



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).

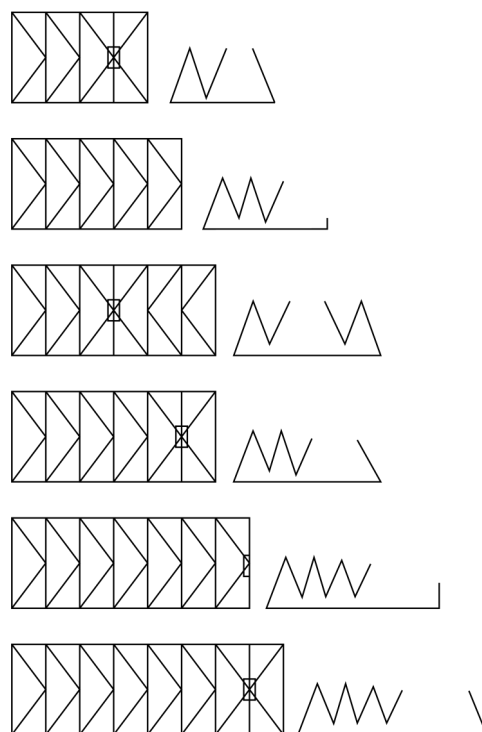
Monolithic

Laminate

Double

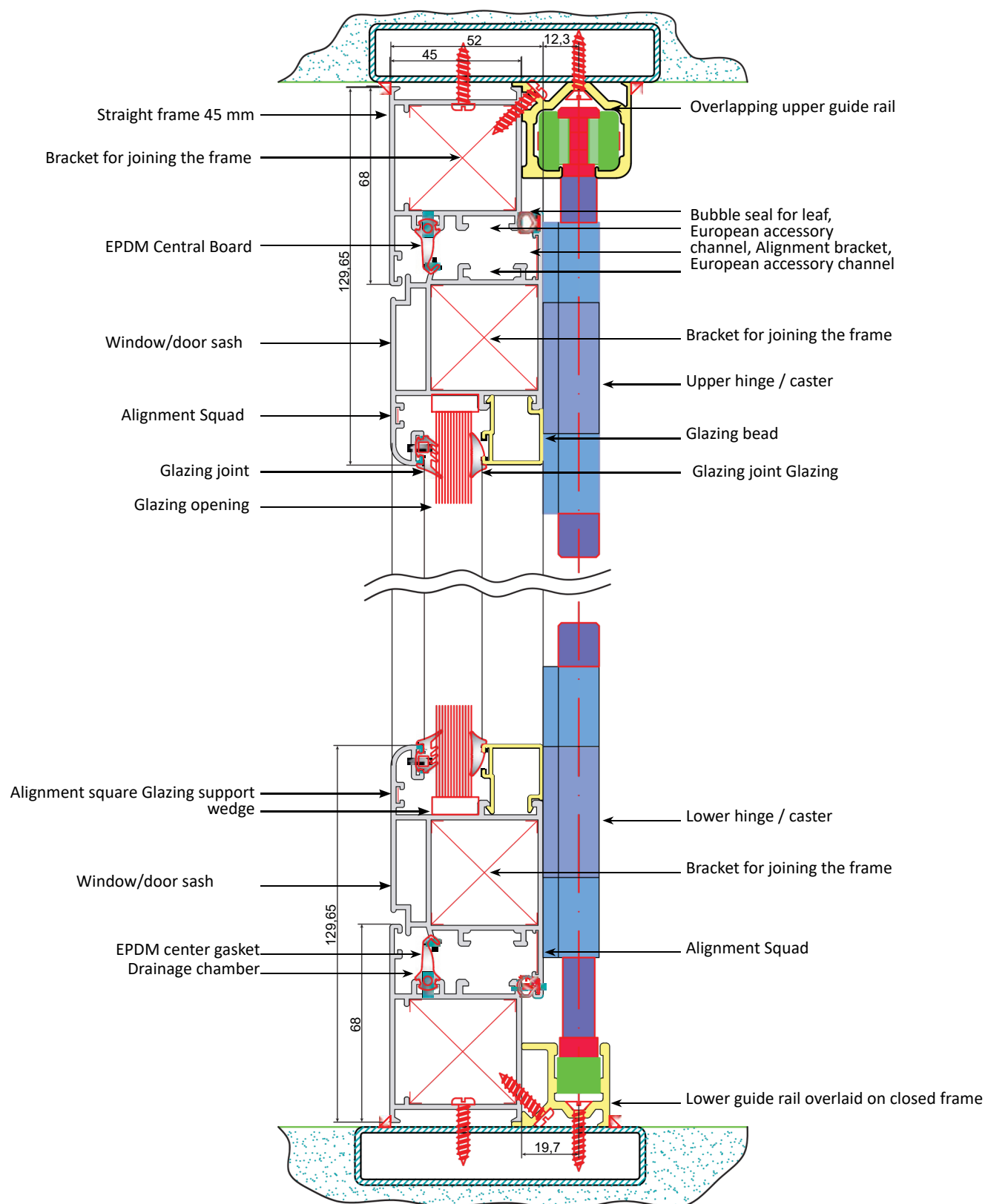


Possible mountings on 45 mm folding system



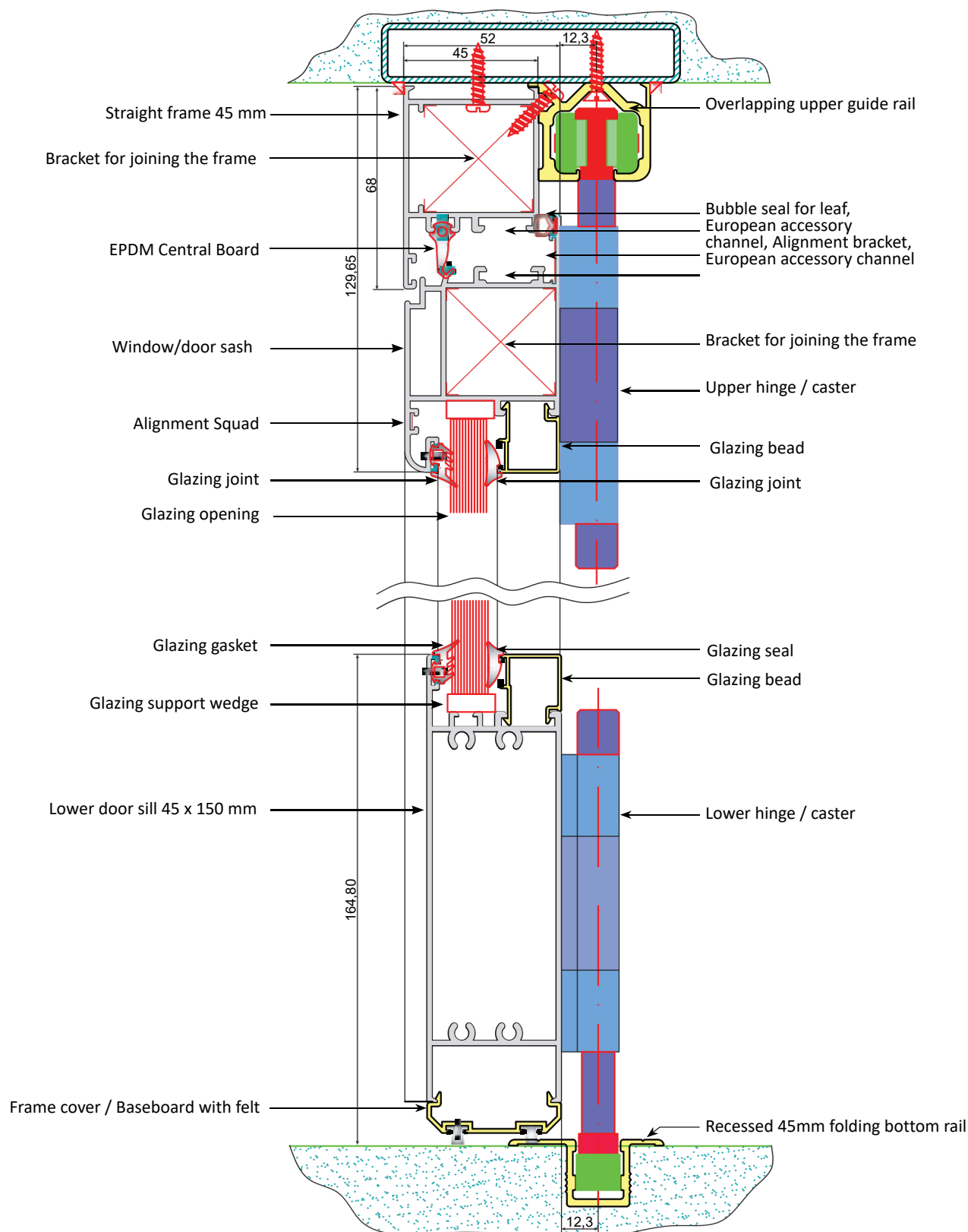
Technical specifications 45 mm Folding Series 45 mm folding system

closed frame



Technical specifications 45mm Folding Series 45mm folding system

open frame



Technical specifications Folding system 45mm



Technical data

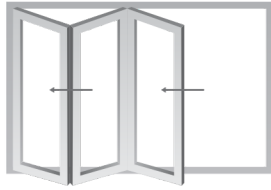
Section width	Frame width 45 mm / Leaf width 52 mm. Optionally available frame widths of 60, 70 and 105 mm.
Profile thickness	Thickness 1.4 – 1.6 mm.
Glazing opening Glazing	From 10 to 26 mm.
bead height	19 mm.
Glazing bead type	Straight clip, curved clip, and curved staple.
Use window construction	Multi-leaf operable, folding, hinged doors with outward opening option.
Profile alignment	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
Finishes	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.
Hardware	Diameter 20 mm.
Wheels	Made with high-quality needles.
Bearing	Possibility of anti-corrosive finish
Bearing shaft	6 mm diameter shaft made of AISI 303 stainless steel.
Wheel carrier	Extruded aluminum alloy 6063 T5. Standard silver anodized finish. Other colors available.
Regulatory axes	8mm stamped vertical transmission shaft made of AISI 303 stainless steel.
Adjustment screw	Vertical adjustment of 6mm using a stainless steel nut with automatic locking and no screws.
Adjustment spring	Upper and lower carriage. AISI 302 stainless steel. 03 integrated bodies made of aluminum alloy 6063 T5.
Hinge	Anti-friction injected plastic bushings, against AISI 430 stainless steel fixing plates and A2 screws.
Maximum dimensions and weights per sheet	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

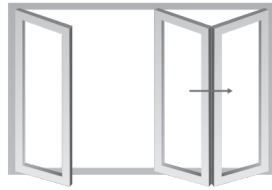
Opening types



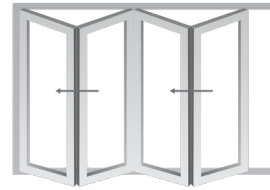
(2+0)



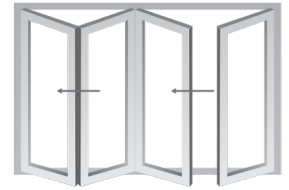
(3+0)



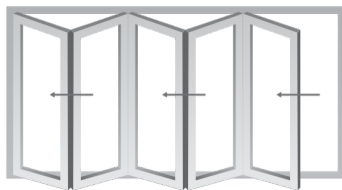
(1+2)



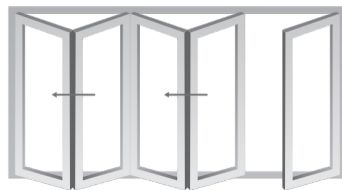
(4+0)



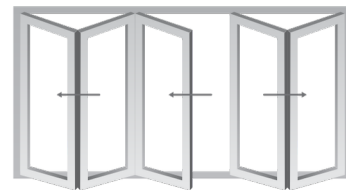
(3+1)



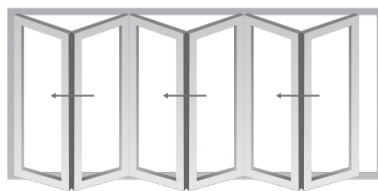
(5+0)



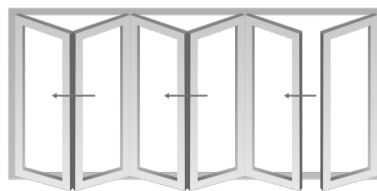
(4+1)



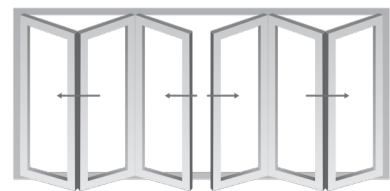
(3+2)



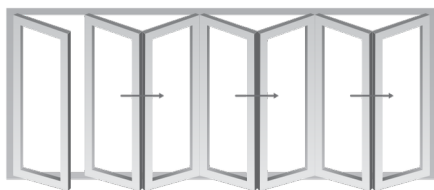
(6+0)



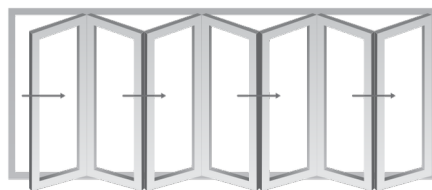
(5+1)



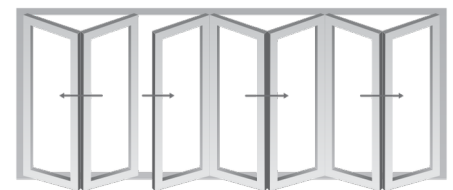
(3+3)



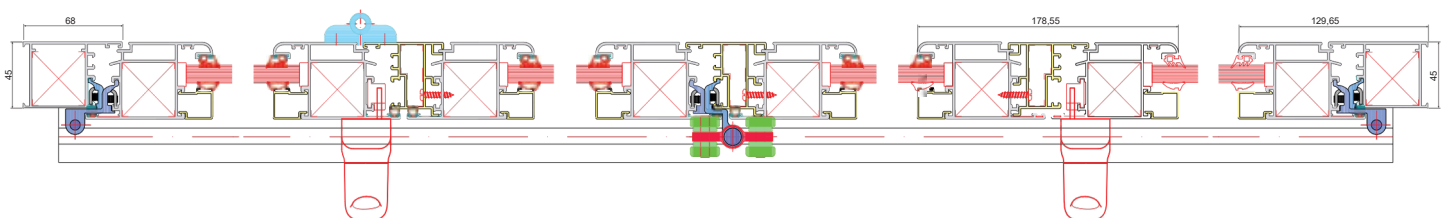
(1+6)



(0+7)



(2+5)



Technical specifications 45mm Folding Series



Maximum sheet width

750 mm

High standard of blade

2200 mm

Maximum sheet weights

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
	750 mm		2200 mm		(W>600 mm) 70 kg - (W>600<750 mm) 60 kg

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
4/8/4	3.1 W/m ² K	4.0 W/m ² K
4/12/6	2.90 W/m ² K	3.90 W/m ² K
4/12/6 be	1.70 W/m ² K	3.10 W/m ² 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

Características técnicas mecánicas

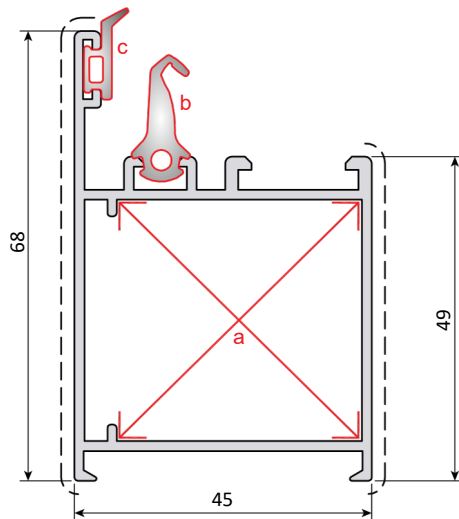
Behavior in response to external factors

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 roller shutter box and 4/12/4 glazing.

45mm folding series profiles

Door frame 45 mm



Door frame 45 mm

Code: U020		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:



Natural anodized



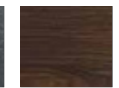
White Lacquer



Black Anodized



Anodized Bronze

Textured lacquer
Dark grey

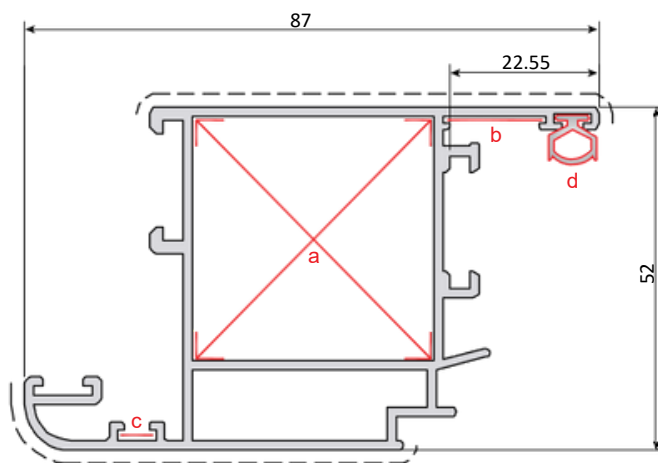
Wood lacquer

LENGTH 5.85 METERS

*Check availability of different finishes.



Hinged door leaf 52x87 mm



Hinged door leaf 52x87 mm

Code: U021		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:



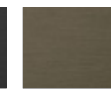
Natural anodized



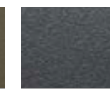
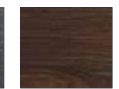
White Lacquer



Black Anodized



Anodized Bronze

Textured lacquer
Dark grey

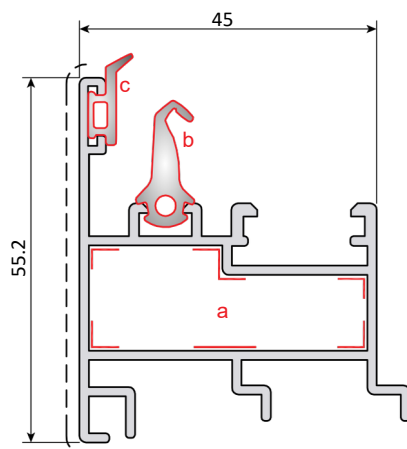
Wood lacquer

LENGTH 5.85 METERS

*Check availability of different finishes.



Leaf inverter



Leaf inverter

Code: U018		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:



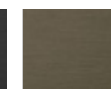
Natural anodized



White Lacquer



Black Anodized



Anodized Bronze

Textured lacquer
Dark grey

Wood lacquer

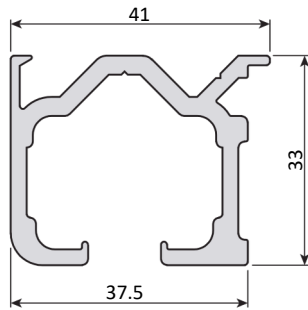
LENGTH 5.85 METERS

*Check availability of different finishes.



45mm folding series profiles

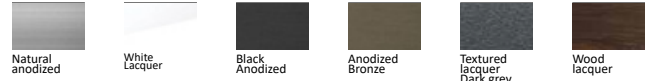
Top surface guide, 45 mm folding system



45° folding bottom guide for surface mounting

Code: U051	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	---

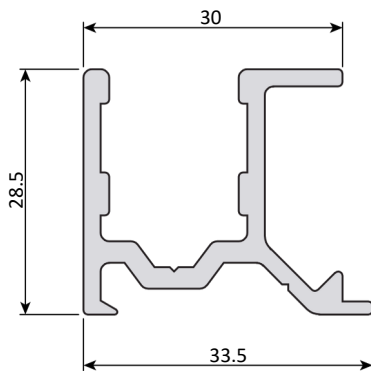
Available finishes:



LENGTH 5.85 METERS

*Check availability of different finishes.

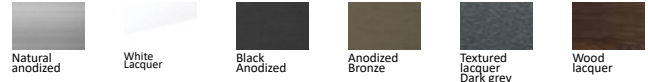
Bottom surface guide, 45 mm folding system



45° folding bottom guide for surface mounting

Code: U052	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	---

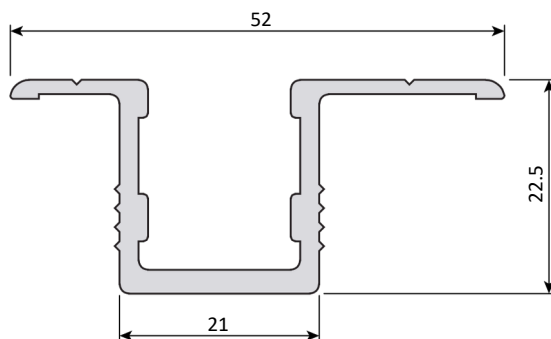
Available finishes:



LENGTH 5.85 METERS

*Check availability of different finishes.

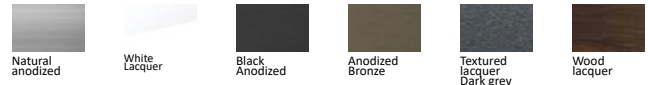
Bottom surface guide, 45 mm folding system



45° folding bottom guide for surface mounting

Code: U053	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	---

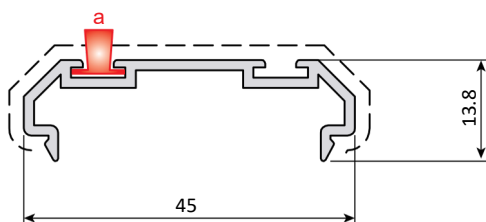
Available finishes:



LENGTH 5.85 METERS

*Check availability of different finishes.

Cover for 45 mm frame, with felt



Cover for 45 mm frame, with felt

Code: U028	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	---

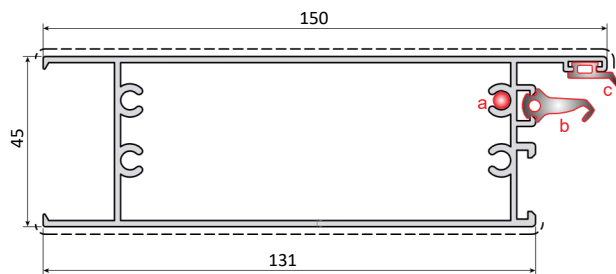
Available finishes:



LENGTH 5.85 METERS

45mm folding series profiles

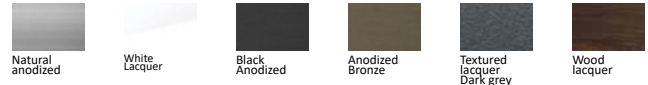
Lower door sill 45x150 mm



Lower door skirting board 45x150 mm

Code: U024		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	---

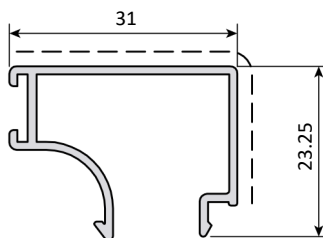
Available finishes:



LENGTH 5.85 METERS

*Check availability of different finishes.

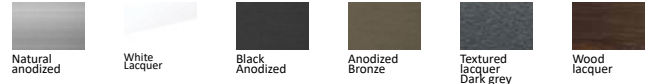
31 mm straight bead



31 mm straight bead

Code: U032		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	---

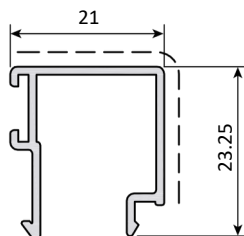
Available finishes:



LENGTH 5.85 METERS

*Check availability of different finishes.

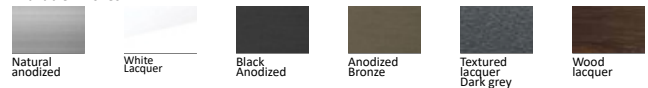
21 mm straight bead



21 mm straight bead

Code: U033		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	---

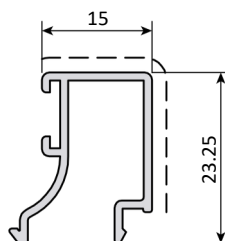
Available finishes:



LENGTH 5.85 METERS

*Check availability of different finishes.

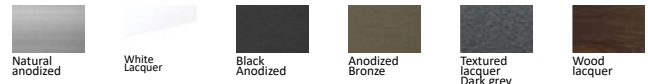
15 mm straight bead



15 mm straight bead

Code: U046		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.

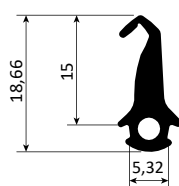
Hardware for 45mm Folding Series Profile System

EPDM rubber plans

EPDM center gasket



EPDM
HIGH QUALITY

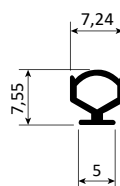


Code
UI001

Hinged bubble seal



EPDM
HIGH QUALITY

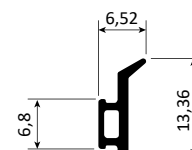


Code
UI002

EPDM clipped outer frame gasket



EPDM
HIGH QUALITY

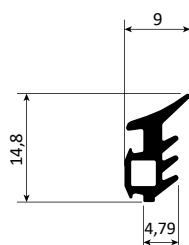


Code
UI003

4 mm EPDM exterior glazing gasket



EPDM
HIGH QUALITY

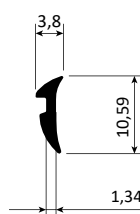


Code
UI004

2 mm EPDM glazing gasket



EPDM
HIGH QUALITY

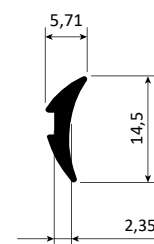


Code
UI005

3 mm EPDM glazing gasket



EPDM
HIGH QUALITY

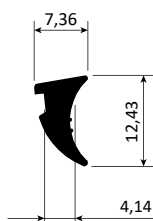


Code
UI006

4 mm EPDM glazing gasket



EPDM
HIGH QUALITY

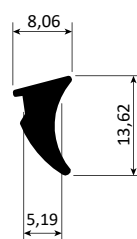


Code
UI007

5 mm EPDM glazing gasket



EPDM
HIGH QUALITY

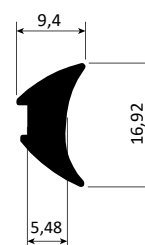


Code
UI008

6 mm EPDM glazing gasket



EPDM
HIGH QUALITY



Code
UI009

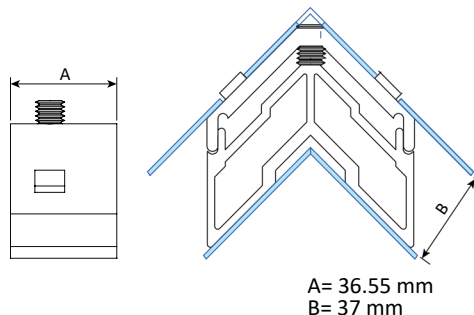
Hardware for 45mm Folding Series Profile System

Brackets - Bearings - Handles - Latches

37 x 36 mm fixed pin bracket



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.

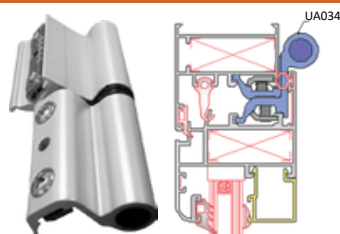
European channel window hinge



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.

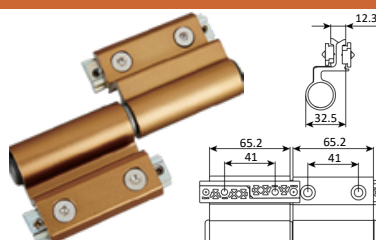
European channel door hinge



Available colors:

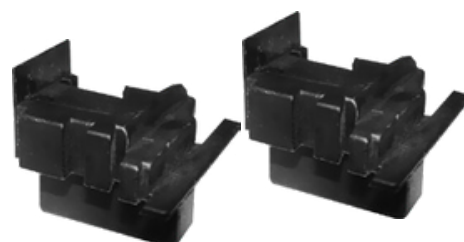


Code
UJ027



- 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.

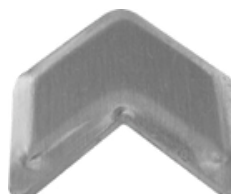
5.8 x 1.5 mm Alignment Square



Code
UA065

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

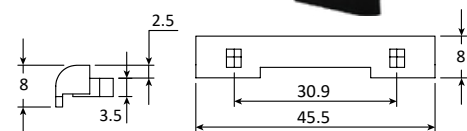
14.5 x 1.5 mm Alignment Square



Code
UA066

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

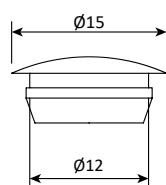
Fourth aguas



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)



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

- 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

Brackets - Bearings - Handles - Latches

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



Available colors:



Black



White



Silver

Code

UAP001

*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.



Available colors:



Black



White



Silver

Code

UAP002

*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.

upper hinge/roller and lower guide



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



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



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



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



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



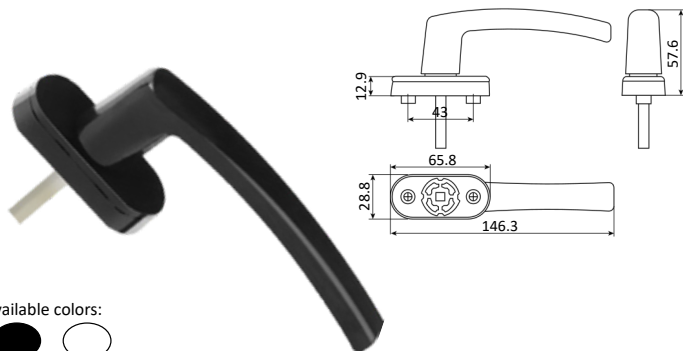
Code

UAP008

Hardware for 45mm Folding Series Profile System

Brackets - Bearings - Handles - Latches

Keyless multipoint operator handle (8x8 grid operator)



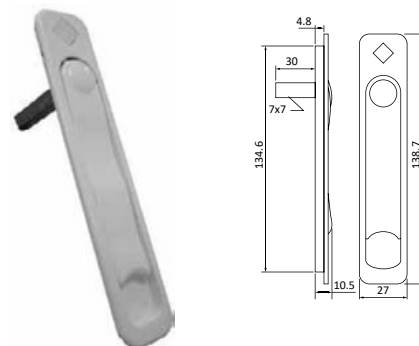
Available colors:



Code
UJ021

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

Multipoint recessed handle



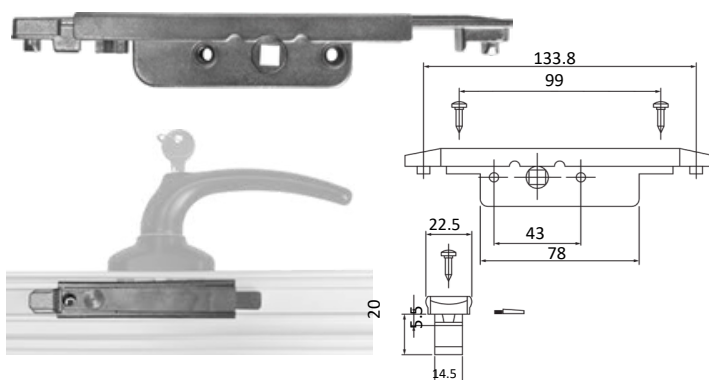
Available colors:



Code
UA078

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

Multipoint operating body

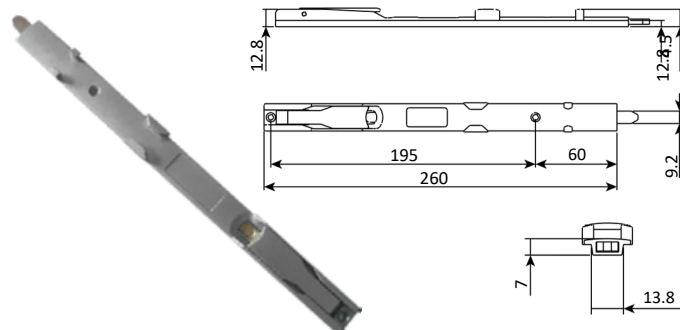


Code

UA084

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

Closing the second leaf of the door or window

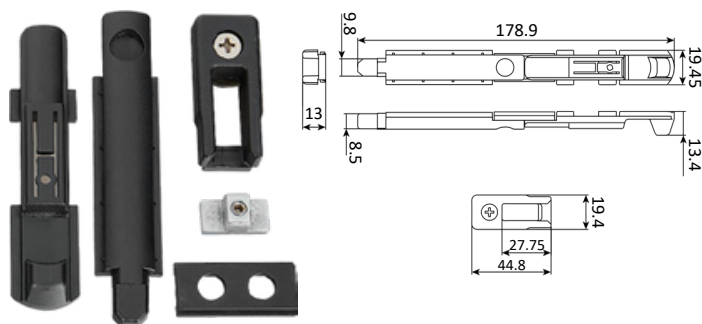


Code

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

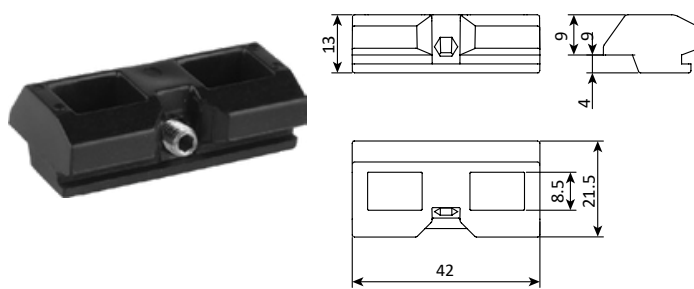


Code

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

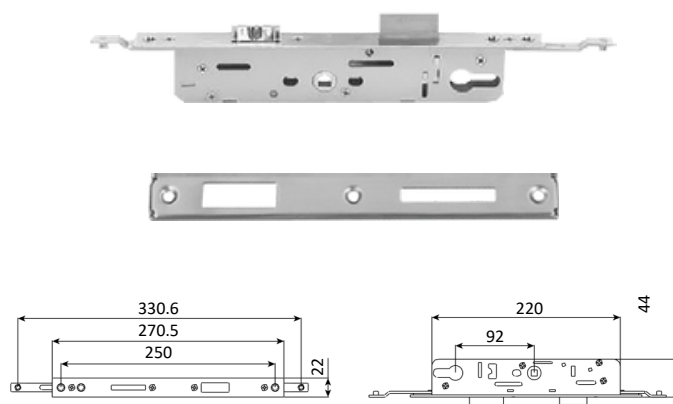
SECUREASY® Door Lock PLUS for aluminum door

Neo handle for aluminum door



Code
UJ015

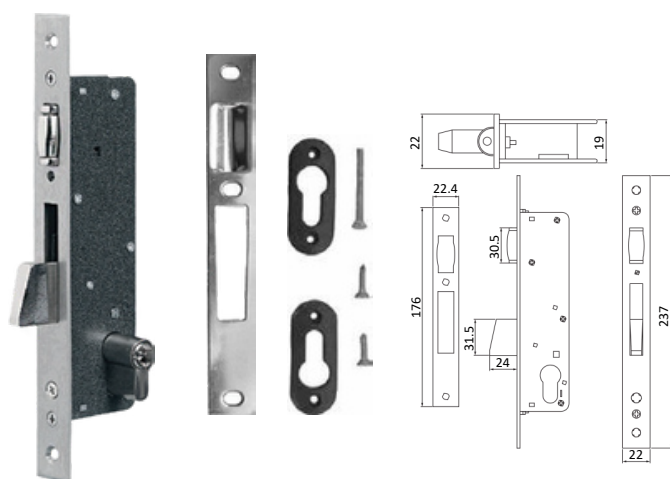
Aluminum door security lock body



LIFESPAN OF 80 MILLION CYCLES

Code
UJ029

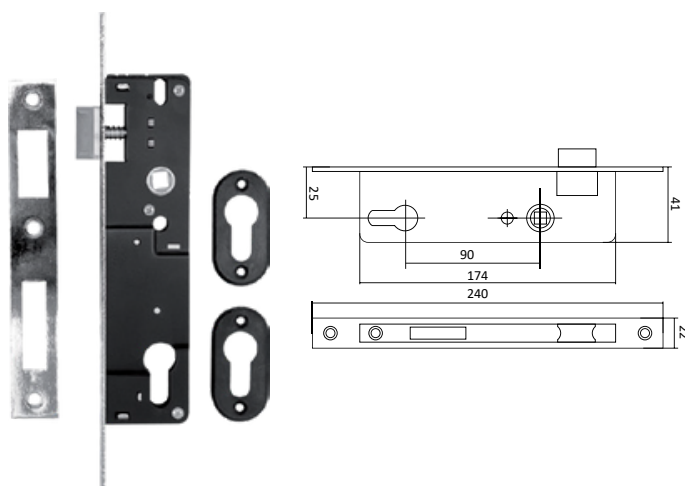
Roller and lever lock



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

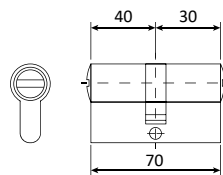
- Face plate finish: stainless steel
- Metal body lock with stainless steel pins and bolts.
- Includes satin stainless steel receiver for the lock
- Distance between cylinder and square is 92 mm and back set is 29 mm.

Code
78480

Hardware for 45mm Folding Series Profile System

SECUREASY® Door Lock PLUS for aluminum door

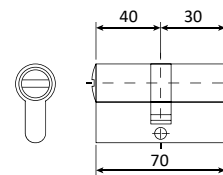
European cylinder for aluminum door



Code
UJ030

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

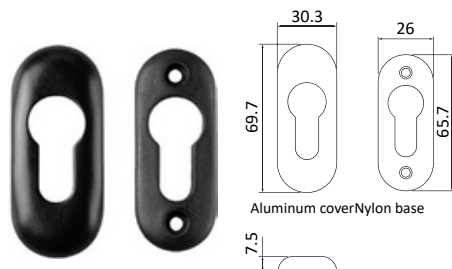
European cylinder for aluminum door with knob



Code
UA076

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

European cylinder trim



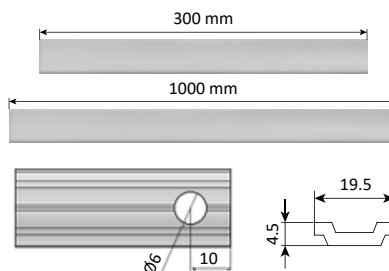
Code
UA082

Available colors:



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

Drive shaft

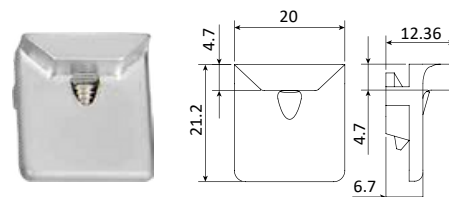


300 mm long
Code
UJ044

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.

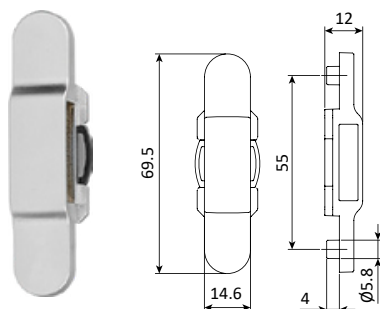
Locking bolt receiver



Code
UJ046

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

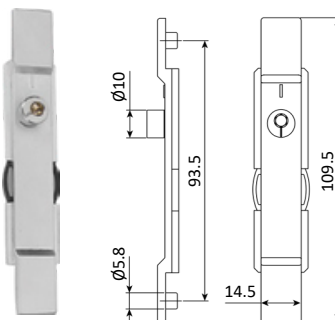
Intermediate connector - locking handle



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.

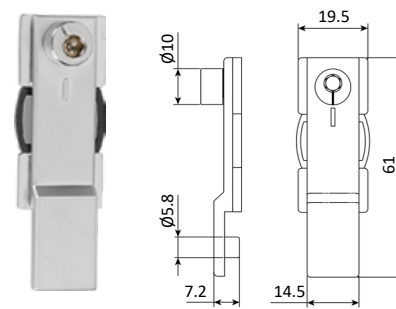
Intermediate connector - locking bolt



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

