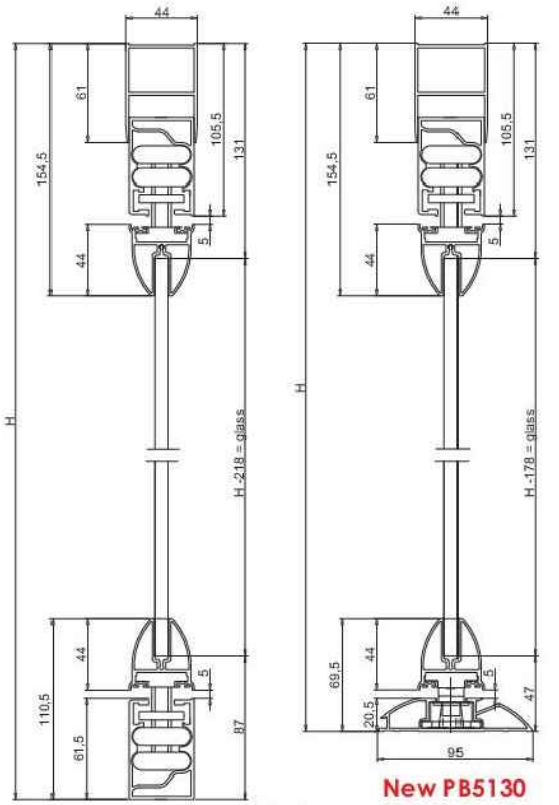
System Copal 4
Technical catalogue
for frameless balconies and terraces

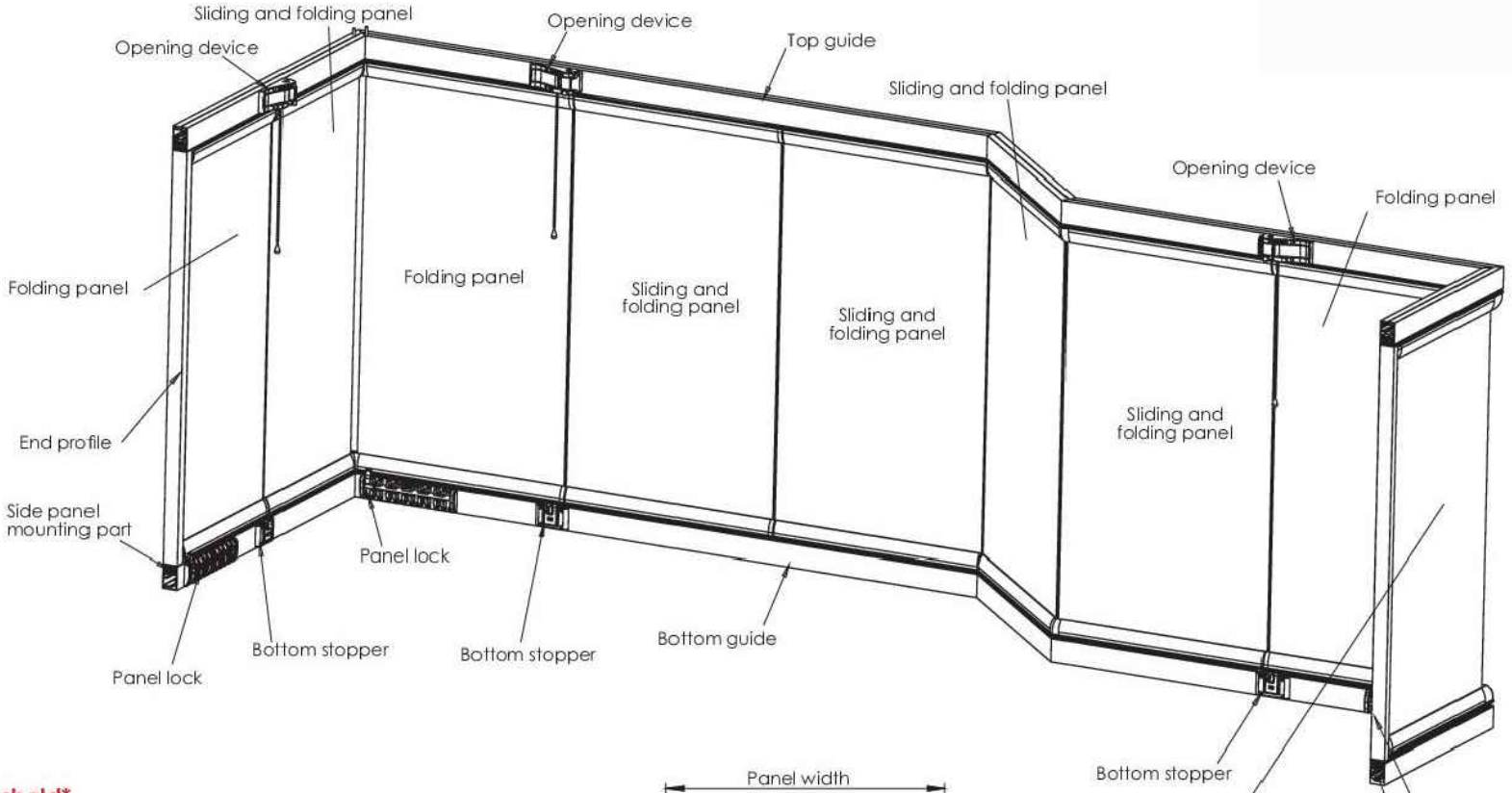
Content

ECOLOGY, SAFETY, QUALITY
AT ITS HIGHEST LEVEL
COPAL-BALCONY.COM



New PB5130

bottom guide without threshold*

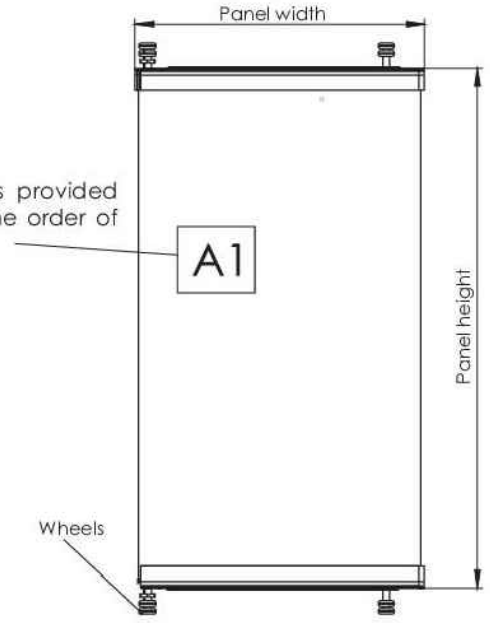


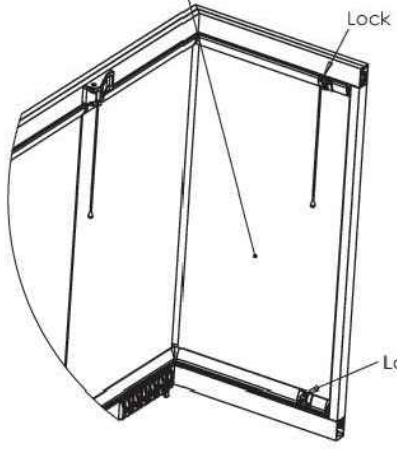
GENERAL INFORMATION

Max panel width: 700 mm

Max panel height:
for 10 mm: 2500 mm
for 8 mm: 2200 mm
for 6 mm: 1800 mm

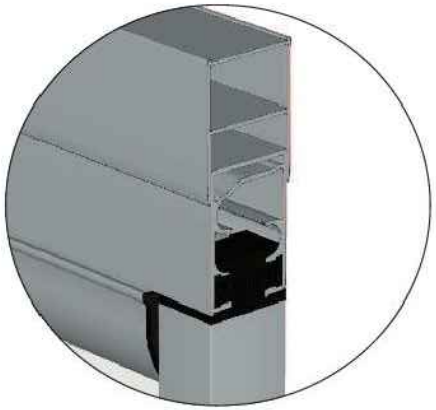
Every panel delivered is provided with a sticker marking the order of installation.



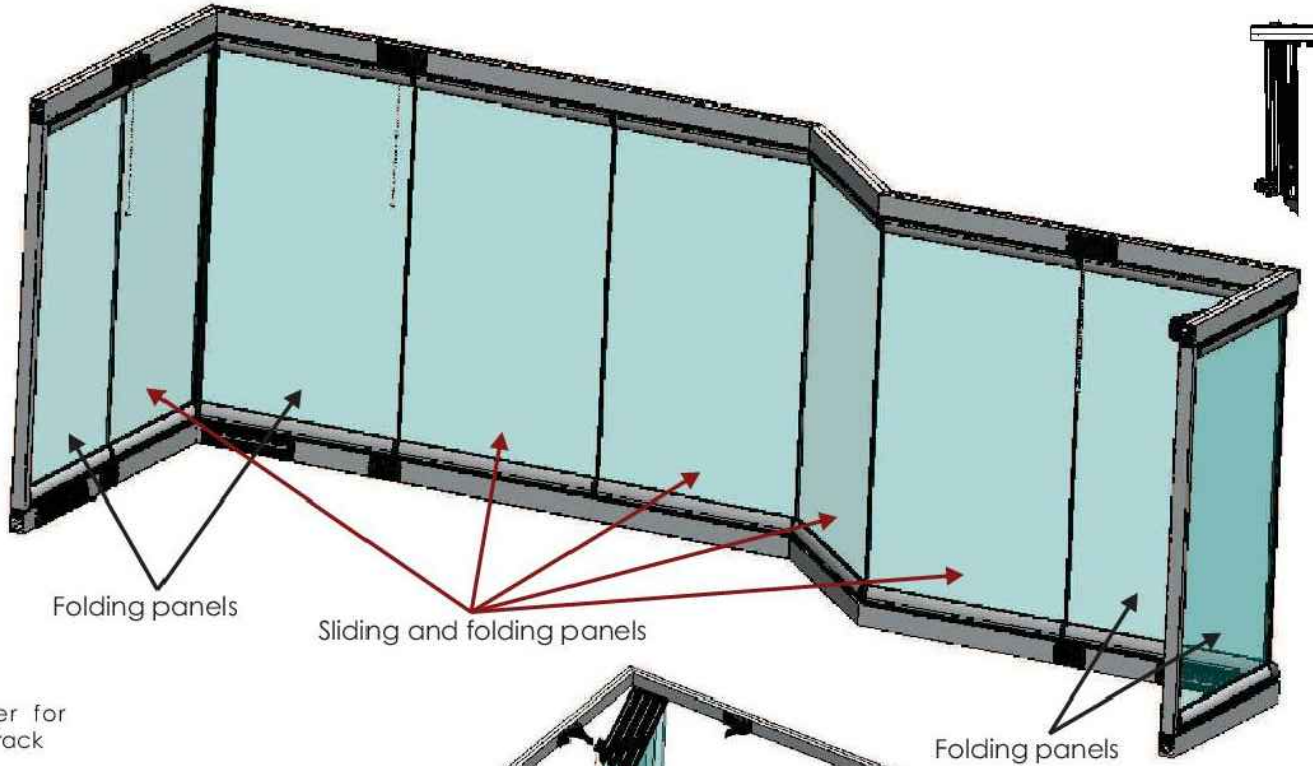


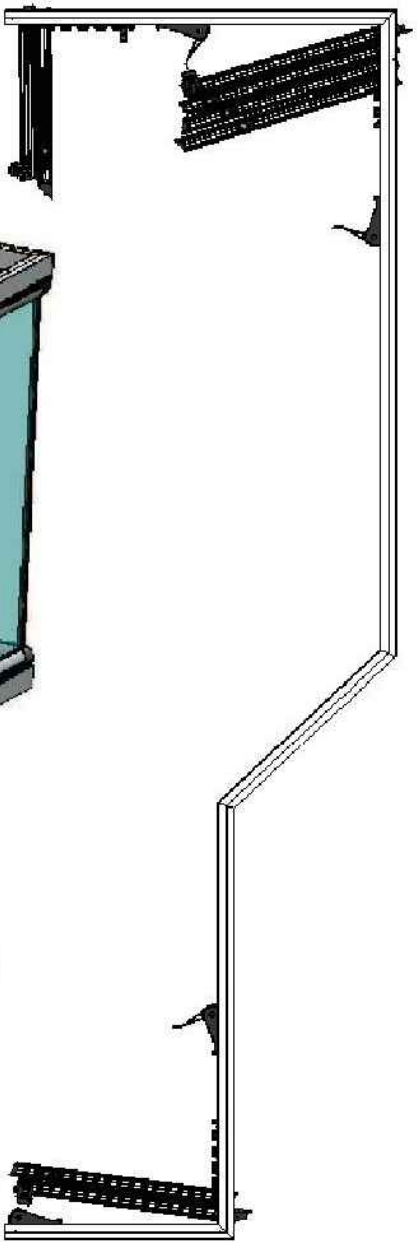
The width and height of the panels as well as the glass thickness must be carefully selected to meet the anticipated wind load, according to the project guidelines and local regulations.

***IMPORTANT - When corner frameless enclosure Copal 4 with low bottom rail PB5130 is considered, panels can not pass through corner.**
In this case all straight parts of enclosure shall be openable independently.

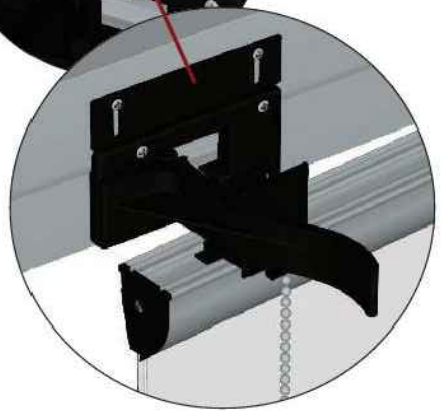


Height compensation profile, adjustable up to 20 mm (+/- 10mm)



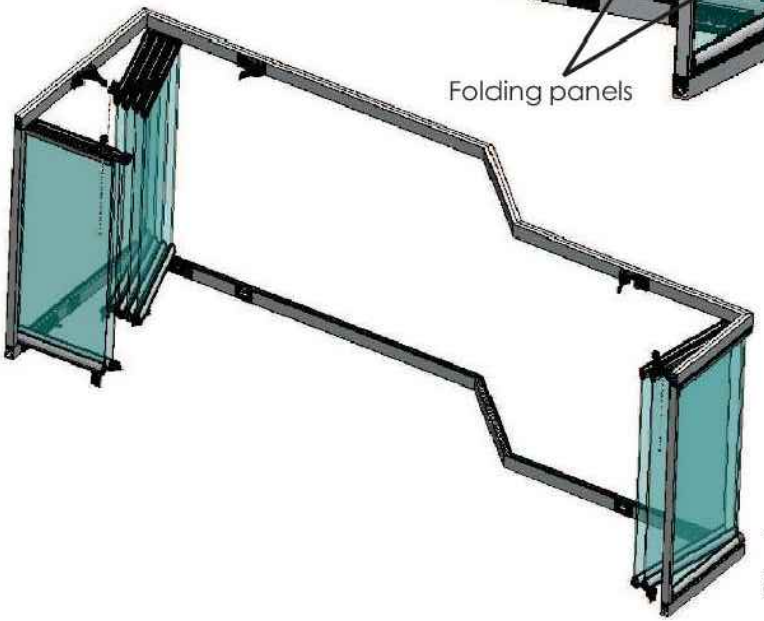


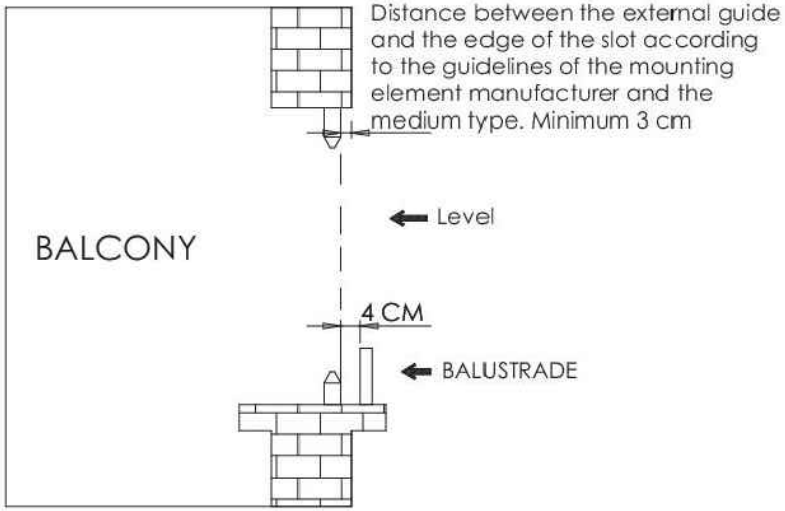
Aluminium cover for telescopic guide track



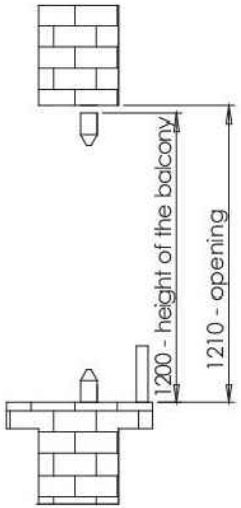
Locking for the first wing - folding panel

Aluminium lock for open panels

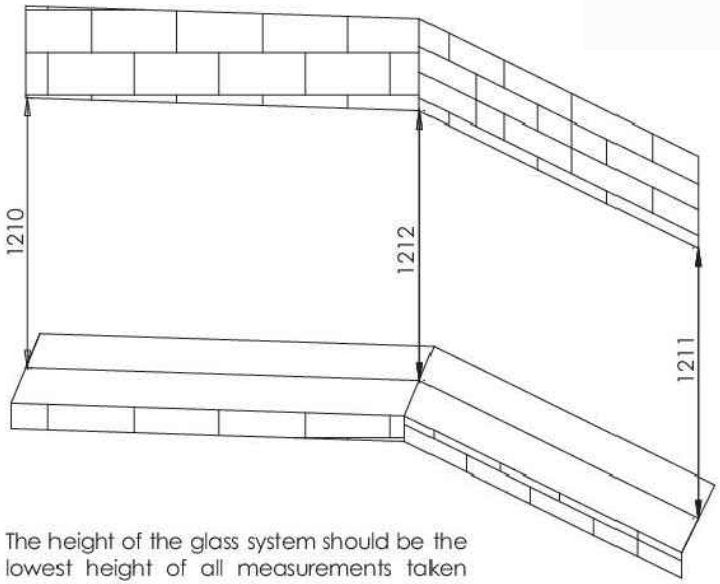




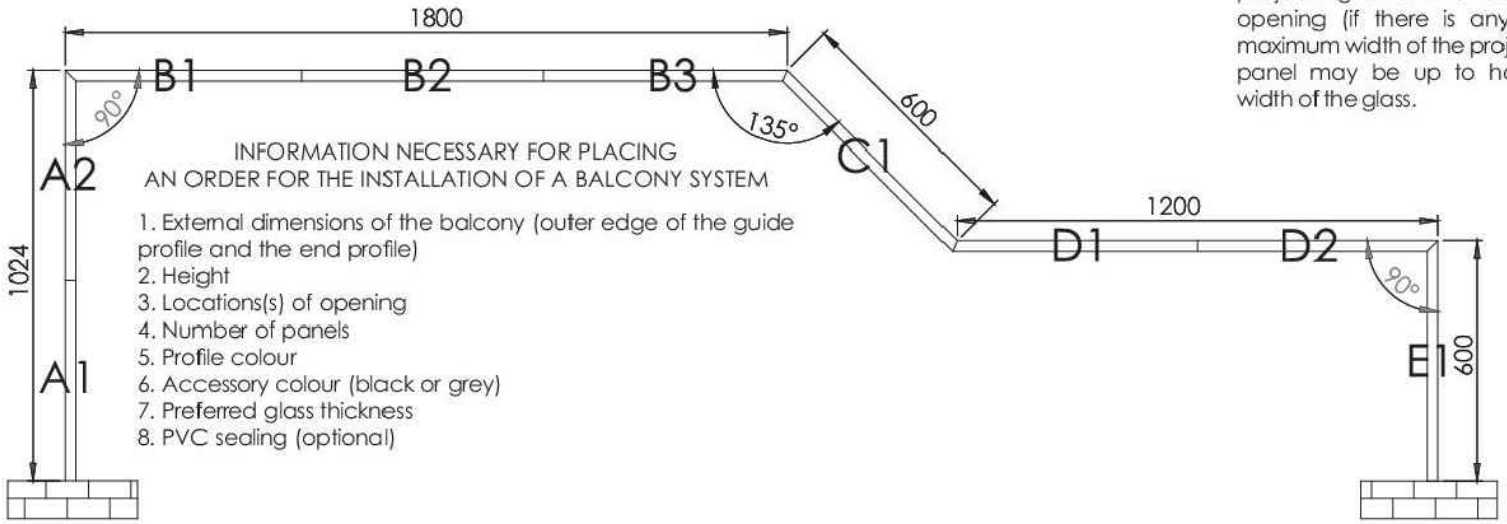
1. Measurements should be taken at least at 3 cm from the outer edge of the balcony surface plate and 4 cm from the balustrade projecting over the balcony opening (if there is any)



A minimum clearance of 10 mm must be included for a guide without a telescopic profile. For a telescopic profile, the minimum clearance must be 5 mm.



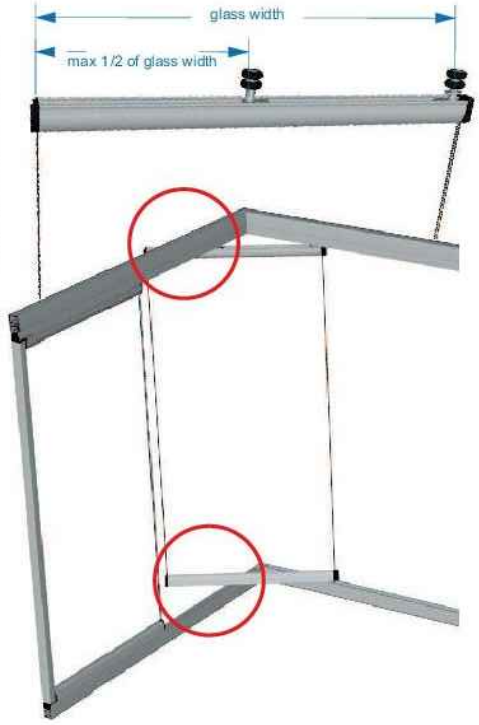
The height of the glass system should be the lowest height of all measurements taken



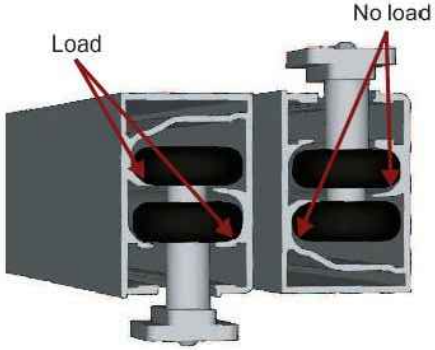
INFORMATION NECESSARY FOR PLACING
AN ORDER FOR THE INSTALLATION OF A BALCONY SYSTEM

1. External dimensions of the balcony (outer edge of the guide profile and the end profile)
2. Height
3. Locations(s) of opening
4. Number of panels
5. Profile colour
6. Accessory colour (black or grey)
7. Preferred glass thickness
8. PVC sealing (optional)

If there are any corners in the balcony system planned, it is vital to maintain an appropriate distance between the balcony system and the balustrade projecting over the balcony opening (if there is any). The maximum width of the projecting panel may be up to half the width of the glass.



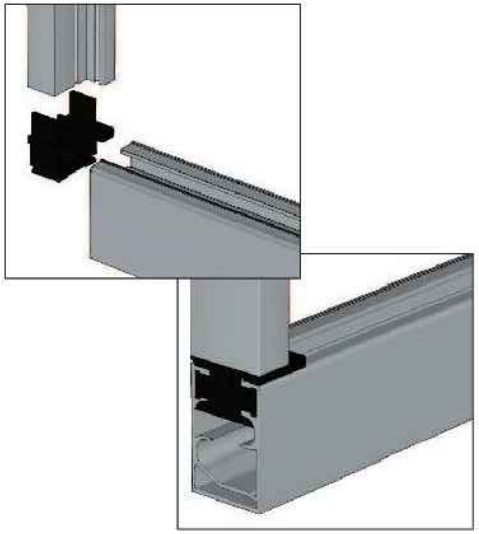
1. TOP GUIDE CARRIES THE LOAD OF THE PANEL ON THE WHEEL ELEMENTS



2. TOP GUIDE IS MOUNTED TO THE CEILING THROUGH PREFABRICATED SLOTS BY MEANS OF APPROPRIATE SCREWS AND PINS.

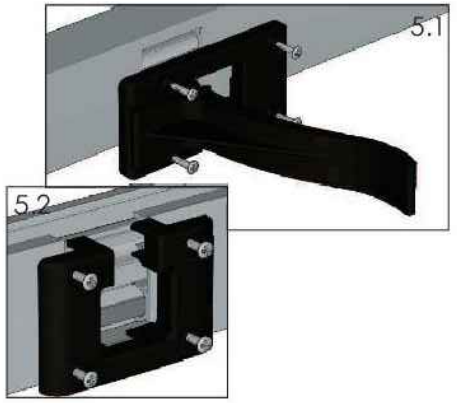
3. BOTTOM GUIDE IS LOCATED ON THE BALUSTRADE OR A SMALL WALL, AND THE FIRST END PROFILE IS THEN INSTALLED

4. BOTTOM GUIDE IS SCREWED ONTO THE MEDIUM, AND THE SECOND END PROFILE IS THEN INSTALLED

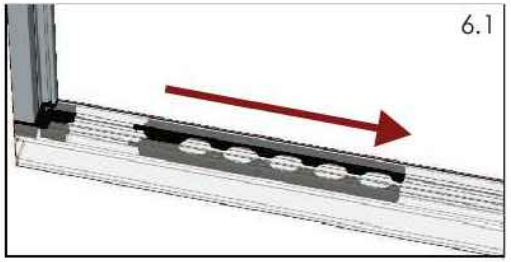


GUIDES CAN BE CONNECTED TO EACH OTHER BY MEANS OF A COVER CLIP OR AN ELBOW THE CONNECTOR IS SCREWED ONTO BOTH GUIDES

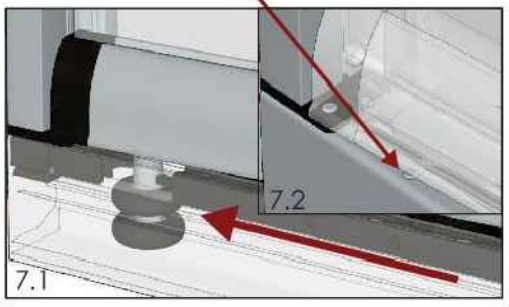
5. PANELS ARE MOUNTED THROUGH SLOTS IN THE TOP AND BOTTOM GUIDE, AT THE END OF WHICH A TOP (Fig 5.1) AND BOTTOM STOPPER IS MOUNTED (Fig. 5.2)



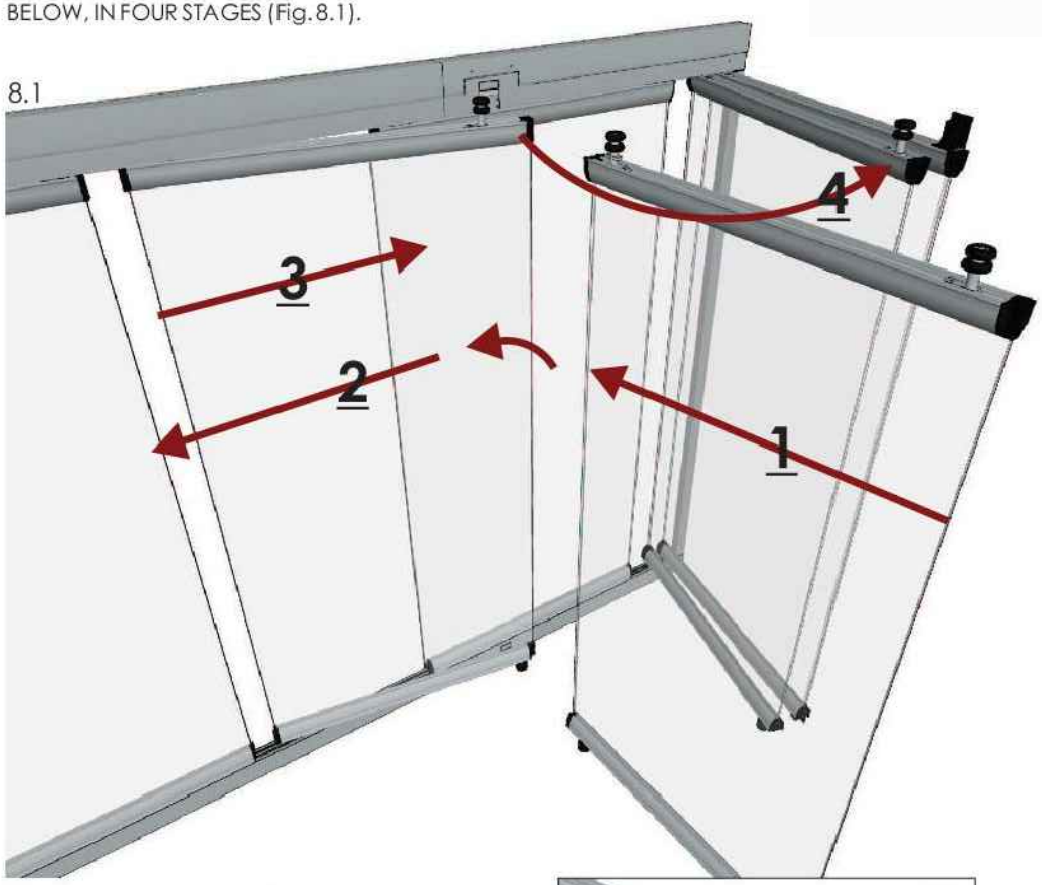
6. TOP AND BOTTOM LOCKS ARE MOVED TO THE OTHER SIDE OF THE SLOT (Fig. 6.1)

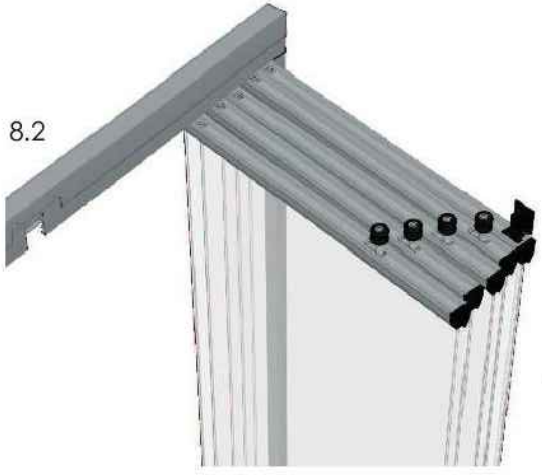


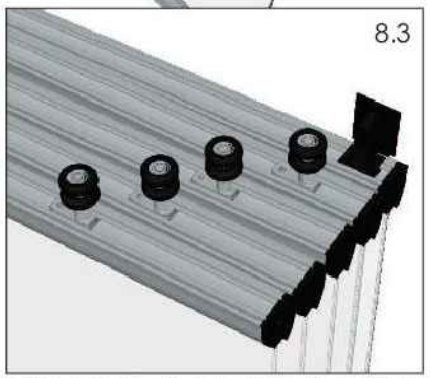
7. A FOLDING PANEL IS MOUNTED (PANEL MARKED WITH NUMBER 1, ADJUSTED WITH AN ALLEN KEY SO THAT THE PANEL CAN BE EASILY OPENED) (Fig. 10.1 / 10.2). THE LOCKS ARE MOVED BACK (Fig. 7.1) AND LOCKED WITH A BOLT IN THE DESIGNATED SLOT (Fig. 7.2)



8. PANELS ARE INSERTED (FOLDING AND SLIDING), STARTING FROM PANEL NO. 2. THE PROCESS OF INSERTING PANELS IS SHOWN IN THE FIGURE BELOW, IN FOUR STAGES (Fig. 8.1).

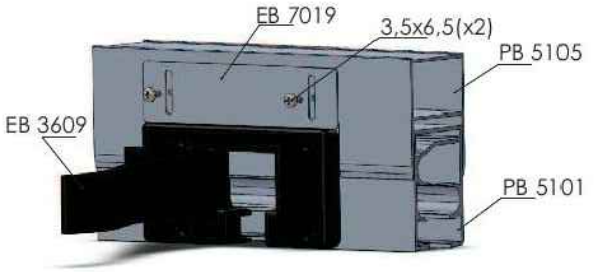




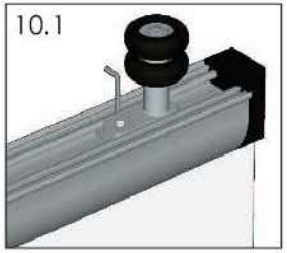


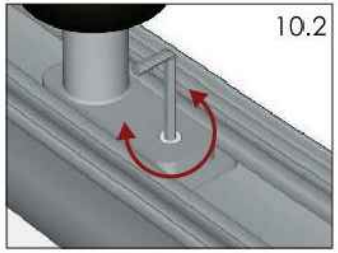
AFTER INSERTING THE PANELS, THEY MUST BE LEFT OPEN (Fig. 8.2). IF THE WHEELS ARE POSITIONED AS SHOWN IN FIGURE 8.3, THE ORDER OF THE PANELS IS CORRECT

9. TOP AND BOTTOM GUIDE STOPPERS ARE RE-INSTALLED (Fig. 5.1 and 5.2)
NOTE:
IF A TELESCOPIC GUIDE IS INSTALLED, THE COVER MUST BE MOUNTED AFTER THE INSTALLATION AND THE ADJUSTMENT OF THE GUIDE.
THE SLOT FOR THE 3.5X6.5 SCREW IS DRILLED WITH A 2.8 MM

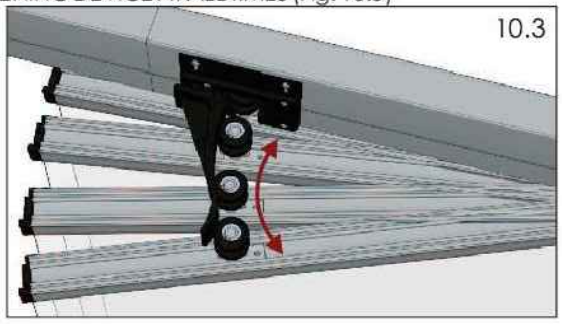


10. PANELS ARE TO BE ADJUSTED FROM THE FIRST TO THE LAST ONE. ADJUSTMENTS ARE MADE WITH SOCKET CAP SCREWS ON THE ROLLS (Fig. 10.1.1 and 10.2)



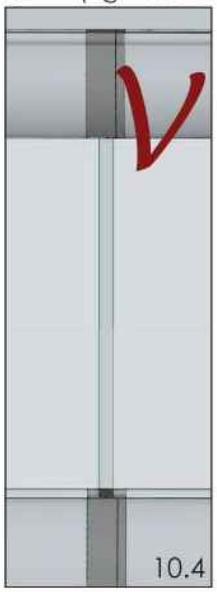


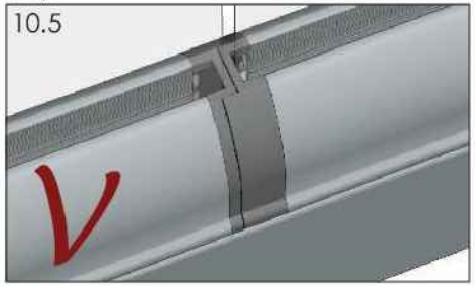
NOTE:
WHEN OPENING / CLOSING THE BARRIERS, THE WHEELS MUST ADJUSTED APPROPRIATELY, SO THAT THEY TOUCH THE OPENING DEVICE AT ALL TIMES (Fig. 10.3)

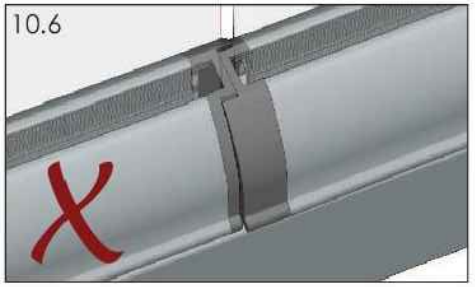


NOTE:
WHEELS ARE ADJUSTED STARTING FROM PANEL NO. 1. NEXT, THE SPACE BETWEEN PANELS IS ADJUSTED, STARTING FROM THE LAST PANEL.

DISTANCE BETWEEN THE EDGE OF THE GLASS SHOULD BE APPROXIMATELY 4 MM OVER THE ENTIRE LENGTH OF THE PANEL (fig 10.4). PANEL SLOT COVERS MUST BE COMPATIBLE WITH EACH OTHER (Fig. 10.5 and 10.6)

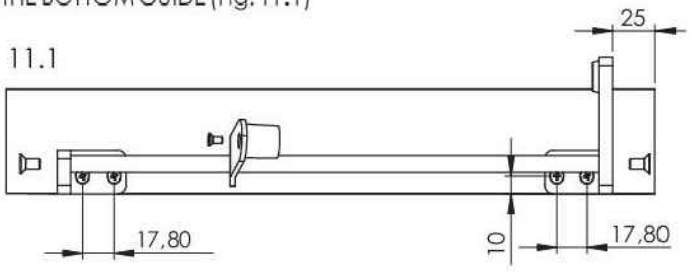




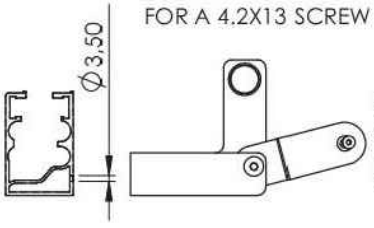


NOTE: THE CORRECT TYPE OF INSTALLATION MUST BE SELECTED DEPENDING ON THE LOCK TYPE.

E4050 ALUMINIUM LOCK
11. FOR INSTALLATION OF THE LOCK, SLOTS MUST BE DRILLED IN THE BOTTOM GUIDE (Fig. 11.1)

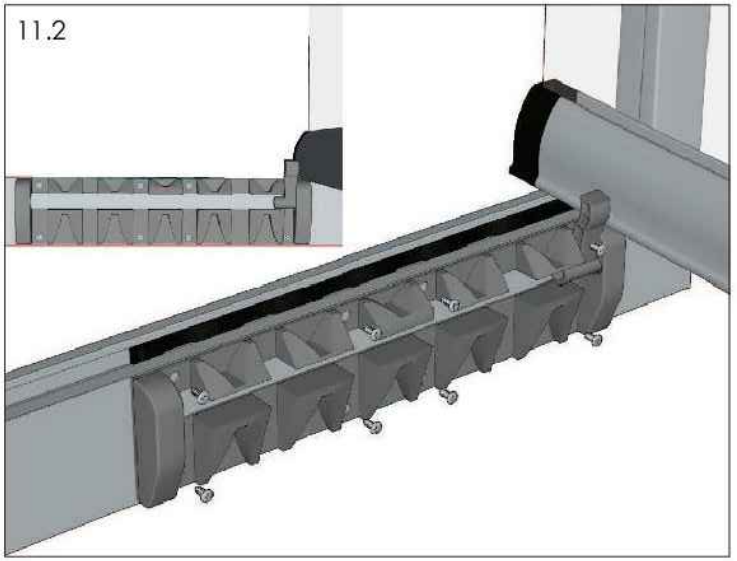


Ø 3.5 SLOT DRILLED IN THE GUIDE
FOR A 4.2X13 SCREW



DEPENDING ON THE LENGTH OF THE GUIDE ROD, THE DISTANCE BETWEEN THE HANDLES MAY DIFFER.

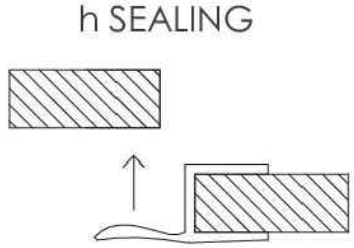
PLASTIC LOCK EB 4110
11. PLASTIC LOCK FOR THE LOCK INSTALLATION. THE FIRST PANEL MUST BE OPEN. THERE SHOULD BE NO SPACE BETWEEN THE FIRST PANEL AND THE BOLT (Fig. 11.2). THE LOCKING MECHANISM MUST BE FULLY COMPATIBLE WITH THE TOP EDGE OF THE GUIDE



12. THE STRUCTURE IS SEALED BY MEANS OF SILICON.

IT IS POSSIBLE TO INSTALL TRANSPARENT PVC GLASS SEALING

THE SEALING MUST BE REMOVED DURING THE SUMMER



EB3621L
BASE INTERMEDIATE COVER LEFT 6 MM

EB3621P
BASE INTERMEDIATE COVER RIGHT 6 MM

EB3601
BASE INTERMEDIATE COVER LEFT 8 MM

EB3602
BASE INTERMEDIATE COVER RIGHT 8 MM

EB3615
BASE INTERMEDIATE COVER LEFT 10 MM

EB3616
BASE INTERMEDIATE COVER RIGHT 10 MM

EB3620L
SIDE COLUMN COVER - LEFT 6 MM

EB3620P
SIDE COLUMN COVER - RIGHT 6 MM

EB3603
SIDE COLUMN COVER - LEFT 8;10 MM

EB3604
SIDE COLUMN COVER - RIGHT 8;10 MM

EB3605
BASE ANGLE COVER FOR 8 AND 10 MM GLASS

EB3605/6mm
BASE ANGLE COVER FOR 6 MM GLASS

EB3606
BASE ANGLE COVER 135° FOR 8 AND 10 MM GLASS

EB3606/6mm
BASE ANGLE COVER 135° FOR 6 MM GLASS

EB4105
CLOSING DEVIDE FOR FIRST PANEL

EB3608
PLASTIC BOTTOM OUTLET

EB3609
PLASTIC UPPER OUTLET - LEFT

EB3610
PLASTIC UPPER OUTLET - RIGHT

EB4120
HINGE LOCK

EB4108
FIXED HINGE LOCK

EB4111
SIDE COLUMN EQUIPMENT

EB4109
LOCKING CUBE FOR LAST PANEL

EB7019
GUIDE BAR COVER PB5105

EB7021
GUIDE BAR SIDE COVER

EB7022
COVER FOR U PROFILE

EB7101
ANGLE CONNECTOR

EB2101/PLASTIK
PLASTIC LOCKING WHEEL

EB2102/PLASTIK
PLASTIC PLAIN WHEEL

EB2105
METAL LOCKING WHEEL

EB2106
METAL PLAIN WHEEL

EB2101/PLASTIK/INOX
PLASTIC LOCKING WHEEL WITH STAIN-LESS BEARING

EB2105/ALU/INOX
METAL LOCKING WHEEL WITH STAIN-LESS BEARING

EB2102/PLASTIK/INOX
PLASTIC PLAIN WHHEL WITH STAIN-LESS BEARING

EB2106/ALU/INOX
METAL PLAIN WHEEL WITH STAINLESS BEARING

E4050P/4P
ALUMINIUM PANEL LOCKING DEVICE

E4050L/4P
ALUMINIUM PANEL LOCKING DEVICE

E4050P/6P
ALUMINIUM PANEL LOCKING DEVICE

E4050L/6P
ALUMINIUM PANEL LOCKING DEVICE

E4050P/9P
ALUMINIUM PANEL LOCKING DEVICE

E4050L/9P
ALUMINIUM PANEL LOCKING DEVICE

EB4110
PLASTIC PANEL LOCKING DEVIDE - RIGHT

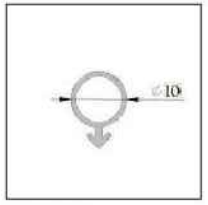
EB4110
PLASTIC PANEL LOCKING DEVIDE - LEFT

AH1-S
ONE SIDE HANDLE

AH2-S
DOUBLE SIDE HANDLE

10-8046
CABLE 2MM A4

EB4036
CABLE LOCK



EB1101
GASKET FOR SIDE COLUMN PROFILE

EB1102
BRUSH GASKET

EB1103
PVC GASKET (h) FOR 8 MM GLASS

EB1109
PVC GASKET (h) DO 10 MM

EB1104
PVC GASKET (H) DO 8 MM

EB1110
PVC GASKET (H) DO 10 MM

EB1111
PVC GASKET (h) FOR 6 MM GLASS

EB4202
SHEET METAL SCREW 3,9X13 WS 9477 (EB3608, EB3609)

EB4203
SHEET METAL SCREW 3,9X22 WS 9478 (BASE INTERMEDIATE COVER)

EB4204
SHEET METAL SCREW 3,9X32 WS 9478 (EB3603, EB3604)

EB4205
SHEET METAL SCREW 3,9X45 WS 9478 (COVER FOR GLASS 90)

EB4206
SCREW M8 x 35 DIN 912 (REGULATION MODULE)

EB4207
SHEET METAL SCREW 3,5X16 (FOR EB4109, EB103/EB104 AND EB4111)

EB4208
SHEET METAL SCREW 3,5X6,5 WS9477 (FOR EB7019, EB4110)

EB4037
CABLE LOCK BOLT M3x6mm

EB4035
M8 SLEEVE (REGULATION MODULE)

E9003
GLAZING GLUE 290 ML.

E9002
DEGREASER