

SABCO SADEV BALUSTRADE CONCEPT

INSTALLATION GUIDE





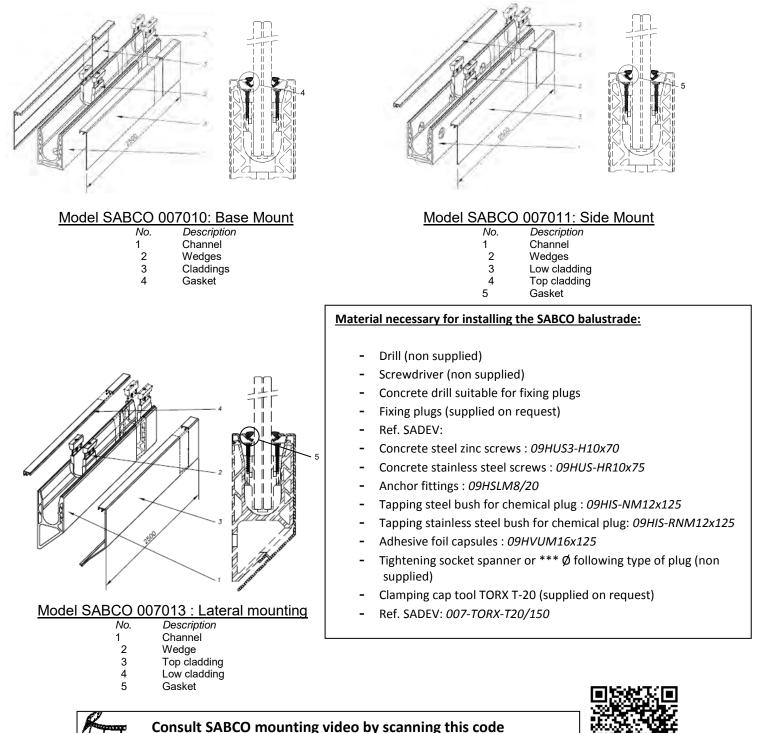
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Introduction

The instructions below must be followed on their entirety to assume the correct implementation of SABCO. Please refer to the French Technical Assessment SADEV in case of any doubt.

This balustrade System has been engineered and designed to make the installation as easy as possible. SADEV cannot be held responsible for any issues arising if the guidelines in this document are not fully adhered to.

Balustrade Components:



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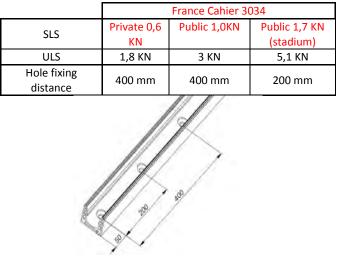
1/ Channel installation (drilling, adjustment, tightening):

Reminder of the distance between channel fixing plugs depending on installation type:

 $igtsymbol{\Delta}$ Only center distances checked on the calculation note anchors are using (layout, type of concrete, ...)

Example for France. Please refer to your national legislation

- Floor mounting :
 - o SABCO model ref. 007010

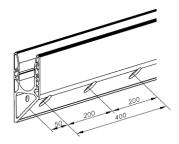


- Lateral mounting :
 - o SABCO Model ref. 007011

	France Cahier 3034		
SLS	Private 0,6 KN	Public 1,0KN	
ULS	1,8 KN	3 KN	
Hole fixing distance	200 mm	200 mm	
	200 000	\leq	

o SABCO Model ref. 007013

	France Cahier 3034		
SLS	Private 0,6 KN	Public 1,0KN	Public 1,7 KN (stadium)
ULS	1,8 KN	3 KN	5,1 KN
Hole fixing distance	400 mm	400 mm	200 mm



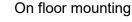


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After locating your balustrade channels,

1 : Use the correct size and type of drill Bit for the fixings being installed.





Lateral mounting



2:2 : Fix and adjust channels (prop up the channel if necessary) using a torque wrench up to the torque recommended by fixing's manufacturer.



Floor Mounting



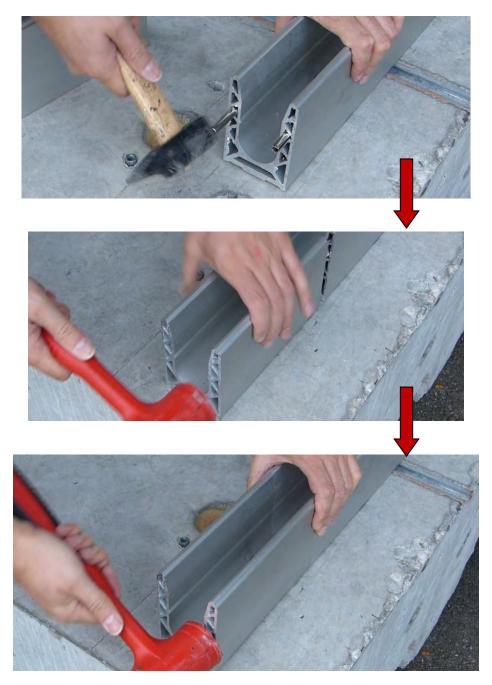


Slab Mounting

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3 : Link-up between channels

Insert 2 jointing pins Ø8 x 50 ref. SADEV: *D1481A2-8-50* into the channel profile and then hammer the channels together using a soft mallet.





Consult SABCO mounting video by scanning this code





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2/ Installation of lower wedges in the channel and installation up of the glass

Wedges mounted with components

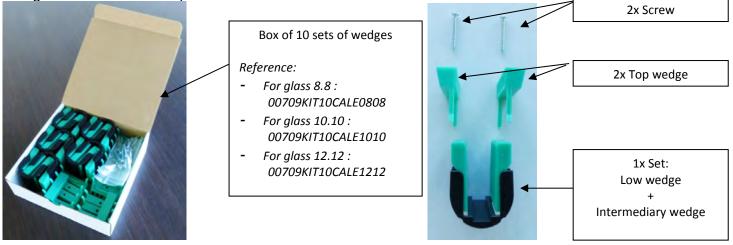


Table showing the wedges colors per glass thickness with tolerances:

Wedges colors	Size of wedges	Glass thickness
GREY	15	$15\frac{0}{-0.5}$
WHITE	8.8	$16,76\frac{0}{-0.5}$ $17,52\frac{0}{0.5}$
GREEN	10.10	$ \frac{17,52 \frac{0}{-0.5}}{20,76 \frac{0}{-0.5}} $ $ 21,52 \frac{0}{-0.5} $ $ 13/16'' (20,6375 \frac{0}{-0.5}) $
YELLOW	12.12	$ \begin{array}{r} 24,76 & \frac{0}{-0.5} \\ 25 & \frac{0}{-0.5} \\ 25,52 & \frac{0}{-0.5} \\ \end{array} $

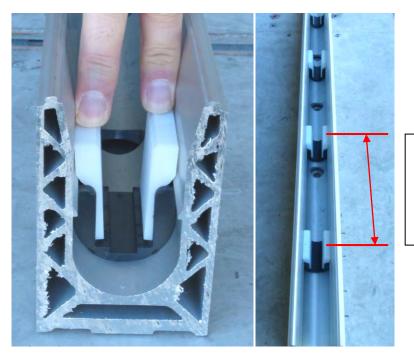
Table showing the distribution of wedges following the type of application of SABCO balustrade and the type of glazing *Example for France. Please refer to your national legislation*

Example of installation Wedges quantity calculation: 1,35*5=6,75 (hence 7 wedges)

SABCO Glass layer Application (L : glass v		-			
Dalustiaue			0,5m ≤ L < 1m	L≥1m	
	PVB				1350
007010	Trosifol ES	Private	4 wedges	4 wedges /	
007011	DG41	ERP	4 weages	lm	
007012	EVA				00
007013	SERAC	Private	5 wedges	5 wedges / Im	H=1100 W=1072
	PVB				
007010	Trosifol ES			5 wedges /	Zone de stationnement
007013	EVA	Stadium	5 wedges	Im	50 mini 50 mi
	SERAC				

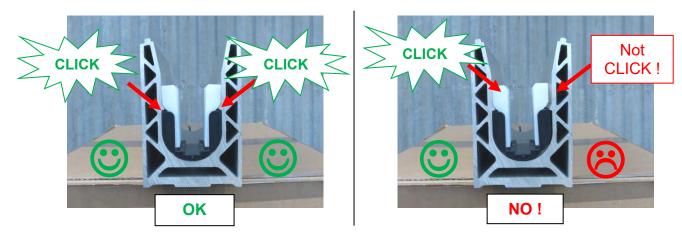
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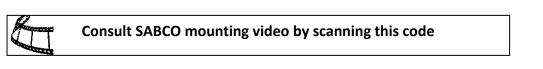
1: Install the lower wedges into the channel following the number of wedges recommended for the specific balustrade application, type and dimensions of glazing.



Spacing should follow that recommended. See table page 6.

Warning! Wedges must be correctly positioned; you must hear a "click" when you insert the lower wedges.









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2: Glass Installation inside the channel:

Double check that the glass thickness matches the wedges inserted before installing the glass inside the channel



Possible balustrade adjustment to achieve the perpendicularity of the glass with the floor.





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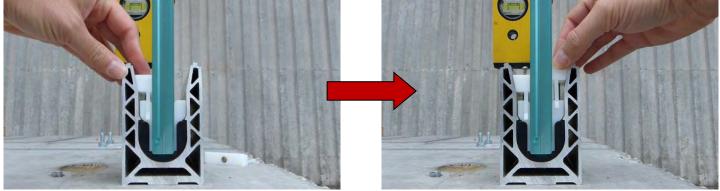
3/ Installation of top wedges, adjustment and clamping of the wedges





Consult SABCO mounting video by scanning this code

1: Insert the top wedges complete with TORX T-20 screws to each side of the glazing. While stabilizing the top wedges adjust the glass (use a spirit level to help positioning the glazing).

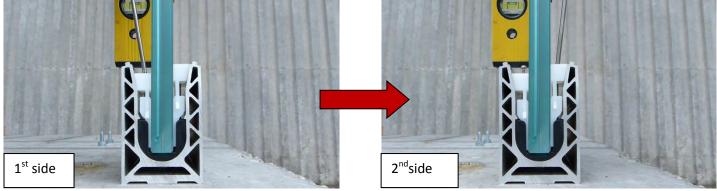


2 : Tightening of the wedges :

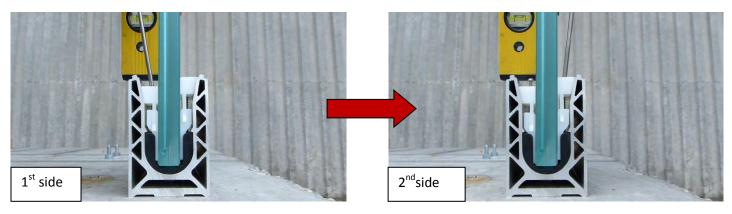
1st tighten wedges on each side of the glass in order to remove lateral movement. Equally **balance the tightening of each side in order to keep the glass in position.**

Tightening is achieved using a cordless screw driver equipped with an end tool piece TORX T-20

APlease adjust the torque on your screwdriver to avoid damage to the screws'head. Wedges should initially be tightened, alternating from one side to the other:



- Final tightening should follow the same pattern until there is no movement and the glass is set vertical.



Minimum tightening: 1,5 Nm Maximum tightening: 3 Nm



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3: Control:

Using a torque screwdriver calibrated at 1.5Nm minimum and 3Nm maximum, check the final tightening of wedges.

For all types and thicknesses of glass, the top wedge must be firmly in contact with the lower wedge.



4/ Space between glasses

Spacers between glasses: *Reference SADEV :*

- For glass 8.8 : 007090ESPAC0808
- For glass 10.10 : 007090ESPAC1010
- For glass 12.12 : 007090ESPAC1212

Spacers have to be glued on the side of the glass on the lower edge near to the corner and serve to equally space out each glass panel.

The standard spacer thickness is 5mm. In the case that space required between glasses is higher than 5mm, it is possible to stick spacers to each other in order to make a 10mm or 15 mm.







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5/ Finally: Installation of claddings and gasket

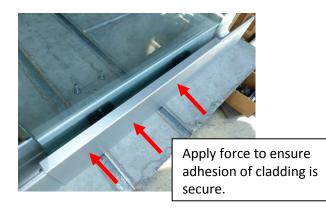
1: Remove the adhesive's protective film.



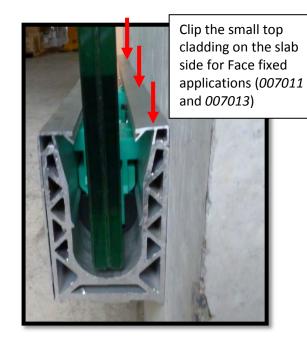
If the profile is dirty, clean it with water

2: Installation of the claddings Clip the top of the cladding and glue the bottom of the cladding











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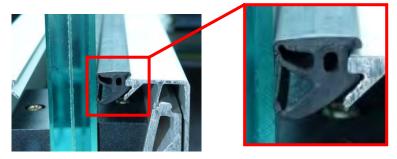
3: Installation of the sealing gasket:

Sealing Gasket range: *Reference SADEV:*

- For glass 8.8 : 007090JOIN0808
- For glass 10.10 : 007090JOIN1010
- For glass 12.12 : 007090JOIN1212



Warning, the Gasket must be inserted correctly.

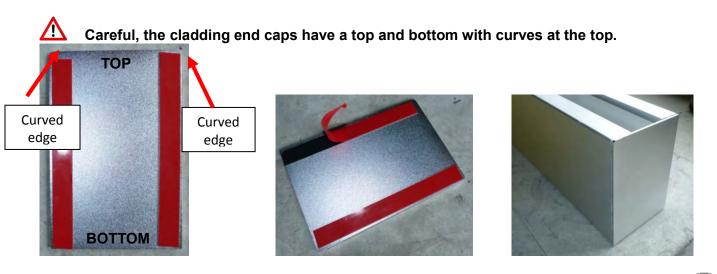


Install the gasket applying a vertical force. The length required may vary due to temperature.





4: Installation of the cladding end cap



Remove the adhesive protective film and glue the end cap at the extremity of the channel.



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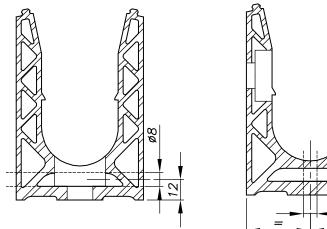
5/ Drainage

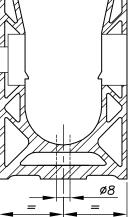
The achievement of drainage in the balustrade is made by drilling the aluminium profile and the end cap claddings following drawings hereunder.

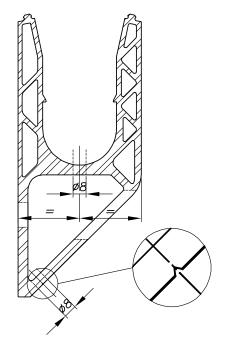
The profile should be mounted straight and without bends, the water escape naturally from each parts of the profile.

Holes of Ø8mm can be drilled in the end cap cladding and/or in the profile on the site for water evacuation depending on the scenario.

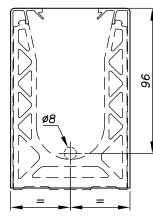
1: Drilling of the SABCO balustrade channel for drainage:

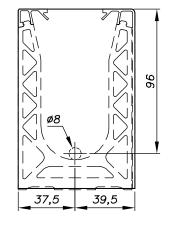


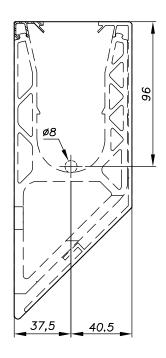




2: Drilling of the end cap cladding of SABCO balustrade for drainage:





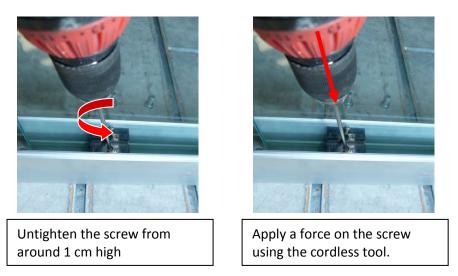




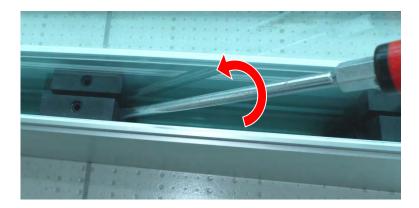
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6/ Dismounting the clamping wedges / maintenance

1: After removing the cladding and gaskets, unscrew the screw by 1 cm then apply a force onto the screw with the cordless screwdriver allowing the intermediary wedge drop.



2: Finish releasing the screw and remove it, then with the help of a screwdriver, make a lever movement between the intermediary and the top wedge in order to remove the top wedge.



- 3 : Once the top wedge has been removed from the channel, take out the glass
- 4 : Replace all the wedges as these are not designed to be re-used.



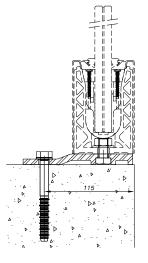
Consult SABCO mounting video by scanning this code



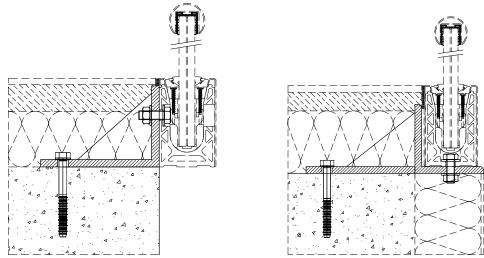


7/ Optional possible applications

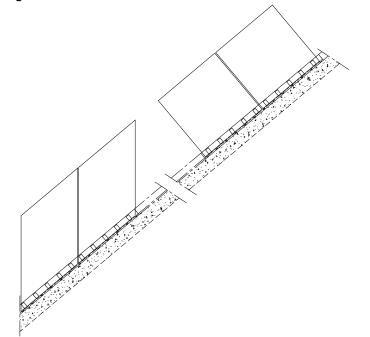
1 : Offset fixings with SADEV sole, ref. SADEV: 007090SEM01.



2 : Offset fixings with custom bracket:



3: 2 possible alternative configurations :





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