code	Operator length 270 mm +
UA017	1 locking bolt 600 mm + 2
UA018	locking bolts 1000 mm + 2
UA019	locking bolts 1600 mm + 3
UA020	locking bolts

- CM75 multipoint operator, reinforced metal, silver finish.
- Includes locking bolt, frame receiver, and anti-tip safety stop.
- Can be operated by UJ021 and UA023 handles.
- Requires machining with a copier and die.

#### Multipoint operator handle (8 x 8 grid operator) with key



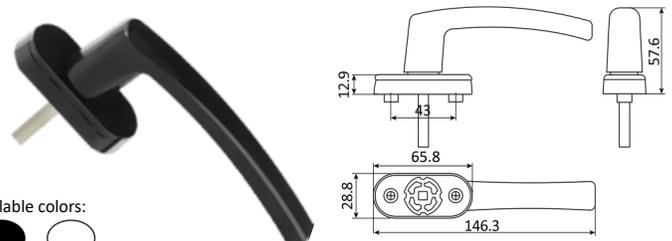
Available colors:



Code  
**UA023**

- Made of aluminum and zinc alloy.
- Reversible left and right function.
- Available in a painted finish in white or black.

#### Multipoint operator handle (8 x 8 grid operator) without key



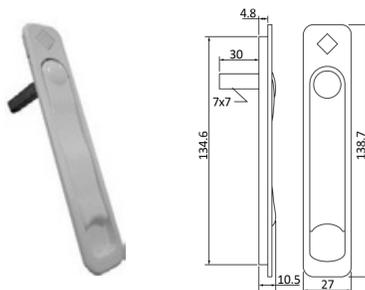
Available colors:



Code  
**UJ021**

- Made of aluminum and zinc alloy.
- Reversible left and right function.
- Available in a painted finish in white or black.

#### Multipoint recessed handle



Available colors:



Code  
**UA078**

- 8x8 grid.
- Available in white or black painted finish.

#### Left-right multipoint angled handle



Available colors:



Code  
**UA079**

- Angled handle to prevent hand-frame contact during opening.
- Handle for operating multipoint locking mechanisms on sliding windows (CM75 and 25).
- Fixes to the multipoint locking mechanism with 2 screws.
- 8x8 grid, rotating decorative shield.

Right  
Code  
**UA079**

Left  
Code  
**UA080**

#### 60mm European profile cylinder



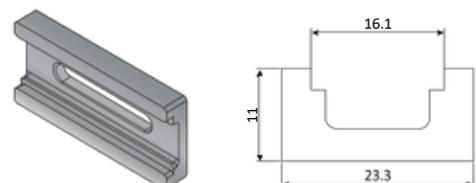
Sold separately

Glossy  
finish

Code  
**US040**

- 6-pin mechanism.
- Stainless steel spring.
- With split cams.
- Includes 3 keys.

#### CM75 Multipoint Closure Wedge



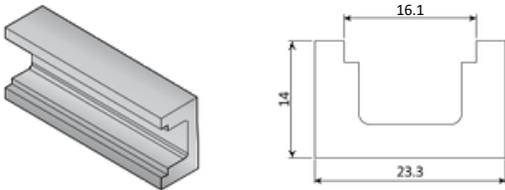
Code  
**UA021**

- High-strength black PVC injection molded.
- Coupling shim for drive rod on U007, U008, and U009 profiles.
- It is recommended to use 2 shims for UA017 and UA018 fasteners and 4 shims for UA019 and UA020 fasteners.

## Hardware for 70mm Perimeter Series Door and Window Systems

### Multi-point locks

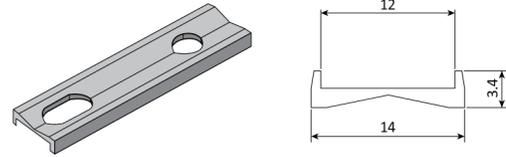
#### Multipoint closure wedge UA077



- High-strength black PVC injection molded.
- Coupling shim for drive bar on U007, U008, and U009 profiles.
- Recommended use of 4 UA077 shims for closure.

Code  
**UA083**

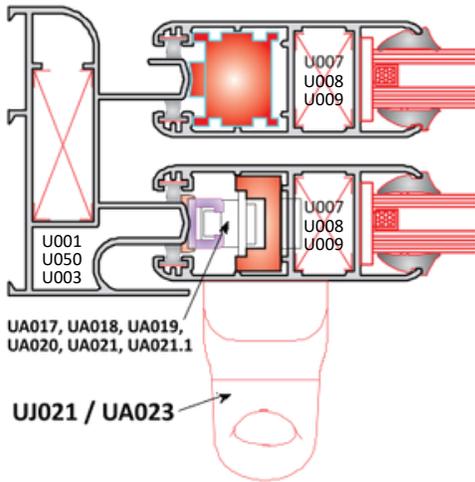
#### Frame receiver wedge



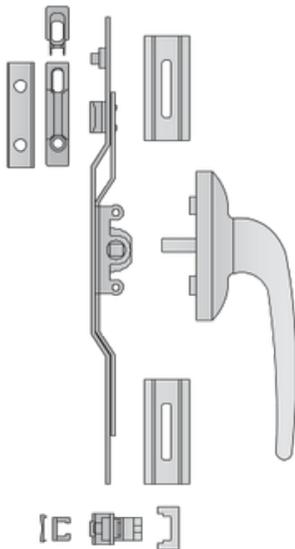
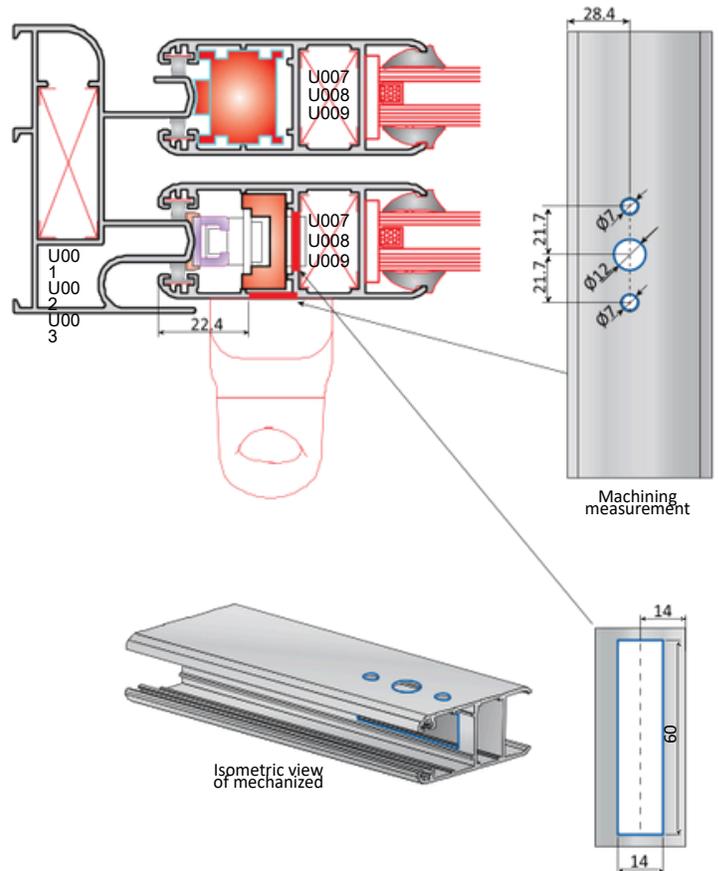
- High-strength black PVC injection molded.
- Coupling shim for drive bar on U007, U008, and U009 profiles.
- Recommended to use 1 wedge per receiver.

Code  
**UA021.1**

#### CM75 Multipoint Operator Assembly



#### CM75 Multi-Point Operator Machining



## Hardware for 70mm Perimeter Series Door and Window Systems

### Mosquito net

#### Mosquito net



Code  
**UPPE18x18**

The yarn is based on a two-component core-coating composite technology, consisting of a natural hydrophobic coating. The yarns are bonded at 140°C. The mesh size will remain unchanged after being heated.

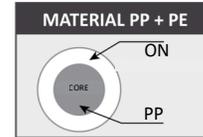


<p><b>Eco-friendly</b></p> <p>Provides reliable and environmentally friendly protection.</p>	<p><b>UV Protection</b></p> <p>High-quality UV resistance to ensure a long lifespan.</p>	<p><b>Invisible</b></p> <p>Thread 0.2 mm thick, offering better visibility from the inside, light transmission, and ventilation.</p>
<p><b>Stability</b></p> <p>Folding or fixed positions. Stable and does not fade in the sun.</p>	<p><b>Cleaning</b></p> <p>The coating is hydrophobic, dirt-resistant, and easy to clean.</p>	<p><b>Foldable screen</b></p> <p>It's convenient to fold. It has good durability and a long lifespan.</p>

SPECS	
Mesh Size	18 x 18
Thread	0.20 mm
Yarn	250 dtex
Weave	Smooth
Width	fabric 2.5
Length	m 30 m
Color	Black, gray
Material	PP + PE
Weight	41g / m2

#### Characteristics:

- 50% PE for the outer layer and 50% PP for the core.
- The outer layer is naturally waterproof and UV resistant.
- Anti-aging, lasts up to 7 years.
- More durable than fiberglass insect screens, tear-resistant.



#### Mosquito net frame bracket and wheel



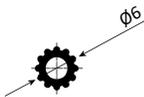
Code  
**UA004**

- U049 mosquito net, does not require machining of the profile. White rigid PVC piece, for joining leaf frame.

#### Mounting rubber

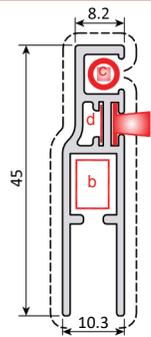


**EPDM**  
ALTA CALIDAD



Code  
**UI013**

#### Mosquito net leaf section



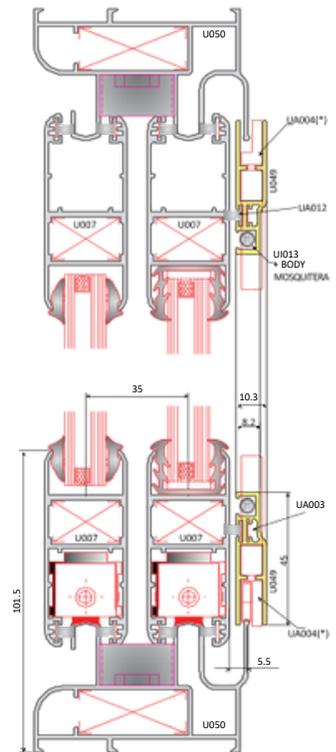
Code  
**U049**

#### Mosquito net cutter



Code  
**BAM020**

#### Mosquito net installation





## EUROPA SERIES FOLDABLE

Folding aluminum series for large-scale modern designs.





## 45mm Folding Series

### Characteristics

- High-end folding system, with features that fully meet requirements functionality, flexibility, ergonomics and quality.
- It allows for a wide variety of designs and assemblies, offering versatility in any space.
- Complete hardware line. For European channel support, it allows the use of all types of compatible hardware.
- Frame and leaf brackets to guarantee quality finish, good alignment and firmness.
- Good thermal performance and watertightness (against water and temperature).
- Accordion-type folding system, a good solution to increase or limit functionality in open spaces.

### Geometry of the Series

- Perimeter frame of 45, 70, 105 mm wide, 46 and 150 mm high.
- 52 mm thick sheets. • 1.4 and 1.5 mm thick for doors. • 45° cut sheets.
- Joined with corner brackets. • 41 mm gap.

### Glazing

- Maximum thickness of glass or panels 26 mm and minimum 1 mm (according to glazing table).

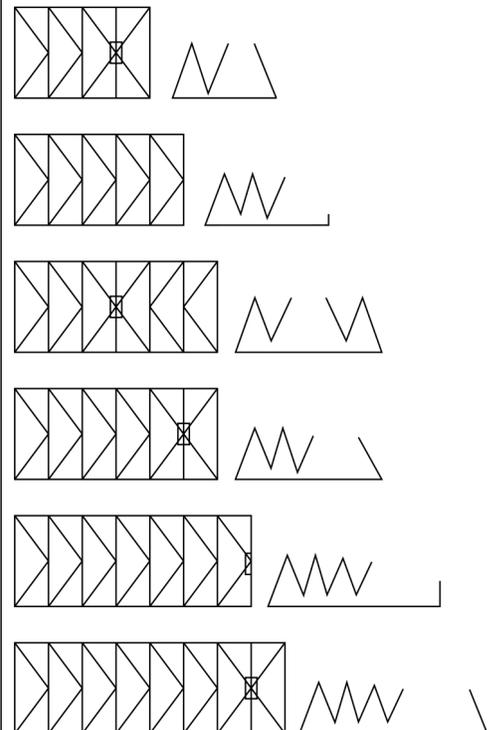
Monolithic

Laminate

Double

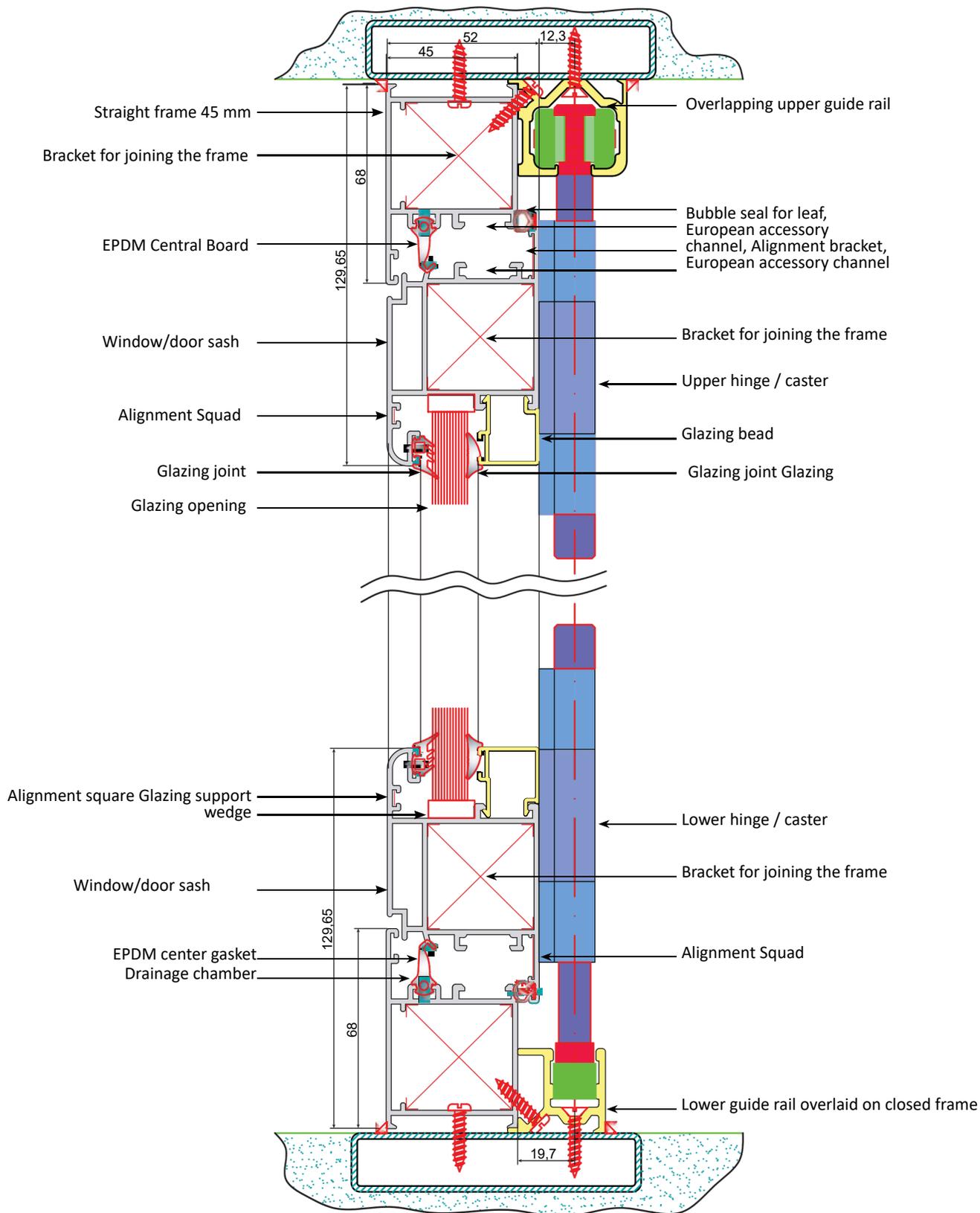


### Possible mountings on 45 mm folding system



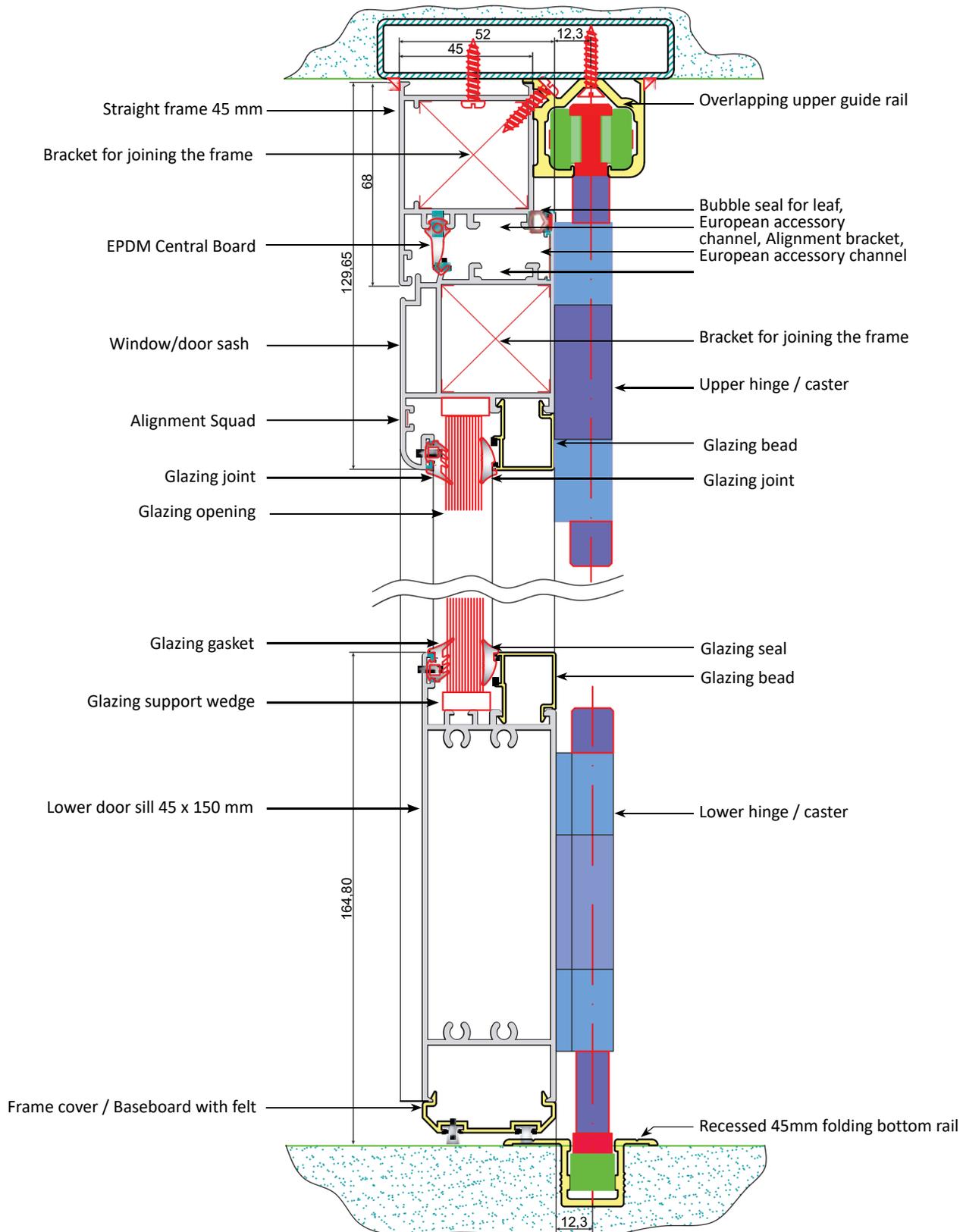
## Technical specifications 45 mm Folding Series 45 mm folding system

### closed frame



## Technical specifications 45mm Folding Series 45mm folding system

### open frame



## Technical specifications Folding system 45mm



### Technical data

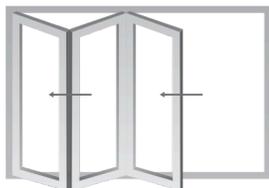
<b>Section width</b>	Frame width 45 mm / Leaf width 52 mm. Optionally available frame widths of 60, 70 and 105 mm.
<b>Profile thickness</b>	Thickness 1.4 – 1.6 mm.
<b>Glazing opening Glazing</b>	From 10 to 26 mm.
<b>bead height</b>	19 mm.
<b>Glazing bead type</b>	Straight clip, curved clip, and curved staple.
<b>Use window construction</b>	Multi-leaf operable, folding, hinged doors with outward opening option.
<b>Profile alignment</b>	EN-AW-6060 T5 / EN-AW-6063 T5. Alloy 6060/6063 and T5 condition, according to chemical composition standards EN 573-3 and mechanical characteristics EN 755-2
<b>Finishes</b>	Available in surface treatments with a wide range of Colors and textures. Fittings for European channels, wheels, casters, rails, and rollers adapted to the system. Special extruded high-strength resins.
<b>Hardware</b>	Diameter 20 mm.
<b>Wheels</b>	Made with high-quality needles.
<b>Bearing</b>	Possibility of anti-corrosive finish
<b>Bearing shaft</b>	6 mm diameter shaft made of AISI 303 stainless steel.
<b>Wheel carrier</b>	Extruded aluminum alloy 6063 T5. Standard silver anodized finish. Other colors available.
<b>Regulatory axes</b>	8mm stamped vertical transmission shaft made of AISI 303 stainless steel.
<b>Adjustment screw</b>	Vertical adjustment of 6mm using a stainless steel nut with automatic locking and no screws.
<b>Adjustment spring</b>	Upper and lower carriage. AISI 302 stainless steel. 03 integrated bodies made of aluminum alloy 6063 T5.
<b>Hinge</b>	Anti-friction injected plastic bushings, against AISI 430 stainless steel fixing plates and A2 screws.
<b>Maximum dimensions and weights per sheet</b>	Sheets up to 600 mm wide: 70 kg per sheet. From 600 to 750 mm wide: 60 kg per sheet. Sheets wider than 750 mm are not recommended.

## Technical specifications 45 mm Folding Series

### Opening types



(2+0)



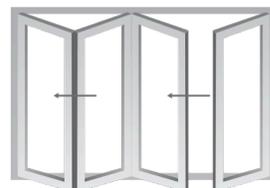
(3+0)



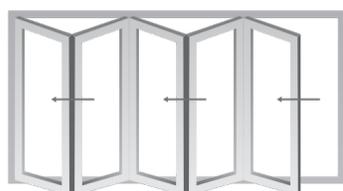
(1+2)



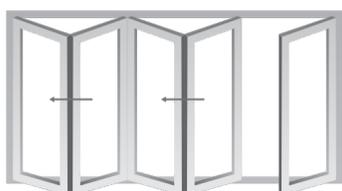
(4+0)



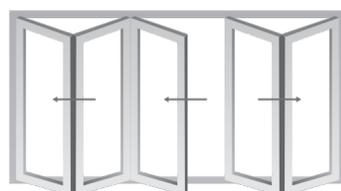
(3+1)



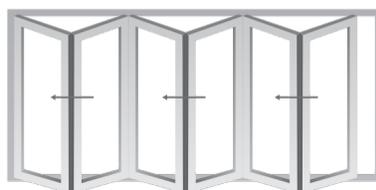
(5+0)



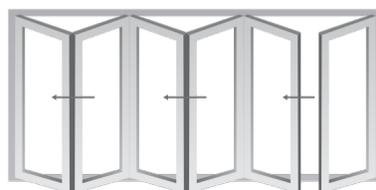
(4+1)



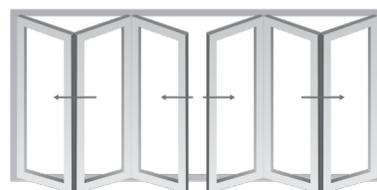
(3+2)



(6+0)



(5+1)



(3+3)



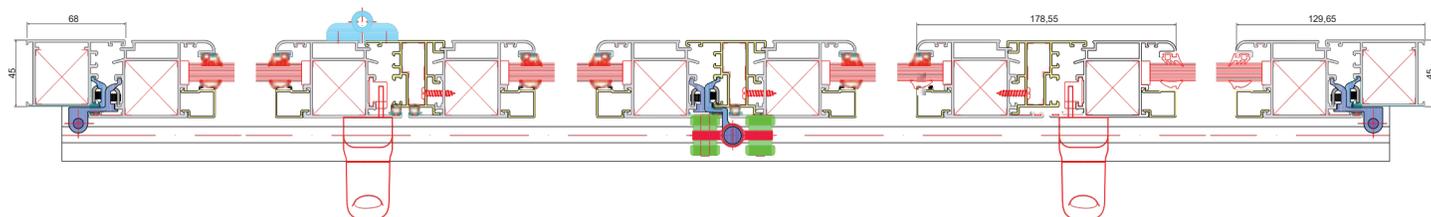
(1+6)



(0+7)



(2+5)



## Technical specifications 45mm Folding Series



<b>Maximum sheet width</b>
<b>750 mm</b>
<b>High standard of blade</b>
<b>2200 mm</b>
<b>Maximum sheet weights</b>
Blade width < 600 mm 70 kg Blade width 600-750 mm 60 kg

### Maximum dimensions

Capacity to withstand the loads of the safety mechanisms

APT (350 N)

Estimated values for a 2-leaf window measuring 1230x1480mm with roller shutter box and 4/12/4 glazing. According to standard UNE-EN 14609:2004

### Maximum dimensions

	Width		Height		Maximum weight / sheet
	<b>750 mm</b>		<b>2200 mm</b>		<b>(W&gt;600 mm) 70 kg - (W&gt;600&lt;750 mm) 60 kg</b>

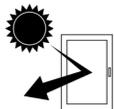
Maximum dimensions for folding door with up to 7 leaves, single-sided opening; please inquire for weight and dimensions different from those indicated.

### Thermal Insulation

Thermal transmittance of aluminum profiles

 $IN_{H,M} = 5.7 \text{ W/m}^2\text{K}$ 

Estimated values for a 2-leaf window measuring 1230x1480mm with the indicated glazing. According to standard UNE-EN ISO 10077-1:2010



Glass	U H,V Thermal transmittance of glass	U H Thermal transmittance of the window
<b>4/8/4</b>	3.1 W/m <sup>2</sup> K	<b>4.0 W/m<sup>2</sup>K</b>
4/12/6	2.90 W/m <sup>2</sup> K	<b>3.90 W/m<sup>2</sup>K</b>
4/12/6 be	1.70 W/m <sup>2</sup> K	<b>3.10 W/m<sup>2</sup>K</b>

### Acoustic insulation



<b>Glass (Characteristics, Rin)</b>	4/12/6 (33 dB)	5/12/3+3 (36 dB)
<b>Window sound reduction index (RW)</b>	34 (-1;-3) dB	36 (-1;-3) dB

Estimated values for a 2-leaf window measuring 1230x1480mm with the indicated glazing. According to standard UNE-EN 14351-1:2006

### Características técnicas mecánicas



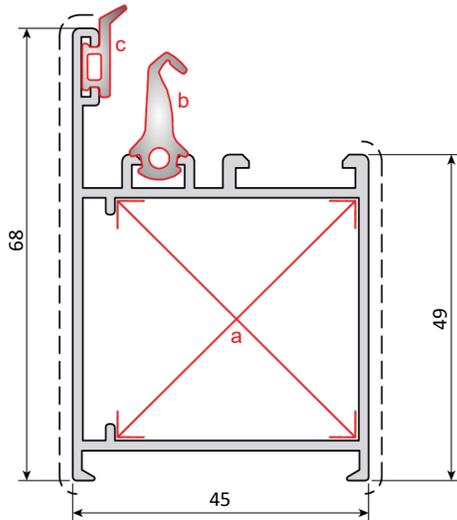
#### Behavior in response to external factors

Classification	Standard	Value
<b>Air permeability</b>	UNE-EN 12207:2000	<b>Class 3</b>
<b>Water tightness</b>	UNE-EN 12208:2000	<b>Class 9A</b>
<b>Wind load resistance</b>	UNE-EN 12210:2000	<b>Class C5</b>

Estimated values for a 2-leaf window measuring 1200x1200mm with roller shutter box and 4/12/4 glazing.

## 45mm folding series profiles

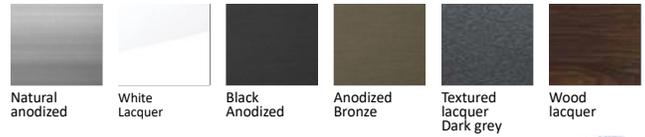
### Door frame 45 mm



#### Door frame 45 mm

<b>Code: U020</b>		Weight (kg/m): 0.961	
Total perimeter (mm): 471		Overall thickness = 1.5 Alloy-	
Ext. perimeter (mm): 305		Temperature = 6063 T5	
a	UA068	b	UI001
c	UI003	d	---

Available finishes:

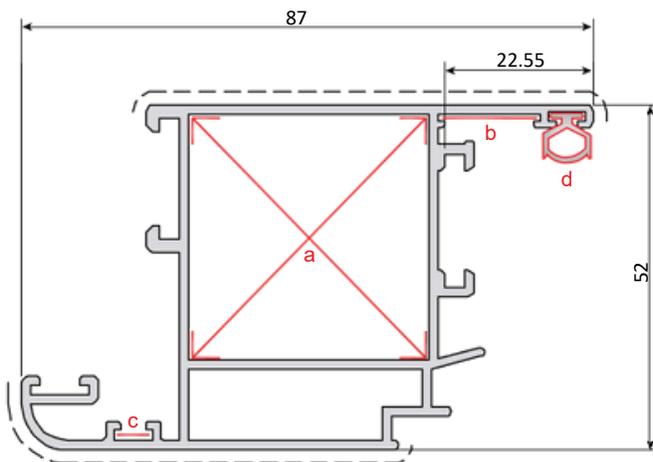


LENGTH 5.85 METERS



\*Check availability of different finishes.

### Hinged door leaf 52x87 mm



#### Hinged door leaf 52x87 mm

<b>Code: U021</b>		Weight (kg/m): 1.339	
Total perimeter (mm): 668		Overall thickness = 1.4 Alloy-	
Ext. perimeter (mm): 429		Temperature = 6063 T5	
a	UA068	b	UA066
c	UA065	d	UI002

Available finishes:

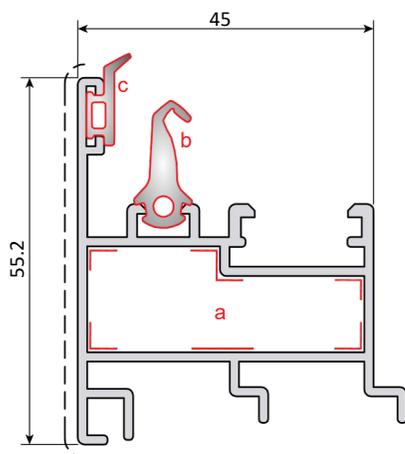


LENGTH 5.85 METERS



\*Check availability of different finishes.

### Leaf inverter



#### Leaf inverter

<b>Code: U018</b>		Weight (kg/m): 0.940	
Total perimeter (mm): 484		Overall thickness = 1.4	
Ext. perimeter (mm): 368		Alloy-Temper = 6063 T5	
a	UA059	b	UI001
c	UI003	d	---

Available finishes:



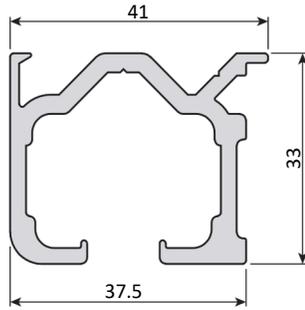
LENGTH 5.85 METERS



\*Check availability of different finishes.

## 45mm folding series profiles

### Top surface guide, 45 mm folding system



45° folding bottom guide for surface mounting					
<b>Code: U051</b>			Weight (kg/m): 0.964		
Total perimeter (mm): 261			Overall thickness = 3.00 mm		
Ext. perimeter (mm): 261			Alloy-Temperature = 6063 T5		
a	UAP001 - UAP002 - UAP003 (SUPERIOR)				
b	---	c	---	d	---

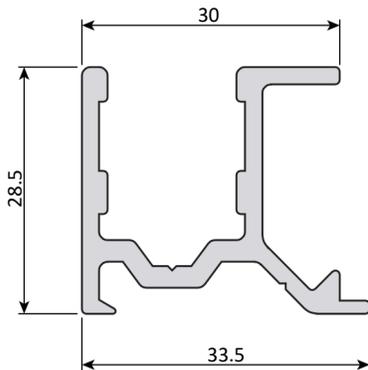
Available finishes:



LENGTH 5.85 METERS

\*Check availability of different finishes.

### Bottom surface guide, 45 mm folding system



45° folding bottom guide for surface mounting					
<b>Code: U052</b>			Weight (kg/m): 0.604		
Total perimeter (mm): 202			Overall thickness = 2.00 mm		
Ext. perimeter (mm): 202			Alloy-Temperature = 6063 T5		
b	UAP001 - UAP002 - UAP003 (LOWER)				
a	---	c	---	d	---

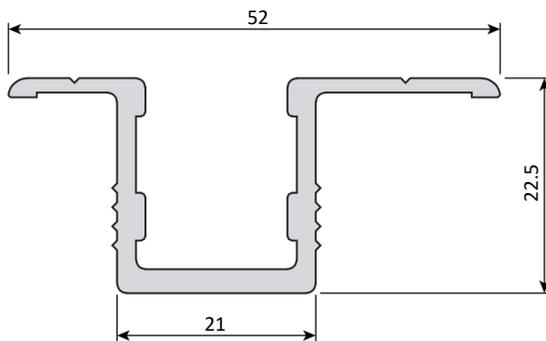
Available finishes:



LENGTH 5.85 METERS

\*Check availability of different finishes.

### Bottom surface guide, 45 mm folding system



45° folding bottom guide for surface mounting					
<b>Code: U053</b>			Weight (kg/m): 0.538		
Total perimeter (mm): 196			Overall thickness = 2.00 mm		
Ext. perimeter (mm): 196			Alloy-Temperature = 6063 T5		
b	UAP001 - UAP002 - UAP003 (LOWER)				
a	---	c	---	d	---

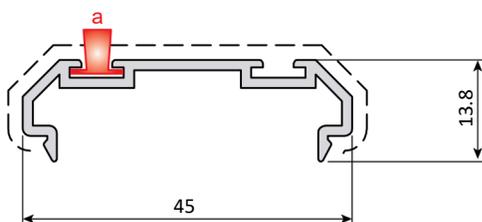
Available finishes:



LENGTH 5.85 METERS

\*Check availability of different finishes.

### Cover for 45 mm frame, with felt



Cover for 45 mm frame, with felt			
<b>Code: U028</b>		Weight (kg/m): 0.315	
Total perimeter (mm): 172		Overall thickness = 1.4	
Ext. perimeter (mm): 172		Alloy-Temper = 6063 T5	
a	UA012	b	---
c	---	d	---

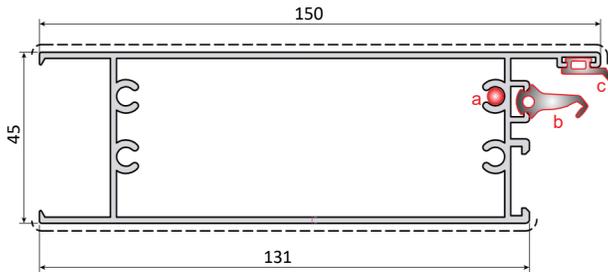
Available finishes:



LENGTH 5.85 METERS

## 45mm folding series profiles

### Lower door sill 45x150 mm



### Lower door skirting board 45x150 mm

<b>Code: U024</b>		Weight (kg/m): 1.959	
Total perimeter (mm): 878		Overall thickness = 1.6	
Ext. perimeter (mm): 497		Alloy-Temper = 6063 T5	
a	Screw R/Ch D-6.3	b	UI001
c	UI003	d	---

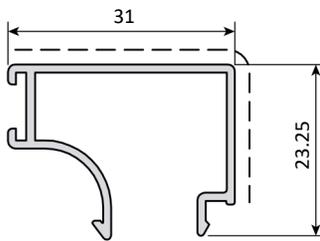
Available finishes:



LENGTH 5.85 METERS

\*Check availability of different finishes.

### 31 mm straight bead



### 31 mm straight bead

<b>Code: U032</b>		Weight (kg/m): 0.280	
Total perimeter (mm): 187		Overall thickness = 1.2	
Ext. perimeter (mm): 187		Alloy-Temper = 6063 T5	
a	---	b	---
c	---	d	---

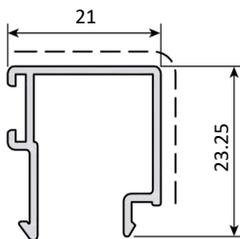
Available finishes:



LENGTH 5.85 METERS

\*Check availability of different finishes.

### 21 mm straight bead



### 21 mm straight bead

<b>Code: U033</b>		Weight (kg/m): 0.230	
Total perimeter (mm): 154		Overall thickness = 1.2	
Ext. perimeter (mm): 154		Alloy-Temper = 6063 T5	
a	---	b	---
c	---	d	---

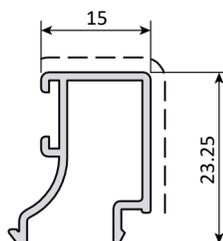
Available finishes:



LENGTH 5.85 METERS

\*Check availability of different finishes.

### 15 mm straight bead



### 15 mm straight bead

<b>Code: U046</b>		Weight (kg/m): 0.217	
Total perimeter (mm): 145		Overall thickness = 1.1	
Ext. perimeter (mm): 145		Alloy-Temper = 6063 T5	
a	---	b	---
c	---	d	---

Available finishes:



LENGTH 5.85 METERS

\*Check availability of different finishes.

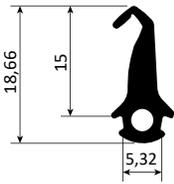
## Hardware for 45mm Folding Series Profile System

### EPDM rubber plans

#### EPDM center gasket



**EPDM**  
HIGH QUALITY

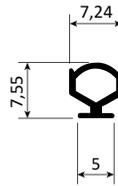


Code  
**UI001**

#### Hinged bubble seal



**EPDM**  
HIGH QUALITY

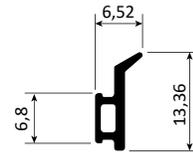


Code  
**UI002**

#### EPDM clipped outer frame gasket



**EPDM**  
HIGH QUALITY

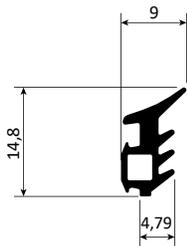


Code  
**UI003**

#### 4 mm EPDM exterior glazing gasket



**EPDM**  
HIGH QUALITY

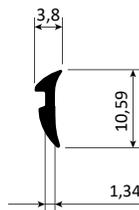


Code  
**UI004**

#### 2 mm EPDM glazing gasket



**EPDM**  
HIGH QUALITY

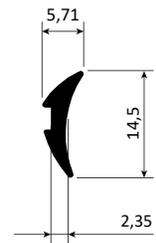


Code  
**UI005**

#### 3 mm EPDM glazing gasket



**EPDM**  
HIGH QUALITY

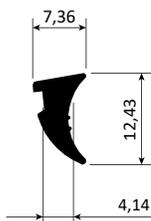


Code  
**UI006**

#### 4 mm EPDM glazing gasket



**EPDM**  
HIGH QUALITY

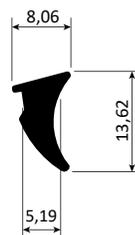


Code  
**UI007**

#### 5 mm EPDM glazing gasket



**EPDM**  
HIGH QUALITY

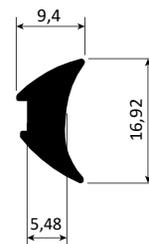


Code  
**UI008**

#### 6 mm EPDM glazing gasket



**EPDM**  
HIGH QUALITY

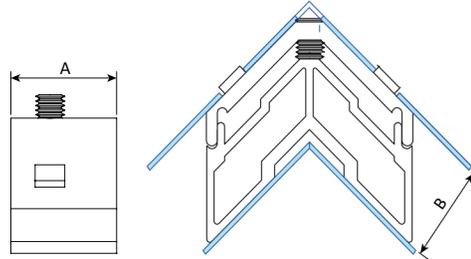


Code  
**UI009**

## Hardware for 45mm Folding Series Profile System

### Brackets - Bearings - Handles - Latches

#### 37 x 36 mm fixed pin bracket



A = 36.55 mm  
B = 37 mm

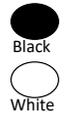
Code  
**UA068**

- Extruded aluminum bracket with high corrosion resistance.
- Greater rigidity and alignment at the miters since it works by expansion.
- It works on frame profiles, hinged door leaf, and fixed glass. Profiles on U020, U021, U022.

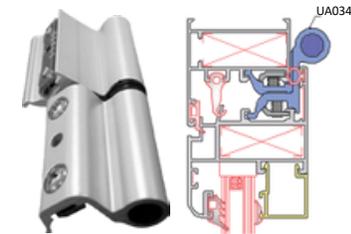
#### European channel window hinge

**KG 90**

Available colors:



Code  
**UA034**

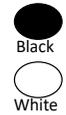


- Two-leaf hinge for European channel.
- Aluminum body with electro-painted finish.
- High resistance thanks to its axle, plates of pressure and stainless steel screws. Supports 90 kg per pair.

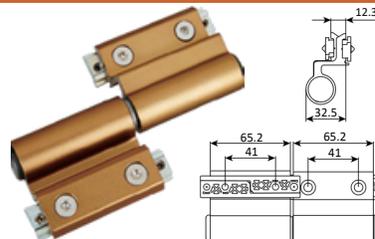
#### European channel door hinge

**KG 150**

Available colors:

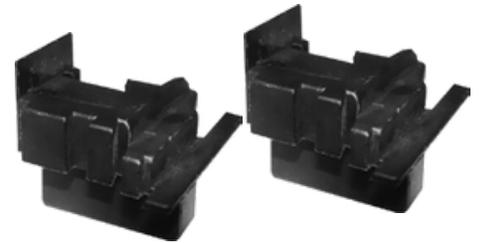


Code  
**UJ027**



- Two-leaf hinge for European channel.
- Aluminum body with electro-painted finish.
- High resistance thanks to its axle, plates of pressure and stainless steel screws. Supports 150 kg per pair.

#### Reversing profile cover for hinged windows



Code  
**UA059**

- Black PVC piece with decorative function
- It works on the top and bottom of the Inversor profile U018. They are sold in pairs.

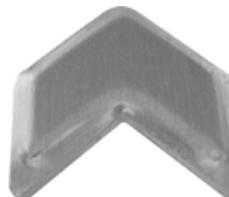
#### 5.8 x 1.5 mm Alignment Square



Code  
**UA065**

- Stainless steel alignment square.
- Increases rigidity and precision in the joint.
- Works on U016, U017, U021, U022.

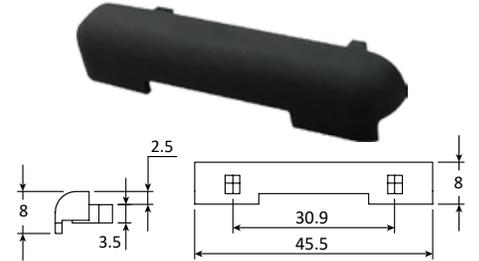
#### 14.5 x 1.5 mm Alignment Square



Code  
**UA066**

- Stainless steel alignment square.
- Increases rigidity and precision in the joint.
- Works on U016, U017, U021, U022.

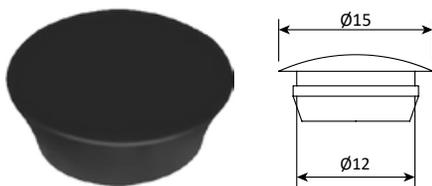
#### Fourth aguas



Code  
**UA015**

- Black PVC piece with decorative function.
- It works with both sliding and fixed frames.

#### 12mm decorative stopper



Code  
**UA070**

- Black PVC piece with decorative function.
- It works with both sliding and fixed frames.

#### Drain valve



Code  
**UA014**

- Black PVC piece with decorative function.
- The sliding frame works.

#### Plastic wedges (pack of 100)



- Made of sealant-resistant material. The special surface shape and solid base make it ideally suited for various purposes. The block design ensures proper positioning of the glass panes during installation.
- Each block has a load capacity of 300 kg.

Code	Measurement
YZ.0311	00 x 20 x 1 mm
YZ.0321	00 x 20 x 2 mm
YZ.0331	00 x 20 x 3 mm
YZ.0341	00 x 20 x 4 mm
YZ.0351	00 x 20 x 5 mm
YZ.0361	00 x 20 x 6 mm

## Hardware for 45mm Folding Series Profile System

### Brackets - Bearings - Handles - Latches

#### Upper hinge/wheel and lower guide assembly for 45mm folding system



**KG 90**

Available colors:



Black



White



Silver

#### \*Center Mount

- 3-part hinge, top rail action U051 with 4 wheels support.
- Lower guide hinge with pair of roller action on the rail lower U052 and U053.
- Aluminum body with electro-painted finish.
- High resistance thanks to its shaft, pressure plates and stainless steel screws.
- Supports 90 kg.

Code

**UAP001**

#### Upper hinge/wheel and lower guide assembly for 45mm folding system



**KG 90**

Available colors:



Black



White



Silver

#### \*Montaje final inversor

- 3-part hinge, top rail action U051 with 4 support wheels.
- Bottom guide hinge with a pair of rollers acting on the bottom rail U052 and U053. Aluminum body with electro-painted finish. Stainless steel. Supports 90 kg.
- High resistance thanks to its shaft, pressure plates and stainless steel screws.

Code

**UAP002**

#### upper hinge/roller and lower guide

**KG 90**

Available colors:



Black



White



Silver

Code

**UAP003**

#### \*Montaje final en hoja

- 3-part hinge, top rail action U051 with 4 support wheels. Bottom guide hinge with pair of bottom rail action rollers U052 and U053. Aluminum body with electro-painted finish.
- It supports 90 kg.

#### Internal hinge for frame/leaf

**KG 90**

Available colors:



Black



White



Silver

Code

**UAP004**

#### \*Frame and leaf assembly

- 3-part hinge for 45° folding system, action on frame and perimeter sash. Aluminum body with electro-painted finish.
- High resistance thanks to its shaft, pressure plates and stainless steel screws.
- It supports 90 kg.

#### Internal pivot hinge/leaf

**KG 90**

Available colors:



Black



White



Silver

Code

**UAP005**

#### \*Central mounting, reinforcement UAP001

- 3-part hinge for 45° folding system
- 45° perimeter. Aluminum body with electro-painted finish.
- High resistance thanks to its shaft, pressure plates and stainless steel screws.
- It supports 90 kg.

#### Overlay hinge, leaf/inverter

**KG 90**

Available colors:



Black



White



Silver

Code

**UAP006**

#### \*Window sash

- 3-part surface-mounted hinge, screwed in from the inside on both sides.
- Aluminum body with electro-painted finish.
- High resistance thanks to its shaft, pressure plates and stainless steel screws.
- It supports 90 kg.

#### Overlay hinge, leaf/inverter

**KG 90**

Available colors:



Black



White



Silver

Code

**UAP007**

#### \*Door leaf

- Three-part surface-mounted hinge, screwed and riveted from the inside on both sides. Aluminum body with electro-painted finish.
- High resistance thanks to its shaft, pressure plates and stainless steel screws.
- It supports 90 kg.

#### Template for drilling and mounting hinges



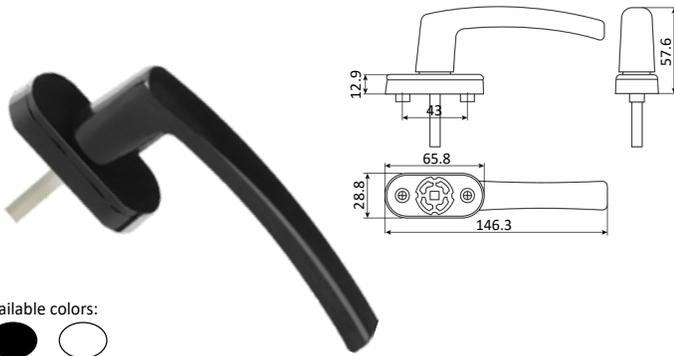
Code

**UAP008**

## Hardware for 45mm Folding Series Profile System

### Brackets - Bearings - Handles - Latches

#### Keyless multipoint operator handle (8x8 grid operator)



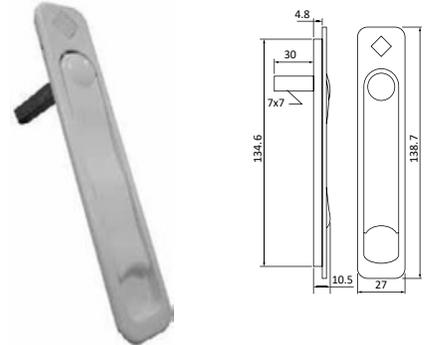
Available colors:



**Code**  
**UJ021**

- Made from aluminum-zinc alloy.
- Reversible left/right function.
- Available in white or black painted finish.

#### Multipoint recessed handle



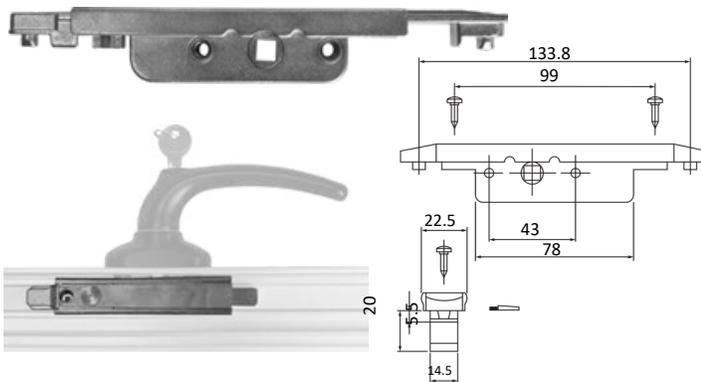
Available colors:



**Code**  
**UA078**

- 8x8 grid.
- Available in white or black painted finish.

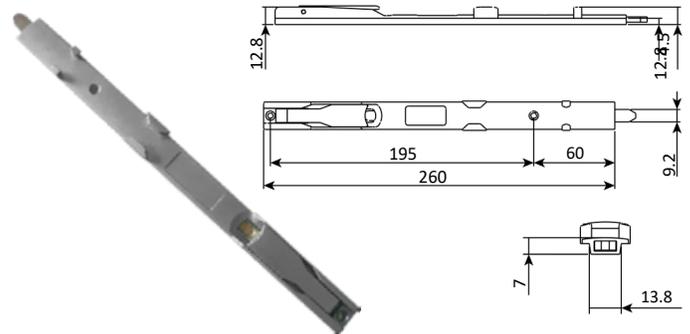
#### Multipoint operating body



**Code**  
**UA084**

- Bidirectional function.
- 20mm European channel, 8x8 grid.
- Works with UA023 and UJ021 handles.

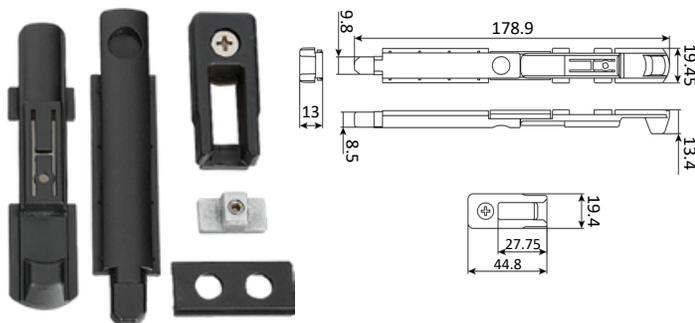
#### Closing the second leaf of the door or window



**Code**  
**UJ011**

- Made of Zamak and aluminum with a black finish.
- Quick installation in European channel and fixing using pressure screws
- Hardened metal pin for added security.

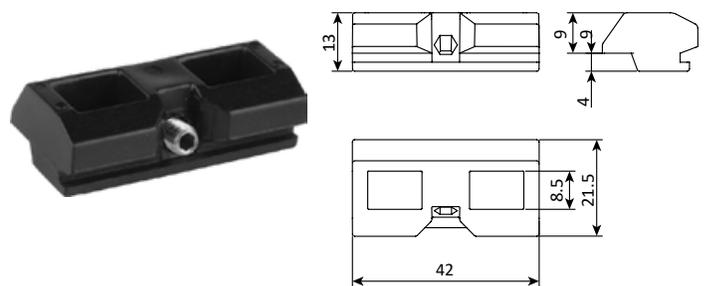
#### Closing the second leaf of the door or window



**Code**  
**UJ012**

- Made of high-strength PVC with a black finish.
- Quick installation in European channel and fixing using pressure screws
- Hardened metal pin for added security.

#### Second leaf closing receiver



**Code**  
**UJ047**

- Made of high-strength PVC with a black finish.
- Quick installation in European channel and fixing using pressure screws

## Hardware for 45mm Folding Series Profile System

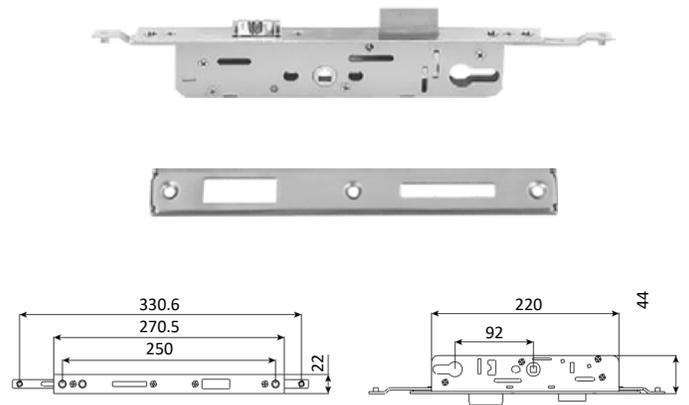
### SECUREASY® Door Lock PLUS for aluminum door

#### Neo handle for aluminum door



Code  
**UJ015**

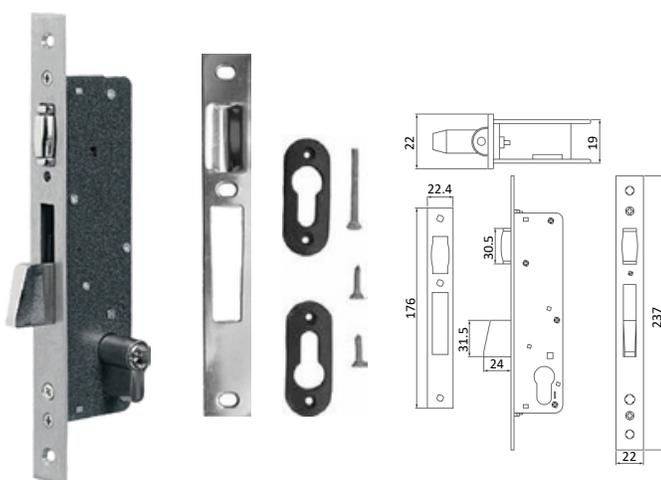
#### Aluminum door security lock body



**LIFESPAN OF 80 MILLION CYCLES**

Code  
**UJ029**

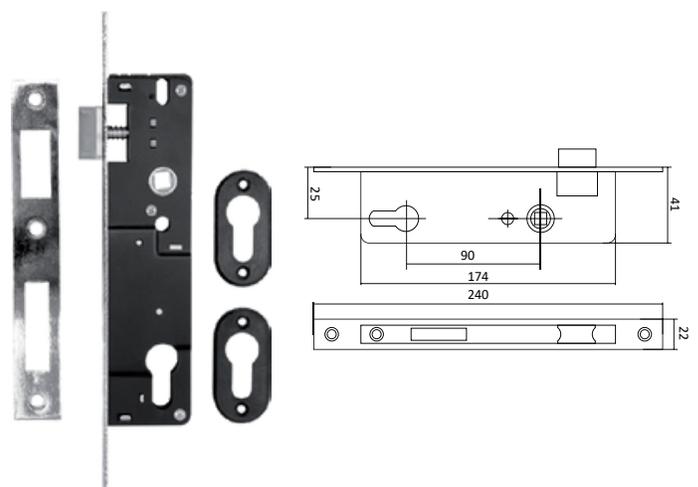
#### Roller and lever lock



Code  
**UA081**

- Includes receiver and cylinder escutcheon. • Single-point locking security lock for metal carpentry workshops with cylinder entrance.
- Stainless steel front and strike plate. • Ideal for commercial premises doors.

#### Aluminum door lock body



**LIFESPAN OF 80 MILLION CYCLES**

- Face plate finish: stainless steel
- Metal body lock with stainless steel pins and bolts.
- Includes satin stainless steel receiver for the lock
- Distance between cylinder and square is 92 mm and back set is 29 mm.

Code  
**78480**

## Hardware for 45mm Folding Series Profile System

### SECUREASY® Door Lock PLUS for aluminum door

#### European cylinder for aluminum door



Code  
**UJ030**

- Bronze body cylinder. • 70 mm diameter, offset 40-30. • Includes 3 bronze keys.

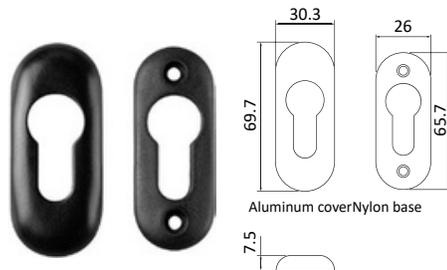
#### European cylinder for aluminum door with knob



Code  
**UA076**

- Bronze body cylinder. • 70 mm diameter, offset 40-30. • Includes 3 bronze keys.

#### European cylinder trim



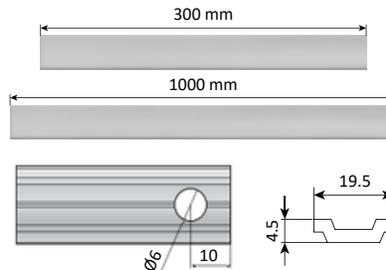
Code  
**UA082**

Available colors:



- PVC trim for European type cylinder
- Aluminum cover clipped onto a nylon base.
- Escutcheon - Keyhole for lock cylinder.

#### Drive shaft

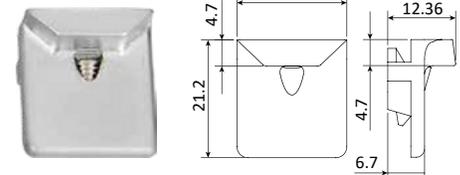


300 mm long  
Code  
**UJ044**

1000 mm long  
Code  
**UJ045**

- It functions as a drive rod to connect the SECUREASY® PLUS handle to the locking bolts. Made of silver anodized extruded aluminum. Includes two holes at the ends for connecting the SECUREASY® PLUS B system.

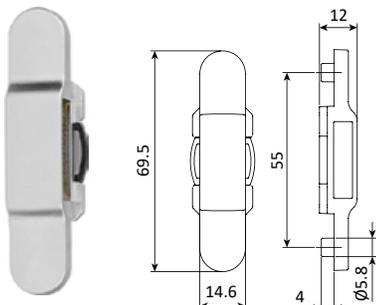
#### Locking bolt receiver



Code  
**UJ046**

- Made of reinforced zinc with a silver finish.
- One must be used for each locking bolt in the SECUREASY® PLUS system.

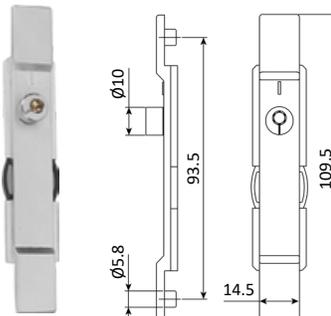
#### Intermediate connector - locking handle



Code  
**UJ051**

- Made of reinforced zinc with a silver finish. Quick and easy installation using a pressure ring that fits into the European channel. Connects to the SECUREASY® PLUS handle nail - drive bar.

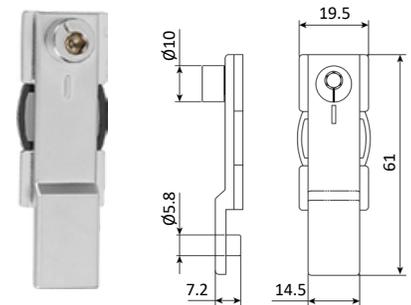
#### Intermediate connector - locking bolt



Code  
**UJ050**

- Made of reinforced zinc with a silver finish. Quick and easy installation using a pressure ring that fits into the European channel. Connects to the drive shaft on both sides with an additional locking bolt.

#### End connector - locking bolt



Code  
**UJ049**

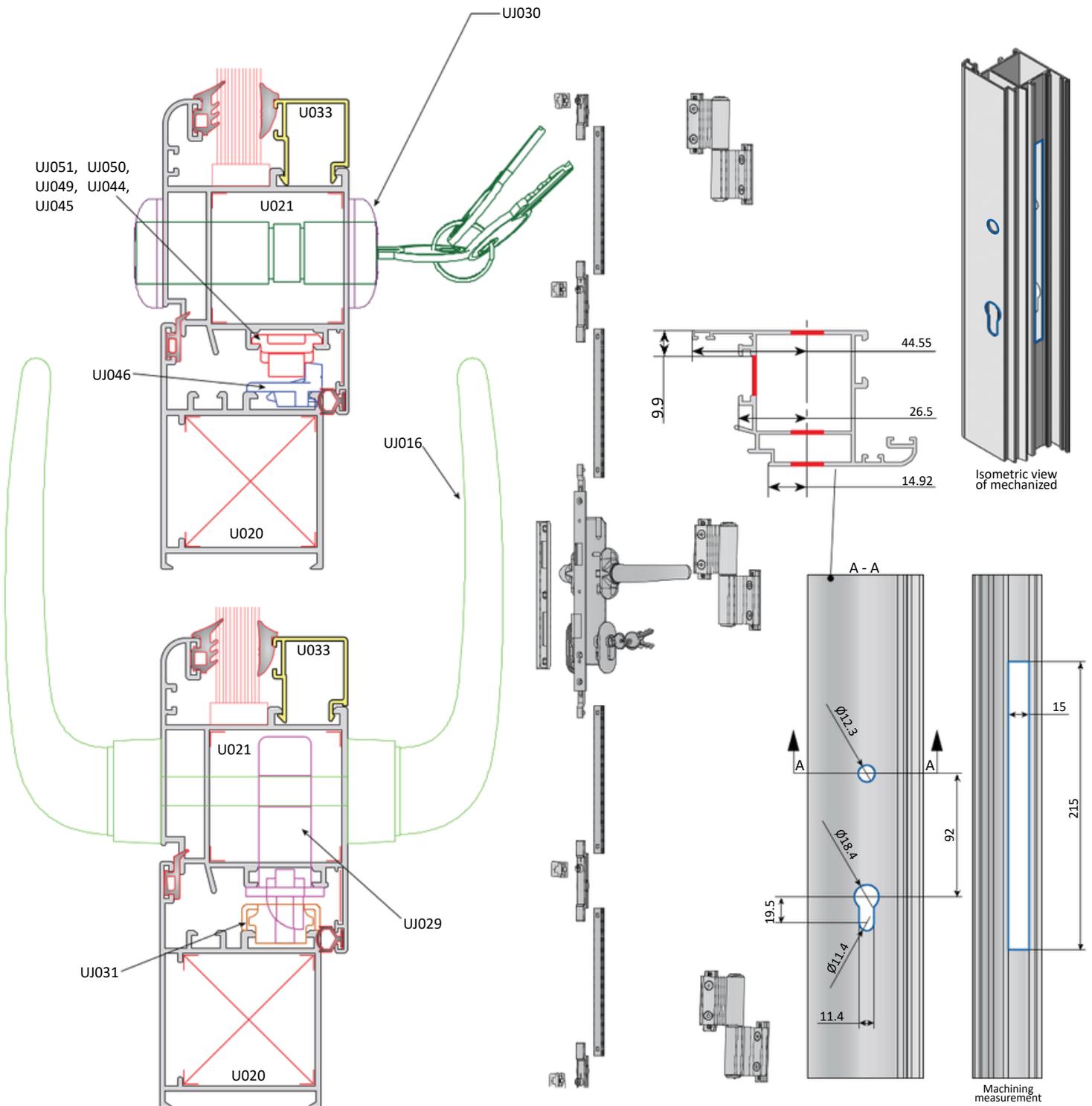
- Made of reinforced zinc with a silver finish. Quick and easy installation using a pressure ring that fits into the European channel. The drive shaft is secured with a locking bolt.

## Hardware for 45mm Folding Series Profile System

### SECUREASY® Closure PLUS for aluminum door

#### SECUREASY® Assembly PLUS for aluminum door

#### Machining of SECUREASY® PLUS for aluminum door



# Kefren

Aluminum profiles

# Europe Liftable Lift-and-slide system

Massive.  
Beautiful.  
Efficient.

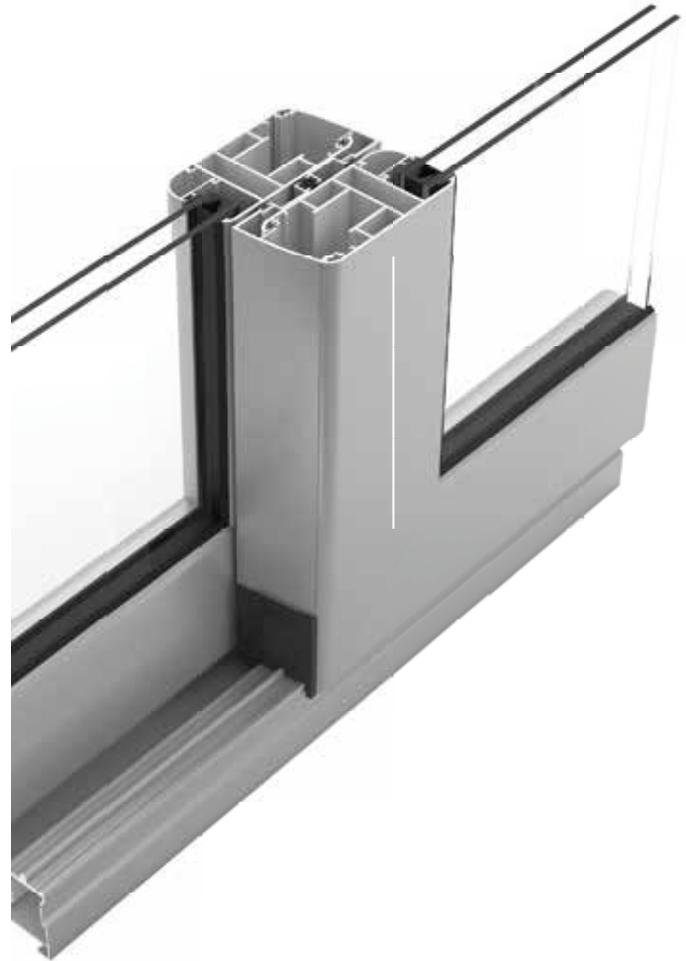


**EXLABESA**  
ARCHITECTURE



## Europe Lifiable

### Lift-and-slide system



#### A Design

The robust design of the aluminum profiles that make up the Elevable sliding system for large openings achieves a balanced appearance thanks to the curved finish of the leaves.

#### B Features

The lift-and-slide mechanism allows the installation of large glass panels is facilitated by its hardware, which allows the sash to lift slightly before moving, aided by wheeled carriages and a large handle. All of this ensures exceptionally smooth movement of the sashes.

#### C Benefits

The Elevable series relies on rubber seals that make contact rather than friction for its watertightness. This series achieves a Class 3, Class 5A, and Class C5 rating in AEV tests.

#### D Possibilities

The Exlabesa aluminum lift-and-slide door allows for the smooth and easy sliding of large panels weighing up to 400 kg, thanks to its robust hardware. It can also be used as a conventional sliding door.





When it comes to enclosing large openings, sliding doors are the perfect option. The system The Exlabesa Liftable system addresses the need for sliding large, heavy glass panels, easily supporting up to 400 kg. Both its smooth lifting mechanism and its watertight seal, based on rubber gaskets, are designed to facilitate the movement of large sliding doors.

- Maximum recommended dimensions per sheet: 3300x3200 mm
- Leaf displacement up to 400 kg
- Maximum glazing up to 27 mm
- Replaceable rail in perimeter frame

**EXLABESA**  
ARCHITECTURE

## EXLABESA ARCHITECTURE

01

### TECHNICAL DATA

---

Tests Maximum dimensions

Technical characteristics

02

### PROFILES

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03

### ACCESSORIES

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04

### HARDWARE

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05

### SECTIONS

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06

### Windows

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07

### GLAZING

---

## EXLABESA ARCHITECTURE

# 01

## TECHNICAL DATA

---

Tests Maximum dimensions

Technical characteristics

## Technical data

Tests/Maximum Dimensions / Technical Specifications

### AEV Trial

2-panel window



#### Air permeability

UNE-EN 1026:2017; UNE-EN 12207:2017

Class **3**

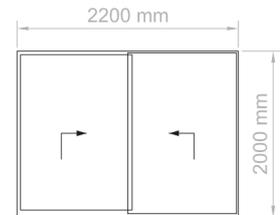
#### Watertightness

UNE-EN 1027:2017; UNE-EN 12208:2000

Class **5A**

#### Wind load resistance

UNE-EN 12211:2017; UNE-EN 12210:2017

Class **C5**

### Thermal test

2-panel window



#### Thermal transmittance

UNE-EN ISO 10077-1:2017

and	Typologies	Your
2.7 W/m <sup>2</sup> K	2-leaf balcony door 6000x3200 mm 2-	3.3 W/m <sup>2</sup> K
1.4 W/m <sup>2</sup> K	leaf balcony door 6000x3200 mm 2-	2.2 W/m <sup>2</sup> K
1.0 W/m <sup>2</sup> K	leaf balcony door 6000x3200 mm	<b>1.8 W/m<sup>2</sup>K</b>

### Acoustic test

2-panel window



#### RW sound insulation

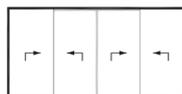
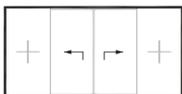
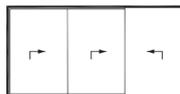
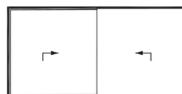
UNE-EN 14351-1:2006+A1 Annex B

## 30 dB

Values belonging to a window of <2.7 m<sup>2</sup>  
Acoustic attenuation of glass 36 dB<sub>(-1,-4)</sub>

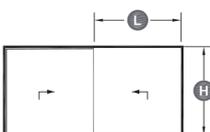
de superficie.

### Types of opening



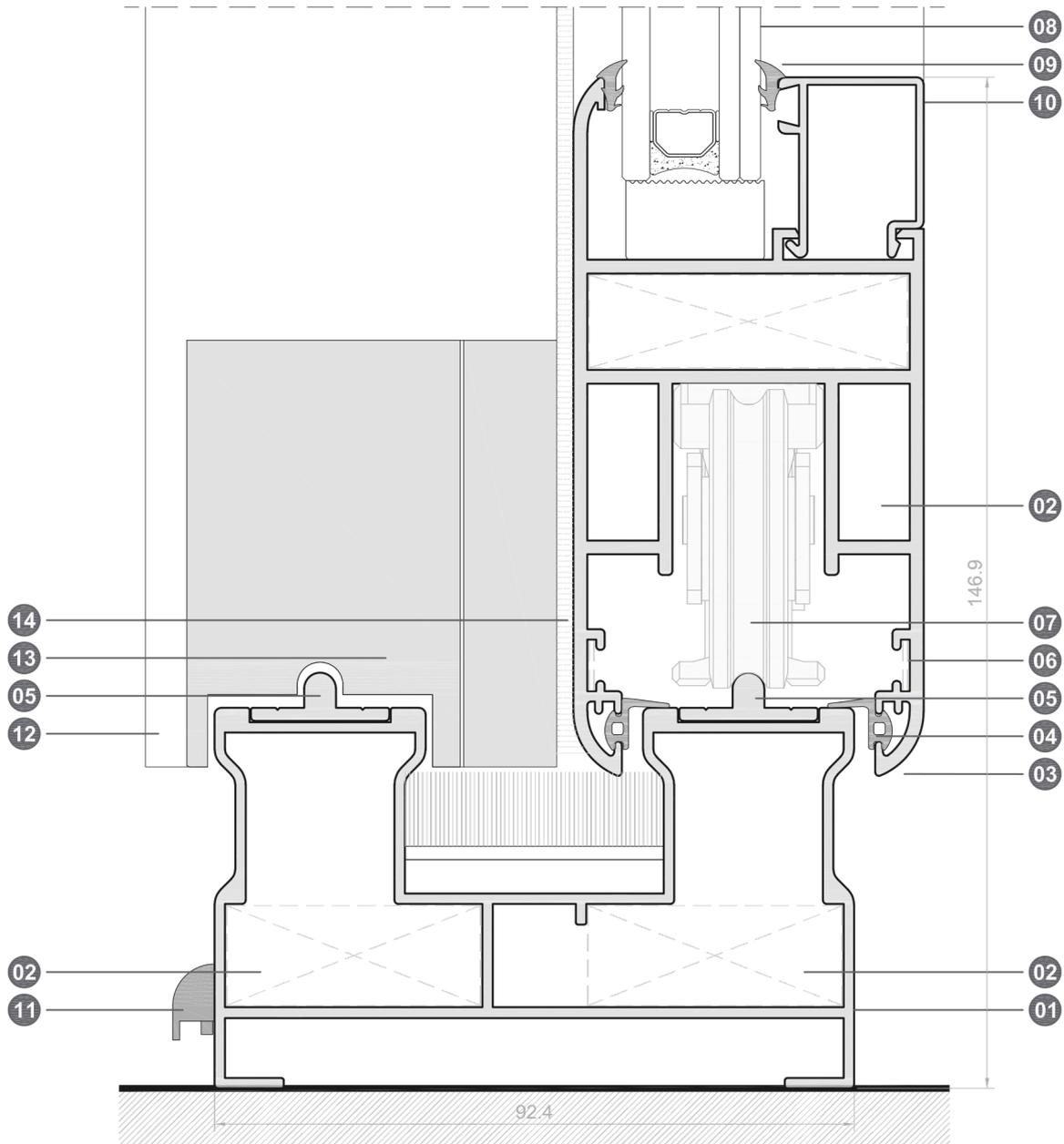
### Dimensions and maximum recommended

weight



L	H	
3300 mm	3200 mm	400 kg

Dimensions and maximum recommended weight for 1 sheet With lifting hardware and additional trolley. Consult weight and dimensions for other models.



- |    |                                    |    |                                 |
|----|------------------------------------|----|---------------------------------|
| 01 | perimeter marker                   | 08 | 22 mm galce junquillos          |
| 02 | Union Squad                        | 09 | EPDM glazing gasket             |
| 03 | Perimeter sheet                    | 10 | Wide variety of glazing options |
| 04 | Leaf sealing gasket                | 11 | Drain                           |
| 05 | Guide coupling for perimeter frame | 12 | center leaf coupling            |
| 06 | Alignment square                   | 13 | Center leaf cap kit             |
| 07 | Bearing                            | 14 | 6.5x7 mm brush for center blade |

## EXLABESA ARCHITECTURE

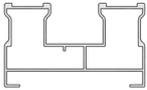
# 02

### PROFILES

P those/perimeters/inertias

**EXL-4757**

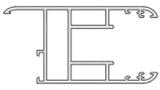
perimeter marker



kg	1,717
mm	777
lx	19,58
ly	65,52

**EXL-4636**

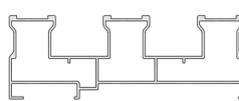
Perimeter sheet



kg	2,061
mm	779
lx	29,59
ly	44,84

**EXL-28173**

154.3 mm three-rail frame



kg	2,631
mm	1198
lx	28,92
ly	242,73

**EXL-4637**

Leaf coupling



kg	0,685
mm	303
lx	6,23
ly	7,10

**EXL-4680**

Leaf coupling for non-lifting hardware



kg	0,197
mm	106
lx	0,042
ly	0,60

**EXL-4796**

Rail for perimeter frame



kg	0,160
mm	52
lx	0,019
ly	0,12

**U046**

15 mm bead



kg	0,236
mm	160
lx	0,63
ly	0,27

**U032**

31 mm bead



kg	0,290
mm	192
lx	0,80
ly	1,04

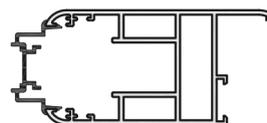
### T-1606-S

Leaf Union - In-line sliding coupling



Optional lock support coupling  
central meeting of leaves

EXL-4636



## Symbolism

Icons / Description



Miter joint bracket



Drill machining



Crossbar stop



Machining with a milling machine



Polyethylene foam



Die machining



Glazing wedge



Drain



Tightening procedure



Screw



Silicone sealing



Set of lids



Operation marking



Part/accessory



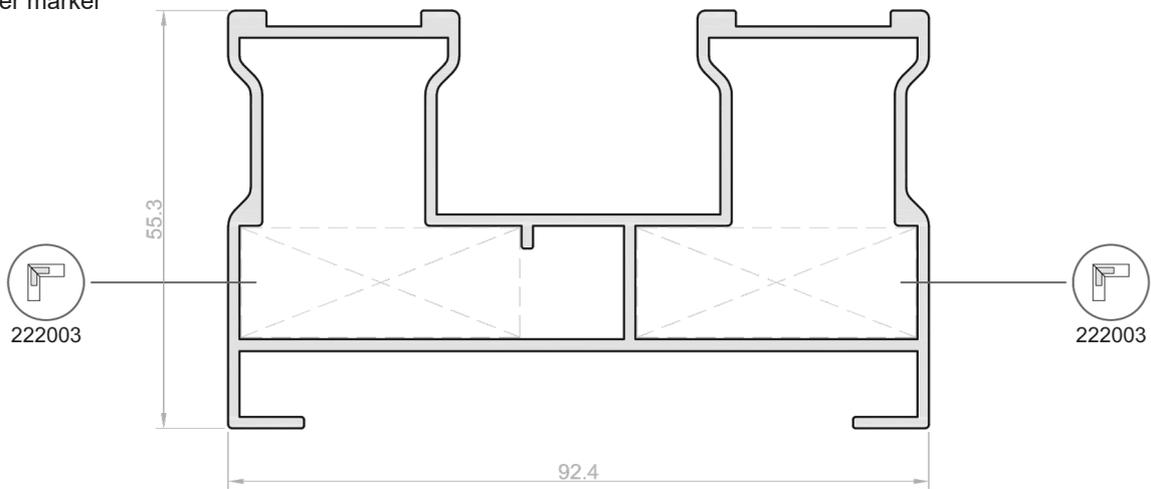
Performing manual cutting



Hardware

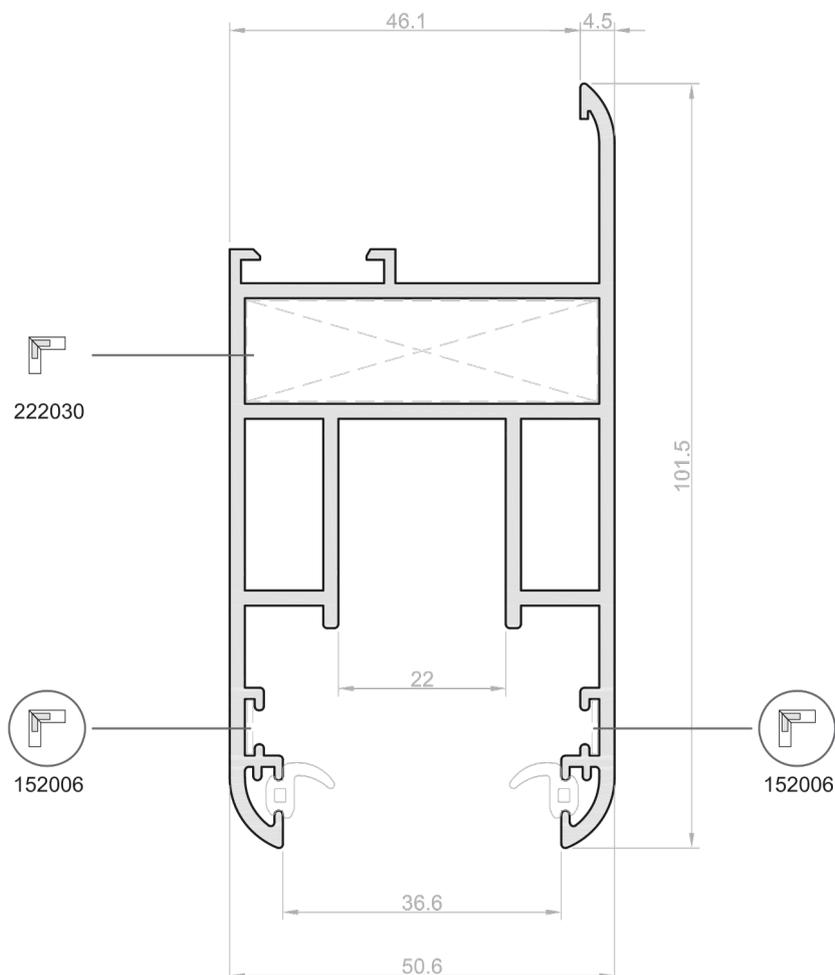
### E X L-4757

perimeter marker



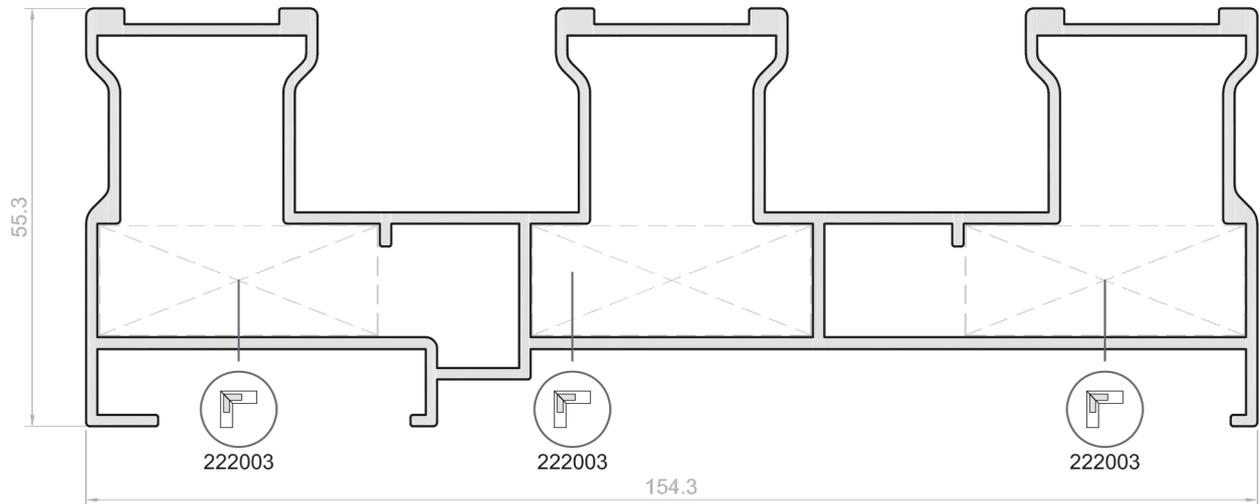
### E X L-4636

Perimeter  
sheet



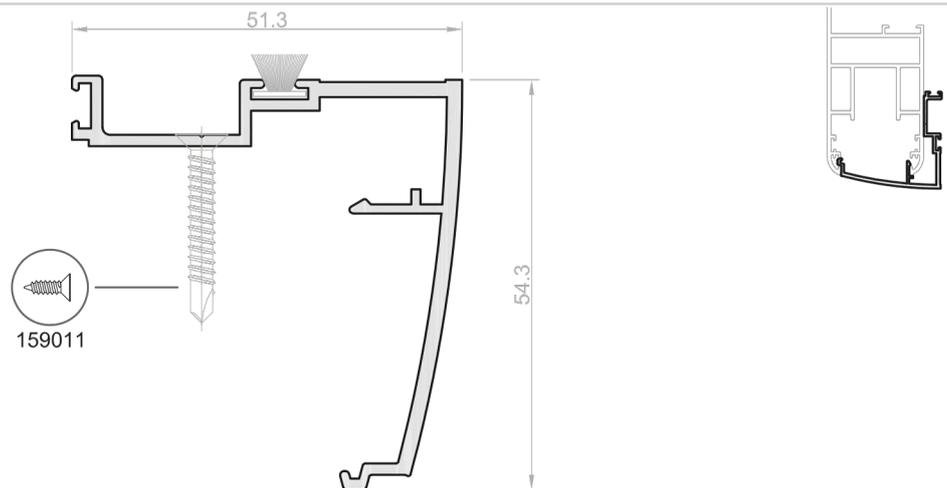
### E X L-28173

Frame 154,3 mm



### E X L-4637

Leaf coupling



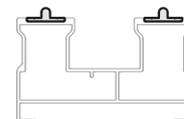
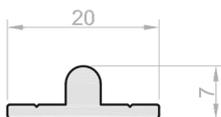
### E X L-4680

Leaf coupling for non-lifting hardware



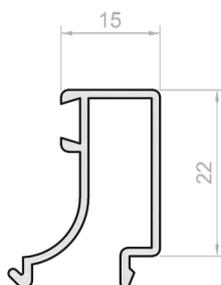
## E X L-4796

Perimeter frame rail



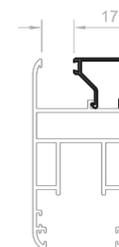
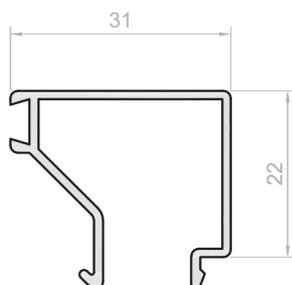
## U046

15 mm trim



## U032

31 mm trim



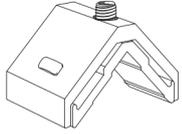
**EXLABESA**  
ARCHITECTURE

# 03

ACCESSORIES

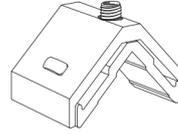
The teams Together T apas

Liftable Series Joining Bracket **EXL-222003**



Unfinished Unit

Liftable Series Joining Bracket **EXL-222030**



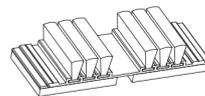
Unfinished Unit

Alignment square **UA003**



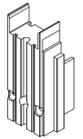
Unfinished Unit

Windbreaker **EXL-112001**



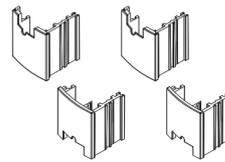
Black Unit

Side stop for upper guide **EXL-218002**



Black Unit

Crossover caps for **EXL-129003**



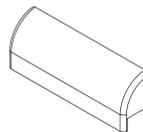
Black Kit

7x5.5 mm brush with blade for center attachment **U012**



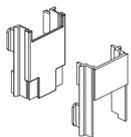
Gray M

Drain with sheet **UA015**



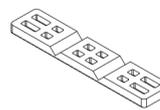
Black Unit  
and  
White Unit

Set of covers for T-1606-S (leaf joining) **EXL-241018**



Black Game

Glazing wedge



<b>YZ.031</b>	100x20x1 mm	Unit
<b>YZ.032</b>	100x20x3 mm	Unit
<b>YZ.033</b>	100x20x3 mm	Unit
<b>YZ.034</b>	100x20x3 mm	Unit
<b>YZ.035</b>	100x20x3 mm	Unit
<b>YZ.036</b>	100x20x3 mm	Unit

Sealing gasket for crossing covers **UI002 (EPDM)**



Black M

liftable joint **EXL-110002 (EPDM)**



Black M

2mm glazing gasket **UI005** (EPDM)

Black

M

3mm Glazing Seal **UI006** (EPDM)

Black

M

Glazing gasket 4mm **UI007** (EPDM)

Black

M

6mm Glazing gasket **UI009** (EPDM)

Black

M

5mm Glazing Seal **UI008** (EPDM)

Black

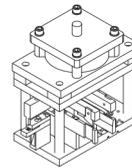
M



Die with air cushion for Elevable series

Black

Unit



## EXLABESA ARCHITECTURE



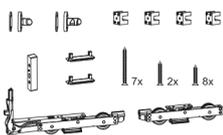
### HARDWARE

---

Multipoint  
Handles  
and Locks

## LIFTABLE KIT (WHITE - BLACK)

### 300 kg lifting kit



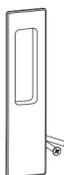
### Premium interior lift handle with keyhole (with screws)



### Cremone bolt hardware for sash height. Silver



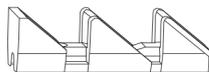
### Premium external lifting fingernail (with screws)



### Ø8 mm connecting rod for blade width



### Liftable aeration clamp



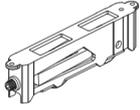
### Spring for lifting cremone bolt (150 kg)



## LINEAL SERIES

Zamak tandem bearing (220 kg/leaf) / EXL-120031 linear slide

Black Unit



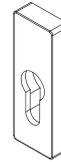
Multipoint locking shim UA077.1 / Linear slider UA021.1



Multipoint entry 30 (1600 mm) / Linear slide UA077.1



Interior light bulb trim



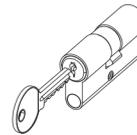
<b>UA082</b>	White	Unit
<b>UA082</b>	Black	Unit

Large multipoint handle / Linear slide



<b>EXL-127100</b>	White	Unit
<b>EXL-127101</b>	Black	Unit

Standard key cylinder (30x30 mm) 15 mm cam



<b>UJ030</b>
<b>UA085</b>

**EXLABESA**  
ARCHITECTURE

# 05

SECTIONS

Typical sections Horizontal sections  
Vertical sections

## Symbolism

Icons / Description



Miter joint bracket



Drill machining



Crossbar stop



Machining with a milling machine



Polyethylene foam



Die machining



Glazing wedge



Drain



Tightening procedure



Screw



Silicone sealing



Set of lids



Operation marking



Part/accessory



Performing manual cutting



Hardware

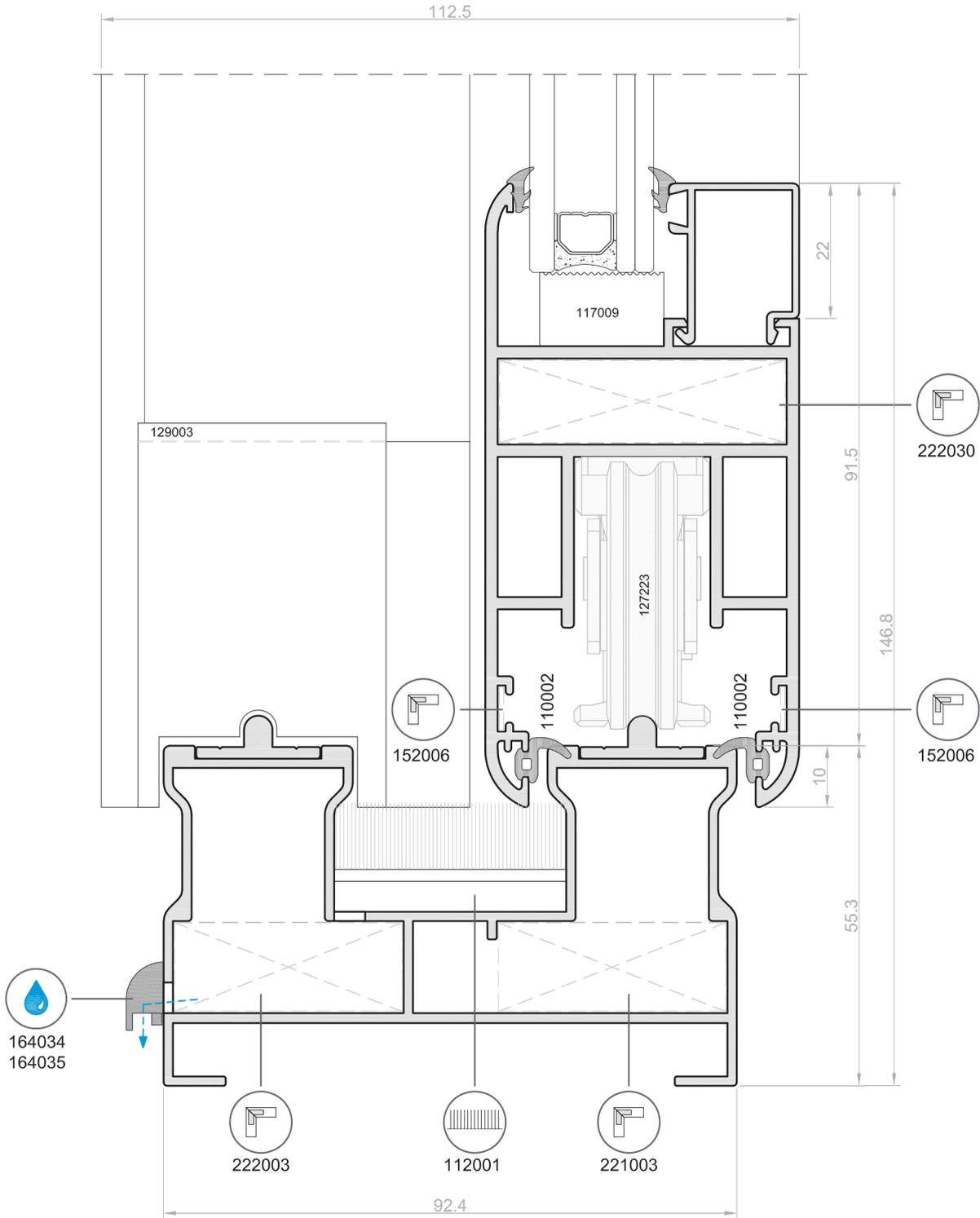
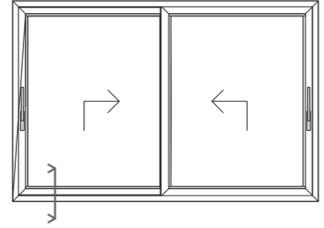
## Index

Horizontal sections / Vertical sections

2	<p>Diagram showing horizontal sections of a two-pane window. Labels include S01, S02, S03, S04, S05, S06, S07, and S08.</p>
3	<p>Diagram showing horizontal sections of a three-pane window. Labels include S05, S09, and S10.</p>
4	<p>Diagram showing horizontal sections of a four-pane window. Labels include S05, S011, S012, and S05.</p>
Window model	<p>The leaves can be liftable, non-liftable, or fixed without the discounts changing. It is necessary to consider the accessories and hardware in each case.</p> <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;"> <p>Liftable</p> </div> <div style="text-align: center;"> <p>Non - Liftable</p> </div> <div style="text-align: center;"> <p>Fixed</p> </div> </div>

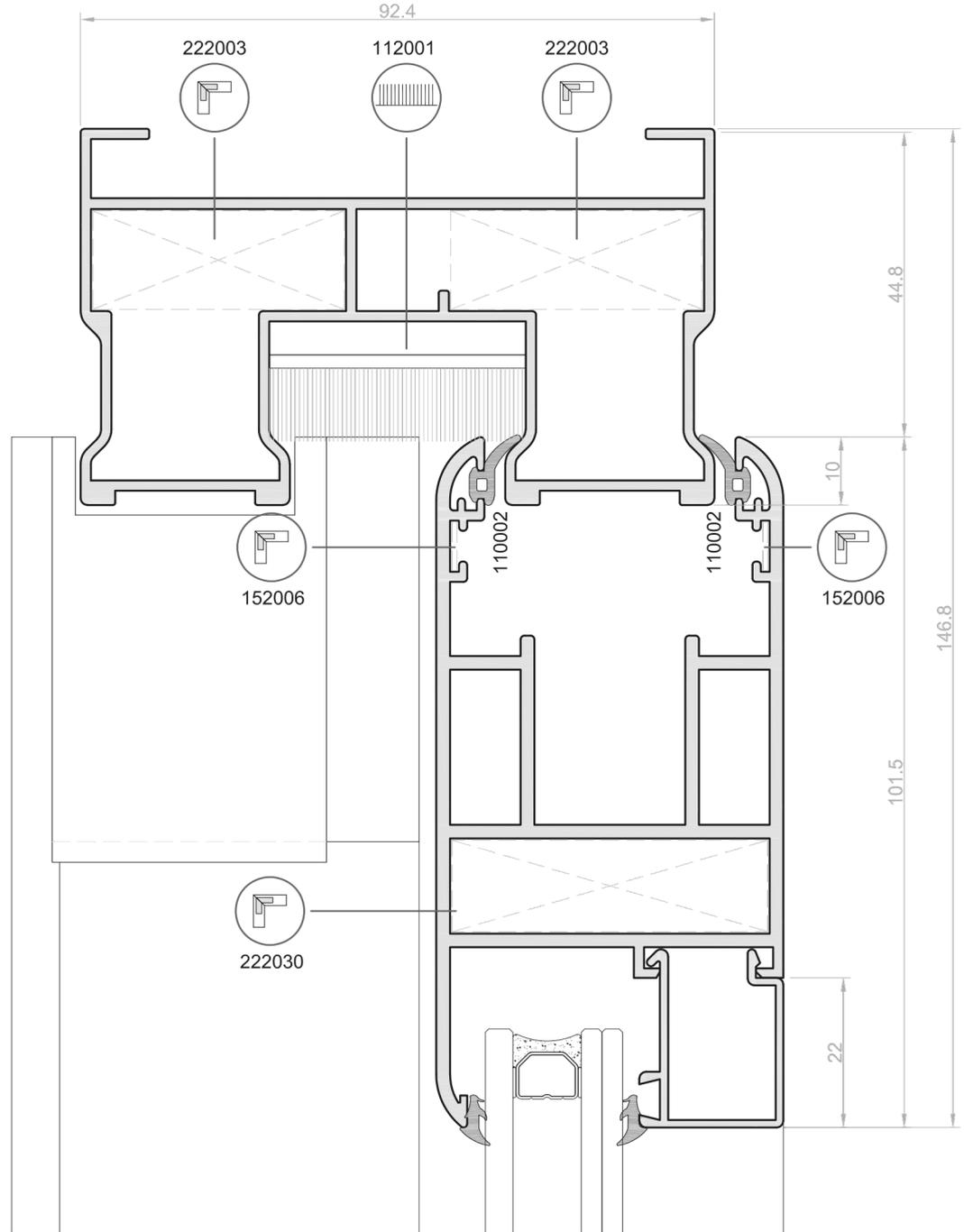
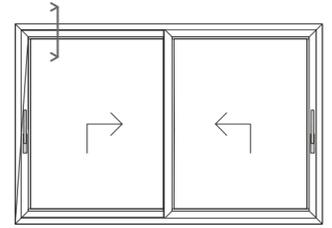
### S01

2-leaf lift-and-slide window



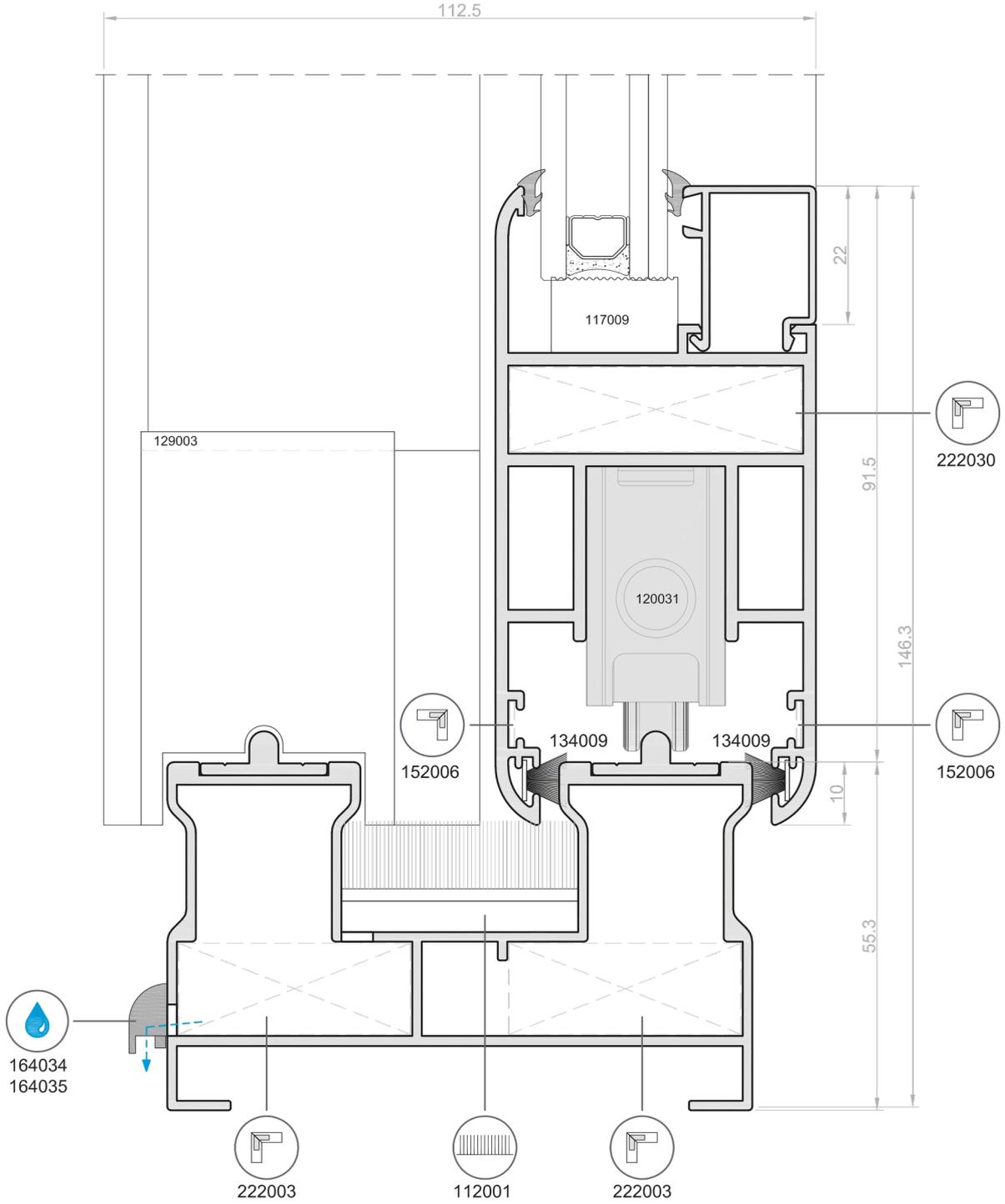
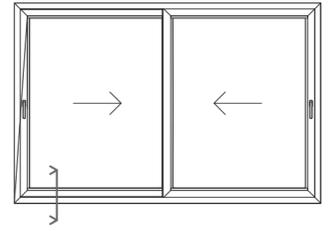
### S02

2-leaf lift-and-slide window



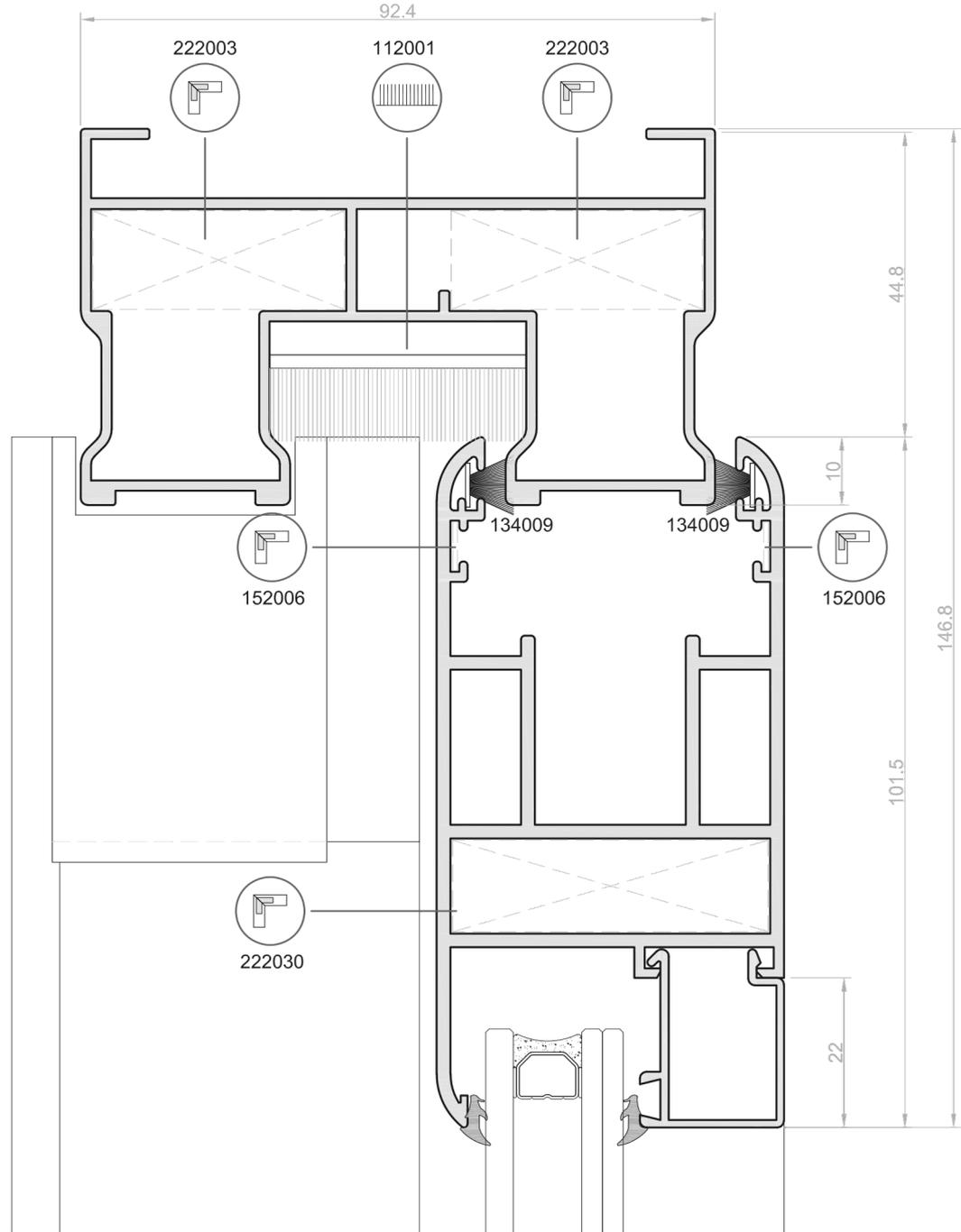
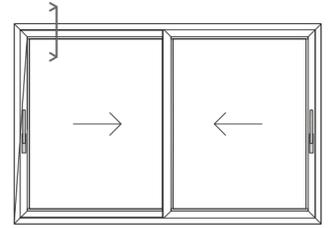
### S03

2-leaf in-line sliding window



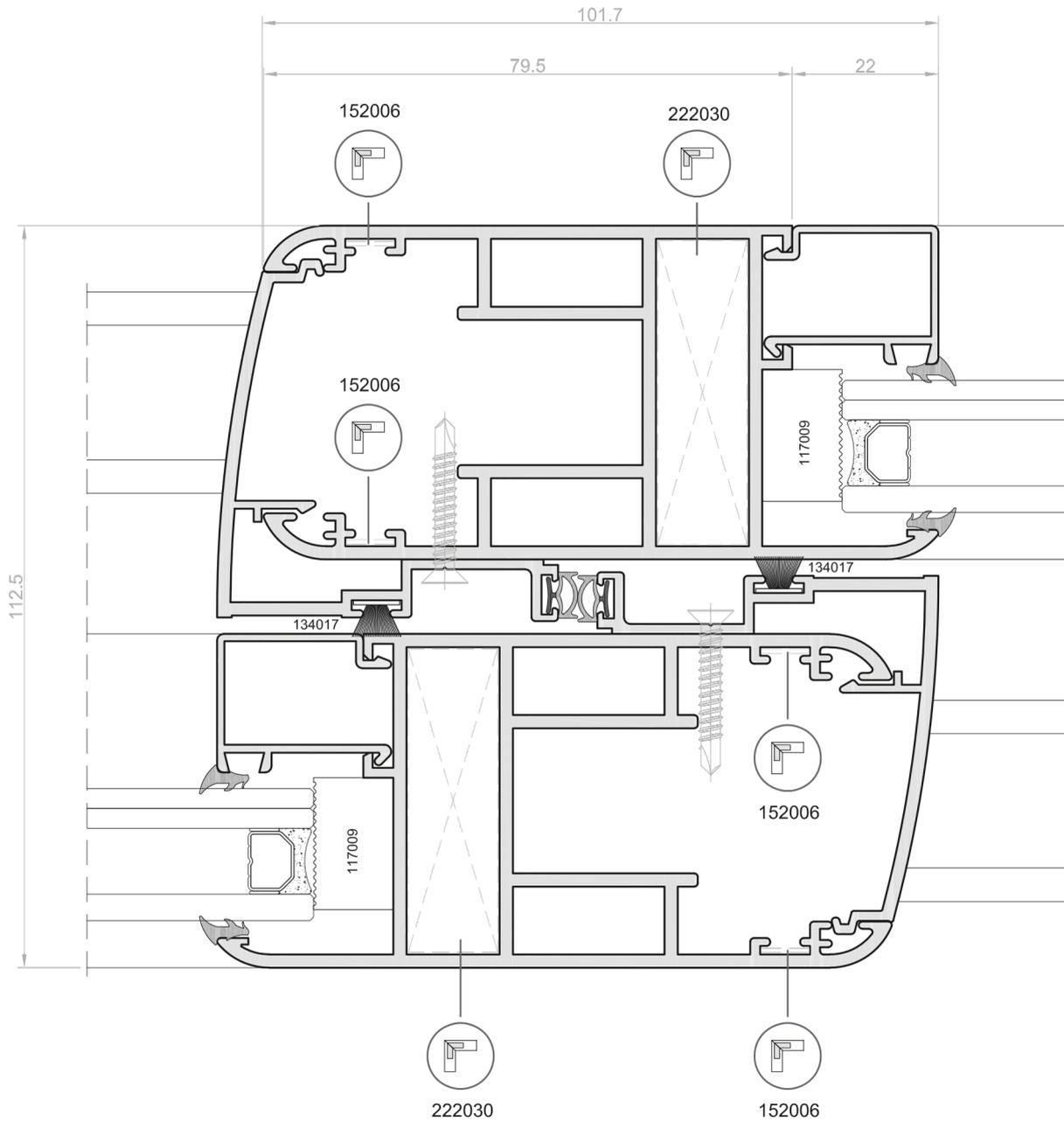
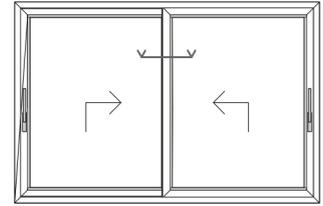
### S04

2-leaf in-line sliding window

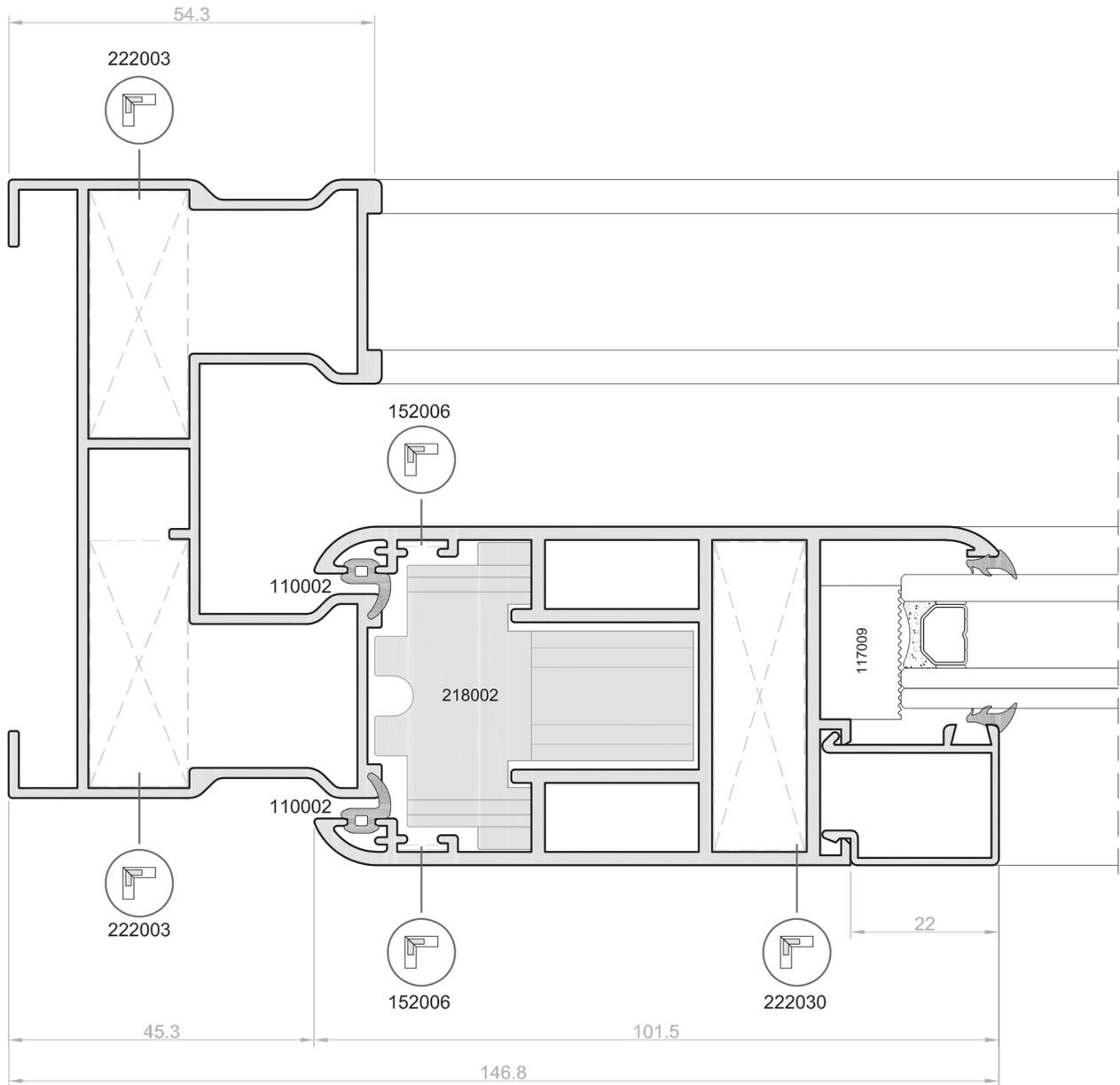
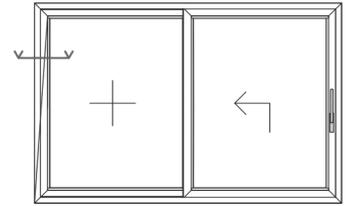


### S05

2-leaf lift-and-slide window

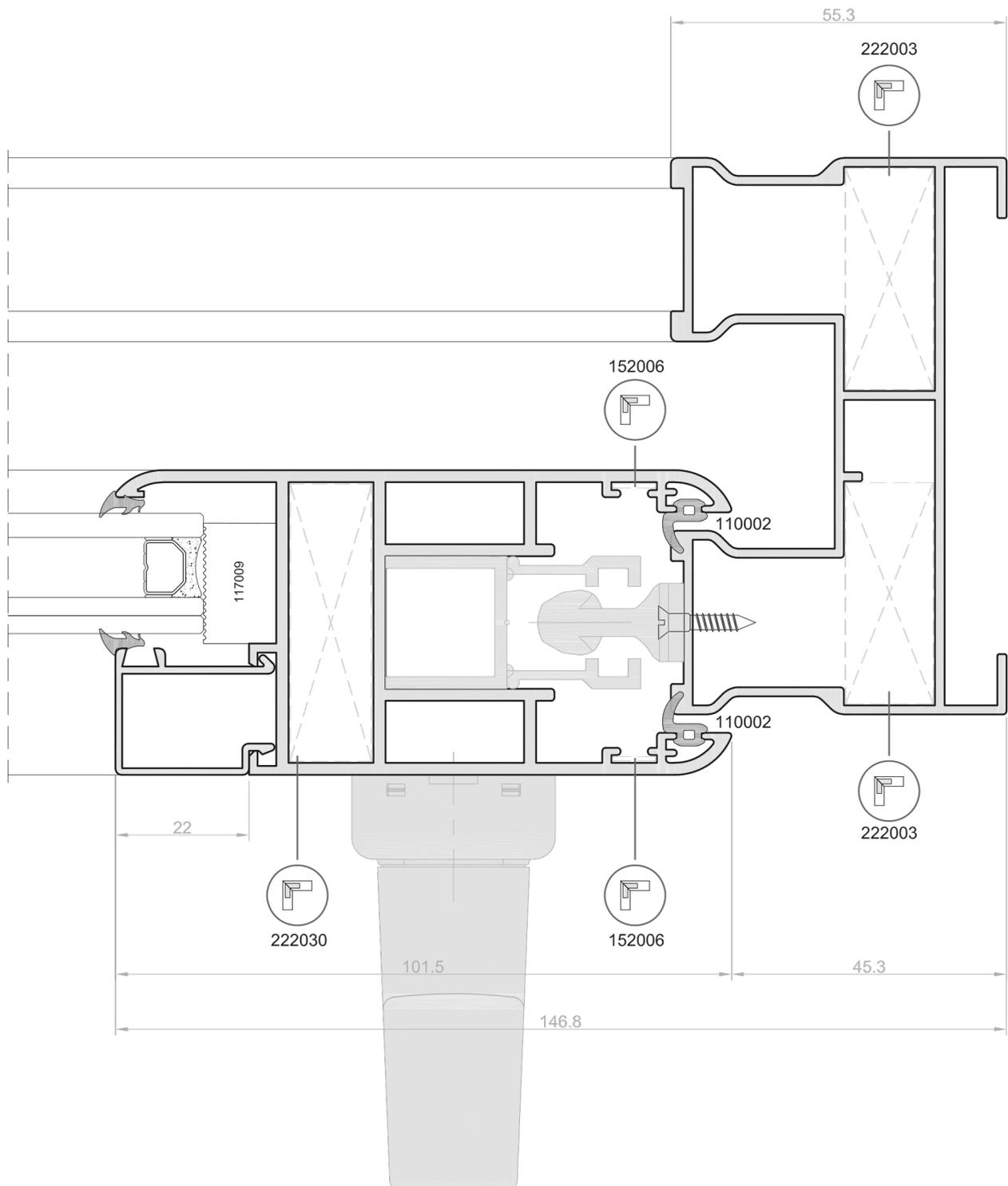
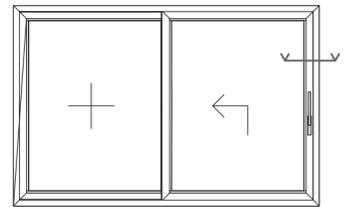


2-leaf lift-and-slide window



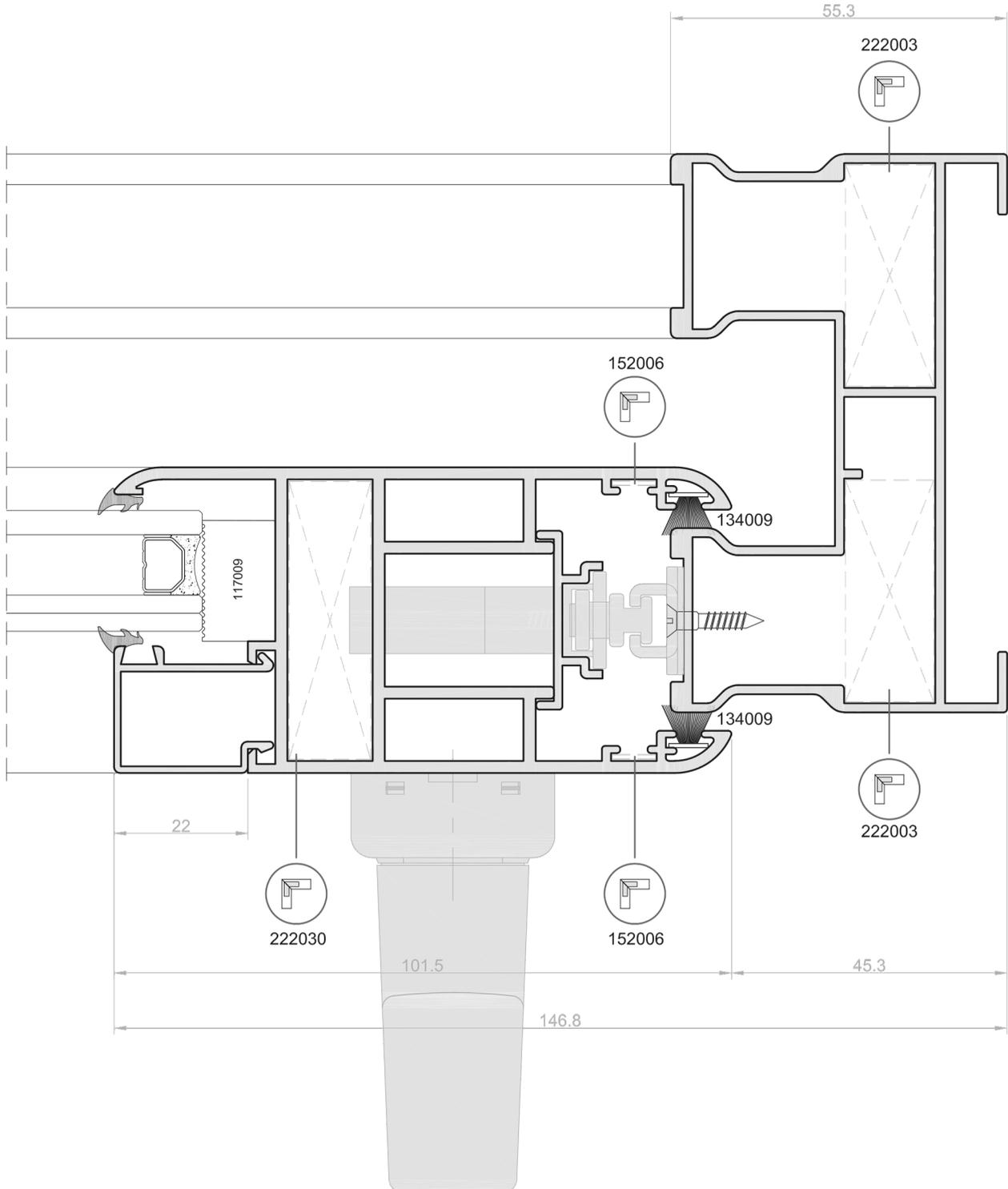
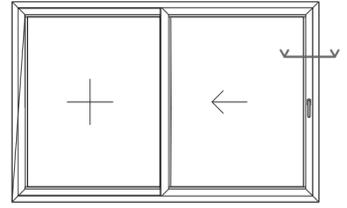
## S07

2-leaf lift-and-slide window



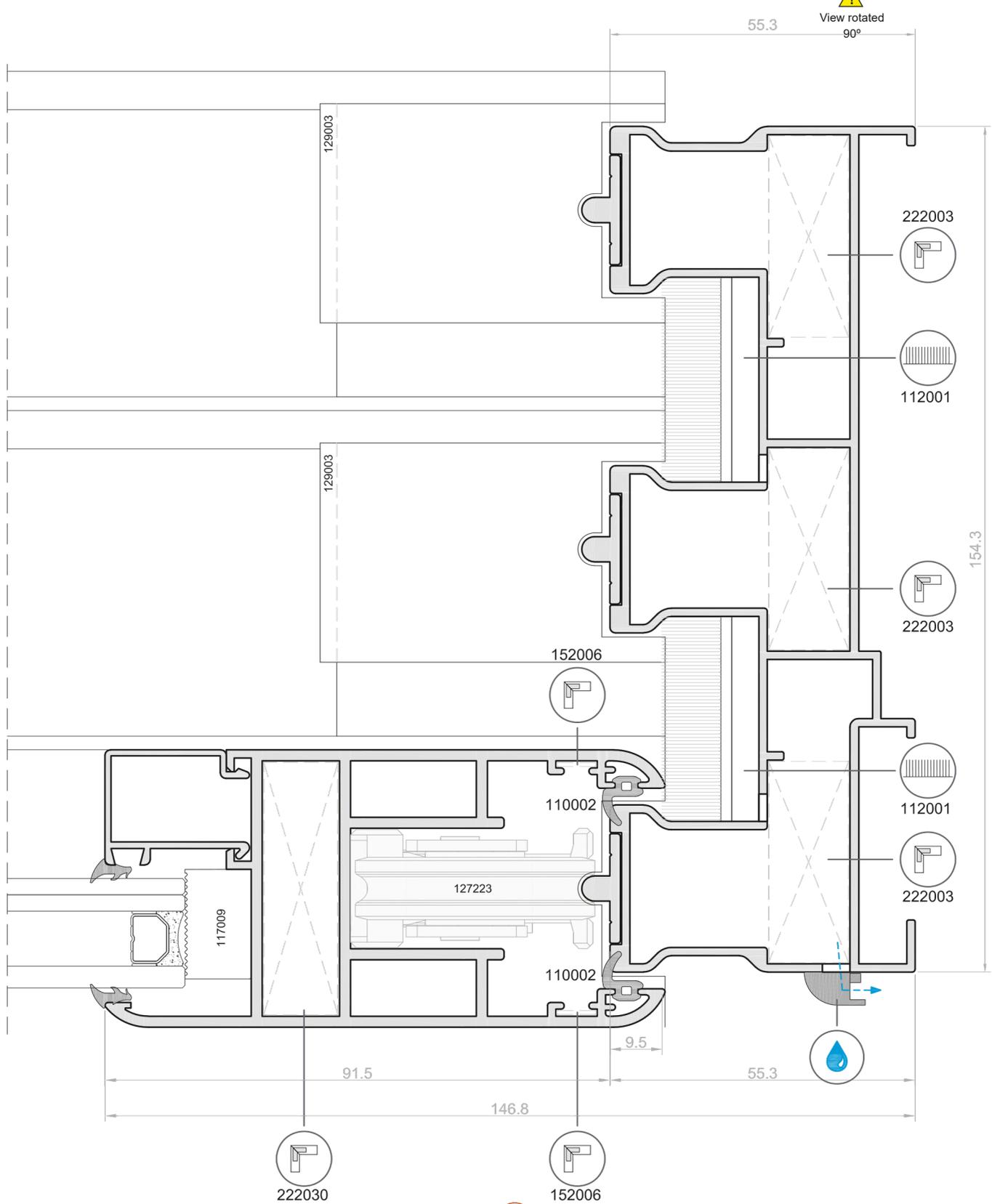
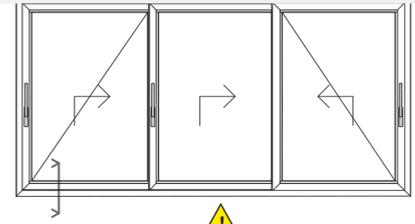
## S08

2-leaf in-line sliding window



### S09

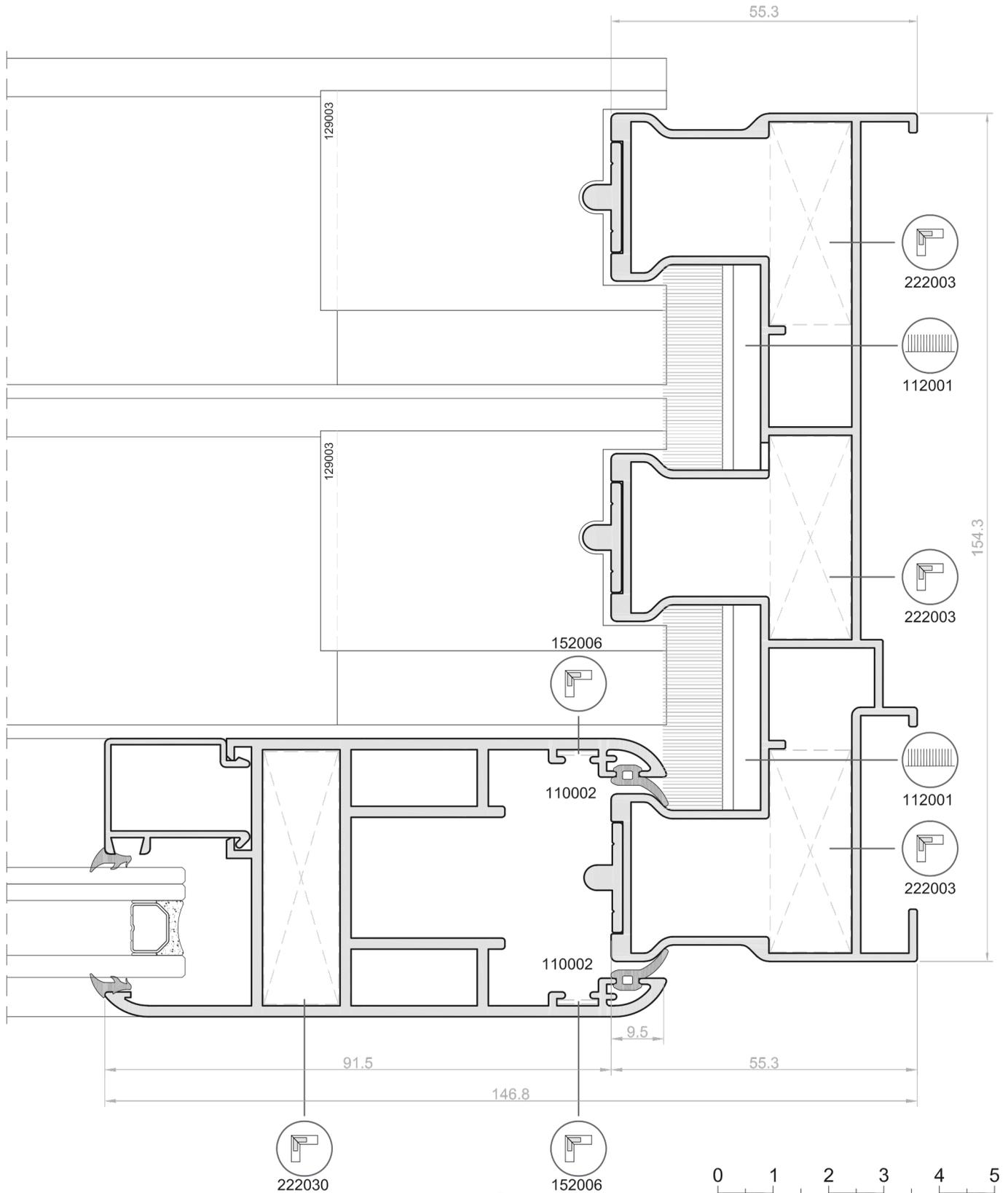
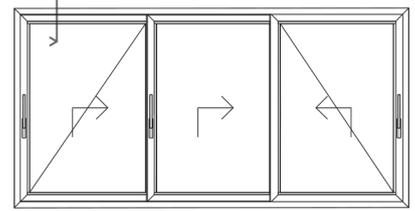
2-leaf lift-and-slide window



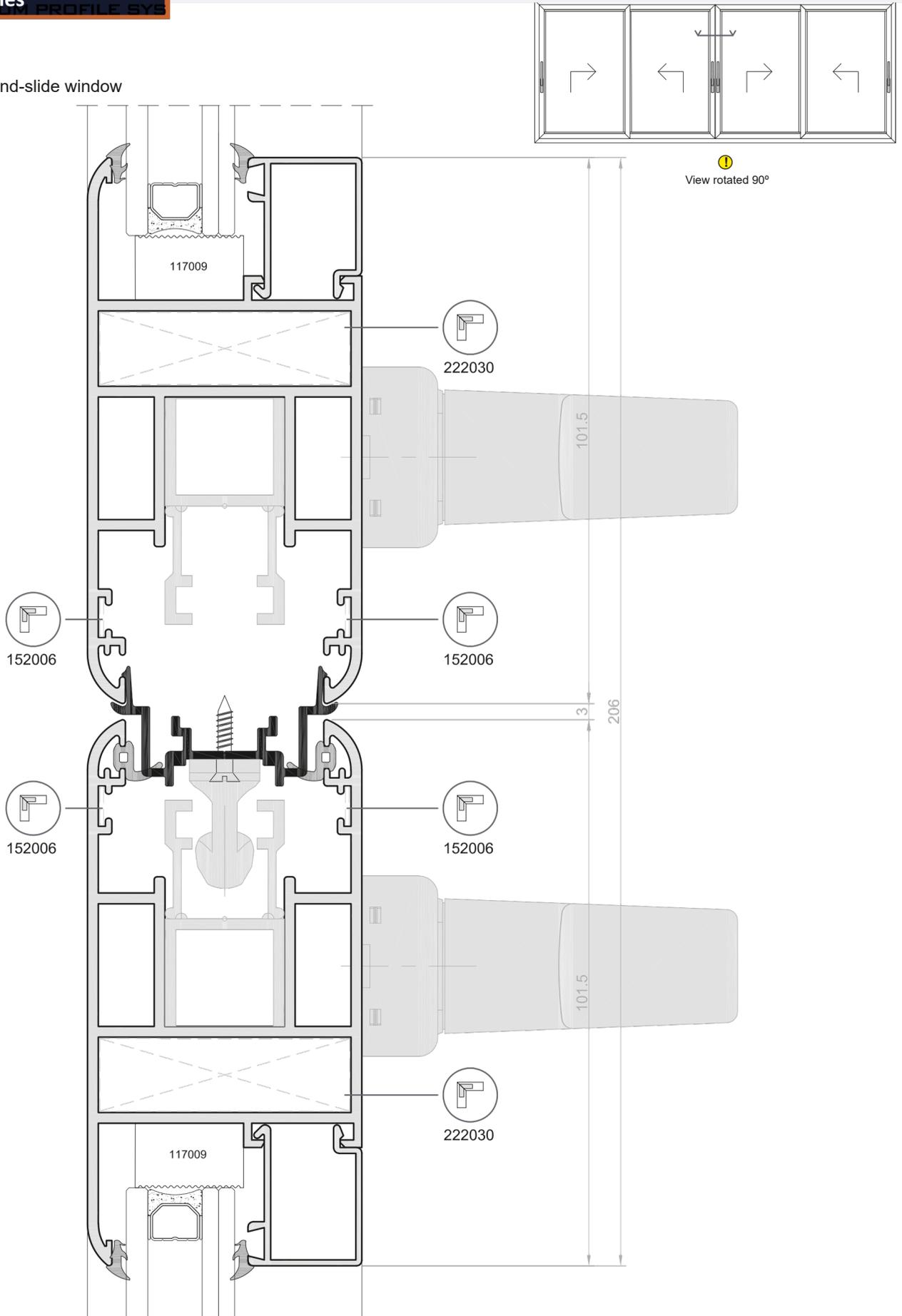
## S10

2-leaf lift-and-slide window

 View rotated 90°



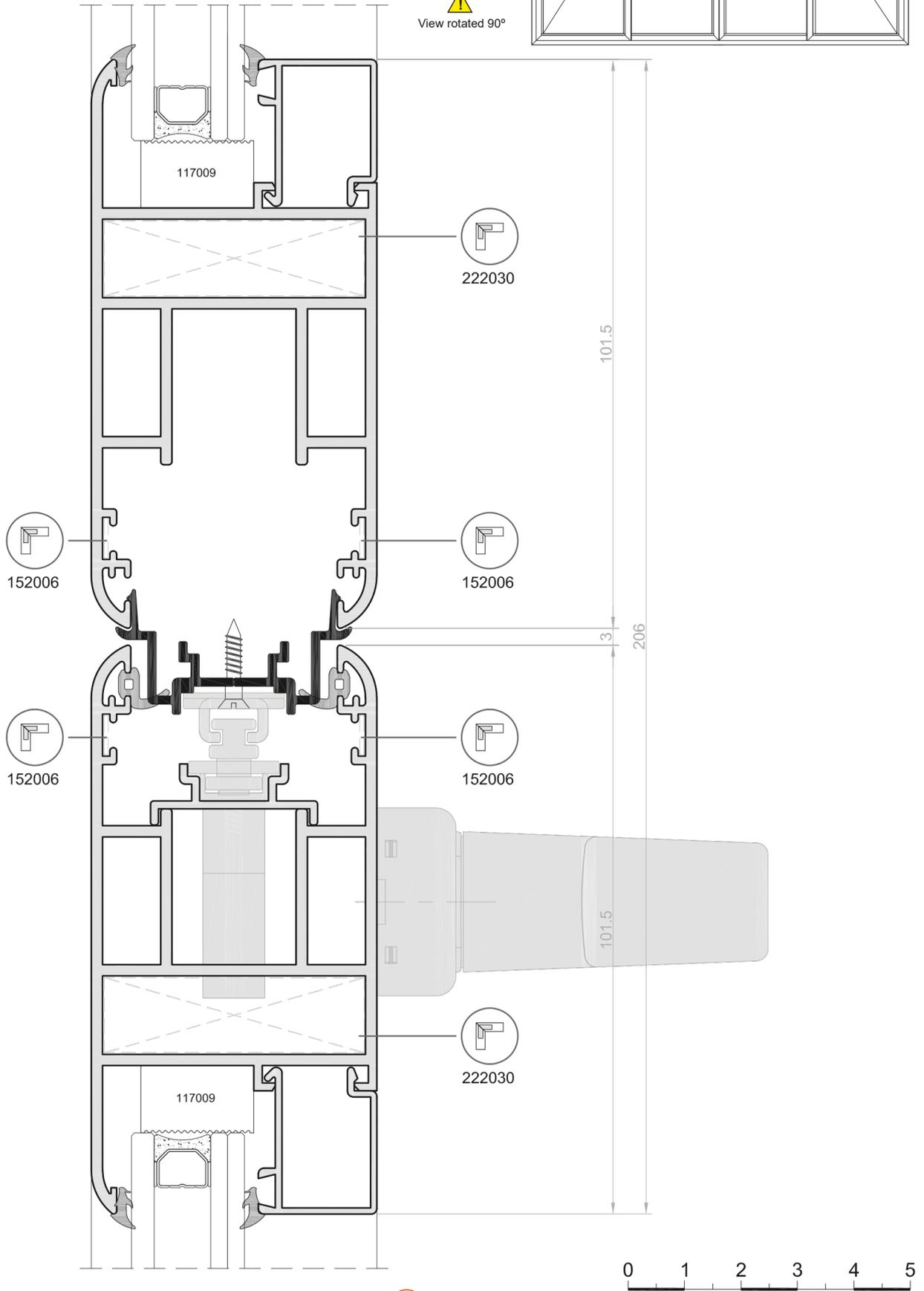
4-panel lift-and-slide window



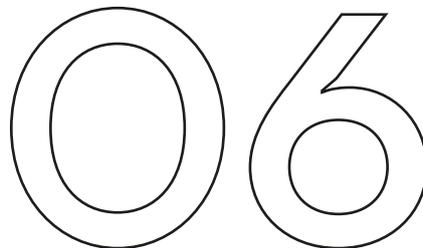
### Aluminum profiles

## S12

4-panel sliding window



## EXLABESA ARCHITECTURE

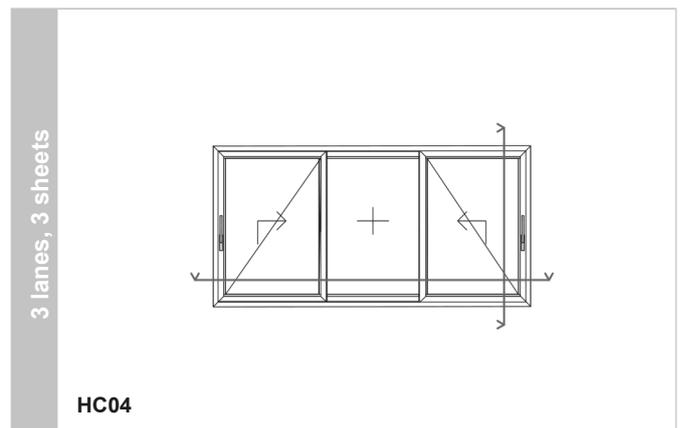
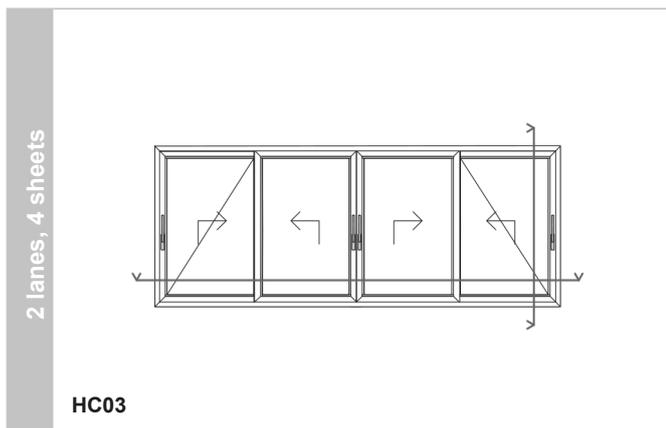
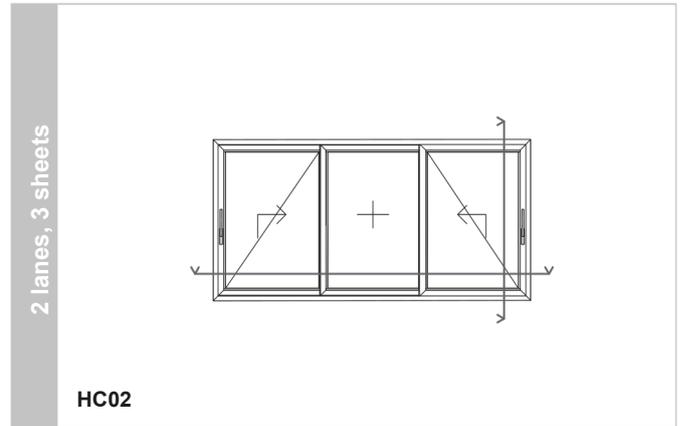
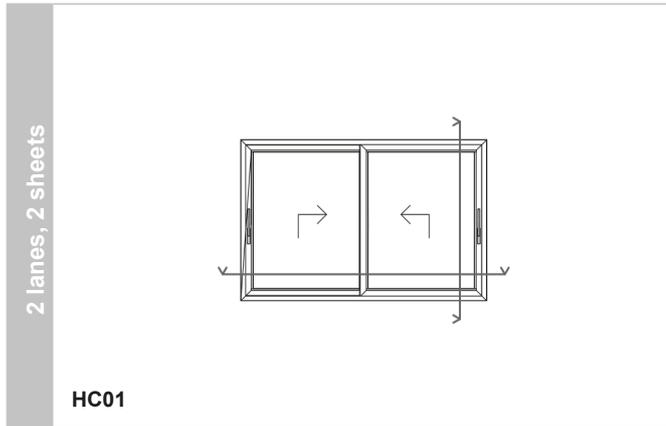


### MONTAGES

Cutting sheets for  
balcony windows

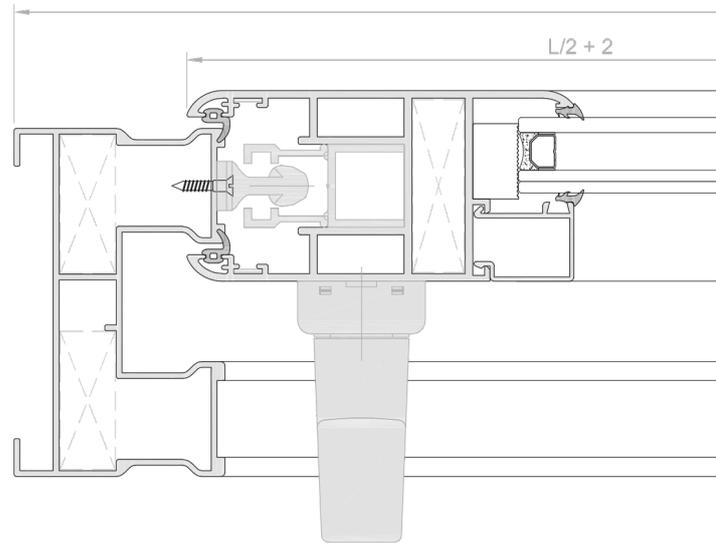
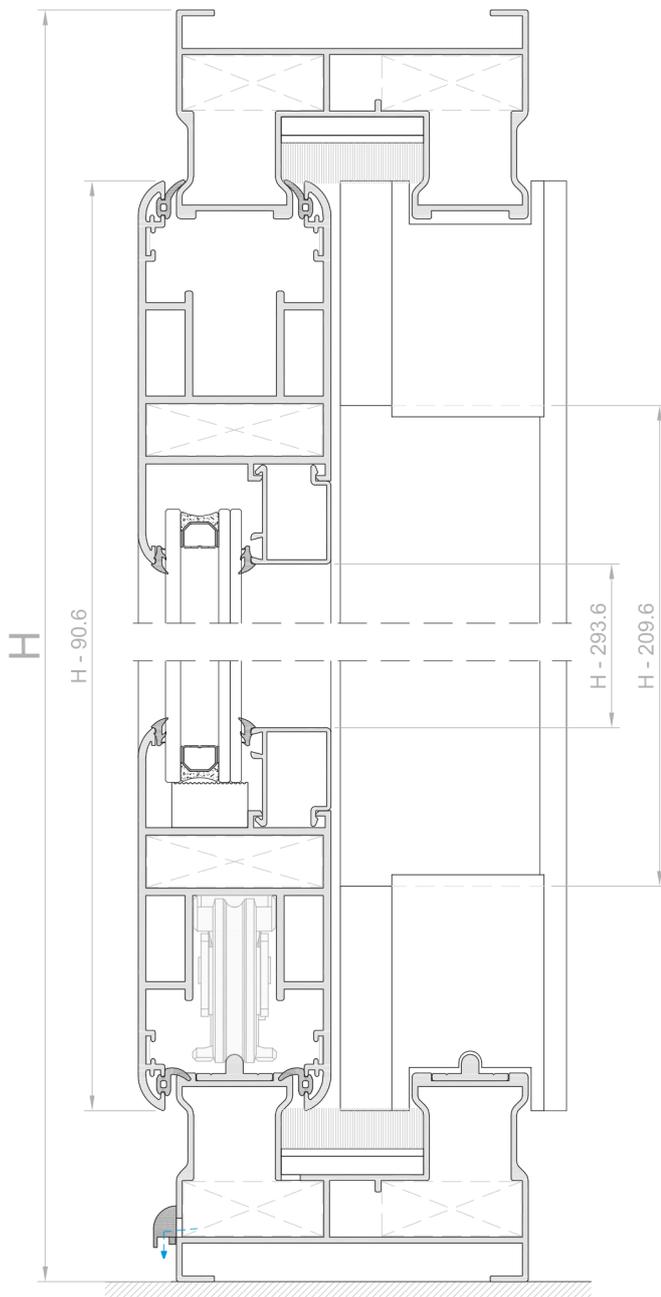
## Index

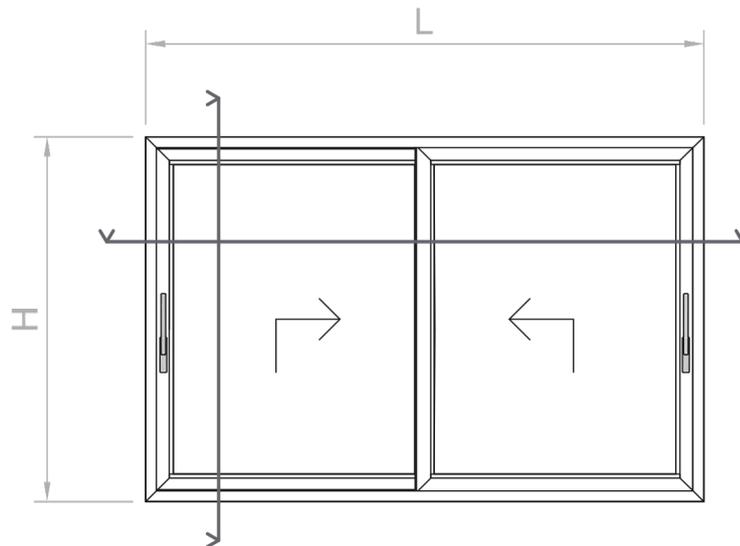
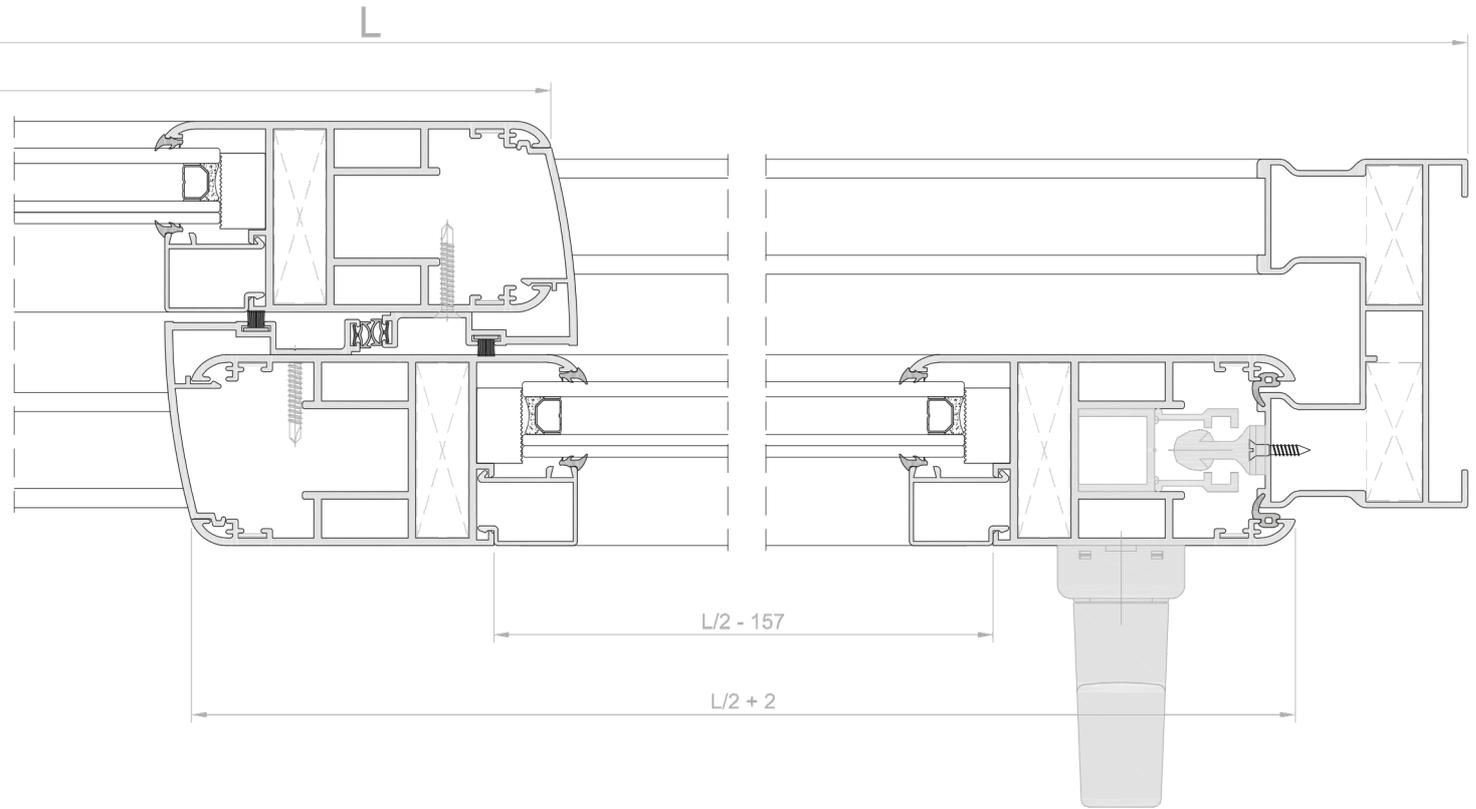
Cutting blades

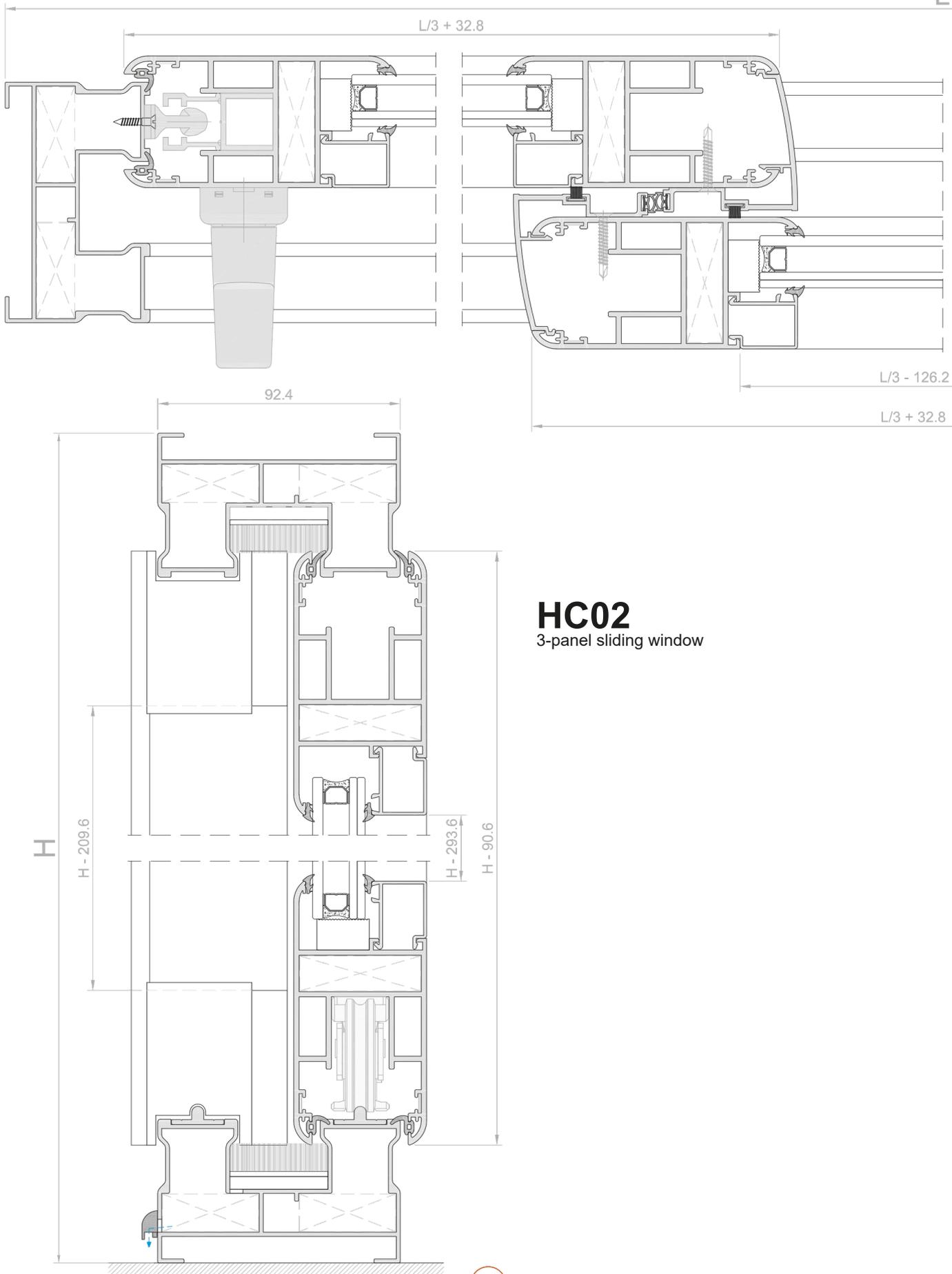


## HC01

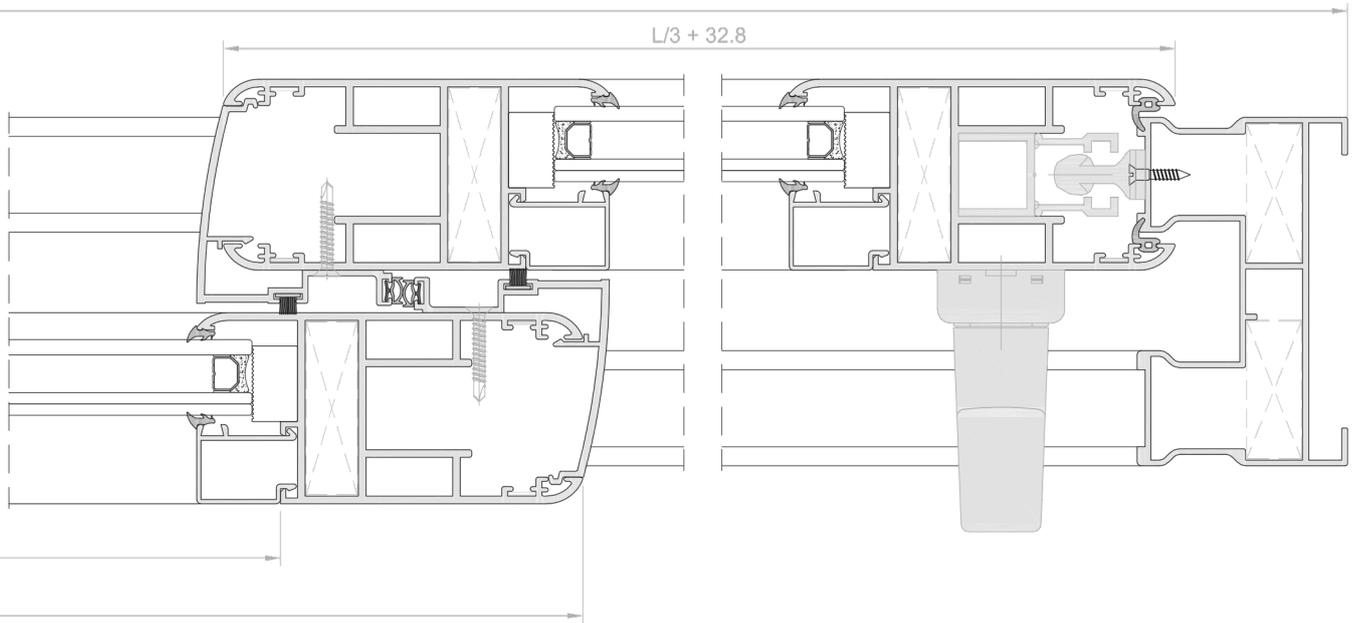
2-panel sliding window

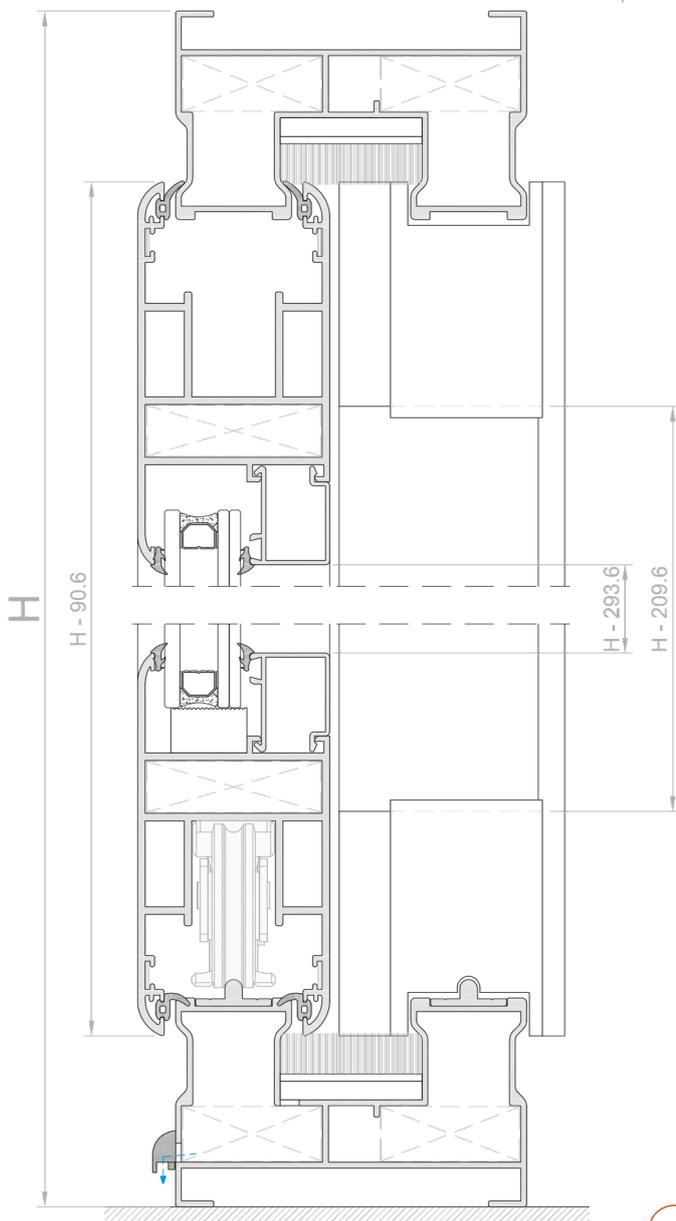
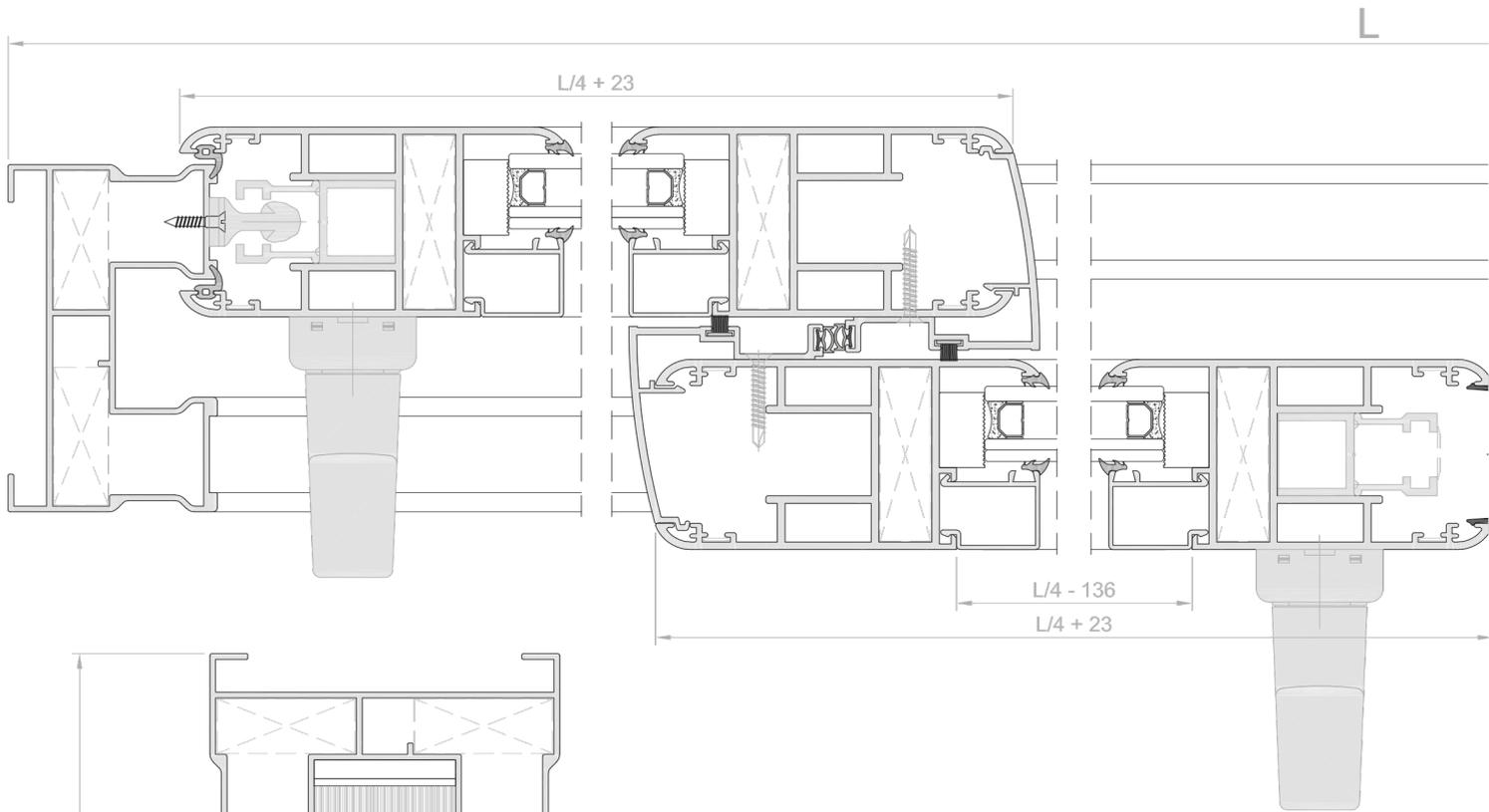






**HC02**  
3-panel sliding window





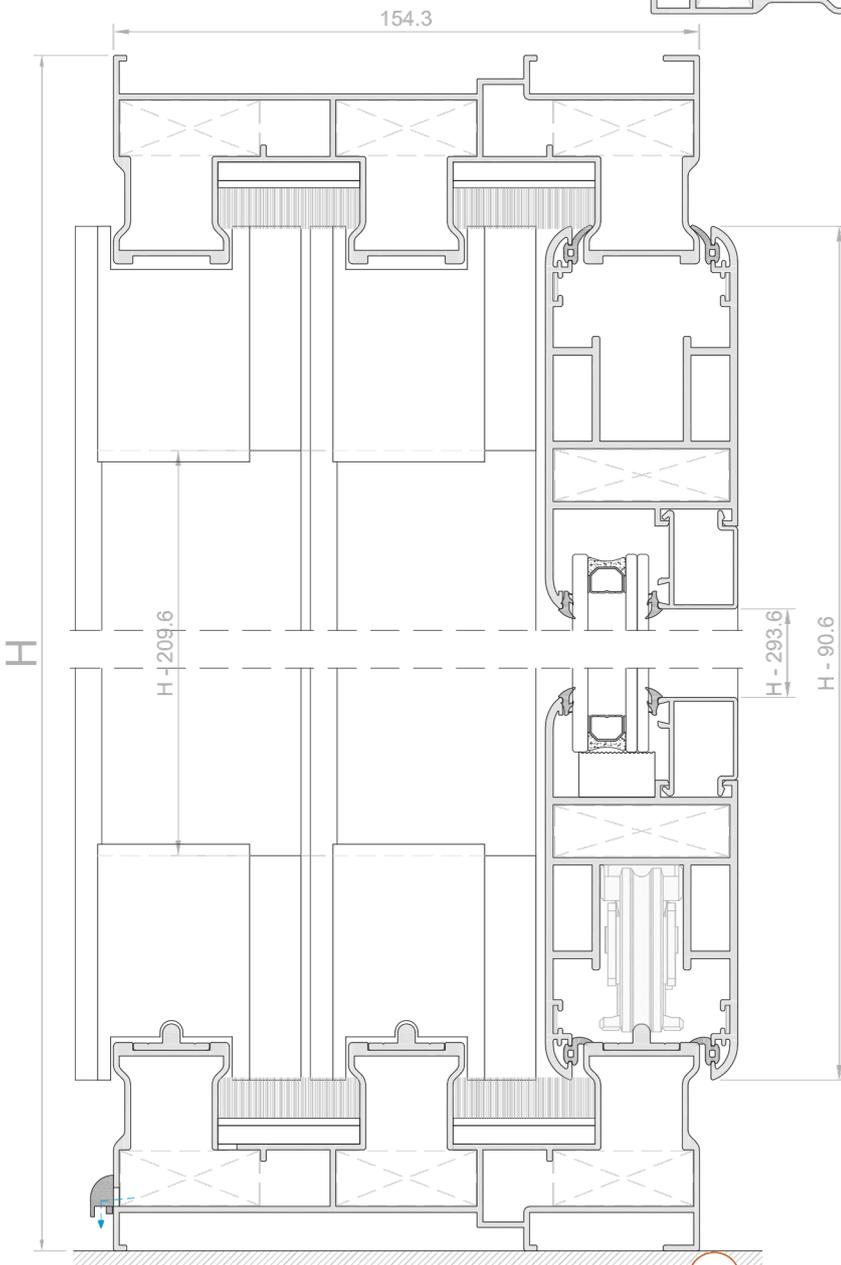
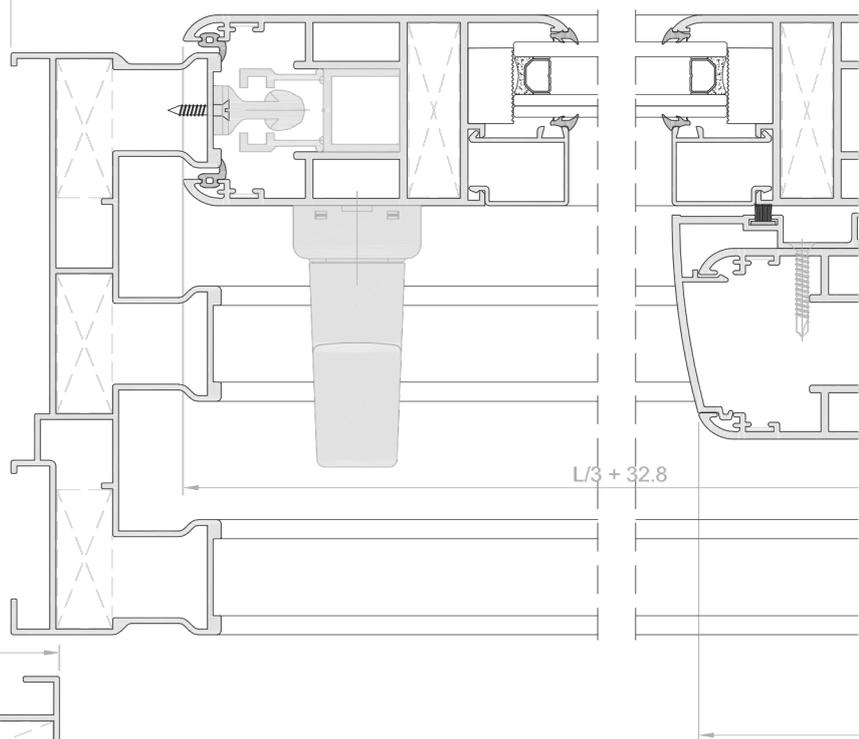
## HC03

4-panel sliding window



## HC04

3-leaf sliding window on 3 tracks



Aluminum profiles

