



## ASSEMBLY GUIDE

# SWIMSIDE RAIL

Collective or individual use

### 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](http://www.sadev.com/maintenance-and-warranty)



Please read carefully and retain for future reference

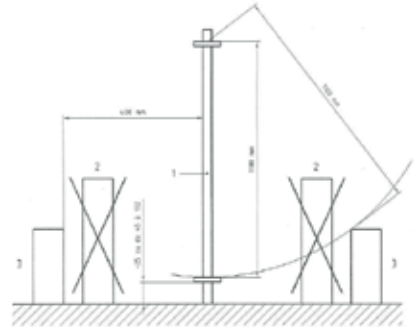
## FRENCH STANDARD RECOMMENDATION

The swimside product must be installed according to the swimming pool standard of the country. These recommendation are based on the French standard.

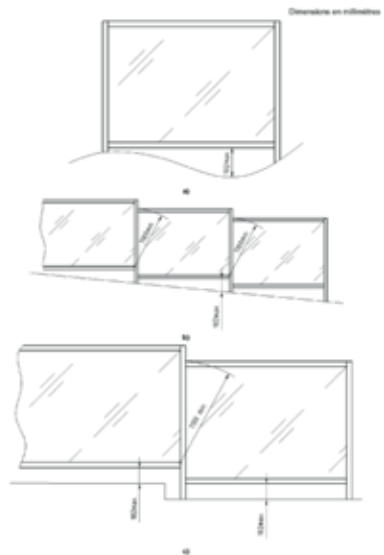
Any modification or degradation of the products of the company SADEV disengages the responsibility of our firm. In no case your distributor or the manufacturer of this barrier can be held responsible for the fall or drowning of any person or animal.

- It is recommended to install the barrier at least 1m from the water.
- For private pools for individual use, it is recommended not to install the barrier too far from the pool in order not to lose the effectiveness of the barrier.
- When the protective barrier is combined with one or more walls, these walls must not allow access to the pool through their height (minimum 1.10 m between support points) or their own openings (doors and windows closed by a childproof device).
- Whatever the profile of the ground (slope, presence of steps, etc.), the height between two support points must always be 1.10 m once the protective barrier is installed.
- It is imperative to change any deteriorated element (or set of elements).
- Ban presence of any fixed (low wall, etc.) or mobile support point and :
- on the external side of the barrier in relation to the pool: for all types of barriers (with bars or solid panels), ensure that there are no elements within a radius of 1.10 m;
- on the internal side of the barrier in relation to the pool: for barriers with bars only, ensure that there are no elements within 0.40 m of the barrier.

**GROUND ANCHORING METHOD:** the ground anchoring method must allow the permanent installation of the gate or pool barrier - the use of stainless steel screws is recommended.



Legend:  
1: Barres  
2: Non accessibles  
3: Accessoire





## SECURITY ADVICE

This barrier is intended to limit access to the pool to children under the age of five.

No type of protection will ever replace parental supervision and vigilance.

- The pool can be a serious danger for your children. Drowning can happen very quickly. Children near a pool require your constant vigilance and active supervision, even if they can swim;
- This barrier is not a substitute for common sense or individual responsibility. This barrier is not a substitute for common sense or individual responsibility. It is not intended to replace the vigilance of responsible adults, which remains the essential factor for the protection of young children. The means of access must be systematically closed in case of absence, even momentary, from home;
- In case of damage, take all measures to prevent young children from accessing the pool until the barrier or the means of access is repaired when a malfunction is observed or when the barrier is dismantled to prevent the pool from being secured;
- The presence of a parent and/or a responsible adult is essential when the pool is open.



- Learn life-saving skills
- Memorize and post near the pool the first aid numbers
- Firemen; ambulance (emergency services)
- Poison control center
- Caution! Safety is only guaranteed when the access door is closed and locked
- Check that there are no objects near the barrier that could encourage or facilitate climbing the barrier
- The closing of the means of access for self-closing systems must be systematically checked.
- The means of access must be systematically in case of any absence of supervision, including brief or momentary absence.

## MAINTENANCE

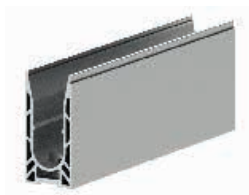
It is imperative to replace any deteriorated element or set of elements as soon as possible.

Only use parts approved by the supplier/installer.

For the maintenance of our parts, please refer to our Aluminium maintenance manual available on [sadev.com](http://sadev.com) 



## Product description



### SWIMSIDE RAIL

Ref. 0080RAIL50

#### Composition of a box



**Intermediate wedge  
+ low wedge**  
10 copies



**High wedge**  
20 copies



**Screw**  
20 copies



**Wedge**  
10 copies

Number on the black wedges	Reference	Glass composition	Glazing thickness [min.; max.]
3	0080KIT10CALE0404	4.4/2 (8 mm)	7.5 > 8.76 mm
2	0080KIT10CALE0505	5.5/2 (10 mm)	9.5 > 10.76 mm
1	0080KIT10CALE0606	6.6/2 (12 mm)	11.5 > 12.76 mm

### IMPORTANT



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

### RECOMMANDATIONS

The installation of the protective barrier must comply with these installation instructions, as well as the precautions for use and safety. Any modification or damage to the products of SADEV disengages the responsibility of our company.



## SUMMARY

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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 fastening used
- **DYNAMOMETRIC SCREWDRIVER PACK + TORX BIT**  
Ref. : 007-TRVS-1.4 NM - Tightening torque: 1.4 Nm
- **SADEV CORDLESS SCREWDRIVER**
- **LEVELING SHIMS**
- **LEVEL TOOL**
- **CLEANING SET** - Ref.: 70UT-KITNET
- **SILICONE**

## CONTROL AND PREPARATION OF THE GROUND

For safety reasons, the fixing of the protection barrier requires certain precautions.

**GROUND ANCHORING METHOD:** the ground anchoring method must allow the permanent installation of the barrier or pool fence.

Make sure to use anti-corrosion treated or stainless steel elements.

The profile must be anchored to a support capable of ensuring the rigidity of the system (slab, terrace, concrete block, etc.) using fastenings adapted to the latter and calculated according to the loads to be taken up (expansion plug, chemical plug, etc.)

The slab must have a certain thickness, necessary for the good holding of the fixing.

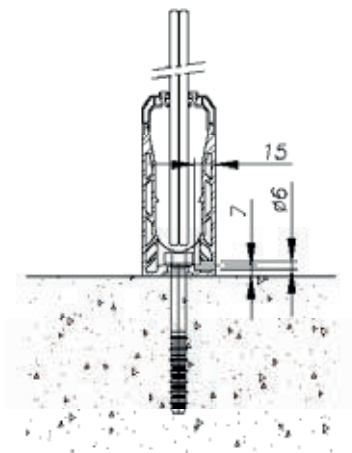
This minimum thickness will depend on the type of anchoring planned. Similarly, the distance between the edge of the slab and the anchoring point of the stiffener must not be less than a certain limit.

The sizing of expansion or chemical anchors which allow anchoring on solid or hollow bodies and guaranteeing mechanical resistance will be sized by approaching the anchor suppliers.

## HOW TO MADE A WATER DRAINAGE

Water drainage in the Swimside 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 6mm holes can be drilled on site in the plug and/or profile for water drainage.





## 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 to?

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

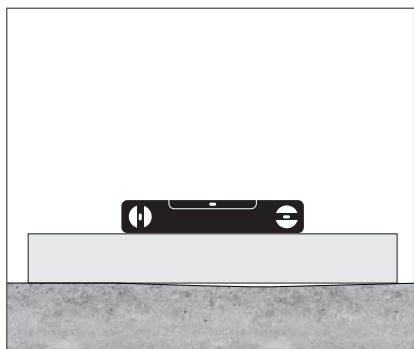


## A RAIL FIXING

### IMPORTANT INFORMATION

**The barrier should be installed at least 1 meter from the pool.**

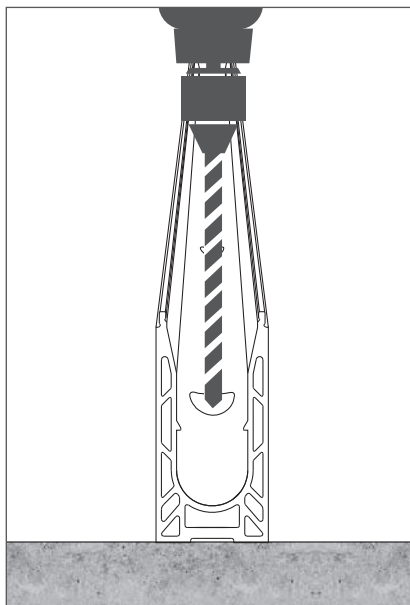
It is recommended not to install the barrier too far from the pool in order not to lose the effectiveness of the barrier.



1 - Check the flatness and conformity of the support with a ruler.

### INFORMATIONS

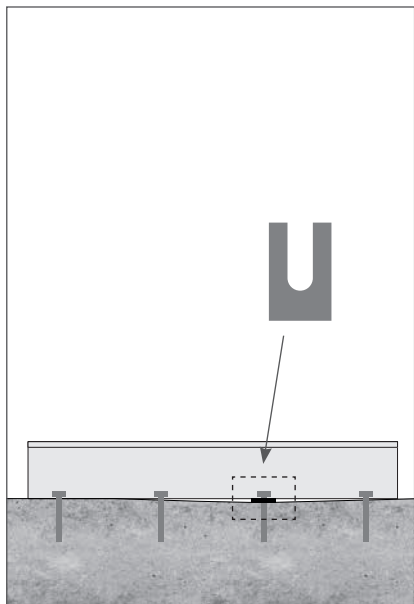
The profile must be anchored to a support capable of ensuring the rigidity of the system (slab, terrace, concrete block, etc.) using fasteners adapted to the latter and calculated according to the loads to be taken up (expansion plug, chemical plug, etc.). The use of stainless steel screws is recommended.



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

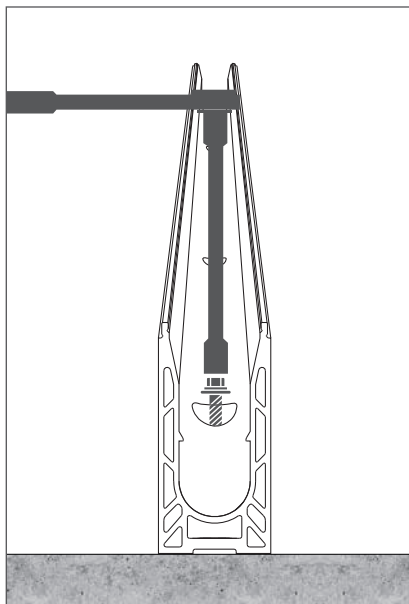


## A RAIL FIXING



3 - If the support is uneven, level the profile with the help of our SADEV wedge set.

These wedges must be placed at the level of the fastenings (it is possible to stack several of them to fill the spaces).



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

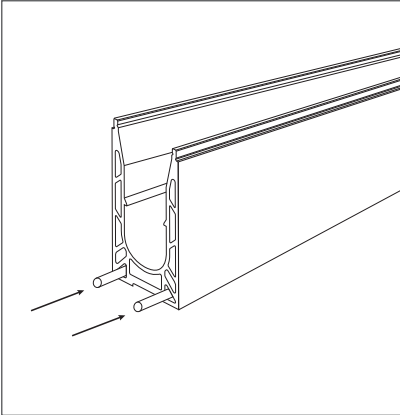
Respect the tightening torque and the mounting recommendations advised by the manufacturer.



**CAUTION:**  
*Be sure to take into account the expansion gaps between the profiles and the support.  
MORE INFORMATION ON PAGE 7.*



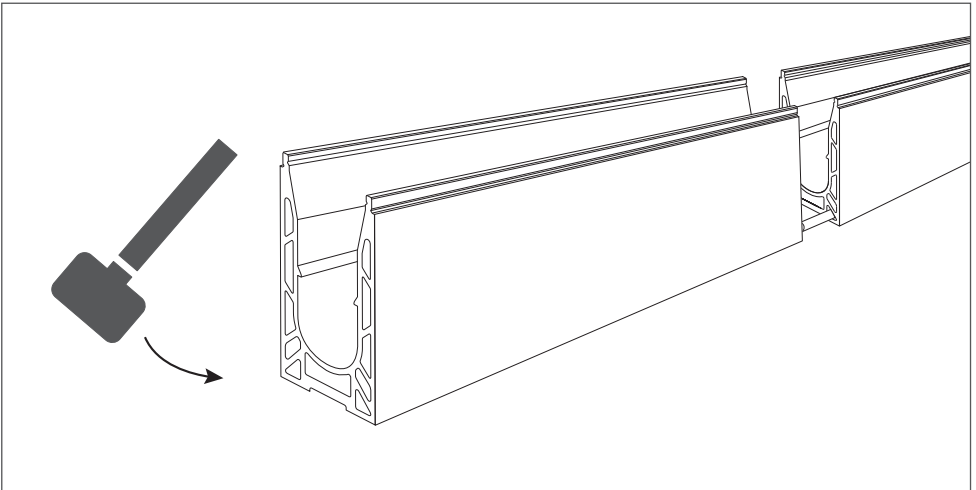
## B PROFILE CONNECTION



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

Réf. : 007PIN-06-50

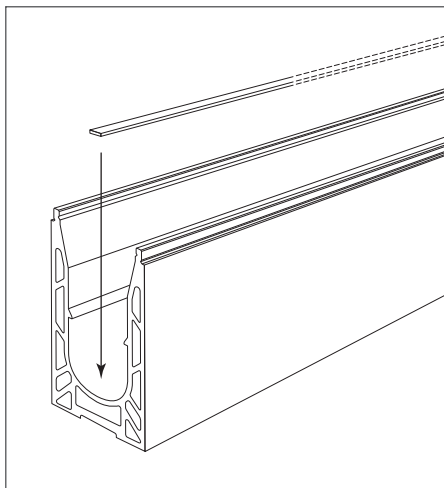
Location of spring pins



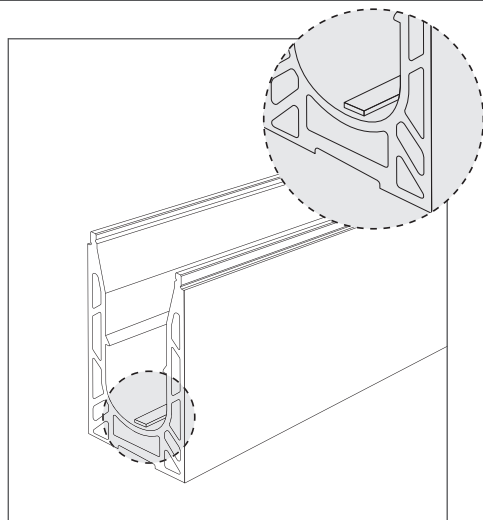
2 - Connect the rails together by using a mallet.



## OPTION - INSTALLATION OF THE LED RIBBON IN THE RAIL



1 - Glue the led strip to the bottom of the rail. Center it at the bottom of the rail.



2 - Once the banner is placed, follow the steps on the following pages.



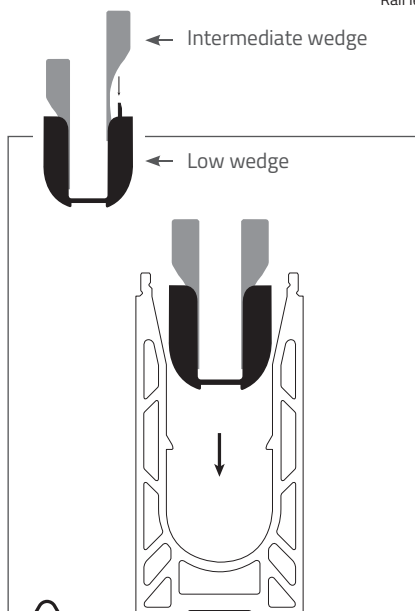
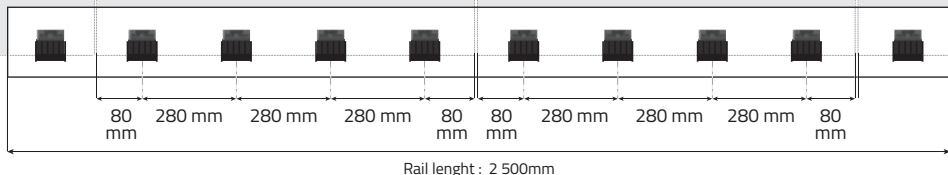
***The electrical installation for the lighting must be done by a professional electrical contractor.***

***Other rail lighting option on page 19.***

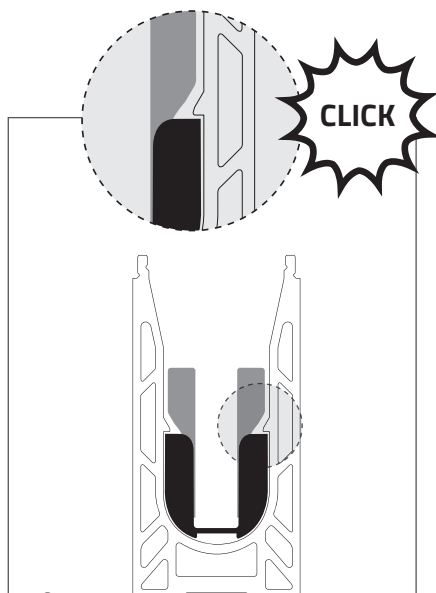


## C WEDGES ASSEMBLY

**Standard configuration for a 2.5 meter rail: 10 wedges (1 box)**  
4 wedges / linear meter even when the width of the glass is < 1 meter.



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

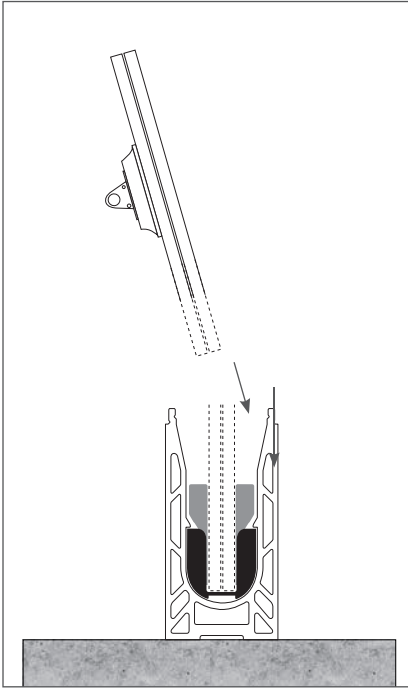


*The wedges must be correctly positioned, you should hear «a click» when you insert them.*

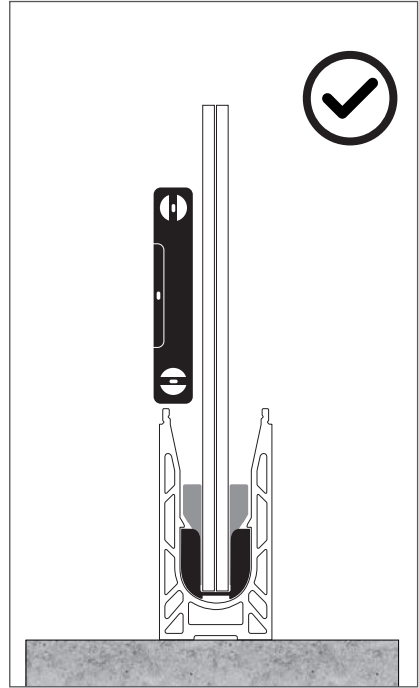
- 1 - Clean the rail with the Sadev cleaning set. Ref. : 7OUT-KITNET.
- 2 - Install the wedge in the rail.



## D GLASS INSTALLATION AND ADJUSTMENT

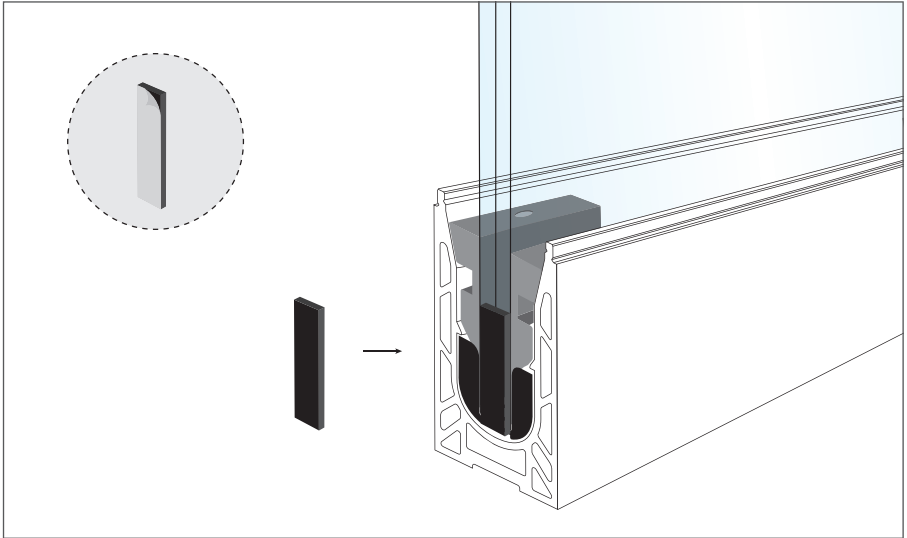


1 - Lift the glass inside the wedges.



2 - Level the glass before adding the high wedge.

## E GLASS SPACING



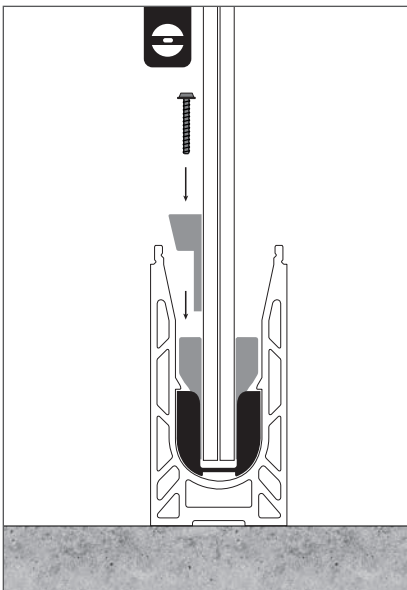
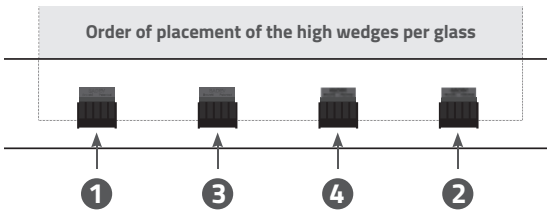
1 - Remove the protection from the adhesive. Stick the SADEV spacer on the edge of the glass, on the bottom right-hand corner flush with the glass.

The spacers have different functions:

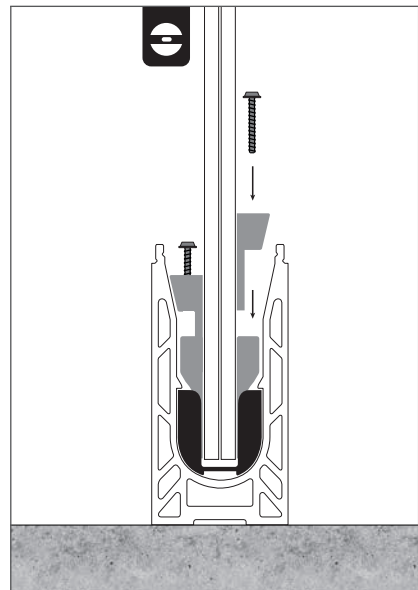
- Having a regular space between the glass panels.
- Filling the space between the glass

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...

## F INSTALLATION OF HIGH WEDGES



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



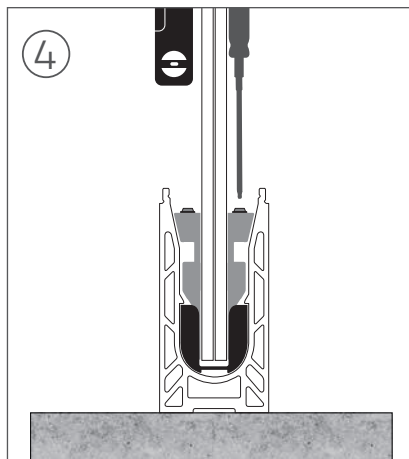
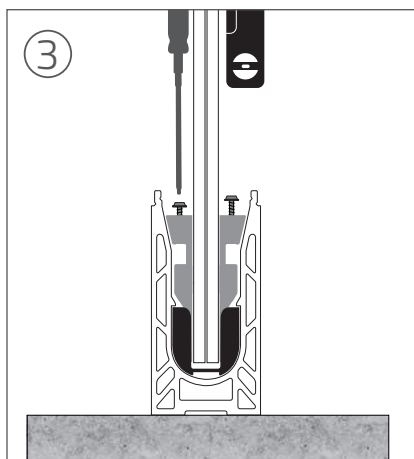
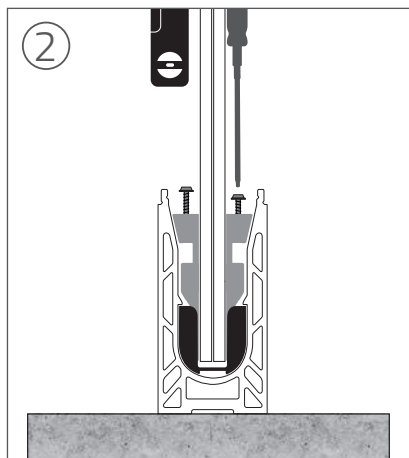
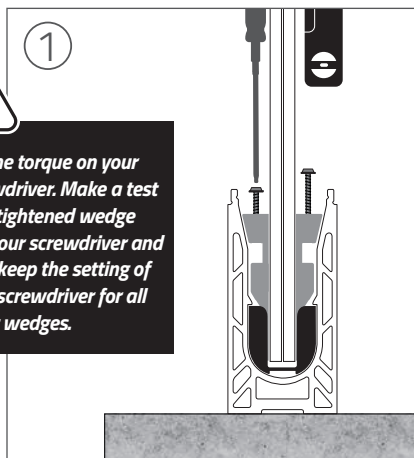
2 - Put in place the high wedges with their TORX T-20 screws on both sides of the glass, balancing the wedges to adjust the plumbness of the glass.

## G WEDGES TIGHTENING

Tightening torque: 1.4 Nm



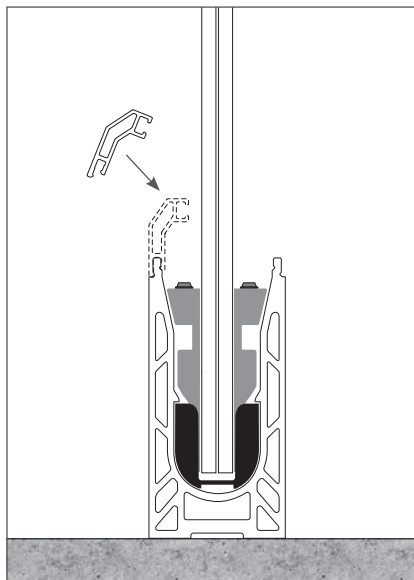
*Set the torque on your screwdriver. Make a test on a tightened wedge with our screwdriver and then keep the setting of your screwdriver for all other wedges.*



- 1 - Screw on each side of the glass as long as you do not change the level of the glass and use the SADEV torque screwdriver to finalize the tightening to the required torque: 1.4 Nm.



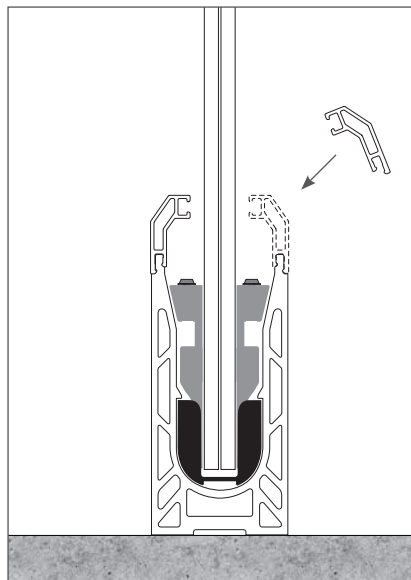
## H INSTALLATION OF CLADDING



1 - Clip the cladding on the inside and outside of the rail.

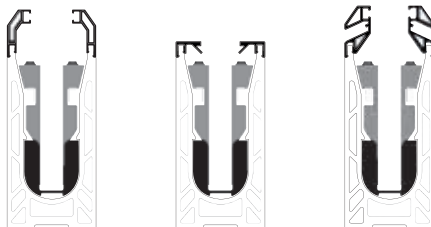


*We advise you to align the junctions of the cladding with those of the rails.*



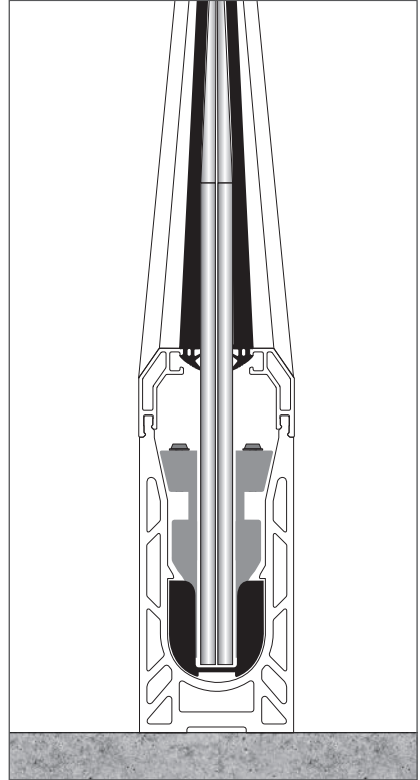
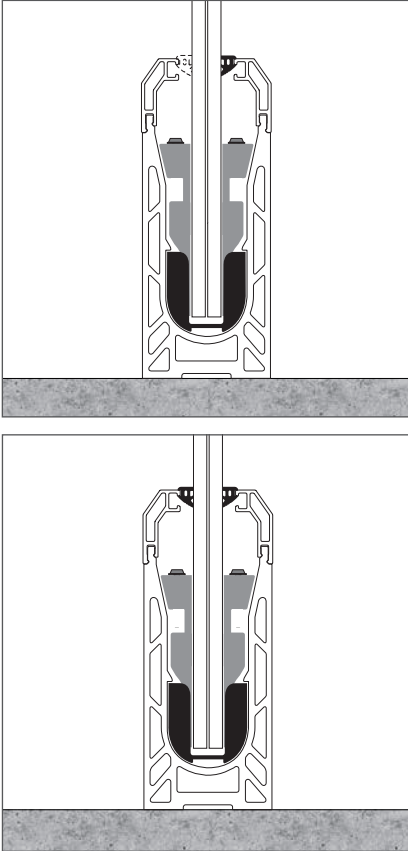
**CAUTION:**  
*Be sure to take into account the expansion gaps when installing the cladding.*  
**MORE INFORMATION ON PAGE 7.**

Other cladding configuration possible:





## I PRESS-IN GASKET ASSEMBLY



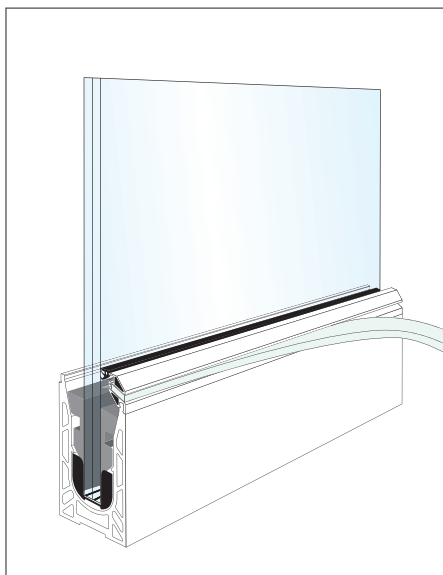
- 1 - Add the press-in gasket between the cladding and the glass by holding the cladding.
- 2 - Do not stretch the gasket by clipping it.



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

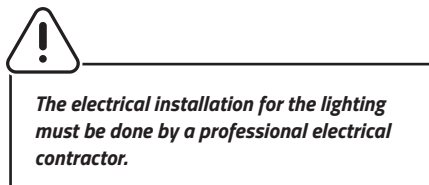
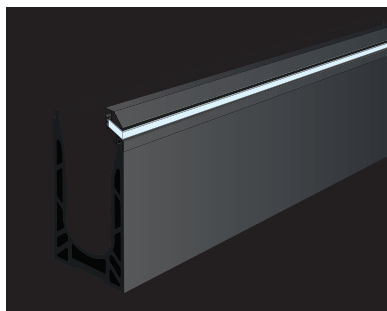
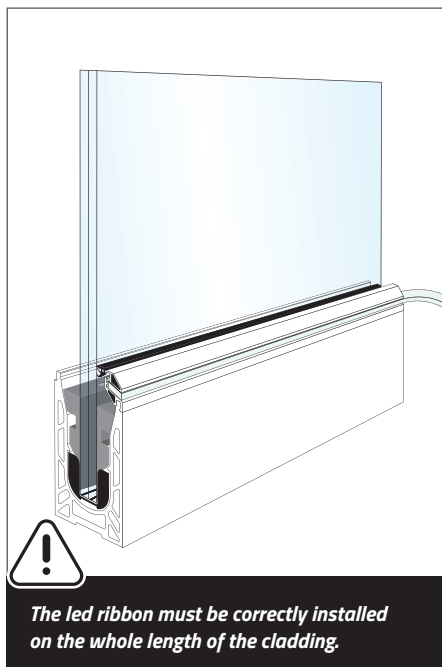


## INSTALLATION OF THE LED STRIP IN THE CLADDING



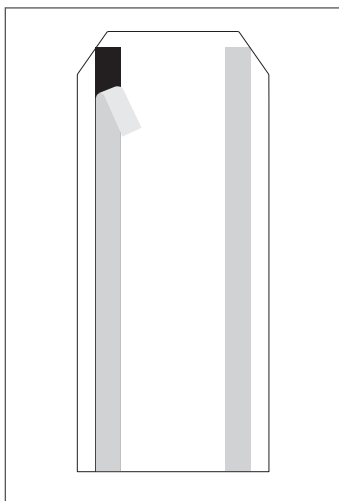
In order to secure the led ribbon, you can apply some transparent silicone dots.

- 1 - Insert the led strip (to be stuffed) inside the cladding.

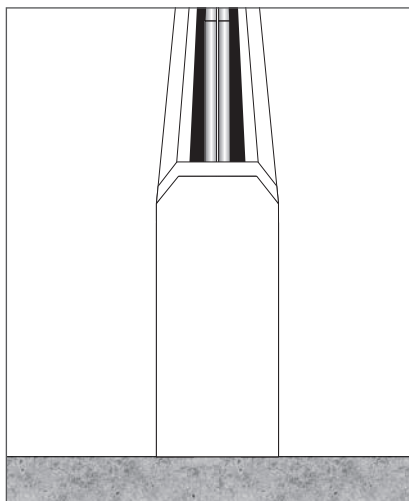




## J INSTALLATION OF END CAPS



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

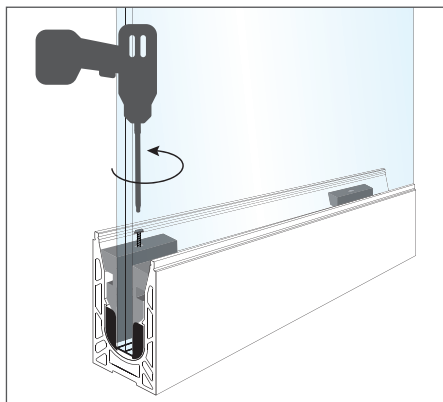


- 3 - Press the end cap at the end of the rail.

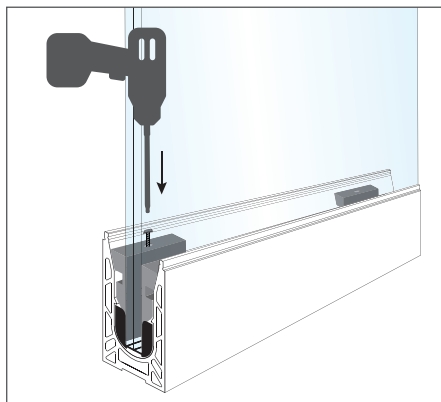
End cap		Cladding	
	Ref. 0080CE50-01	Ref. 0080CAPO260-01	
	Ref. 0080CE50-01	Ref. 0080CAPO250-01	
	Ref. 0080CE52-01	Ref. 0080CAPO252-01	



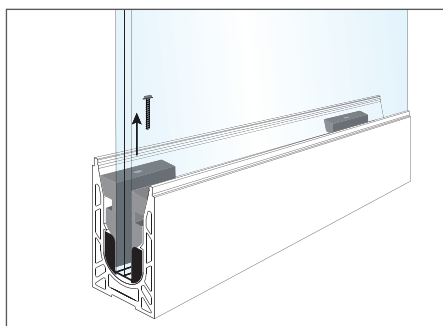
## K REMOVING WEDGES MAINTENANCE



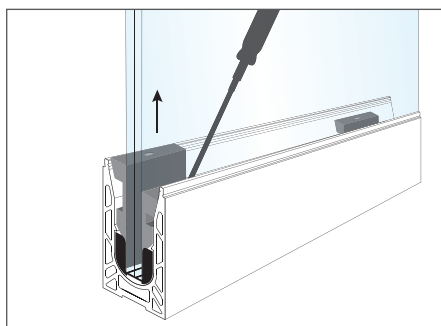
1 - After removing the cladding and gasket, unscrew the screws 1 cm high.



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

Any product installed in a corrosive environment must be replaced once dismantled.  
**They cannot be reused.**

## RECOMMANDATIONS FOR MAINTENANCE ALUMINIUM OF SADEV'S PRODUCTS

### PRECAUTIONS DURING MANUFACTURING

**From the conception of your project to delivery, all our attention is focused on the parts during manufacturing, packaging, storage, and preparation for shipment. Our teams work daily for your satisfaction.**

### PRECAUTIONS BEFORE INSTALLATION

In order to preserve the characteristics of aluminum, it is essential to store and handle it with care and work in the cleanest possible environment until the project is delivered.

It is therefore necessary to take care of the site environment and to respect certain work rules, in order to avoid, among other things:

- **Ferrous pollution:** steel particles are deposited on the aluminum when the same tools are used to work steel and then aluminum, or when steel is worked close to aluminum (welding, grinding). We recommend using different tools, especially for cutting (saw blades for example).
- **Galvanic corrosion:** alteration when a metal or alloy is electrically coupled to a metal or different alloy (e.g. Alu+ Stainless Steel / Alu + Steel).

Insulate the 2 metals with a neutral material (POM, Polyethylene, etc.) in order to limit contact.

- **Chemical pollution:** caused by the discharge of chemical products of both industrial and domestic origin. They can result in particular from the use of pesticides, detergents or even from heavy metals.

#### ▪ **WARNING:**

- Aggravating factor: the combination of the following factors: saline environment, temperature, chlorinated environment, generate an acceleration of the corrosion process. This acceleration varies according to the combination of these different factors. Precautions must be taken into consideration.
- Other pollution or corrosions are possible depending on site conditions.

▪ **WARNING:** do not use chemicals that are incompatible with aluminum, including the cleaning (e.g. chlorinated products, acids, alkaline products, etc.).

It is impossible for us to list all the types of pollution that can alter the quality of aluminum because of the multitude of factors can come into play.

## SITE CLEANING

At the end of the work, it is essential to clean any residue with water and a mild detergent (PH between 5 and 8, such as dish-washing liquid, soap), rinse with clear water, then wipe off.

**Each cleaning movement must follow the direction length of the profile.**

As aluminum and its finishes are sensitive to acidic (pH < 5) and alkaline (pH > 8) products, it is strongly recommended not to clean with household products such as:

▪ **Hydrochloric acid, soda, vinegar and alkali.**

All cleaning must be tested beforehand on a less visible part.

### **PAY ATTENTION TO THE CLEANING PROCESS:**

All cuts must be protected.

- Soft cloth or sponge without abrasive parts. Your cleaning process must imperatively take into account the polishing direction.
- Water + soap. No abrasives. The cleaning must be done within 15 days after the start of the work. It is also important to clean at the completion of work.

**ANY RE-POLLUTED AREA MUST BE RE-CLEANED.**

## ROUTINE MAINTENANCE / MAINTENANCE OF YOUR SITE

For routine maintenance, we recommend the same type of cleaning that is carried out at the completion of work, i.e. the use of soap and water, followed by rinsing with clear water and wiping.

**This must be regular and scheduled according to the type of building and its location.**

The frequency of cleaning depends on the environment and the concentration of dirt on the surface.

The more frequent the cleaning, the easier and more economical it is.

This operation can be combined with the cleaning of the glazing.

In the case of light soiling or deposits (lime-scale, sea salts, etc.), slightly abrasive cleaning products of type F, specifically developed for this application, or non-aggressive fibers coated with fine, neutral polishing powder can be used.

In the case of very heavy soiling (due to lack of maintenance) requiring renovation, it is recommended to turn to a specialized company.

REGULARLY MAINTAINED SURFACES	MODERATELY SOILED SURFACES	HEAVILY SOILED SURFACES
<ul style="list-style-type: none"> <li>▪ Washing with water with wetting agent (pH between 5 and 8)</li> <li>▪ Thoroughly rinse with clean water</li> <li>▪ Wiping with a soft, absorbent cloth</li> </ul>	<ul style="list-style-type: none"> <li>▪ Washing with water with a «cleaner and shine remover» added</li> <li>▪ Thoroughly rinse with clean water</li> <li>▪ Wiping with a soft, absorbent cloth</li> </ul>	<ul style="list-style-type: none"> <li>▪ Contact a specialist company</li> </ul>

## FREQUENCY OF CLEANING (As an indication)

IN RURAL OR SPARSELY POPULATED URBAN AREAS	IN URBAN, INDUSTRIAL OR MARINE ENVIRONMENTS	THE CLEANING OF PARTS NOT NATURALLY WASHED BY RAINWATER
<ul style="list-style-type: none"> <li>▪ Where there are no aggressive elements in the environment, the frequency of maintenance for surfaces regularly washed by rainwater is generally annual.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Require quarterly or semi-annual maintenance depending on the amount of product exposure.</li> </ul> <p>In areas close to chemical industries or by the sea, the operation should be repeated every month to avoid stains caused by salt or other corrosive materials.</p>	<ul style="list-style-type: none"> <li>▪ (Areas with high traffic and high loads such as building entrances, shop fronts, etc.) must be carried out more frequently than for exposed surfaces.</li> </ul>

**Reference:**

<https://www.aluminum.fr/aluminum/proprietes-aluminum>

<https://www.lenntech.fr/periodique/elements/al.htm>

<https://www.futura-sciences.com/sciences/definitions/chimie-aluminum-14515/>

<https://www.adal-aluminum.fr/entretien-de-laluminum-anodise/>











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