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TWIN TL VD is a synchronized sliding system for glass doors of up to 80 Kg. each sheet.

The system allows the synchronized, same direction opening of both doors with only a single movement.

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mm	Inches	Fraction
1	0.0394	3/64
2	0.0787	5/64
3	0.1181	1/8
4	0.1575	5/32

mm	Inches	Fraction
5	0.1969	13/64
6	0.2362	15/64
7	0.2756	9/32
8	0.3150	5/16

mm	Inches	Fraction
9	0.3543	23/64
10	0.3937	25/64
11	0.4375	7/16
12	0.4688	15/32

***ALL MEASUREMENTS ARE EXPRESSED IN MILLIMETERS**

General data and door sizing



NUMBER OF
DOORS



LOAD CAPACITY
PER SHEET



FOR GLASS
DOORS



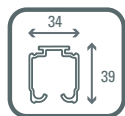
GLASS DOORS
THICKNESS



TRANSIT AREA

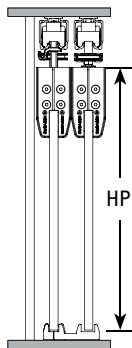
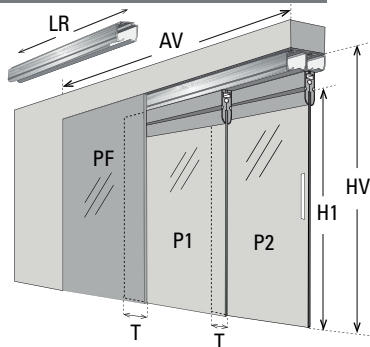


DOOR WIDTH

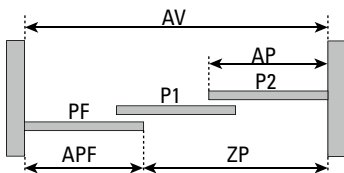


TRACK U21 AL

Doors sizing



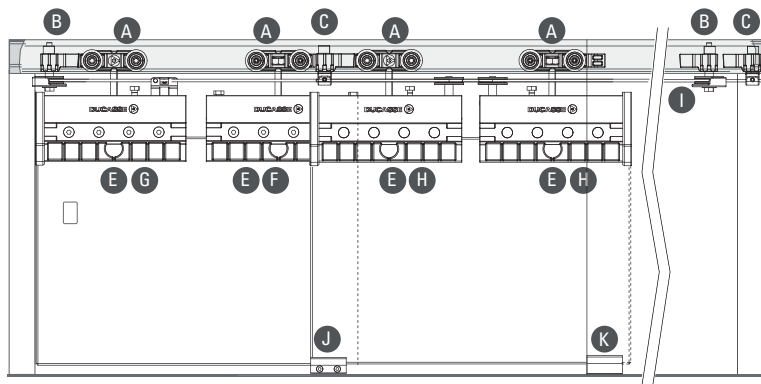
$$\begin{aligned} LR &= 3AP - 100 \\ AP &= (ZP + T) / 2 \\ H1 &= HV - 125 \\ APF &\geq (AV + 2T) / 3 \\ HPF &= HV \\ HP &= H1 + 51 \\ T &= 50 \text{ min.} \end{aligned}$$


















! Use with tempered glass





AP = Door Width | AV = Opening Width | H1 = Glass Height | HP = Door Height | HV = Opening Height
HPF = Fixed Panel Height | APF = Fixed Panel Width | ZP = Transit Area | T = Overlap | LR = Track Length

Detail of parts and pieces








TWIN TL VD

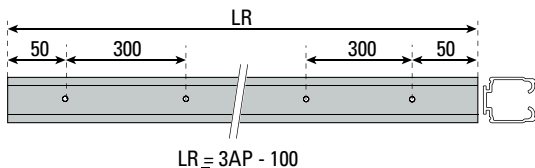
A	DN 80 Carriers		4
B	Twin pulley stoppers		2
C	Lock stoppers		2
D	Carrier Bolt		4
E	Superior clamp		4
F	Twin Plate		1
G	Lock Plate		1
H	Pulley Plate		2
I	15 mts of cable		1
J	Telescopic guide VD		1
K	Floor guide VD + regulator 8-10		1
L	Clamp end left cap		4
M	Clamp end right cap		4
N	Segmenta key 1		1
O	Allen key 2.5 / 3 / 4mm		1

P	Bolts M5 x 20		16
Q	Dowels n°6		2
R	Screws #3.5 x 35		2
S	Cleaning Kit		4

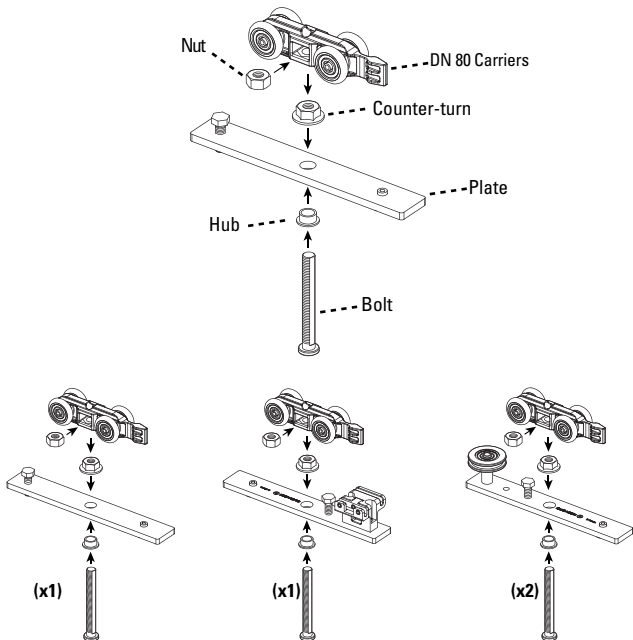
NECESSARY TOOLS

Drill	
Torque wrench	
Plumb line	
Phillips screwdriver	
Measuring tape	

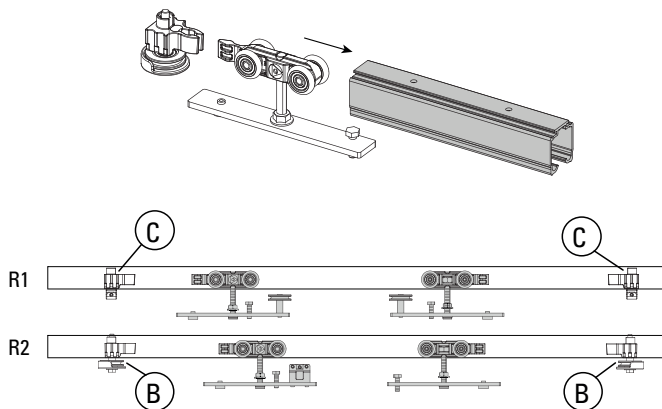
- Cut the tracks according to the following formula and then, drill.



- Set up the carrier sets, inserting the carrier bolts through the plates and carriers, paying special attention to their position.

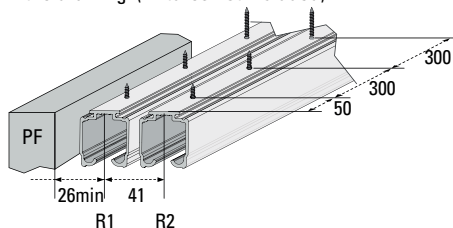


- Insert carriers and lock stoppers in both ends of the track 1 (R1), as shown in the diagram.
- Similarly, insert the carriers and pulley stoppers at both ends of the track 2 (R2).

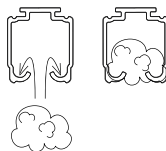


Note: Track 1 (R1) for port 1 (P1) | Track 2 (R2) for port 2 (P2)

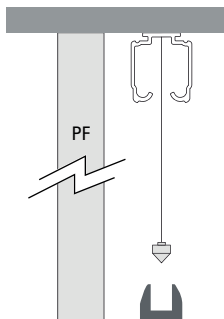
- Fix the tracks to the ceiling. Take into consideration the distance which is shown in the drawing. (Fixtures not included).



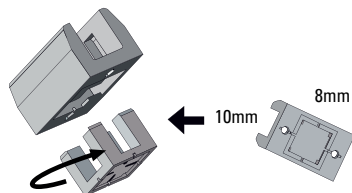
- After fixing, clean the track grooves to avoid possible leftover residues.



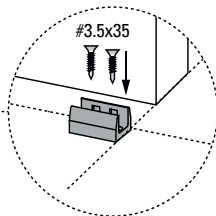
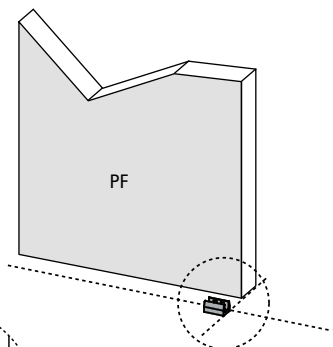
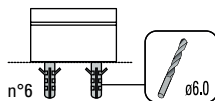
- Plumb track 1 (R1) to determine the Floor guide VD position.



- Position the regulator in the Floor guide VD, according with the glass width to be used.



- Fix the guide to the floor at the bound of the fixed panel, as shown in the diagram, using dowels n°6 and then screws 3.5x35

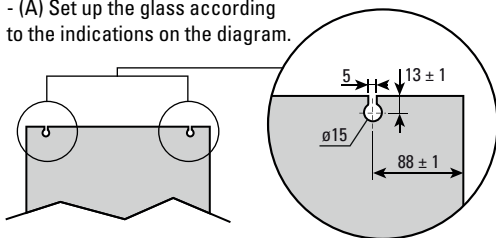


step 3

OPTION (A): Perforated clamps / OPTION (B): Compression clamps

①

- (A) Set up the glass according to the indications on the diagram.

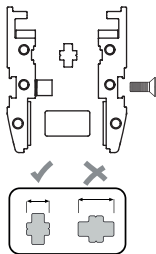


(B) Clean the glass in the clamp installation area using the cleaning kit included.



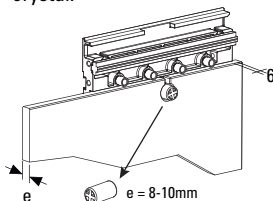
②

- (A) and (B) Place the spacer in the 8-10mm position



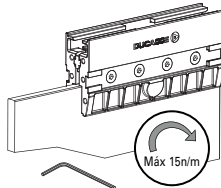
③

- (A) and (B) Place the clamp in the crystal, 6mm from the edge.
- (A) Place the metal hub in the crystal.



④

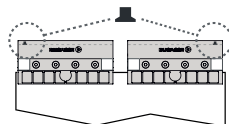
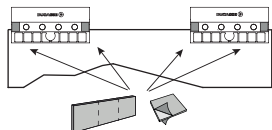
- (A) and (B) Place the other part of the clamp and tighten the bolts with the 4mm Allen key.



⑤

- (A) and (B) Place the adhesives on the edges.

*** Clamps stoppers must be positioned at opposite sides.



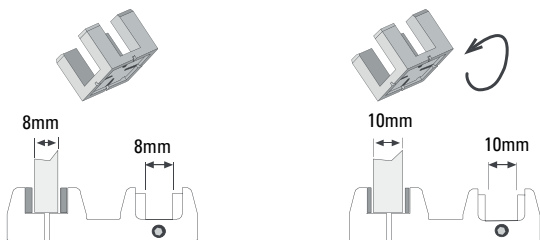
OPTION (A)

- * Recommended for crystals over 50 kg.
- * Consider perforations for the door handles.
- * Recommended for high humidity conditions.

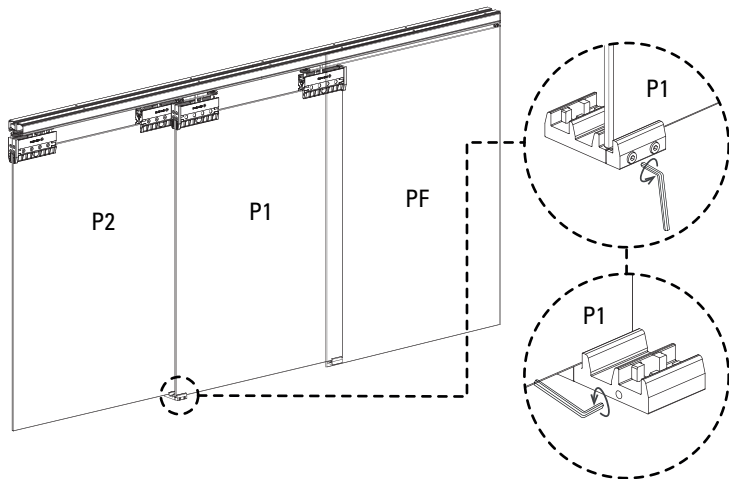
Set-up of the telescopic guide

step 4

- Configure telescopic guide according to the door thickness, adjusting the floor guide insert as indicated in the diagram.

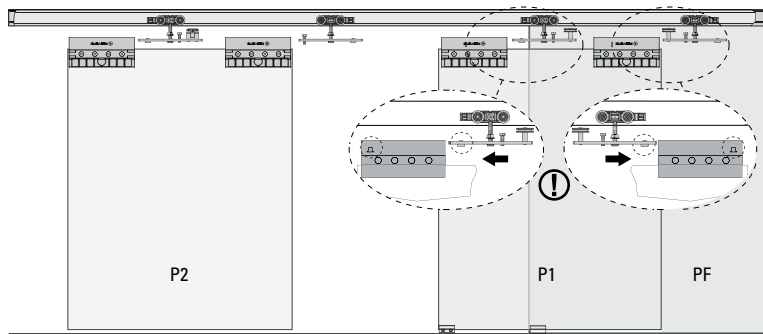
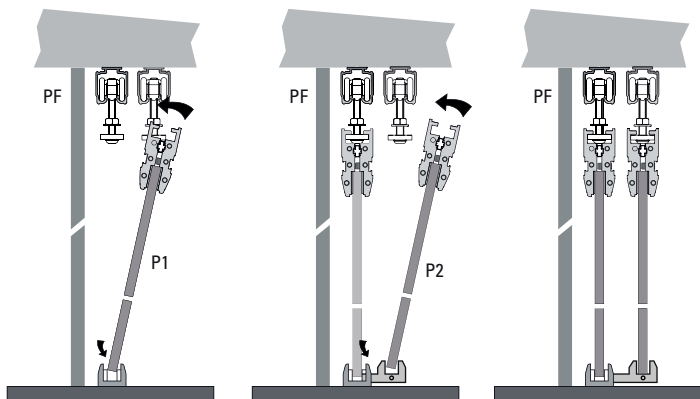


- Position the telescopic guide on the internal side of Door 1 (P1), to the end of the glass. Fix the guide onto the door adjusting the prisoners with the 3mm Allen Key and adjust the lateral prisoner with the 2mm Allen Key.

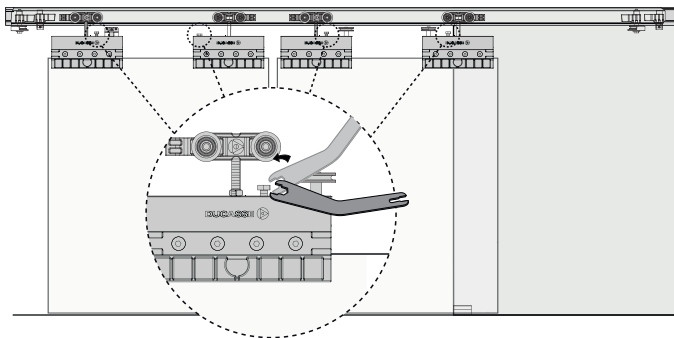


step 5

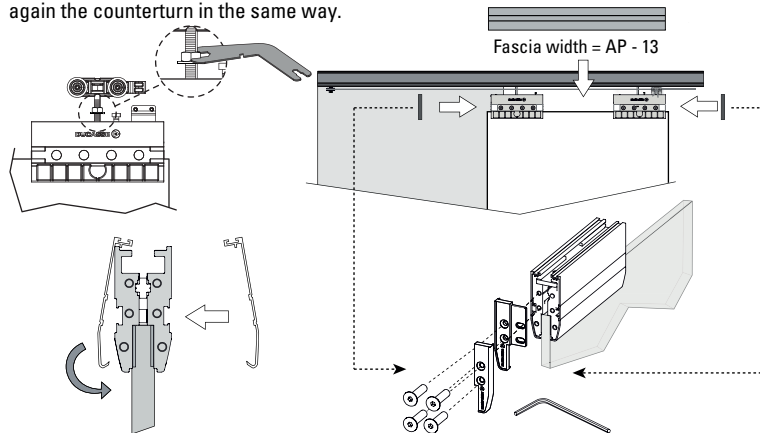
- Mount Door 1 (P1) on floor guide VD, making sure the telescopic guide is not damaged, and introduce the plates in the clamps.
- Carefully mount Door 2 (P2) on the telescopic guide and introduce the plates in the clamps, making sure that on Door 2 (P2) the plate pulleys are left towards the interior of the door.



- With the help of the Segmenta key, fix the carrier plates to the clamps, adjusting the upper bolt, as shown.

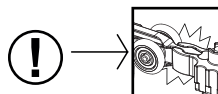
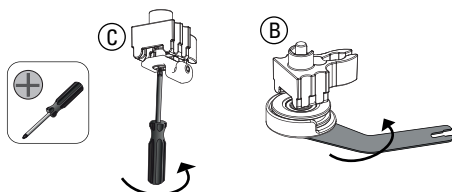
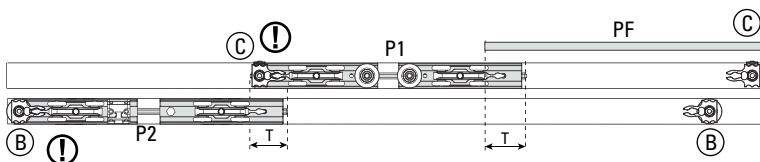


- Clip the fascia in the door clamps and then fix the right and left end caps on both sides, with M5 x 20 bolts and the 3mm Allen key.
- Then, reverse the previous step, lowering again the counterturn in the same way.



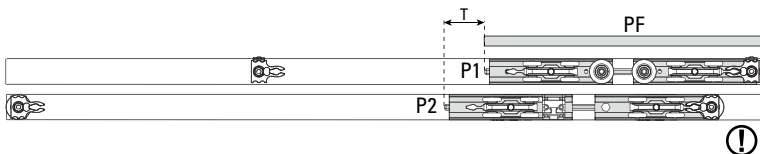
step 7

- Keep mounted doors in its closed position to fix the stoppers. To do this, you need to move them until they fit with the carriers and then, fix them in that position.
- The lock stopper (C) is set on door 1 (P1) with a screwdriver and the pulley stopper (B) must be fixed on the door 2 (P2) using Segmenta key.



* To make sure the pieces are left in the right position, it is necessary to fit the stoppers on the carrier.

- Then, to fix the remaining stoppers it is necessary to bring the doors to a open position, move the stoppers until fitting them with the carriers and fix them in that position.



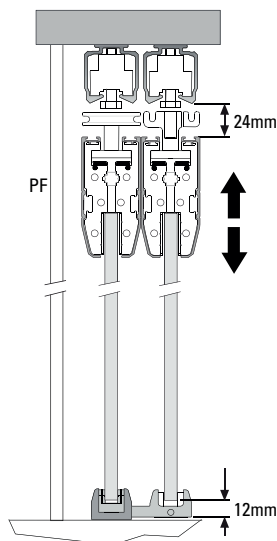
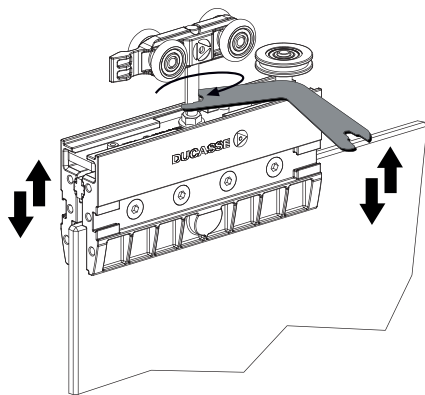
* To make sure the pieces are left in the right position, it is necessary that the pulley is free towards the center of the rail.



Height adjustment

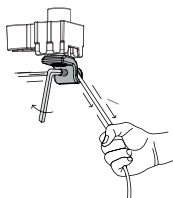
step 8

- Regulate the height of the glasses, adjusting the carrier bolt with the Segmenta key.

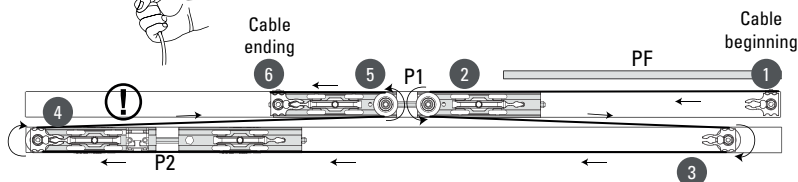


step 9

- With the doors closed, place the cable following the steps and the path indicated in the diagram. Start the process by adjusting it on the lock stopper of the door 1 (P1) using a 2.5mm Allen key.

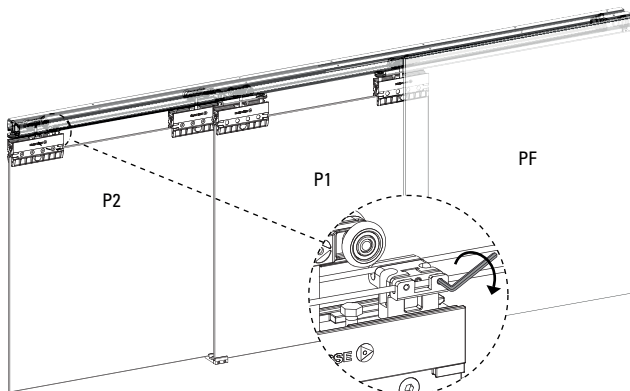
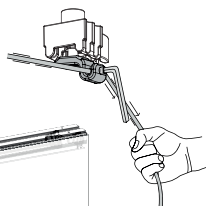


* The lock stopper has the ability to turn in case of inverse facilities. It also offers the possibility to set the cable on both sides of the lock, which makes installation easy.



- Then, tighten the cable and set it on the other lock stopper.

- Once the lock stoppers are fixed, fix the cable to the lock of the base.



Accessories

1 FASCIA U-21 66x8

2 FASCIA U-21 120x8

3 END CAP FASCIA U-21 66x8

4 END CAP FASCIA U-21 120x8

5 ZAMAK END CAPS

