SABCO®
SADEV BALUSTRADE CONCEPT

ASSEMBLY GUIDE

DOUBLE SIDE WEDGE



ASSEMBLY GUIDE VIDEO

ORDER CONFORMITY

We advise you to read this manual completely and carefully before working on the equipment.

Using the delivery note, check the conformity of the delivery before any other intervention.

ACTIVATE YOUR PRODUCT WARRANTY

Register directly on our website
www.sadev.com/maintenance-and-warranty

SADEV
76 Chemin des Poses I 74330 POISY I FRANCE I
Tél. : +33 (0)4 50 08 39 00 I info@sadev.com I **www.sadev.com**

Product description

Composition of a box



Intermediate wedge + low wedge
10 copies



Screw
20 copies



High wedge
20 copies



Wedge
10 copies

NEW : Our wedges are now black, the number inside each wedge corresponds to a thickness of glass.

Colors of the old wedges	Number on the black wedges	Reference	Glass composition	Glazing thickness [min.; max.]
BLUE	6	0070KIT10CALE12	12-6.6	11.7 > 13.3
GREY	5	0070KIT10CALE15	15	14.5 > 15.5
WHITE	4	0070KIT10CALE0808	8.8	16.2 > 18.2
RED	3	0070KIT10CALE19	19	18.0 > 20.3
GREEN	2	0070KIT10CALE1010	10.10	20.4 > 22.2
YELLOW	1	0070KIT10CALE1212	12.12	24.2 > 25.9

IMPORTANT

Control that the glass thickness is compatible with the wedges before installing it in the rail.

GUIDLINES

The balustrade assembly must comply with these assembly instructions, as well as with the usual safety and usage precautions.

Any modification or degradation of SADEV's products disengage the responsibility of our company.

TECHNICAL ADVICE

Available on sadev.com

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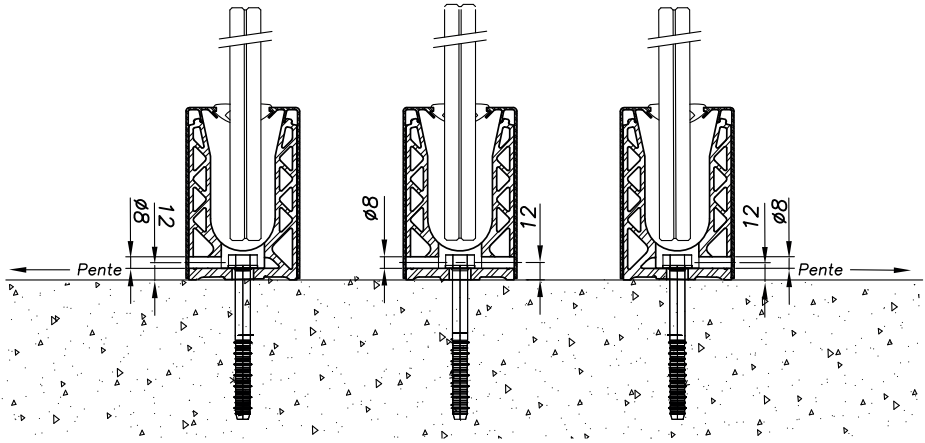
Tools required for assembly

- **DRILLER**
- **DRILL BITS ADAPTED TO THE STRUCTURE AND FASTENING COMPONENTS**
  15mm drilled profile
- **TIGHTENING TOOL AND TORQUE CONTROL** according to the type of dowel used
- **DYNAMOMETRIC SCREWDRIVER PACK + TORX BIT**
  Ref: 007-TRVS-2 NM - Tightening torque: 2 Nm
- **SADEV CORDLESS SCREWDRIVER**
- **LEVELING SHIMS** (different references according to the profile)
- **LEVEL TOOL**
- **CLEANING SET** - Ref.: 7OUT-KITNET

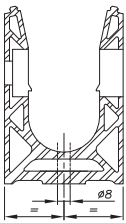
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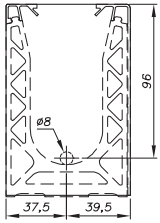
HOW TO MADE A WATER DRAINAGE

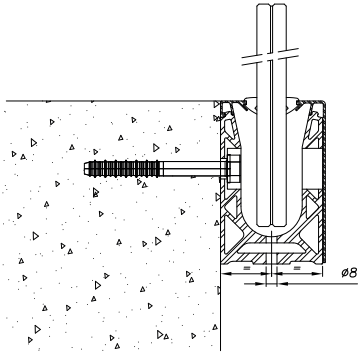
Water drainage in the SABCO guadrail is carried out by drilling the alluminium rail and/or the finishing plugs according to the technical drawings below.
As the rail must be laid straight (without deformation), the water drains off naturally on both sides of it. Depending on the situation, Ø 8mm holes can be drilled on site in the plug and/or profile for water drainage.



7010 / 7030

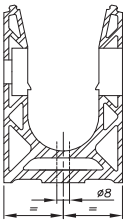


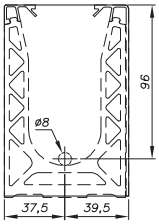


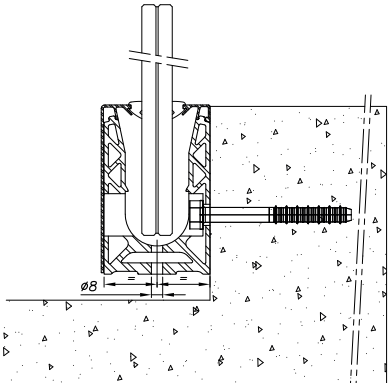


7011 / 7031

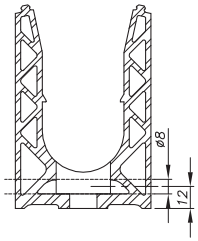
HOW TO MADE A WATER DRAINAGE

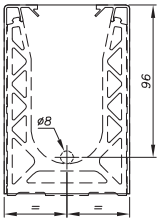


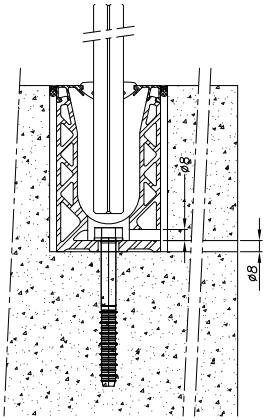




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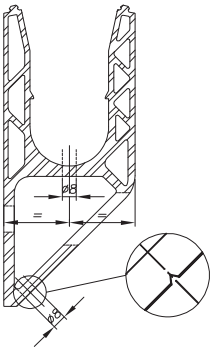


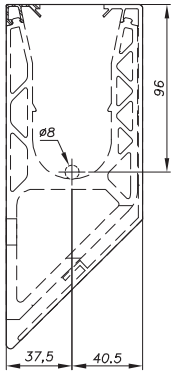


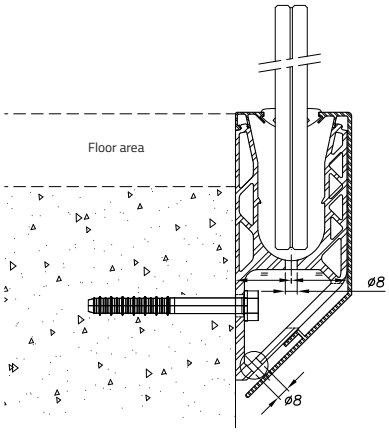
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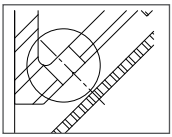
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HOW TO MADE A WATER DRAINAGE

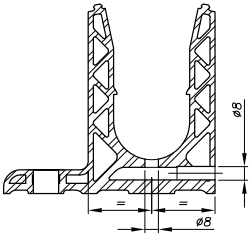


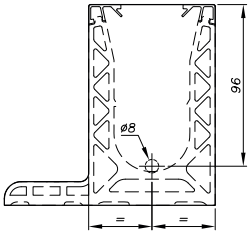


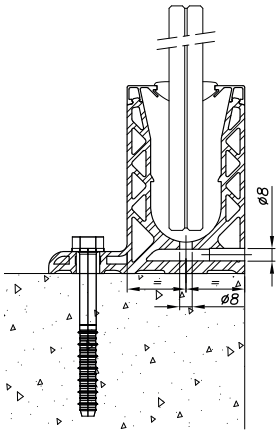




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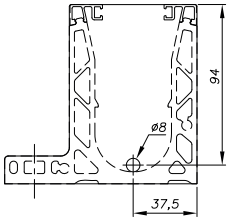


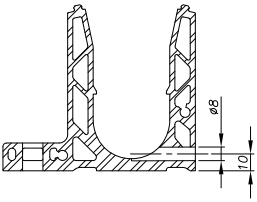


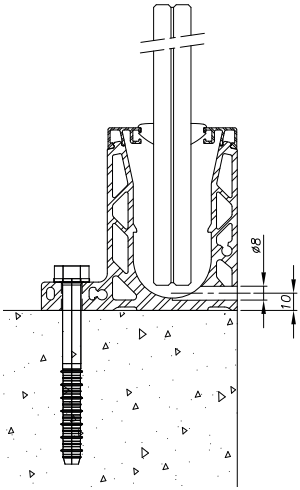


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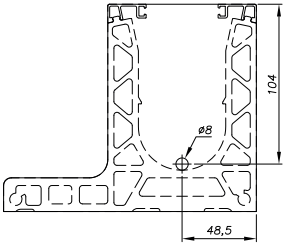
HOW TO MADE A WATER DRAINAGE

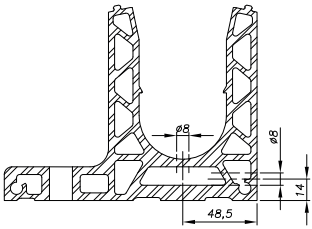


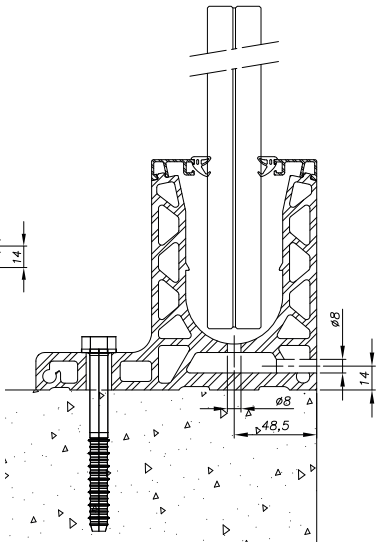




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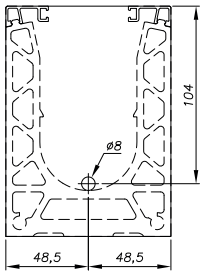


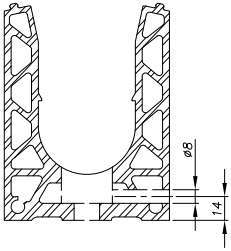




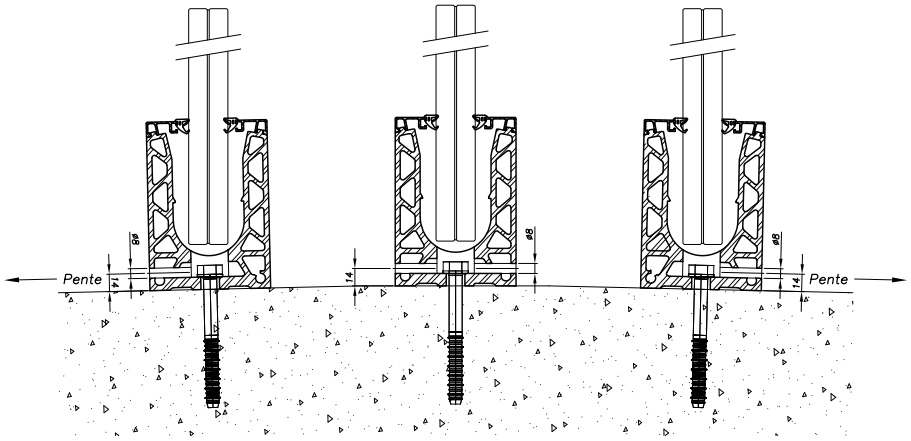
7018L

HOW TO MADE A WATER DRAINAGE





7018



RAIL AND CLADDING EXPANSION INFORMATIONS

Expansion is taken into account to ensure that the rails and claddings are held securely in place. The building's expansion gasket must be respected in the balustrade assembly.

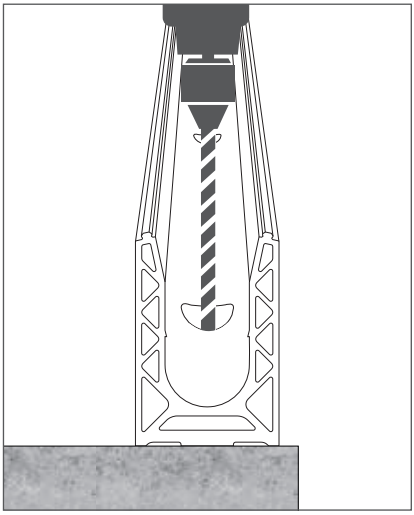
During the balustrade assembly, **you must consider the coefficient of thermal expansion.**

What does it refer?
The coefficient of thermal expansion is the expansion at constant pressure of the railing caused by its heating or cooling.

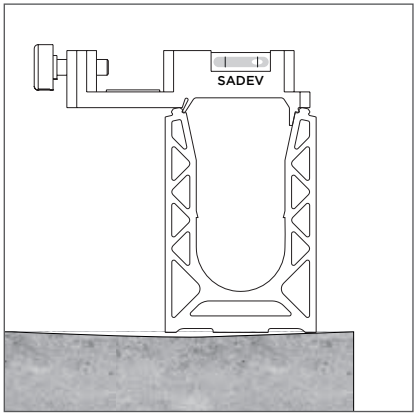
ALUMINUM						
2 500mm		**Maximum profile temperature**				
Profile temperature during assembly		40°C / 104°F	50°C / 122°F	60°C / 140°F	70°C / 158°F	80°C / 176°F
	-20°C / -4°F	4mm	4mm	5mm	5mm	6mm
	-10°C / -14°F	3mm	4mm	4mm	5mm	5mm
	0°C / 32°F	3mm	3mm	4mm	4mm	5mm
	10°C / 50°F	2mm	3mm	3mm	4mm	4mm
	20°C / 68°F	1mm	2mm	3mm	3mm	4mm
	30°C / 86°F	1mm	1mm	2mm	3mm	3mm
5 000mm		**Maximum profile temperature**				
Profile temperature during assembly		40°C / 104°F	50°C / 122°F	60°C / 140°F	70°C / 158°F	80°C / 176°F
	-20°C / -4°F	7mm	8mm	9mm	11mm	12mm
	-10°C / -14°F	6mm	7mm	8mm	9mm	11mm
	0°C / 32°F	5mm	6mm	7mm	8mm	9mm
	10°C / 50°F	4mm	5mm	6mm	7mm	8mm
	20°C / 68°F	3mm	4mm	5mm	6mm	7mm
	30°C / 86°F	1mm	3mm	4mm	5mm	6mm

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A RAIL FIXING

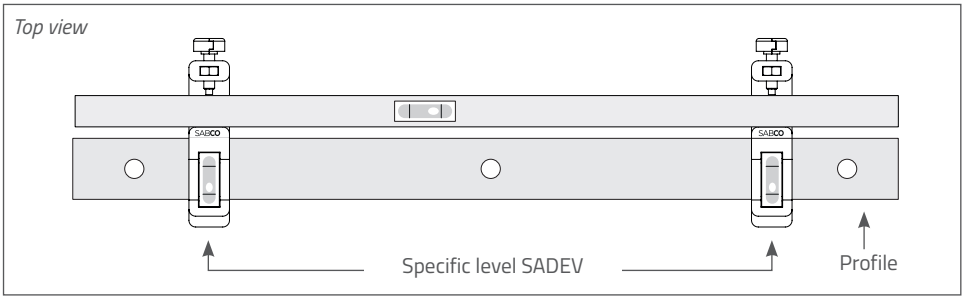


1 - Drill the support with a tool adapted to it.

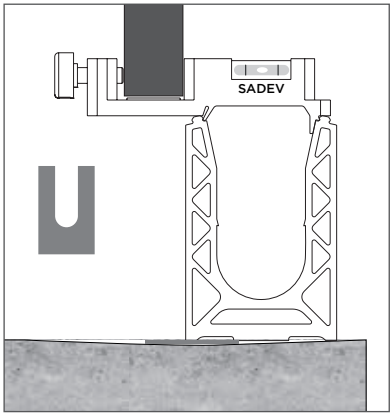


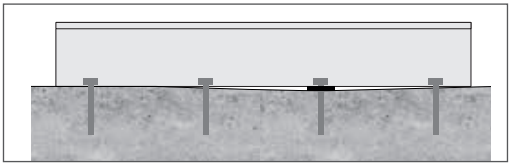
2 - Clip the specific levels on the profile, at a useful distance to put your level (see top view).

To level the profile on its length, simply clip on the two Sadev tools spaced as far apart as possible according to the length.

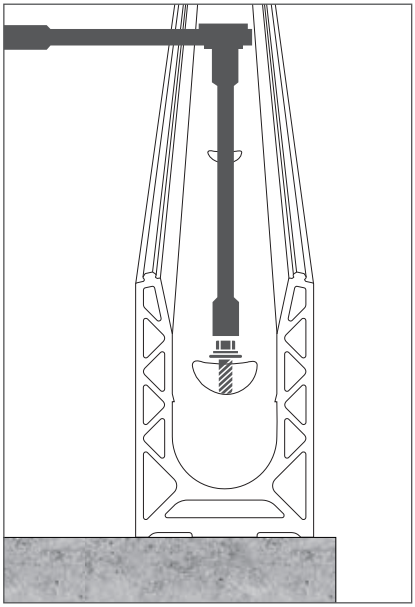


A RAIL FIXING





3 - Fix the Sadev specific level on the profile and check the horizonality of the profile.
If the support is uneven, level the profile by adding our SADEV wedge set. These wedges must be placed at the level of the fasteners **(it is possible to put several of them).**



4 - Adjust and fix the rail with the appropriate wrench to the fixing pins.
Respect the tightening torque and the mounting recommendations recommended by the manufacturer.

INFORMATIONS

Possible supports: concrete, wood, metal, others... . The support must be able to support the loads induced by the balustrade.

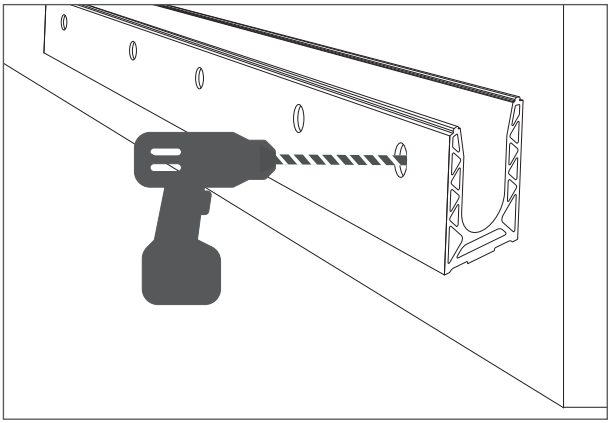
CAUTION:
Be sure to take into account the expansion gaps between the SABCO profiles and the support.
MORE INFORMATION ON PAGE 9.

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A RAIL FIXING

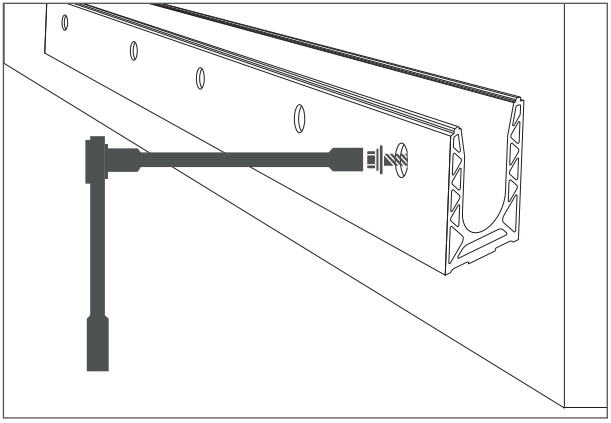
LATERAL MOUNTING

CAUTION: Be sure to take into account the expansion gaps between the SABCO profiles and the support. MORE INFORMATION ON PAGE 9.



1 - Drill the support with a tool adapted to it.
2 - If the support is irregular, level the profile by adding our SADEV wedge set.

These wedges must be placed at the level of the fasteners (it is possible to put several of them).

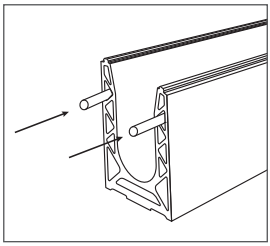


3 - Adjust and fix the rail with the appropriate wrench to the fixing pins.

Respect the tightening torque and the mounting recommendations recommended by the manufacturer.

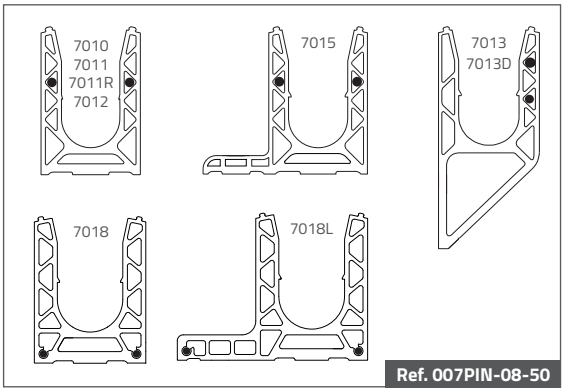
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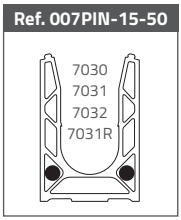
B PROFILE CONNECTION

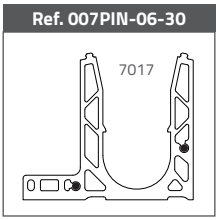


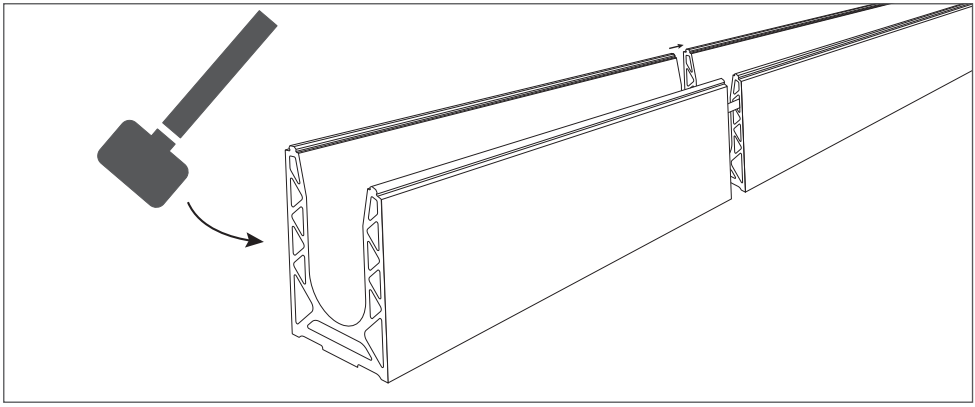
1 - Fit 2 SADEV pins connector in the rail section holes.

Location of spring pins









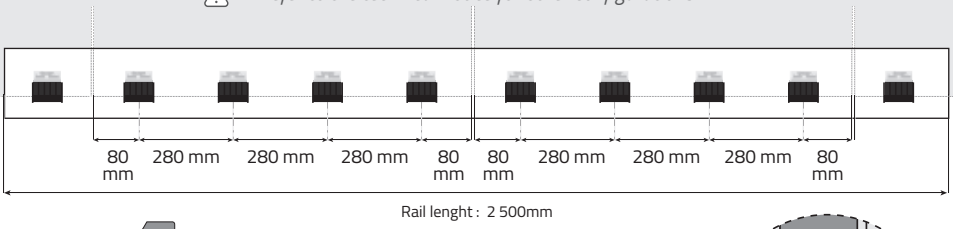
2 - Connect the rails together by using a mallet.

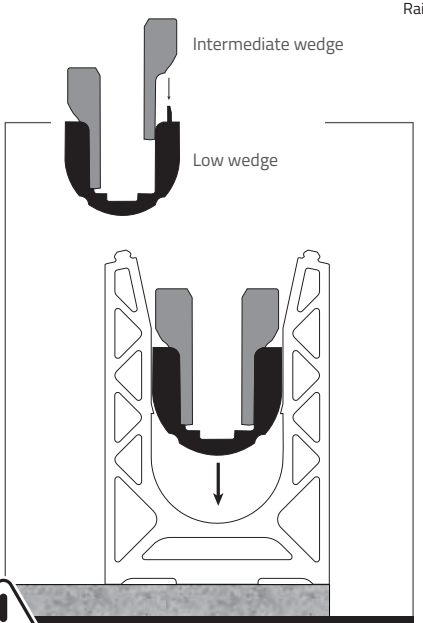
C WEDGES ASSEMBLY

Standard configuration for a 2.5 meter rail: 10 wedges (1 box)

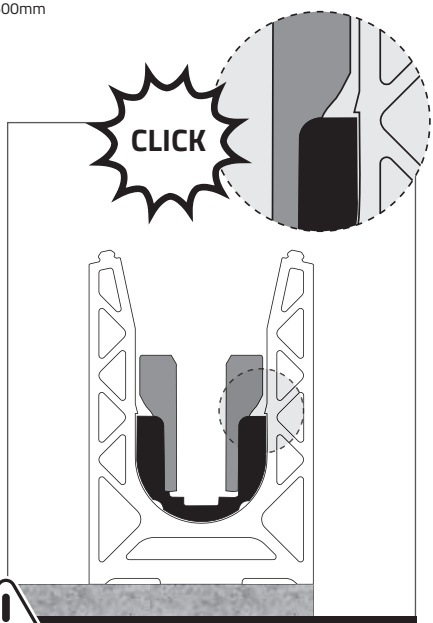
Example: 3 wedges / linear meter even when the width of the glass is < 1 meter.

⚠ *Refer to the technical notice for other configurations.*





Before positioning the wedges in the rail, make sure that the intermediate wedges are properly inserted on the bottom wedges.

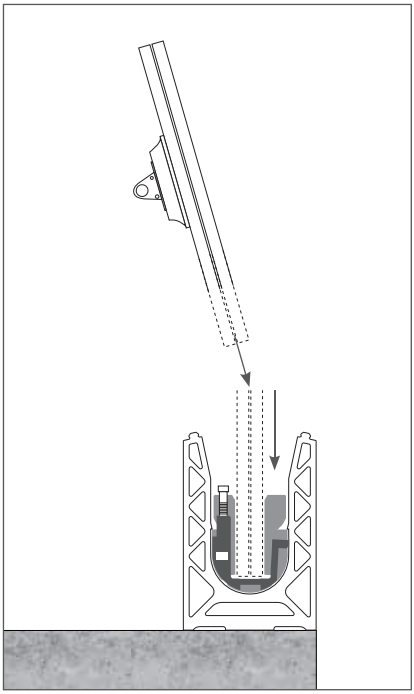


The wedges must be correctly positioned, you should hear «click» when you insert them.

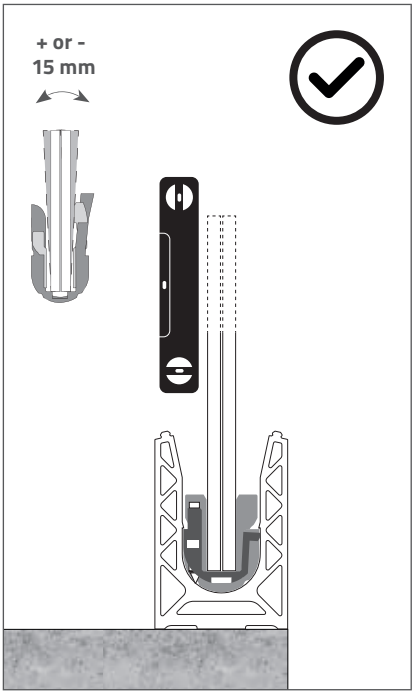
1 - Cleaning the rail with the Sadev cleaning set. Ref. : 7OUT-KITNET

2 - Install the wedge in the rail.

D GLASS INSTALLATION AND ADJUSTMENT



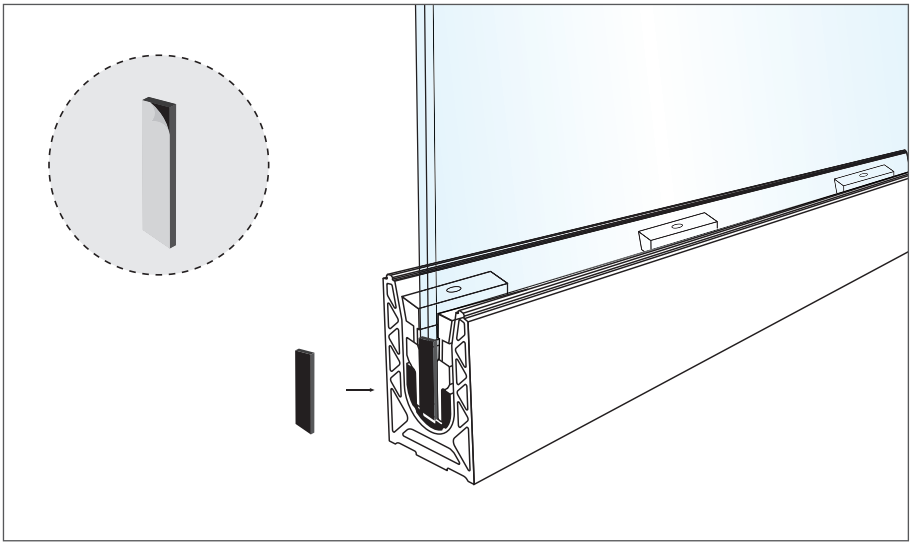
1 - Lift the glass inside the wedges.



2 - Level the glass before adding the high wedge.

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E GLASS SPACING



1 - Remove the protection from the adhesive. Stick the SADEV spacer on the edge of the glass, on the bottom right-hand corner flush with the glass.

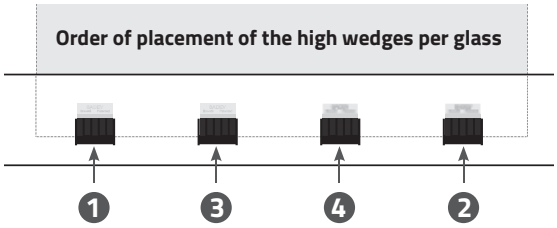
The spacers have different functions:

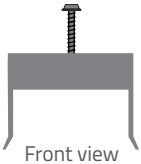
- To have a regular space between the glass panels.

The spacers are 5 mm wide. If you need a larger gap, you can stick the spacers together to obtain spacings of 10, 15 mm... .

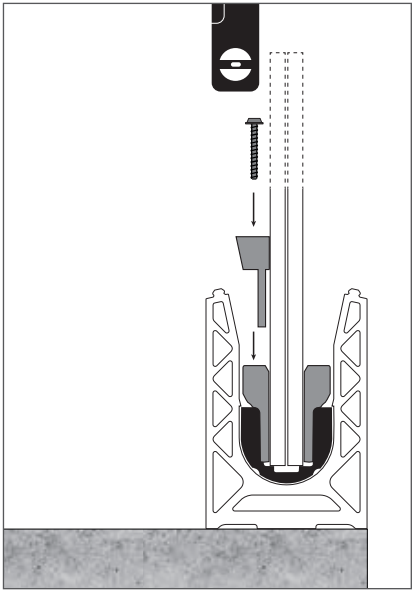
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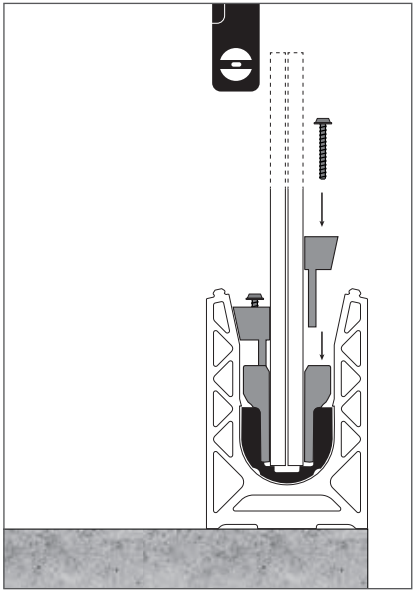
F INSTALLATION OF HIGH WEDGES




Front view


Side view



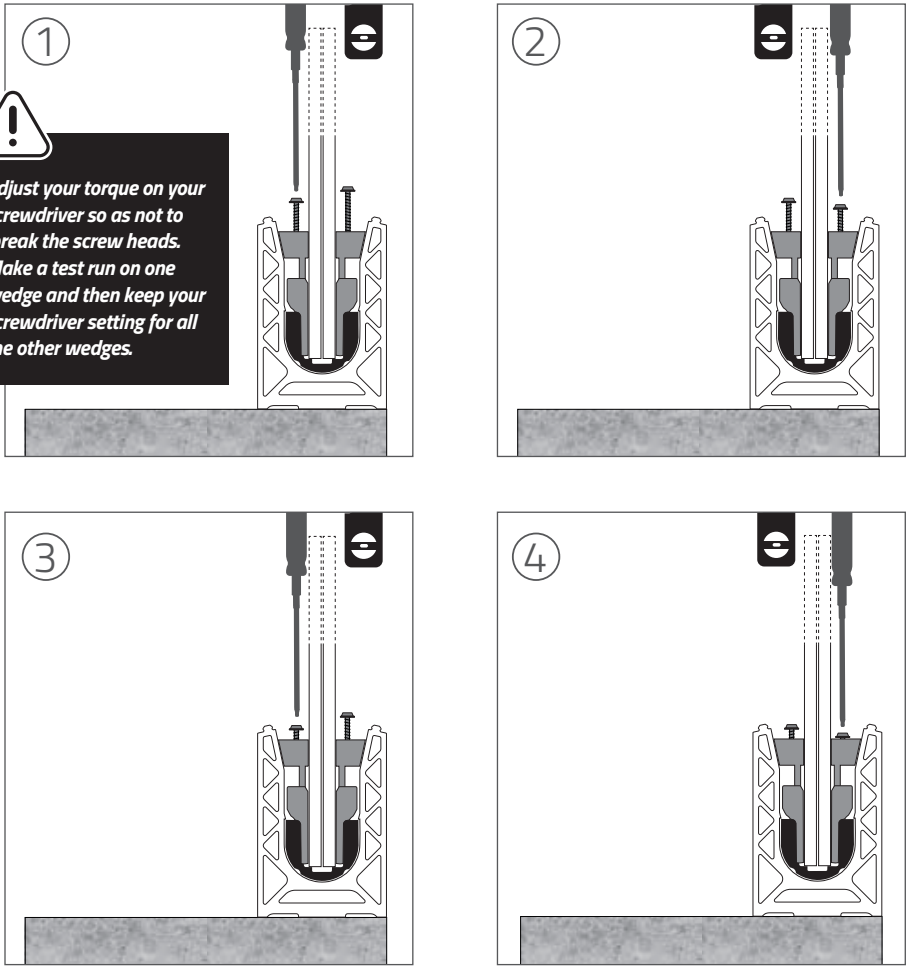


1 - Insert the high wedge while maintaining the level of the glass

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G WEDGES TIGHTENING

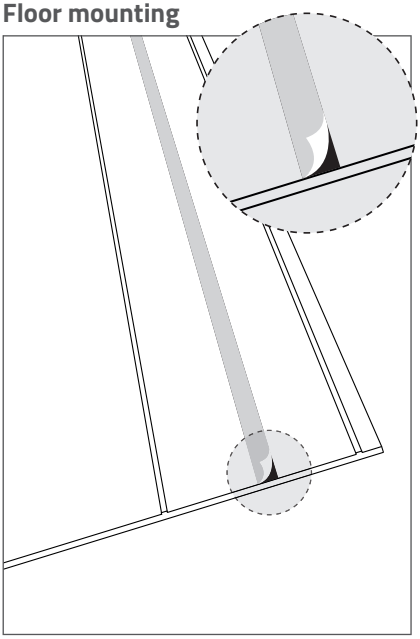
Use the torque screwdriver for torque control: 2 Nm



1 - Screw on each side of the glass as long as you do not change the level of the glass.

H INSTALLATION OF CLADDING

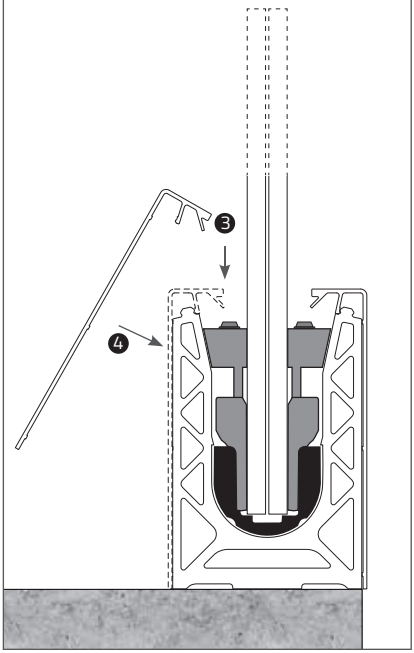
Floor mounting



1 - Cleaning the rail with the Sadev cleaning set. Ref. : 7OUT-KITNET before the installation of the accessible side cladding
2 - Remove the adhesive protection.

The adhesive application at below 10 °C is not recommended.
It is advisable to align the junctions of the cladding with those of the rails.

CAUTION:
Be sure to take into account the expansion gaps when installing the cladding.
MORE INFORMATION ON PAGE 9.



3 - Clip the top of the cladding.
4 - Press the cladding on the rail.

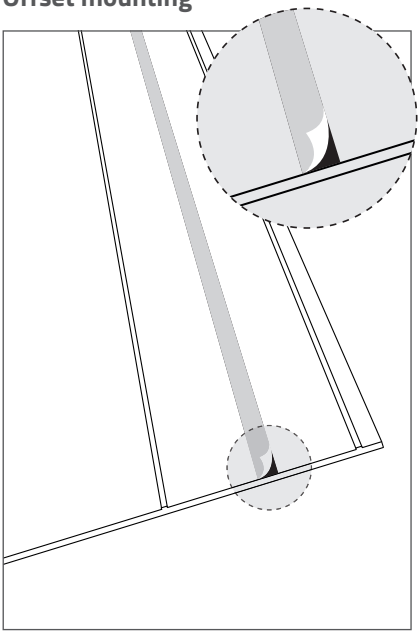
Other cladding configuration possible:



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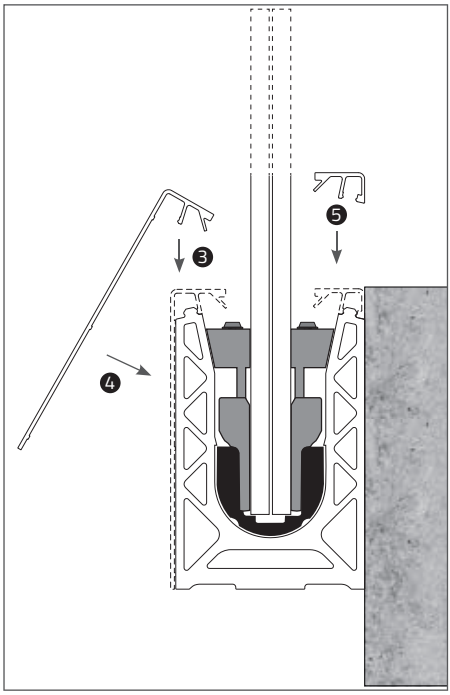
H INSTALLATION OF CLADDING

Offset mounting



1 - Cleaning the rail with the Sadev cleaning set. Ref. : 7OUT-KITNET before the installation of the accessible side cladding
2 - Remove the adhesive protection.

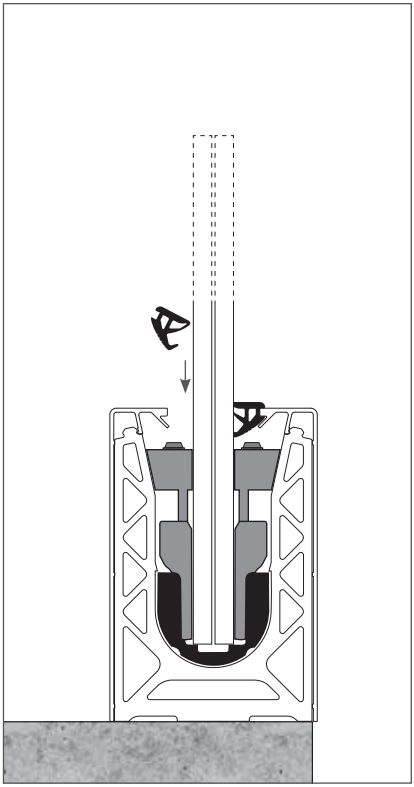
CAUTION:
Be sure to take into account the expansion gaps when installing the cladding.
MORE INFORMATION ON PAGE 9.



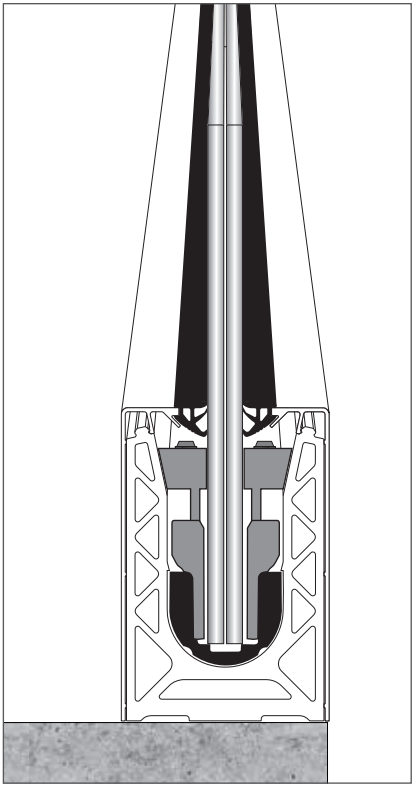
High cladding
3 - Clip the top of the cladding.
4 - Press the cladding on the rail.

Small cladding
5 - Clip the small cladding on the side of the slab for slab nose applications *(007011 - 007013)*.

I PRESS-IN GASKET ASSEMBLY



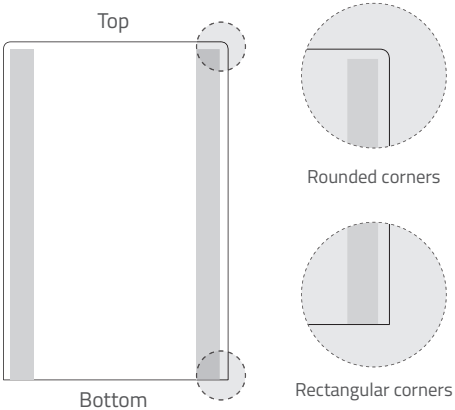
1 - Add the press-in gasket between the cladding and the glass.

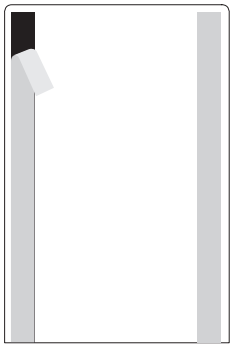


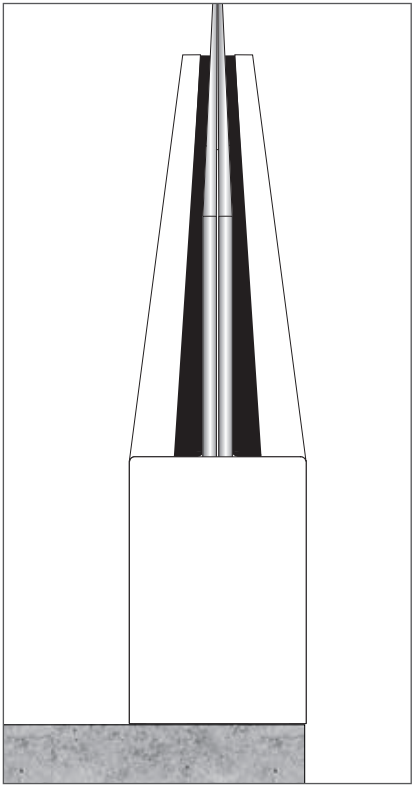
2 - Do not stretch the gasket by clipping it.

The gasket must be correctly installed along the entire length of the cladding.

J INSTALLATION OF END CAPS



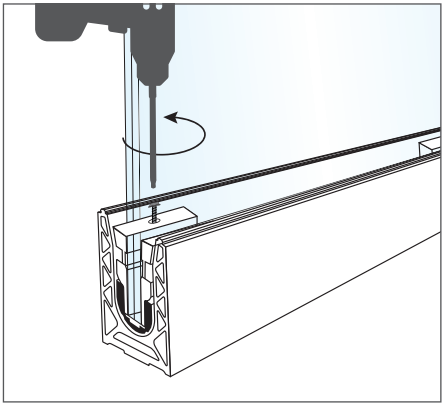




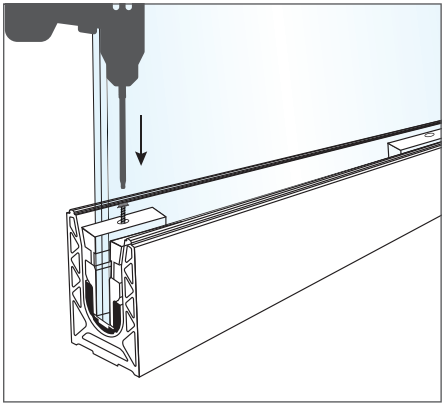
1 - Cleaning the rail with the Sadev cleaning set. Ref. : 7OUT-KITNET before installing the end cap.
2 - Remove the adhesive protection.
3 - Press the end cap at the end of the rail.

You have successfully assembled your balustrade!

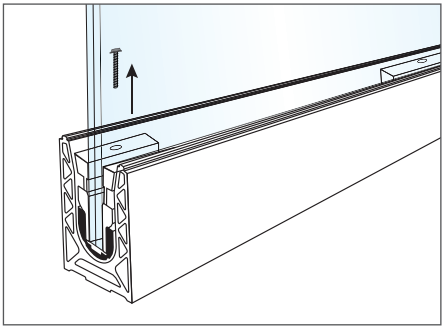
K REMOVING WEDGES MAINTENANCE



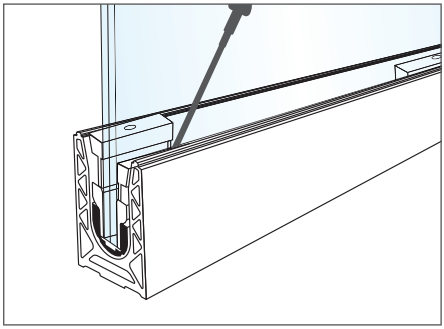
1 - After removing the cladding and gasket, unscrew the screws 1 cm high.



2 - Apply a force on the screw in order to lower the intermediate wedge.



3 - Finish unscrewing the screw and remove it



4 - Using a screwdriver, pry between the intermediate and upper wedge to remove the high wedge.

INFORMATIONS

Once all the high wedges have been removed from the rail, remove the glass.
Replace all wedges. The wedges cannot be reused.

SABCO®
SADEV BALUSTRADE CONCEPT

ASSEMBLY GUIDE **DOUBLE SIDE** WEDGE

Available on sadev.com

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