



ASSEMBLY GUIDE

ONE SIDE 2.0 WEDGE



ASSEMBLY
GUIDE VIDEO

+ or -
15 mm



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



Product description

Composition of a box



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.]
x	10	007AKIT08CAL150606	6.6	12.4 > 14.6
GREEN	11	007AKIT08CAL151010	10.10	20.3 > 21.9
WHITE	12	007AKIT08CAL150808	8.8	16.2 > 17.6
x	10	007BKIT08CAL151212*	12.12	24.2 > 27
x	11	007BKIT08CAL151515*	15.15	30.5 > 33.4

* CAUTION only compatible with the 0070RAIL18 reference

IMPORTANT



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

GUIDELINES

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.



Available on [sadev.com](https://www.sadev.com)

SUMMARY

A	RAIL FIXING	10
B	PROFILE CONNECTION	13
C	WEDGES ASSEMBLY	14
D	INSTALLATION OF THE NON-ACCESSIBLE SIDE CLADDING	17
E	GASKETS PRESENTATION	18
F	GASKETS ASSEMBLY	19
G	GLASS INSTALLATION AND ADJUSTMENT	20
H	GLASS SPACING	21
I	INSTALLATION OF HIGH WEDGES	22
J	WEDGES TIGHTENING	23
K	INSTALLATION OF THE ACCESSIBLE SIDE CLADDING	24
L	PRESS-IN GASKET ASSEMBLY	25
M	INSTALLATION OF END CAPS	26
N	REMOVING WEDGES MAINTENANCE	27

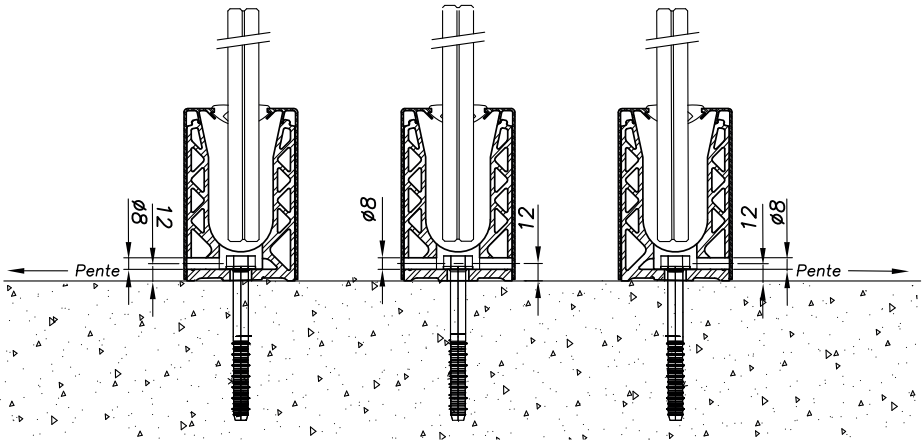
Tools required for assembly

- **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**
- **WEDGE MOUNTING TOOL** - Ref.: 007-OUT-15
- **CLEANING SET** - Ref.: 7OUT-KITNET

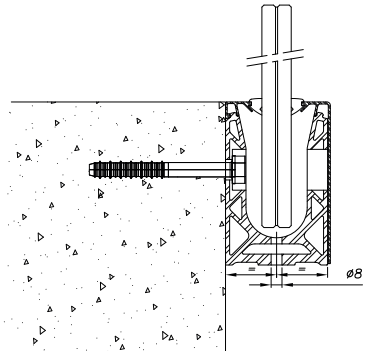
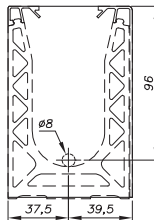
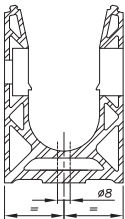
HOW TO MADE A WATER DRAINAGE

Water drainage in the SABCO guardrail is carried out by drilling the aluminum 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, $\varnothing 8$ mm holes can be drilled on site in the plug and/or profile for water drainage.

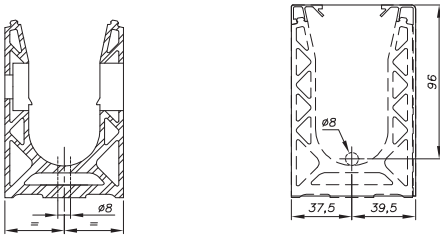


7010 / 7030

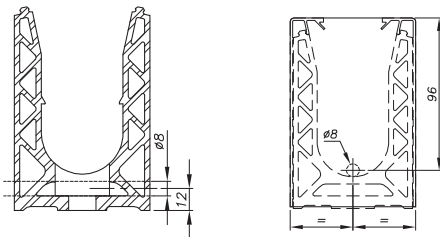
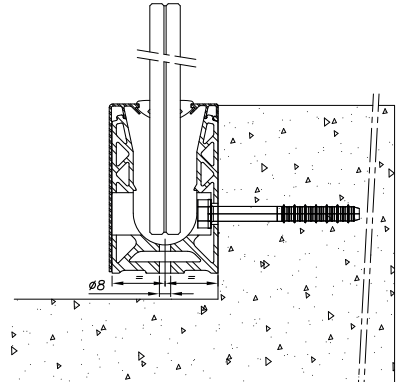


7011 / 7031

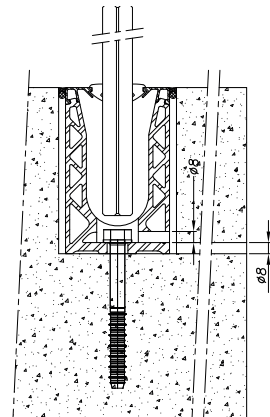
HOW TO MADE A WATER DRAINAGE



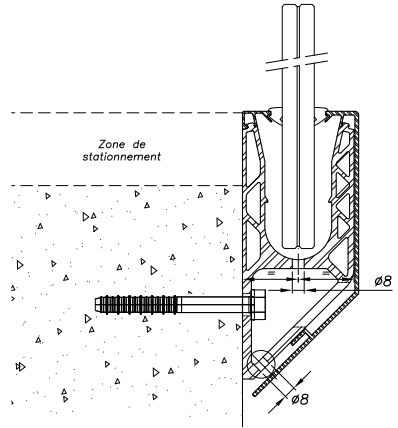
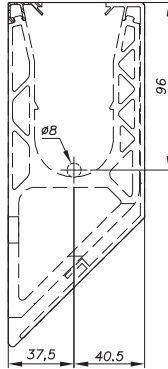
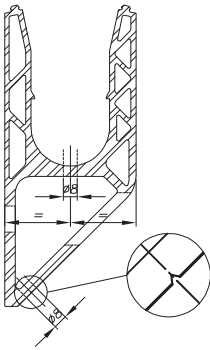
7011R / 7031R



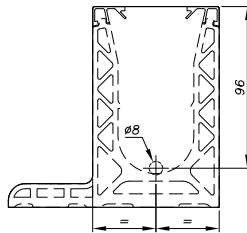
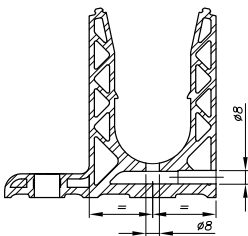
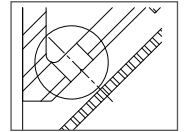
7012 / 7032



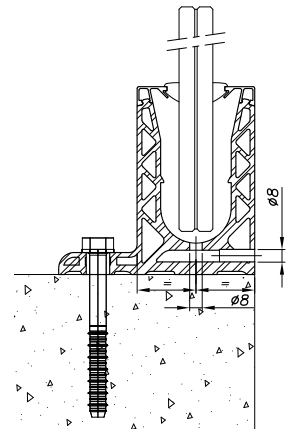
HOW TO MADE A WATER DRAINAGE



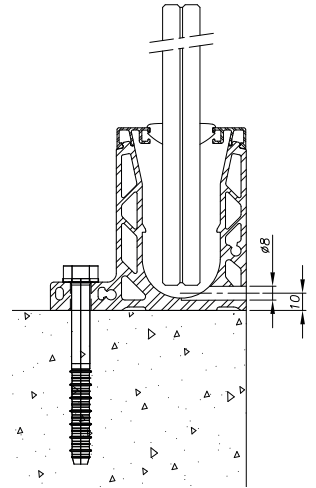
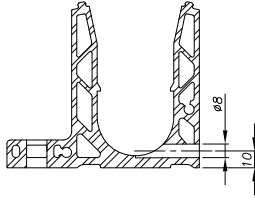
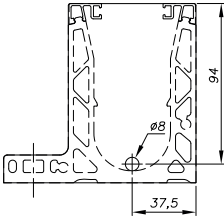
7013



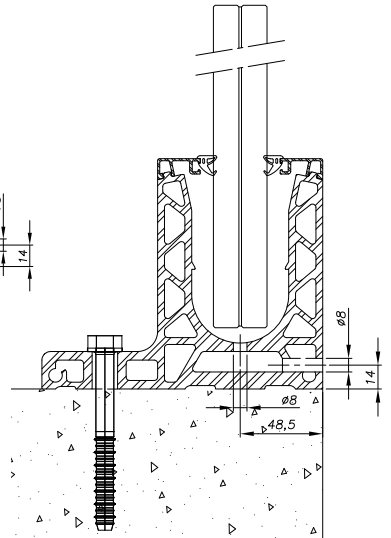
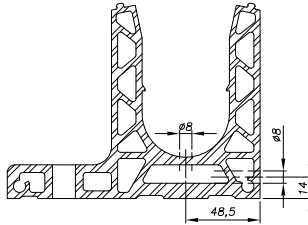
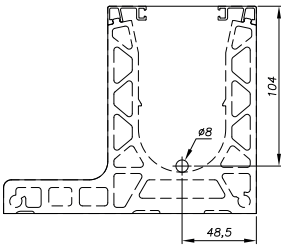
7015



HOW TO MADE A WATER DRAINAGE

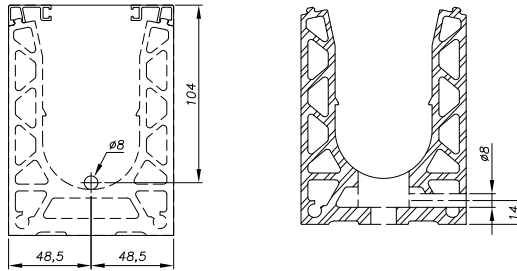


7017

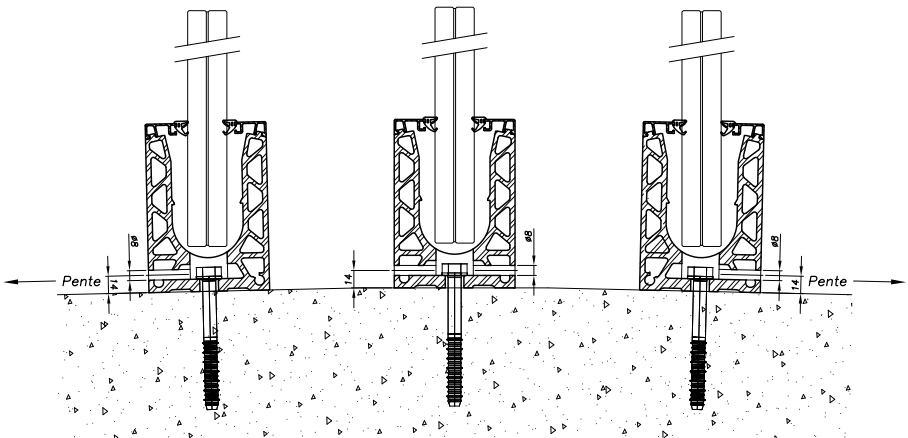


7018L

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.

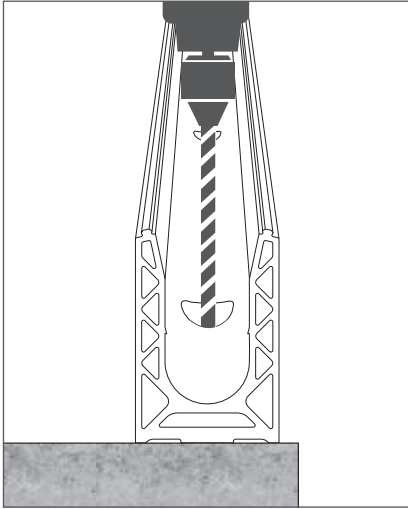
During the balustrade assembly, **you must consider the coefficient of thermal expansion.**

What does it refer?

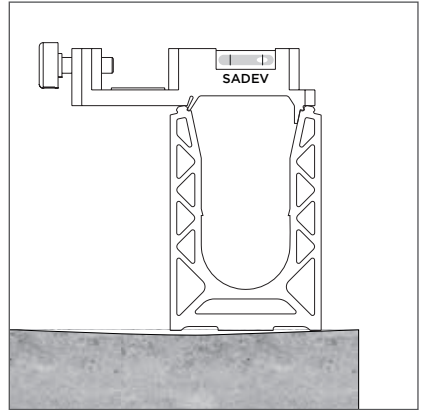
The coefficient of thermal expansion is the expansion at constant pressure of the railing caused by its heating or cooling.

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

A RAIL FIXING

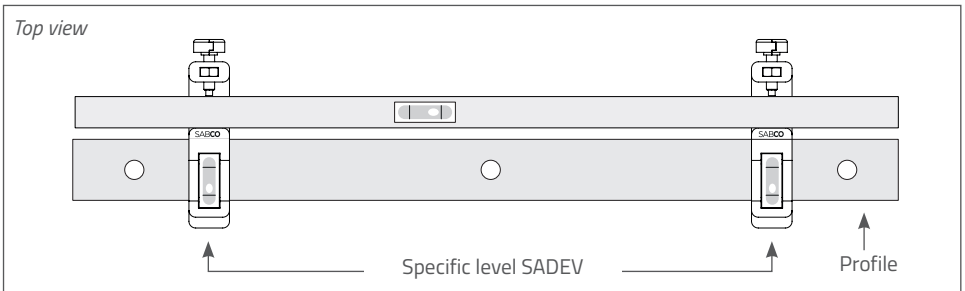


1 - Drill the support with a tool adapted to it.

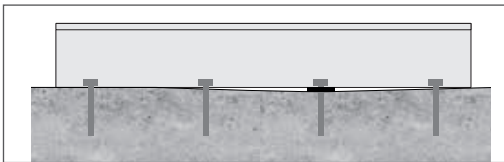
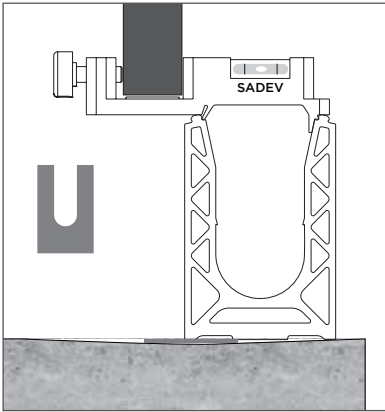


2 - Clip the specific levels on the profile, at a useful distance to put your level (see top view).

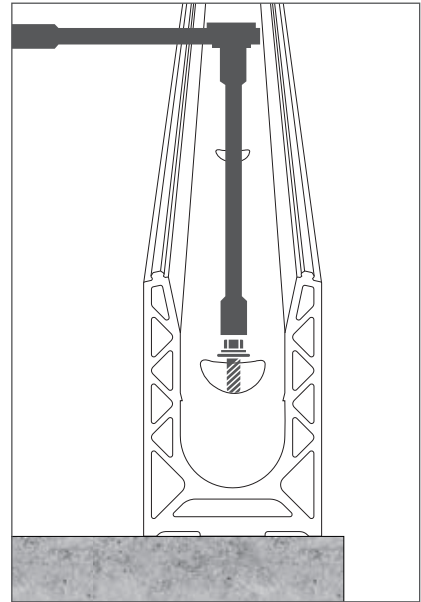
To level the profile on its length, simply clip on the two Sadev tools spaced as far apart as possible according to the length.



A RAIL FIXING



- 3 - Fix the Sadev specific level on the profile and check the horizontality 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.

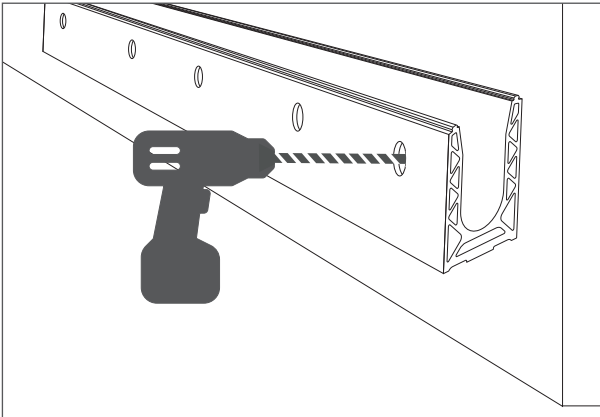
A RAIL FIXING

LATERAL MOUNTING



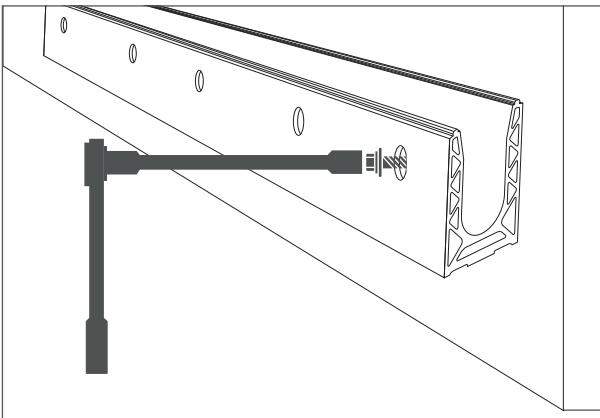
CAUTION:

*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.

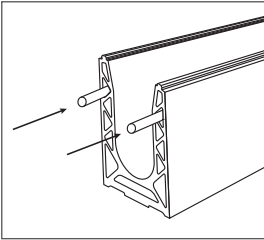
These wedges must be placed at the level of the fasteners (it is possible to put several of them).



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

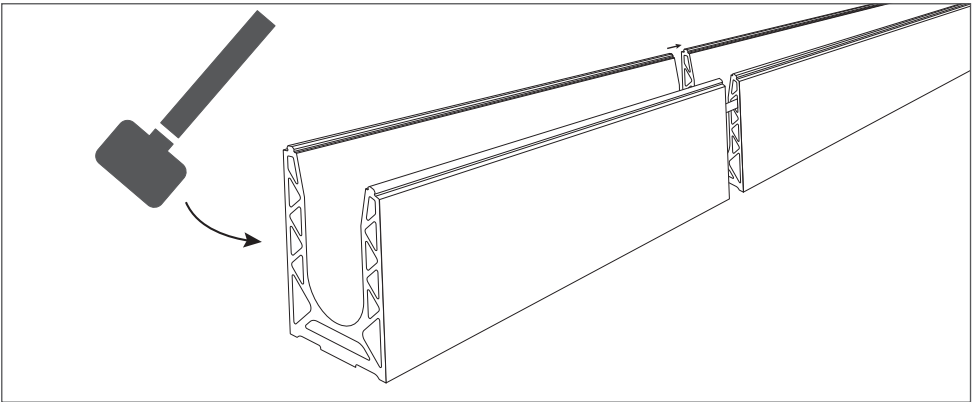
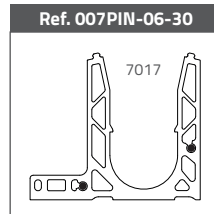
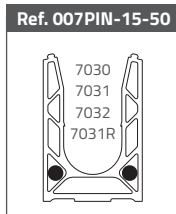
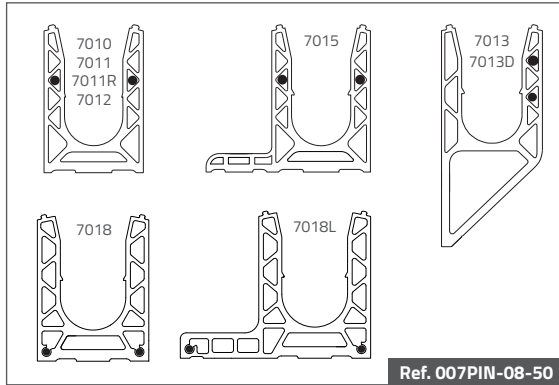
Respect the tightening torque and the mounting recommendations recommended by the manufacturer.

B PROFILE CONNECTION



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

Location of spring pins

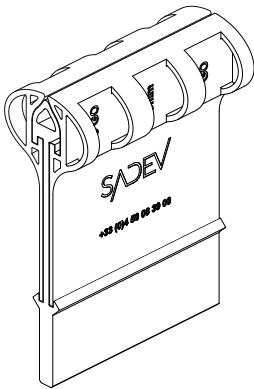
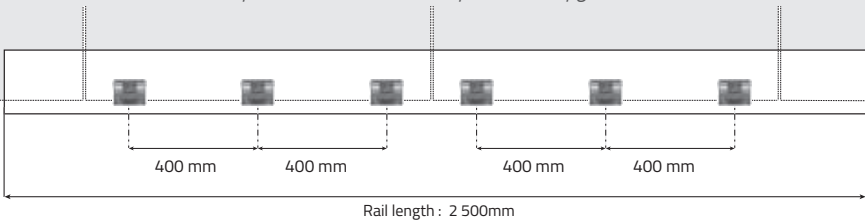


2 - Connect the rails together by using a mallet.

C WEDGES ASSEMBLY

Standard configuration for a 2.5 meter rail: 8 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.

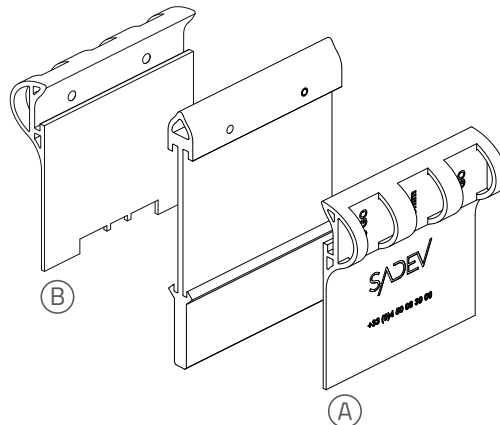


SADEV assembly & disassembly set

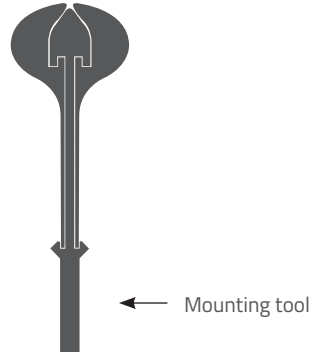
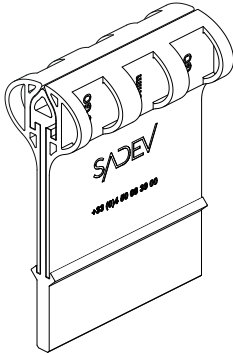
This set consists of 3 parts:
wedge insertion tool

(A) (B) : tools for removing the wedge

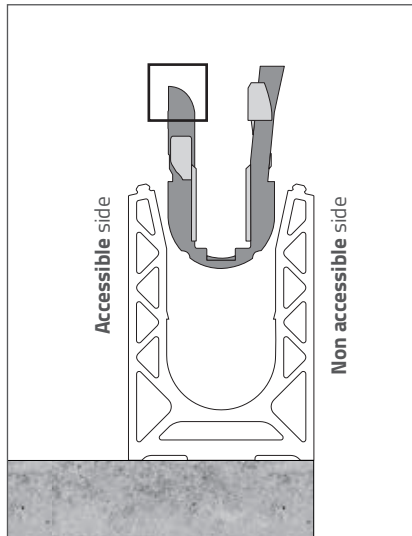
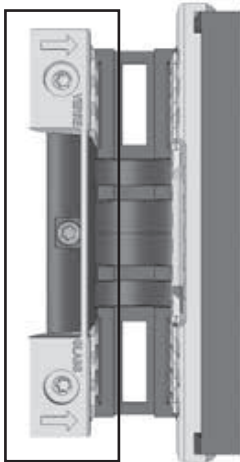
The 3 parts fit together to form a single tool.



C WEDGES ASSEMBLY

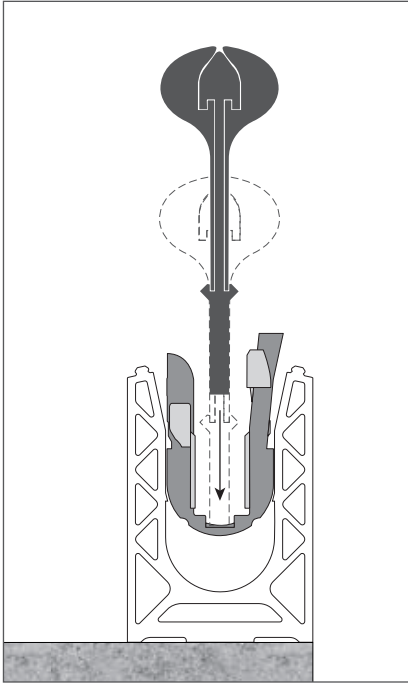


The adjustable part of the wedge must be on **the accessible side**.

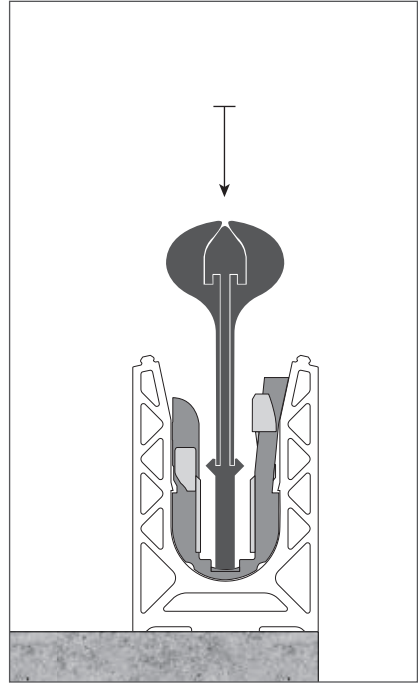


- 1 - Clean the rail.
- 2 - Install the wedge in the rail.

C WEDGES ASSEMBLY



3 - Insert the tool in the bottom of the wedge.

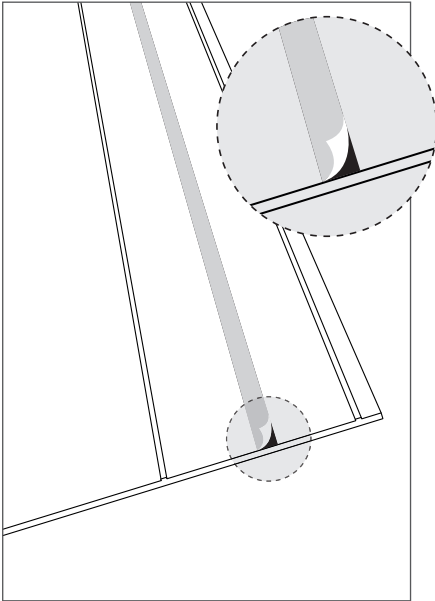


4 - Apply pressure on the tool to insert the wedge into the rail.

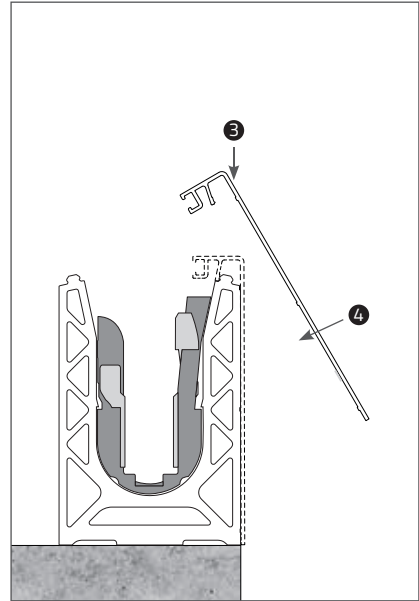


The wedges must be correctly positioned, you should hear «click» when you insert them.

D INSTALLATION OF THE NON-ACCESSIBLE SIDE CLADDING



- 1 - Cleaning the rail before the installation of the non accessible side cladding
- 2 - Remove the protection from the adhesive.



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



**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.**

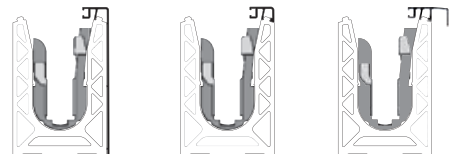


CAUTION:

Be sure to take into account the expansion gaps when installing the cladding.

MORE INFORMATION ON PAGE 9.

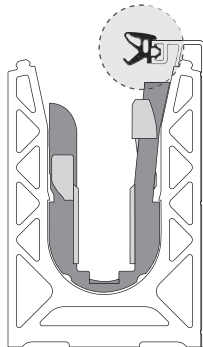
Other cladding configuration possible:



E GASKETS PRESENTATION

Non-accessible side

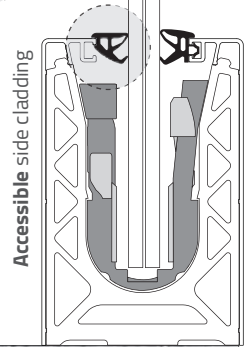
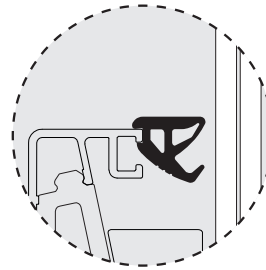
Snap-fit gasket



Non accessible side cladding

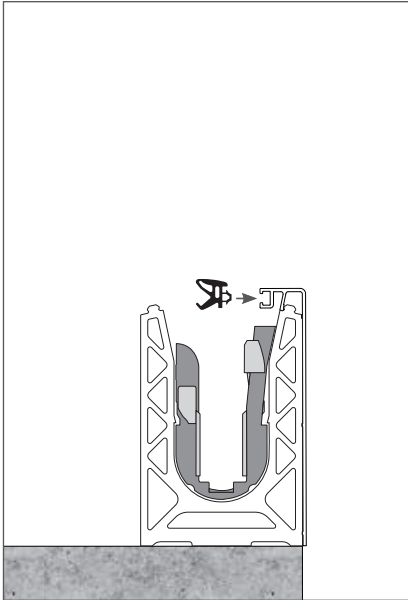
Accessible side

Press-in gasket

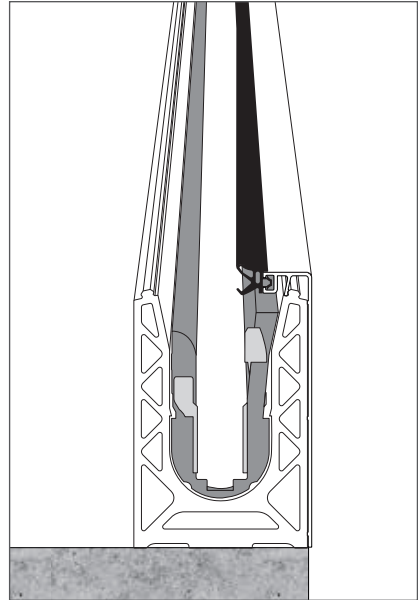


Accessible side cladding

F GASKETS ASSEMBLY

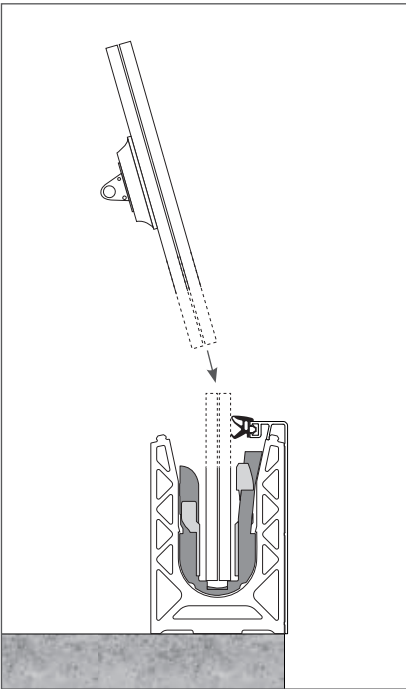


1 - Clip the gasket in the provided slot on the whole length.

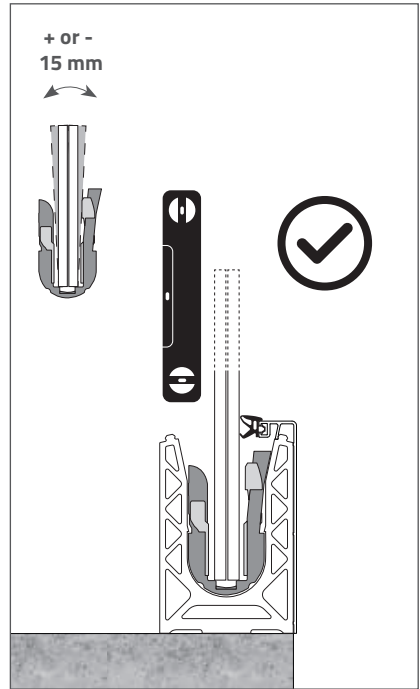


2 - Do not stretch the gasket by clipping it.

G GLASS INSTALLATION AND ADJUSTMENT

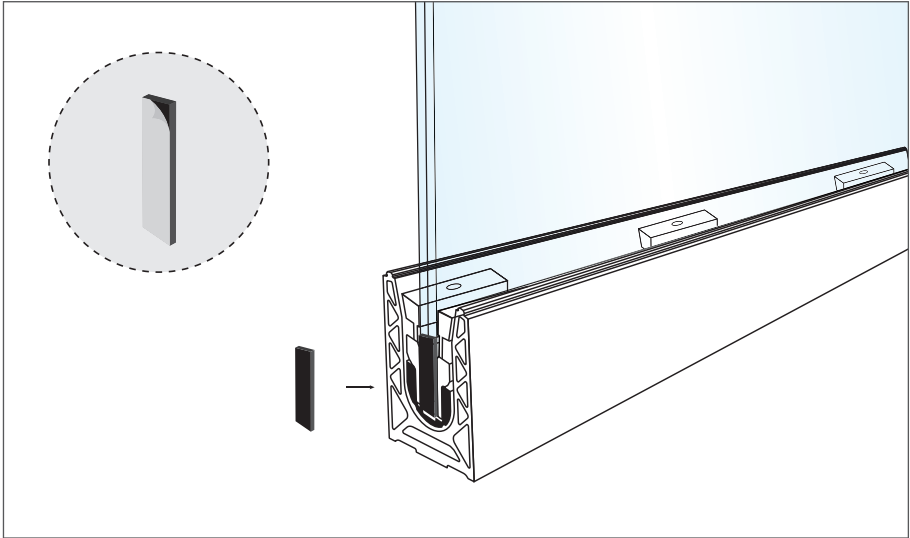


1 - Position the glass inside the wedges.



2 - Level the glass before adding the high wedge.

H GLASS SPACING



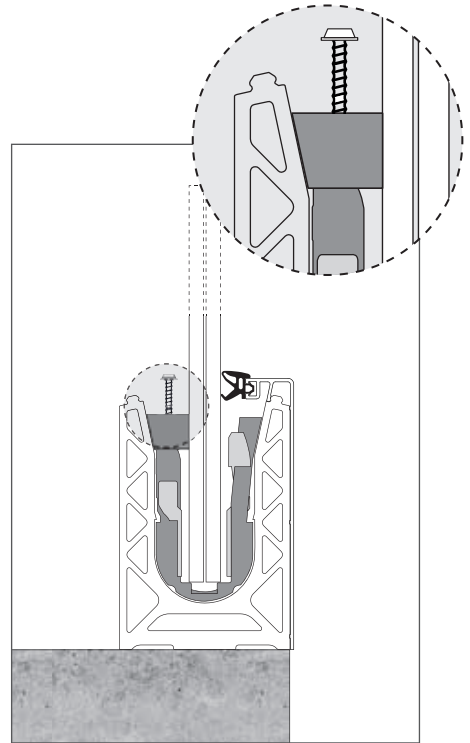
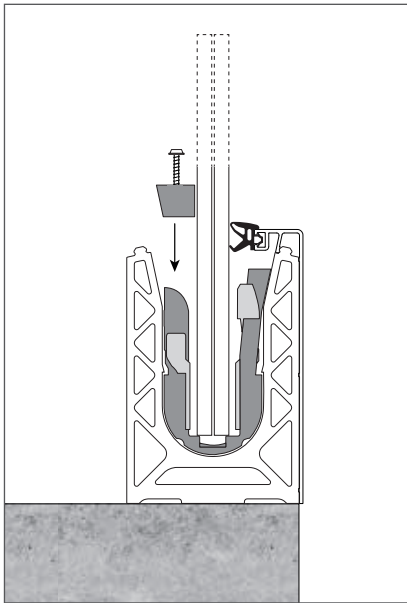
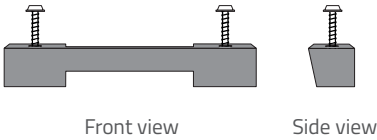
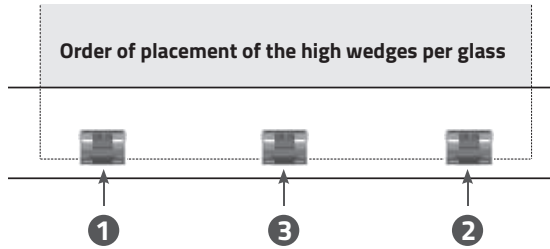
1 - Remove the protection from the adhesive. Stick the spacer on the edge of the glass, on the bottom right-hand corner flush with the glass.

The spacers have different functions:

- To have a regular space between the glass panels.

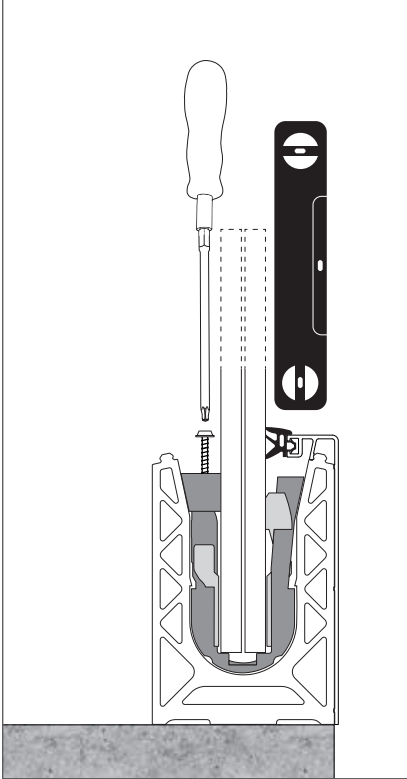
The spacers are 5 mm wide. If you want a larger gap, you can stick the spacers together to obtain spacings of 10, 15 mm... .

I INSTALLATION OF HIGH WEDGES



1 - Insert the high wedge and hold it in place the glass plumb.

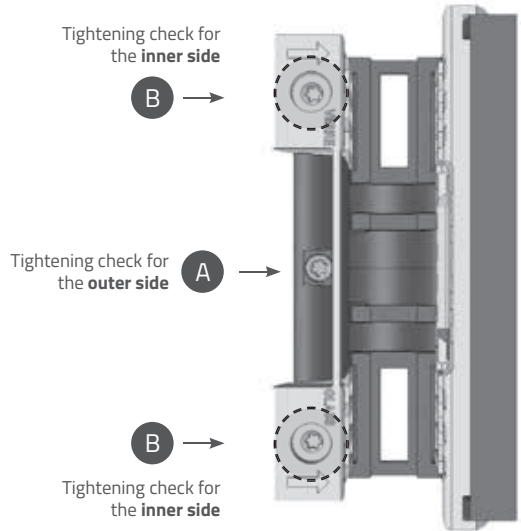
J WEDGES TIGHTENING



1 - Insert the side screws.

Tightening order:

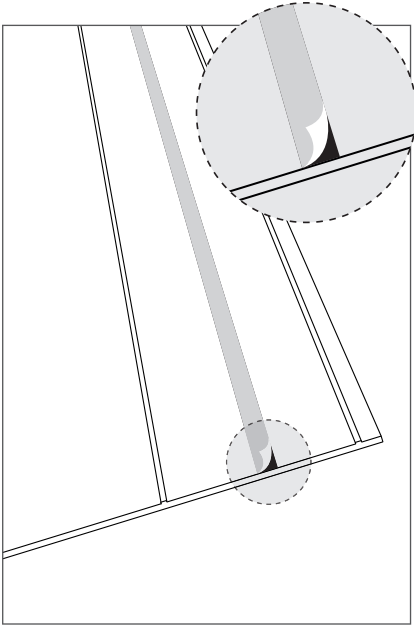
- Tighten the center screw **A** first
- Tighten the side screws **B** second



- 2 - Tighten each screw according to the tightening order above.
- 3 - Evenly balance the tightening of the 3 screws in order to keep the glass in position.

Use the dynamometric screwdriver to control the torque tightening: 2Nm.

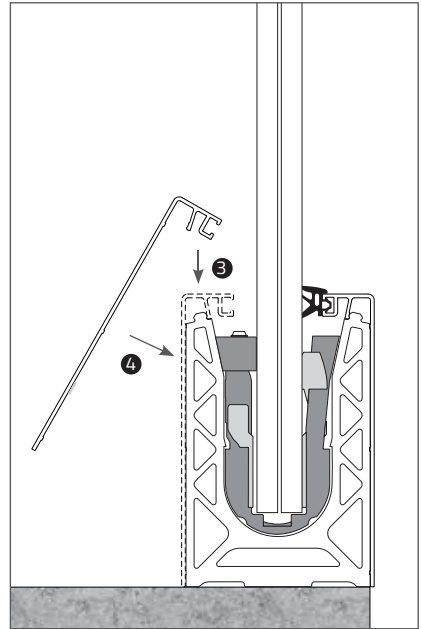
K INSTALLATION OF THE ACCESSIBLE SIDE CLADDING



- 1 - Cleaning the rail before the installation of the accessible side cladding
- 2 - Remove the protection from the adhesive.



**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.**



- 3 - Clip the top of the bonnet.
- 4 - Place the cover on the rail.



CAUTION:

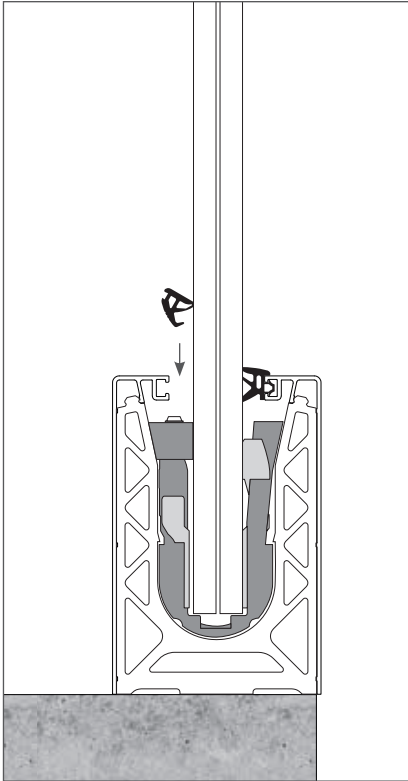
Be sure to take into account the expansion gaps when installing the cladding.

MORE INFORMATION ON PAGE 9.

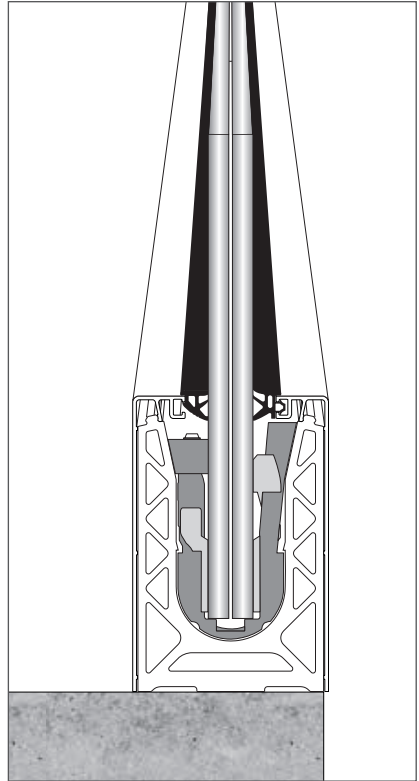
Other cover configuration possible:



L PRESS-IN GASKET ASSEMBLY



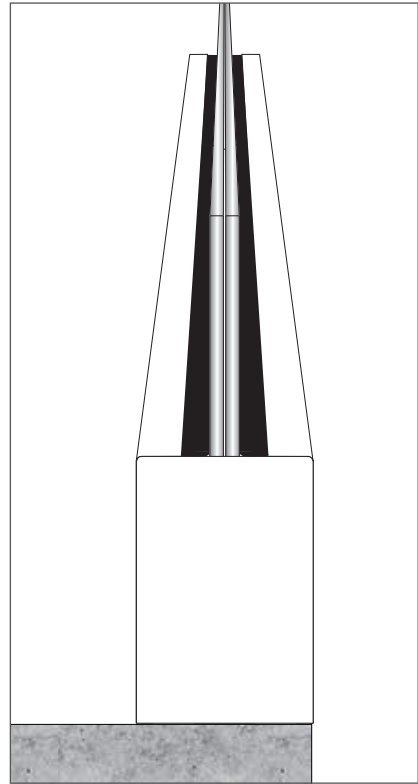
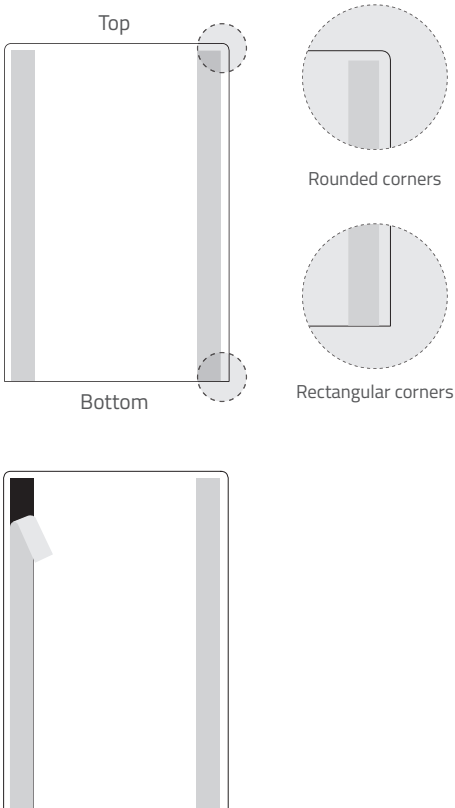
1 - Add the press-in gasket between the cladding and the glass.



2 - Do not stretch the gasket by clipping it.

YOU HAVE SUCCESSFULLY ASSEMBLED YOUR BALUSTRADE!

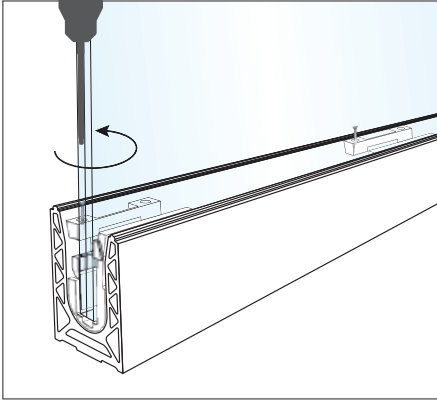
M INSTALLATION OF END CAPS



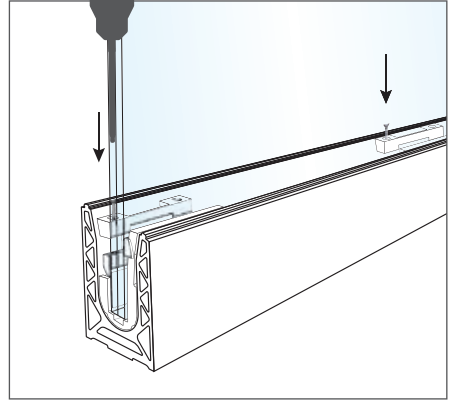
- 1 - Cleaning the rail with the Sadev cleaning set. Ref. : 70UT-KITNET before installing the end cap.
- 2 - Remove the adhesive protection.
- 3 - Press the end cap at the end of the rail.

**You have successfully assembled
your balustrade!**

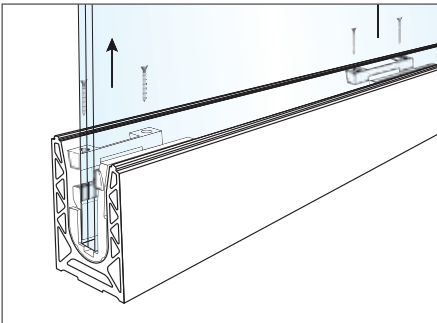
N REMOVING WEDGES MAINTENANCE



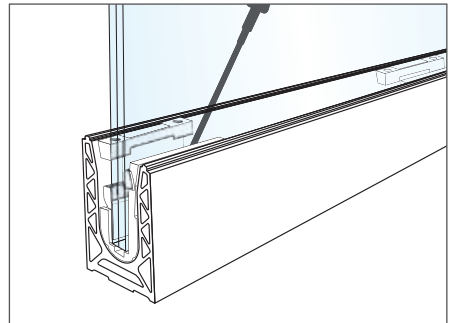
1 - After removing the cladding and gasket, unscrew the screws 1 cm high.



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



3 - Finish unscrewing the screw and remove it

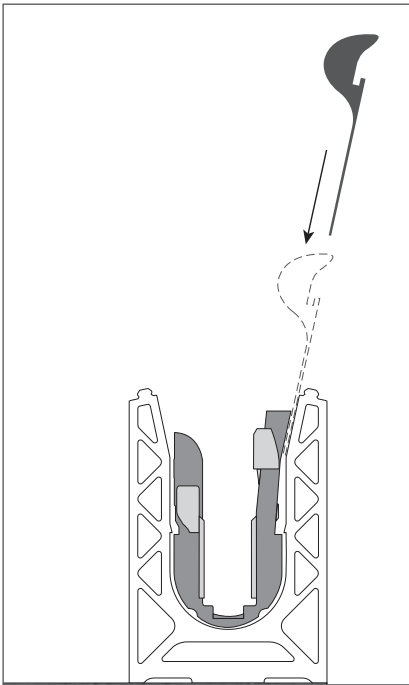
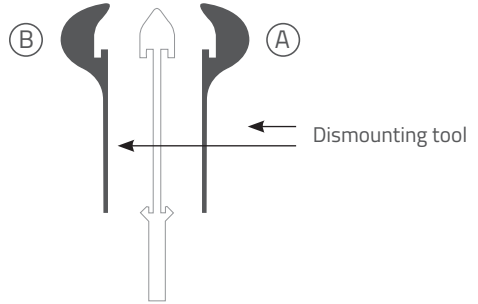
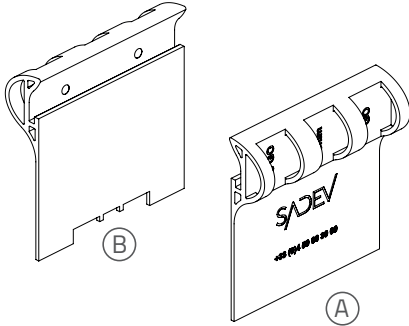


4 - Using a screwdriver, pry between the intermediate and upper wedge to remove the high wedge.

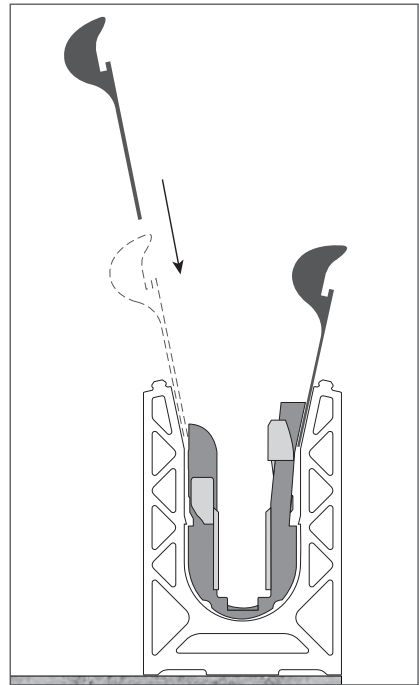
INFORMATIONS

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

N REMOVING WEDGES **MAINTENANCE**

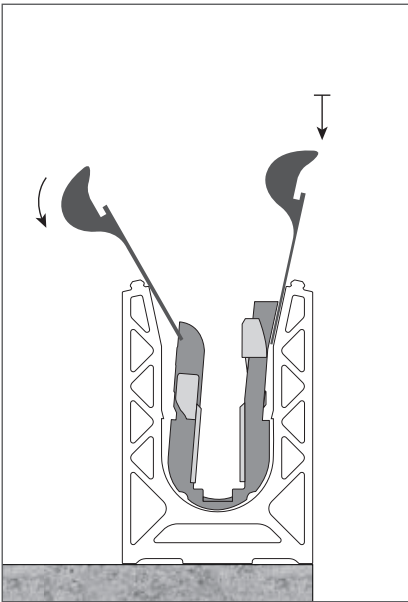


1 - Insert **tool A** between the wedge and the rail, **on the non-accessible side**.

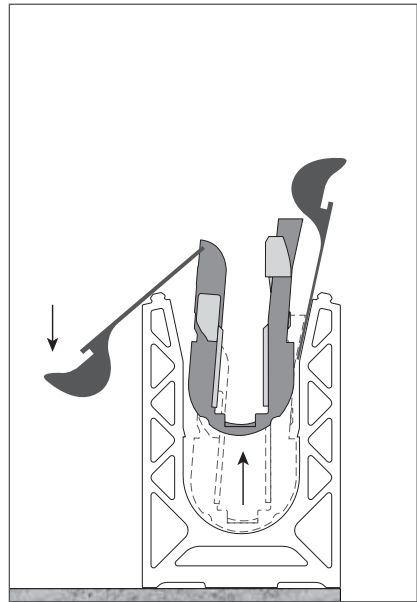


2 - Insert **tool B** between the wedge and the rail, **on the accessible side**.

N REMOVING WEDGES MAINTENANCE



3 - Hold **tool A** in place.
Apply pressure from the bottom
to the top with **tool B** to unclip the
wedge.



4 - You can remove the wedge.



ASSEMBLY GUIDE ONE SIDE 2.0 WEDGE

Available on [sadev.com](https://www.sadev.com) 



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