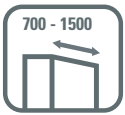
General data and door discounts

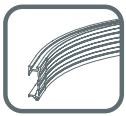
MAX DOOR WEIGHT

MAX WEIGHT IN STACKING AREA

DOOR THICHNESS

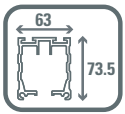


MAX DOOR WIDTH

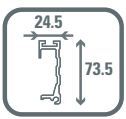


CURVES 90° SIGMA

PEOPLE NEEDED FOR INSTALLATION



FULL TRACK



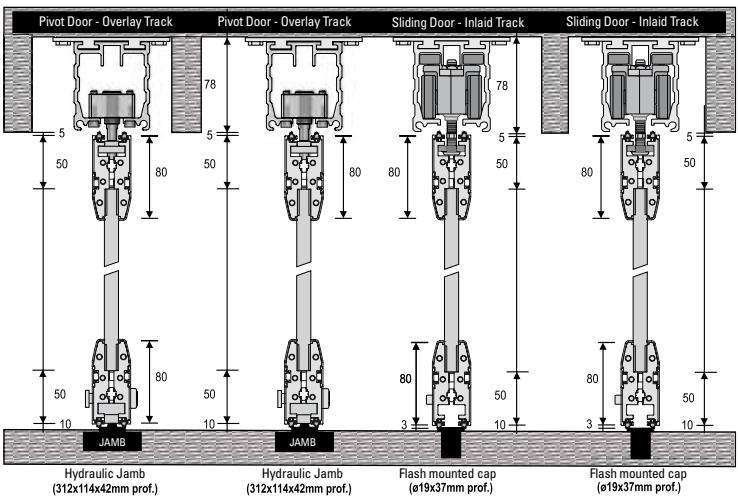
HALF TRACK

FULL TRACK BRACKET
HALF TRACK BRACKET

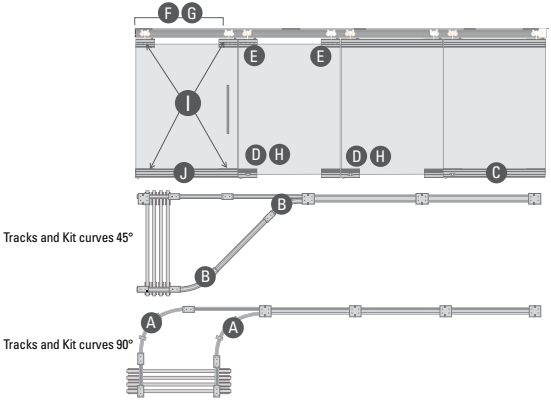
CURVES 45° SIGMA

Discounts for door height

Use with tempered glass



Detail of parts and pieces



Tracks and Kit curves 45°

Tracks and Kit curves 90°

A KIT CURVES 90° SIGMA

1	Curve C1' 90°
1	Curve C2' 90°
8	Track pins
3	Sigma stoppers
6	MR brackets 20mm
1	Right half track cap
2	Full track caps
1	Left half track cap
3	Bolts

B KIT CURVES 45° SIGMA

1	Curve C1 45°
1	Curve C2 45°
8	Track pins
3	Sigma stoppers
1	Left half track cap
2	Full track caps
1	Right half track cap
3	Bolts

C KIT CLAMP FASCIA LOCK DOOR

2	Upper fascias
1	Smooth fascia
1	Lock fascia

D KIT LOCK CLAMP VD

2	Lower clamps
1	Kit alignment clamp PA
1	Key deadbolt cylinder
1	Key deadbolt mechanism
1	Key deadbolt guide
2	Keys deadbolt spacer
4	Hubs VD (8-10mm y 12-13mm)
1	Allen key 3 & 4mm
1	Inlaid cap
2	Spacers 43mm
1	Spacer 164mm
2	Clean kit
2	Adhesives

E KIT CARRIER CLAMP SIGMA

2	Sigma carriers
2	Upper clamps
1	Segmenta key
1	Kit clamp caps PA
4	Hubs VD (8-10mm y 12-13mm)
1	Allen key 3 & 4mm
2	Clean kit

F KIT TRACK PIVOT DOOR 90°

1	MRL
1	Full track pivot
1	Full track bracket
1	MR bracket 20mm
1	Track pins
2	Bolts M5x25
1	Allen key 3mm
1	Allen key 4mm

G KIT TRACK PIVOT DOOR 45°

1	Full track pivot
1	Full track bracket
2	Bolts M5x25
1	Allen key 3mm
1	Allen key 4mm

H KIT LATCH CLAMP VD

2	Lower clamps
1	Kit Door aligner clamp PA
1	Latch cylinder
4	Hubs VD (8-10mm y 12-13mm)
1	Key deadbolt mechanism
1	Key deadbolt guide
2	Key deadbolt centralizer
1	Allen key 3 & 4mm
1	Inlaid cap
2	Spacer 43mm
1	Spacer 164mm
2	Clean kit
2	Adhesives

KIT CLAMP FASCIA DOOR 1500

4	Smooth fascia

* For AP> 1400, buy Kit CM Door 1500 and do manual machining.

NECESSARY TOOLS

Drill
Drill bits ø3 / ø6 / ø19 / ø35
Plumb line
Screw driver
Measuring tape

***Kits are OPTIONAL in case of having a Kit Pivot Door in Sigma VD**

I KIT PIVOT DOOR VD

1	Pivot clamp
1	Door jamb clamp
1	Upper clamp
1	Lower clamp
1	Upper pivot set
4	Left end caps PA
4	Right caps PA
2	Kits clamp cap ZK
1	Cilindro cerradura/picaporte
1	Key deadbolt mechanism
2	Key deadbolt centralizer
1	Key deadbolt guide
1	Inlaid cap
4	Hubs VD (8-10mm y 12-13mm)
2	Spacers 43mm
1	Segmenta key
1	Allen key 3 & 4mm
4	Clean kit
4	Adhesives

J KIT CLAMP FASCIA PIVOT DOOR VD

2	Smooth fascias
1	Left key deadbolt fascia
1	Right key deadbolt fascia

*Maximum door width of 1400mm.

IMPORTANT

The perpendicular stacking system (curves 45°) always considers a passage pivot door between both spaces. That way, it is not necessary to have to stack the whole system to be able to pass through them.

In the parallel stacking system (curves 90°) it is possible to do without this door and use a fixed panel.

For configurations with pivot door should be considered the "Kit pivot door VD" + the "Kit pivot door Sigma 45° " or "Kit pivot door Sigma 90 °" as appropriate.

* DOOR HANDLES NOT INCLUDED

As a first step, the N° of doors and opening divisions in equal segments must be defined, making sure that the door width stays within the recommended widths.

PERPENDICULAR DOOR STACKING (WITH KIT CURVES 45°)

- In this type of perpendicular configuration, the door width (DW) must be verified in the table shown below. The width must be within the allowed range (min-max) according with the number of doors defined. Otherwise, the number of panels in the opening must be changed.

N° doors *(ND)	Min. door width (mm)	Max. door width (mm)	Min. opening width (mm)	Max. opening width (mm)	***Maximum weight of the system
3	700	1.500	2.100 + 3(np-1)	4.500 + 3(np-1)	120 (np-1)
4	700	1.500	2.800 + 3(np-1)	6.000 + 3(np-1)	120 (np-1)
5	752	1.500	3.758 + 3(np-1)	7.500 + 3(np-1)	120 (np-1)
6	837	1.500	5.020 + 3(np-1)	9.000 + 3(np-1)	120 (np-1)
7	922	1.500	6.451 + 3(np-1)	10.500 + 3(np-1)	120 (np-1)
8	1.007	1.500	8.053 + 3(np-1)	12.000 + 3(np-1)	120 (np-1)
9	1.092	1.500	9.825 + 3(np-1)	13.500 + 3(np-1)	120 (np-1)
10	1.177	1.500	11.766 + 3(np-1)	15.000 + 3(np-1)	120 (np-1)

* = Number of doors.
** All measurements are in mm.
*** The system's maximum weight does not consider the pivot door, since it goes mounted in the hydraulic jamb.

Track length and parts identification

- Cut the tracks according with the following formulas, starting from the opening size and in the order indicated by numbers 1 through 6. (Fig. 1).

AP = **Door Width**
MRC = **Short Half Track**
MRD = **Diagonal Half Track**
MRL = **Long Half Track**
RC = **Full Track**
C1 = **Curve 1**
C2 = **Curve 2**
CRC = **Full Track Bracket**
CMR = **Half Track Bracket**
nP = **N° Doors**
AV = **Opening Width**
DR = **Inside distance between SHT and LHT**
e = **Door Thickness**

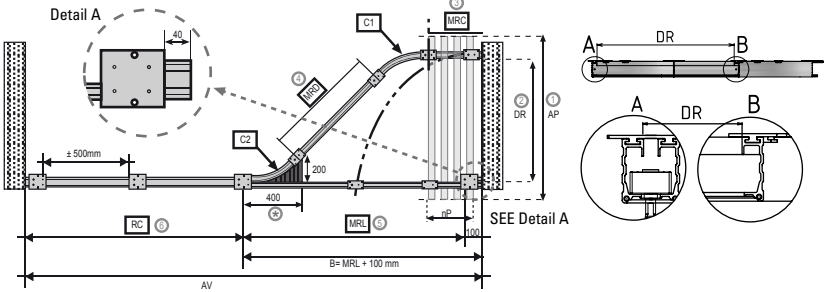
BRACKETS:
Use a track bracket (half-track and full track) in each track joint, and every 500mm as a reinforcement as needed.

Nº CMR: 6 units minimum.

Nº CRC: 1 for joint C2 with FT + 1 every 500mm + 1 upper pivot.

In the case of installations with stacking on both sides, divide the opening in half and use it as the new opening width to apply the shown formulas.

Fig. 1



(*) Counter-turn adjustment zone (inset system): Only when the track system goes inset in the ceiling, this zone must be left free in order to adjust the track counter-turn. It can include a termination cap that may be taken out in case of needing an adjustment.

Formulas to calculate the length of the tracks (expressed in mm)

- Define the measurements of the opening (width and height) and the door thickness (DT).
- Then, define the number of doors (nD) dividing the opening in equal segments.

	AV = ☐ nP = ☐	
1	$AP = \frac{AV - 3nP - 7}{nP}$	$AP = \frac{\square - \square - 7}{\square} = \square$
2	DR = AP - 162	DR = ☐ - 162 = ☐
3	$MRD = \frac{DR - 308}{0{,}707}$	$MRD = \frac{\square - 308}{0{,}707} = \square$
	Si AP ≥ nP x 290	
4	$MRC = (85nP + 50) + \frac{AP}{6.38}$	$MRC = \square + 50 + \frac{\square}{6.38} = \square$
5	MRL = MRC + AP + 152	MRL = ☐ + ☐ + 152 = ☐
6	RC = AV - MRL - 110	RC = ☐ - ☐ - 110 = ☐
	Si (*) = AP < nP x 290	
4'	(*) MRC' = 85nP + 50	(*)MRC´ = ☐ + 50 = ☐
5'	(*) MRL' = MRC' + AP + 152	(*)MRL´ = ☐ + ☐ + 152 = ☐
6'	(*) RC' = AV - MRL' - 110	(*)RC´ = ☐ - ☐ - 110 = ☐

step 1

Track set-up according to stacking type

IMPORTANT

- The surface on which the track system is installed must be sturdy enough to withstand the weight of all the panels in the stacking area.

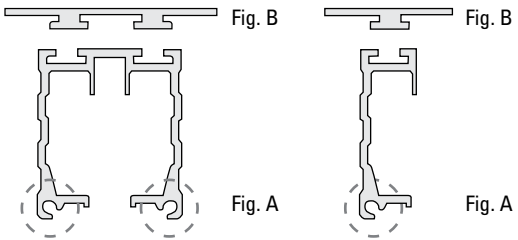
- Verify type of ceiling fixing point and how it could affect the structure.

- Do not install on fake ceiling.

- Verify that the floor is leveled in order to avoid subsequent problems with the movement and panel stacking.

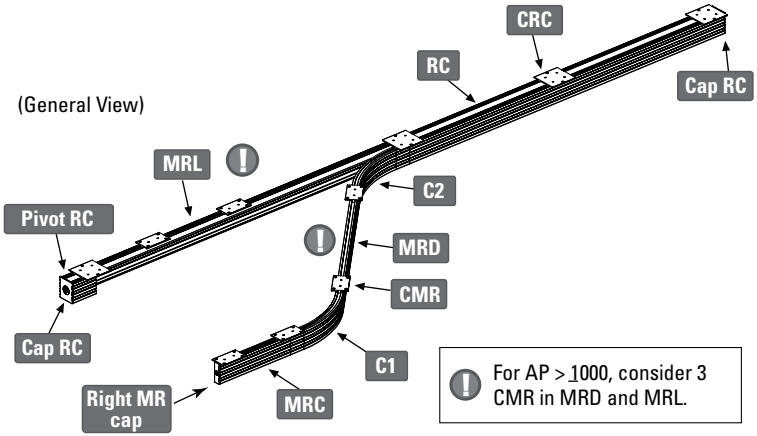
- Set up the track system on the floor before installing on the ceiling, having the carriers already mounted. Remember to place in each track joint (Full Track or Half Track) a track pin in the lower circular channel (fig. 4), tightly inserting the striated side first.

- On the upper part, assemble the right bracket (fig. 5), leaving half of it on each side, and fixing the position with the setscrews.



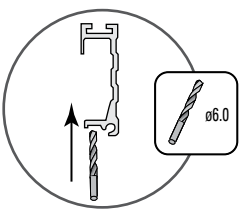
Perpendicular door stacking
(with Kit curves 45°)

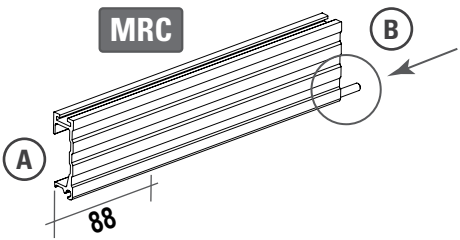
(General View)



A. Drill with ø 6mm drill bit the Short Half Track, at the distance indicated in the drawing, according with the door thickness.

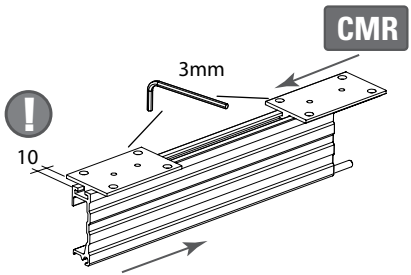
B. Install the track pin.





SET-UP N°1

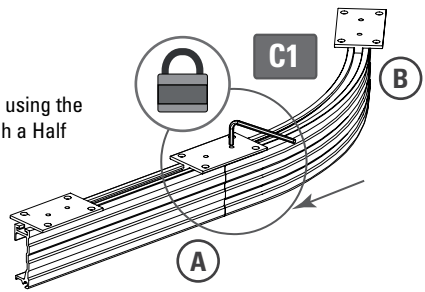
- Place Half Track Bracket in the Short Half Track, leaving 10mm at the edge. Fix with 3mm Allen key.



SET-UP N°2

A. Assemble Curve 1 with set-up N°1, using the Allen key to fix both profiles through a Half Track Bracket.

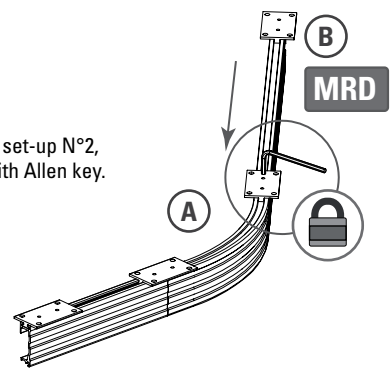
B. Place Half Track Bracket on the other side.

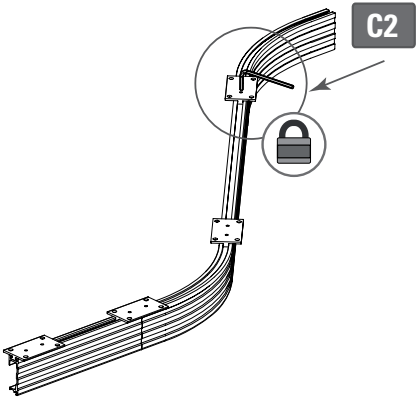


SET-UP N°3

A. Assemble Diagonal Half Track with set-up N°2, with a Half Track Bracket and fix with Allen key.

B. Place Half Track Bracket on the other side.





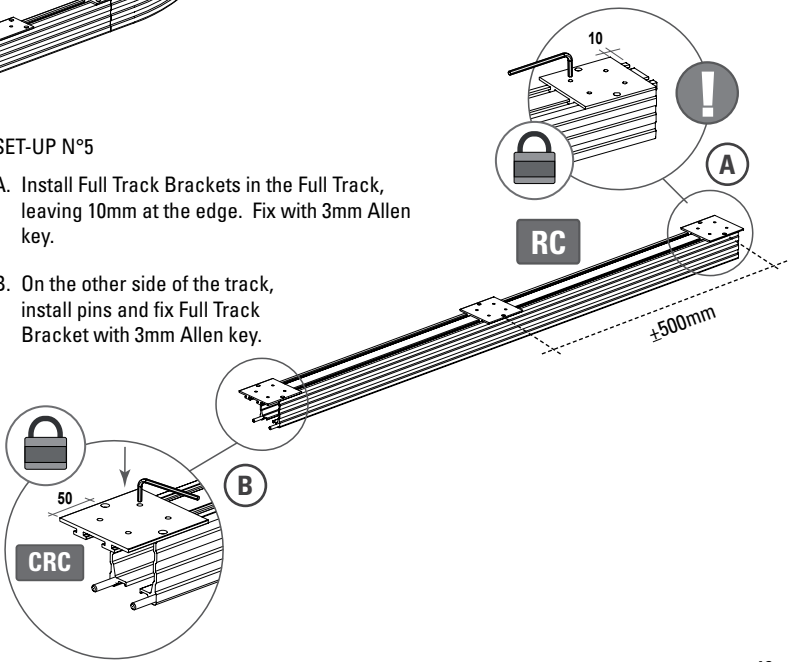
SET-UP N°4

- Assemble curve 2 with set-up n°3 and fix Half Track Bracket with Allen key.

SET-UP N°5

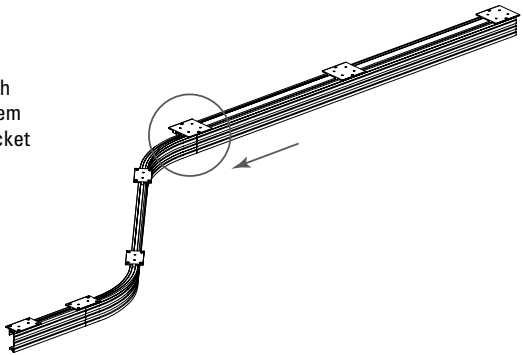
A. Install Full Track Brackets in the Full Track, leaving 10mm at the edge. Fix with 3mm Allen key.

B. On the other side of the track, install pins and fix Full Track Bracket with 3mm Allen key.



SET-UP N°6

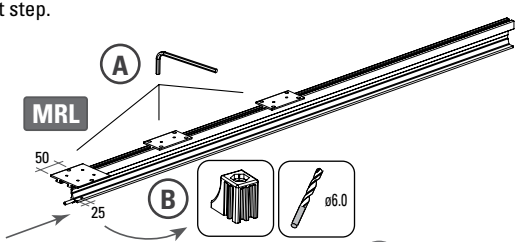
- Assemble set-up N°4 with set-up N°5, connecting them both with a Full Track Bracket and fixing them with 3mm Allen key.



SET-UP N°7

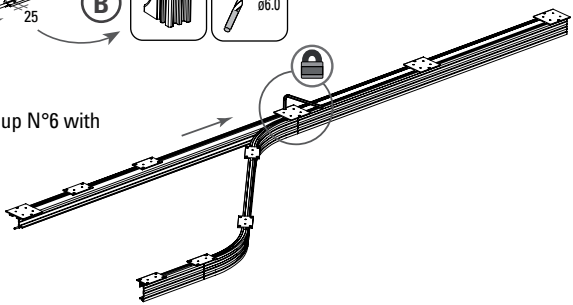
A. Place Half Track Brackets on Long Half Track and fix with 3mm Allen key.

B. Fix a Full Track Bracket at the end, and drill the track according with the measurements indicated in the drawing. Then, place a Sigma Stopper in the next step.



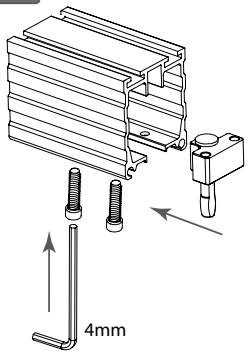
SET-UP N°8

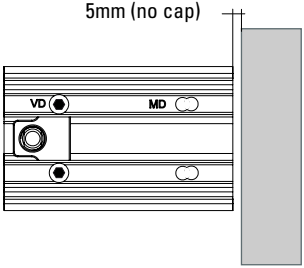
- Assemble set-up N°6 with set-up N°7.



- Once the main structure has been set up, the upper pivot set of the Pivot Door MD Kit must be inserted in the Full Track Pivot of the Kit Track Pivot Door Sigma 45°, and fix its bolts with 4mm Allen key.
- Then, drill and insert Sigma Stopper.

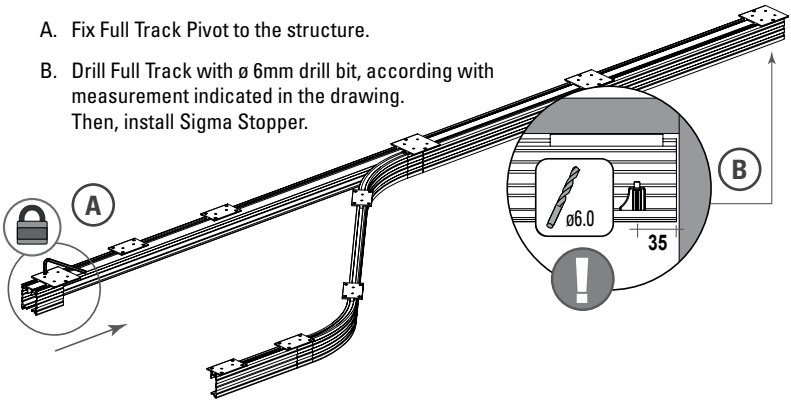
Pivot RC





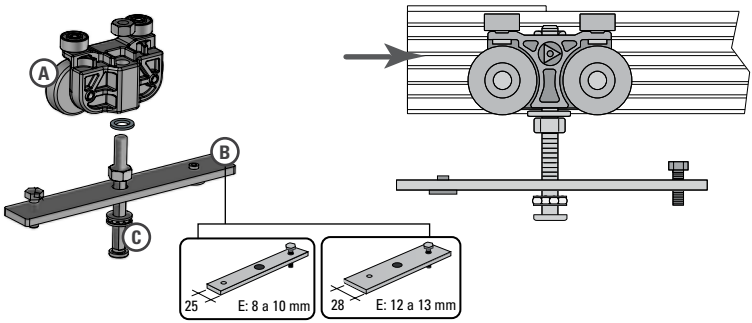
A. Fix Full Track Pivot to the structure.

B. Drill Full Track with ø 6mm drill bit, according with measurement indicated in the drawing.
Then, install Sigma Stopper.

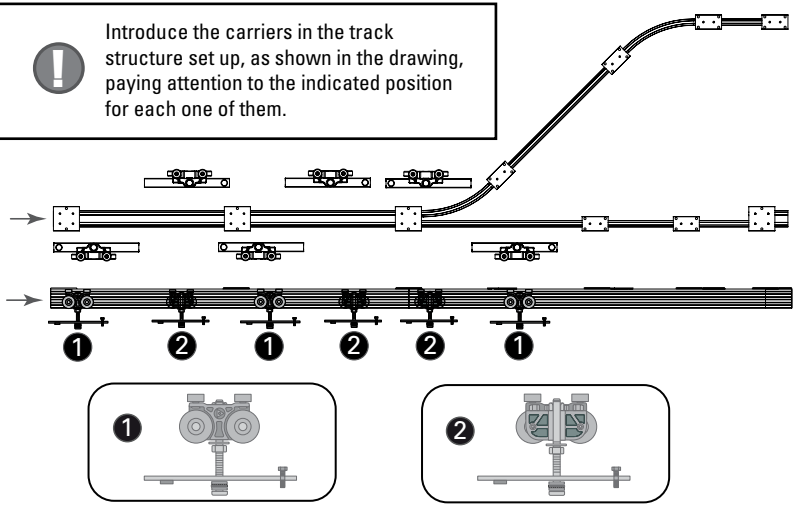


Armed and assembly of carriers:

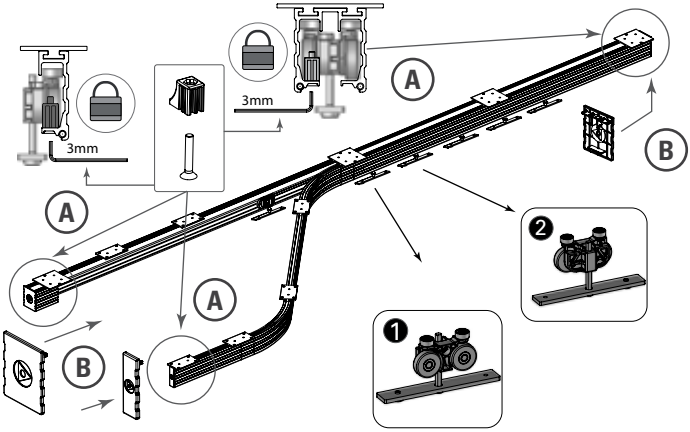
- The carriers are made up of a Sigma carrier (A), a carrier plate (B) and a bolt with axial bearing (C).



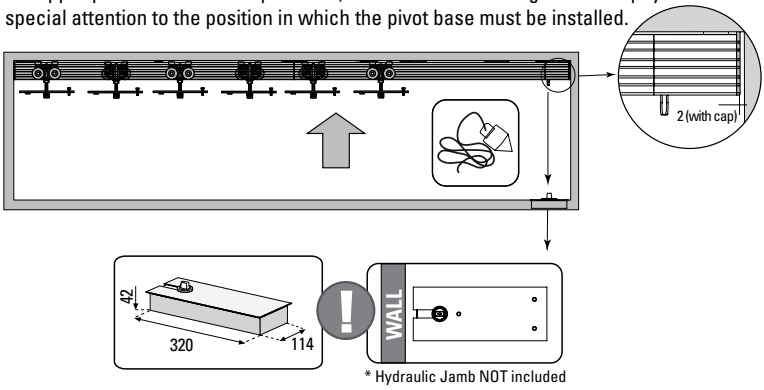
Introduce the carriers in the track structure set up, as shown in the drawing, paying attention to the indicated position for each one of them.



A. Fix Sigma Stoppers at the end of the tracks with 3mm Allen key.
B. Place Sigma Track Caps for a better finishing.



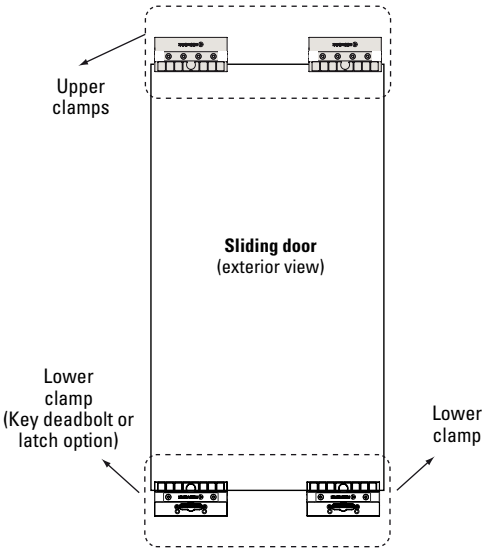
- Fix track structure to the ceiling.
- With the help of a plumb line, fix the bearing pivot base in the same axis as the upper pivot set. To accomplish that, drill a ø35 hole in the ground and pay special attention to the position in which the pivot base must be installed.



* Hydraulic Jamb NOT included

Assembly and mounting of doors:

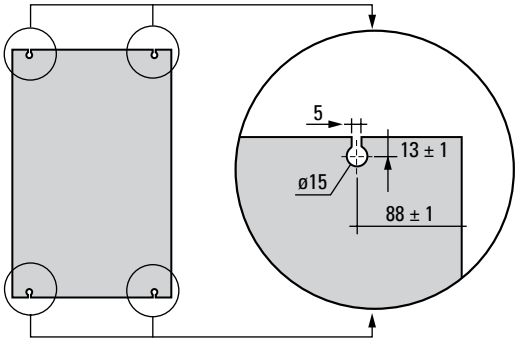
(Kit curves 45° and 90°)



IMPORTANT:

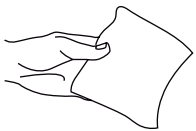
Under hot and humid conditions, it is recommended to always use a drilled crystal.
*This option is recommended for crystals of over 50Kg.
*Consider drillings of door levers.
*The installation of the plastic hubs and the set-up of the clamps apply for each one of the system's pressure clamps.
*Crystal cutting tolerances considered in the formulas = + 0.0 / - 2.0 mm

OPTION 1: Assembly of compression clamps, with setting up glass.

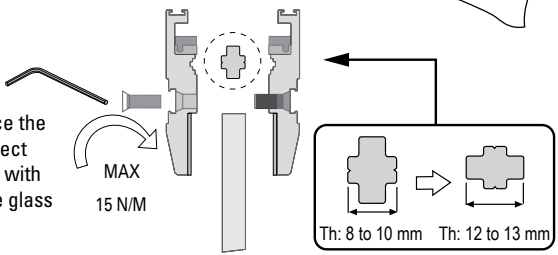


OPTION 2: Assembly of compression clamps

- Clean the glass before installing the clamp. Use clean kit included.



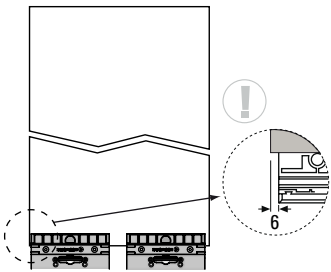
- Assemble the clamps according with the drawing, making sure to place the spacer in their correct position, according with the thickness of the glass being used.

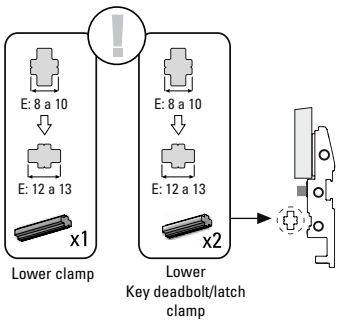


*For any of the options to be considered, the following steps will be the same for both cases.

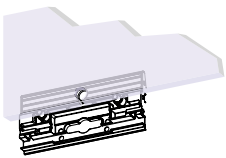
SET-UP N°1: DEADBOLT CLAMP/DOOR HANDLE AND LOWER CLAMP

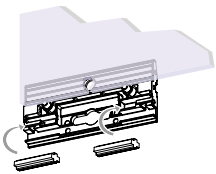
Set up the Deadbolt Clamp/Door Handle on one of the lower sides of the door, **6mm** from the edge of the crystal (right or left).



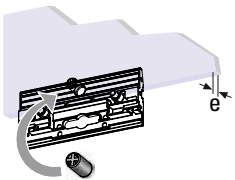


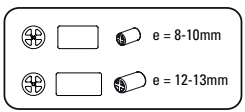
A. Depending on the width of the glass, place the spacers in the corresponding position.



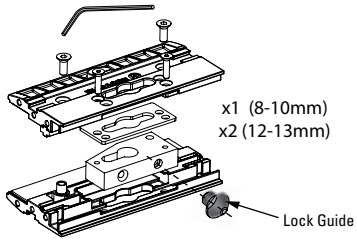


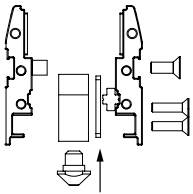
B. Once the first part of the clamp is placed, insert the hub which corresponds to the crystal's thickness.



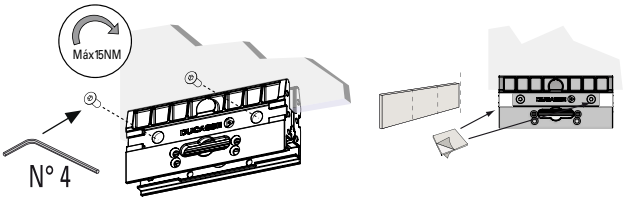


C. Then, complete the set-up of the Deadbolt/Handle clamp as shown in the drawing.

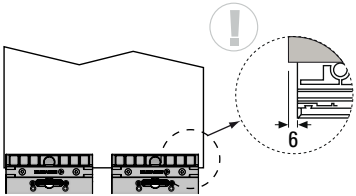




D. Place the bolts and then tighten with 4mm Allen key. Stick the adhesives at the ends of the clamps.

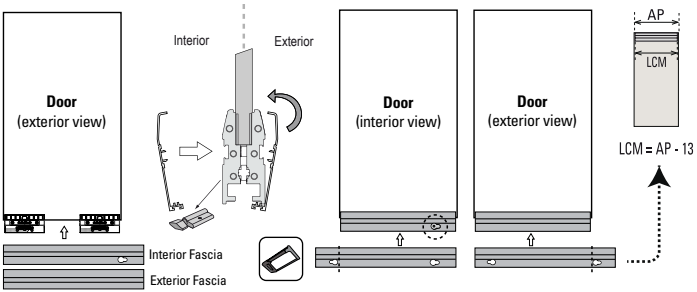


- Finally, install the lower clamp, on the opposite side to the Deadbolt/Handle clamp; **6mm** from the edge of the crystal, following steps A, B and D.



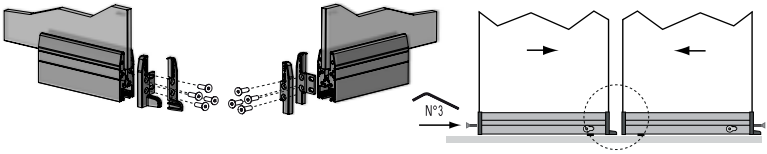
SET-UP N°2: LOWER FASCIAS

- Cut the lower fascias according with the size of the door (AP-13), cut at the clamps and then fix the cylinder of the Deadbolt or Door Handle with the bolt which is included in the set.



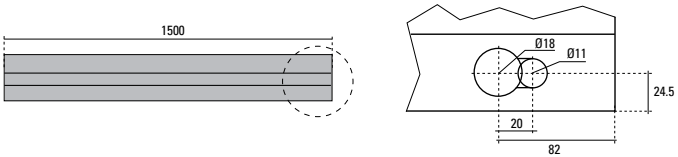
*This fascia kit allows a maximum door width of 1400mm.

- Once the lower fascias have been mounted, fix the PA aligner Clamp with M5x20 bolts and 3mm Allen key, in order to accomplish an excellent termination.

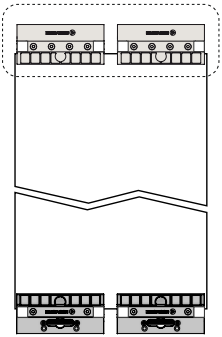


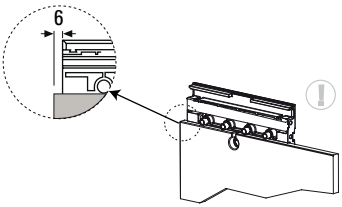
IMPORTANT:

- In case you have a door wider than 1400mm, it is necessary to purchase the Door Fascia Kit 1500 and set it up manually on the desired side, as shown in the drawing.

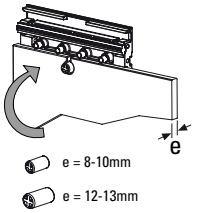


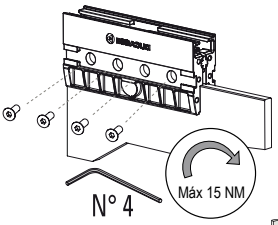
SET-UP N°3: UPPER CLAMP
- Installing upper clamps.
- Position the clamp **6mm** to the edge of the glass.

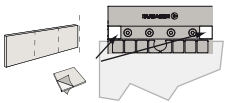




- Depending on the width of the glass, place the spacers in the corresponding position.
- Finish by placing the other part of the clamp and tighten the bolts with 4mm Allen key.
- Finally stick the adhesives at the ends of the clamps.



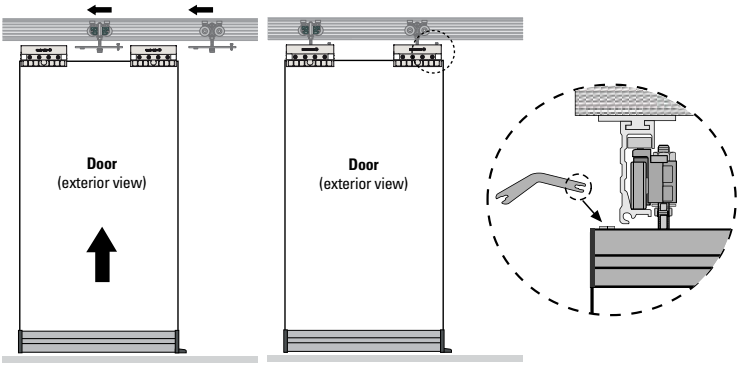




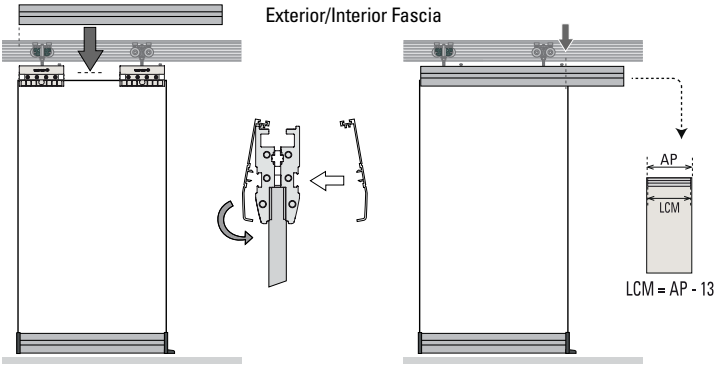
step **3**

Door assembly

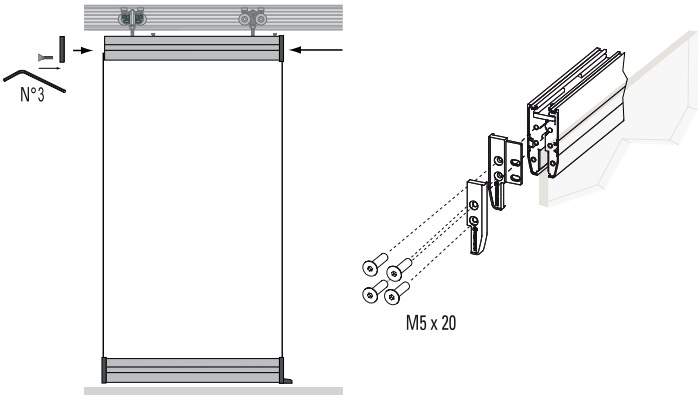
- Lift the doors which have already been set-up and mount the plates with the carriers inside of the clamps as shown in the drawing.
- Fix the position of the plates, tightening the bolt with the Segmenta key.



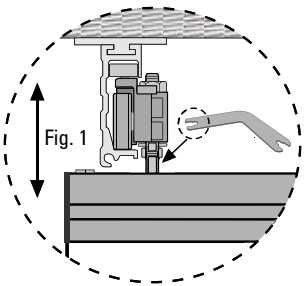
- Cut the upper fascias according with the size of the door (AP-13); mount.

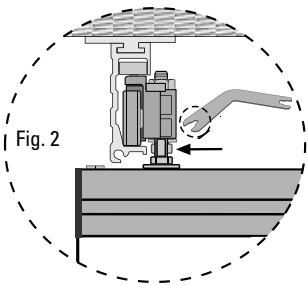


- Bolt the termination caps to all the upper clamps with M5x20 bolts.



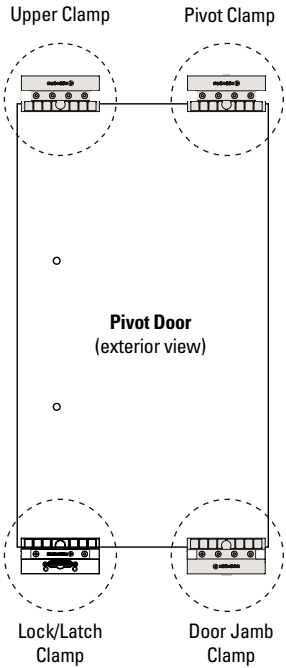
- With the Segmenta key, adjust the height of the door in its final position (minimum gap 5mm) turning the bolt.
- Set the counter-turn against the lower part of the carrier at the curves; as shown on drawing 2.





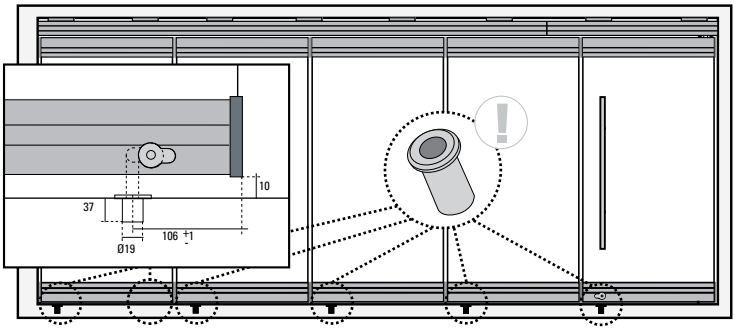
Assembly and mounting of Pivot Door
(Kit Pivot Door VD purchased separately)

*For the installation of a Sigma VD system, with a foldable door, consult the IM of the VD Foldable Door Kit.



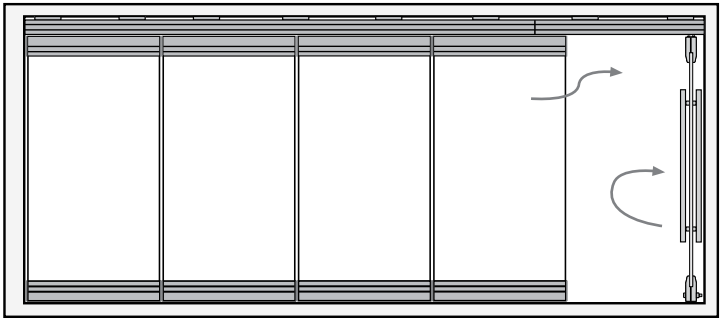
- When all the doors are mounted, adjusted and in their final position, install on the floor the embedded caps according with the position which has been given by the deadbolts or door handles.

Reinforced system

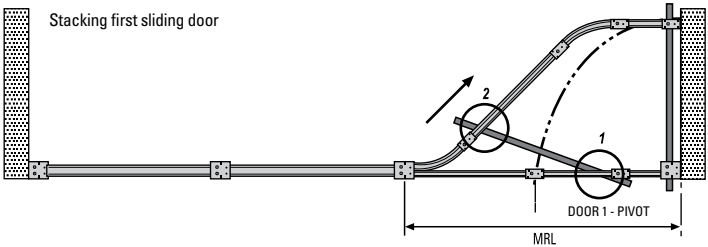


Flash mounted cap
(ø19x37mm prof.)

Stacking pivot door

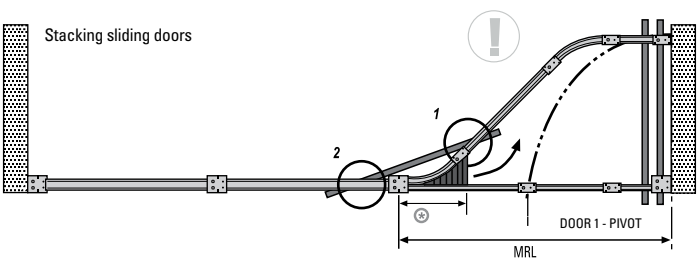


- The first sliding door is piled up on the opposite direction of the others. The first carrier (1) must follow on MRL and the second (2) must enter at the curve to turn 90°.



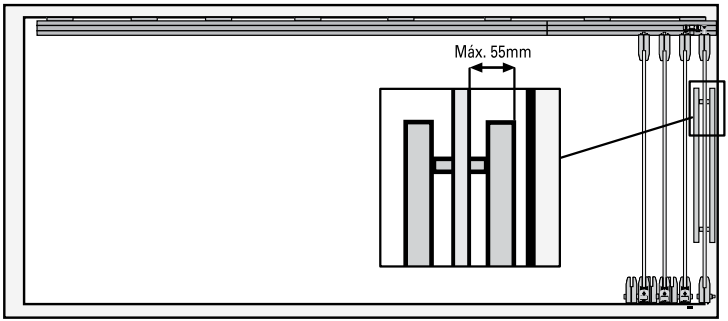
*To set up the Wall (unpile doors), the first sliding door must be taken out in the direction against to which it was piled, meaning, first from the curve zone and after the MRL.

- The other sliding doors are piled on the opposite way to the first one. The first carrier (1) must first follow the curve and the second (2) the MRL. This way, it is possible to pile all the panels.

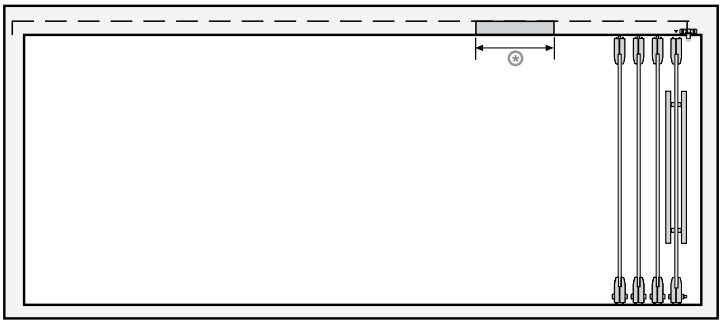


*To set up the Wall (unpile doors), the sliding doors must be taken out in the direction against to which they were piled, meaning, first from the MRL and then curve zone, except for the first sliding door.

In sight track system- Stacking



Inlaid track system- Stacking



(*) Counter-turn adjustment zone (embedded system): do not forget to leave this zone free in order to be able to adjust the counter-turn of the carriers, once the door has been adjusted. A removable termination cap can be used in case any adjustment is needed.