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TWIN TL is a synchronized sliding system for wooden or aluminum frame Toledo or Agata, 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		mm	Inches	Fraction		mm	Inches	Fraction
	1	0.0394	3/64		5	0.1969	13/64		9	0.3543	23/64
	2	0.0787	5/64		6	0.2362	15/64		10	0.3937	25/64
	3	0.1181	1/8		7	0.2756	9/32		11	0.4375	7/16
	4	0.1575	5/32		8	0.3150	5/16		12	0.4688	15/32

***ALL MEASUREMENTS ARE EXPRESSED IN MILLIMETERS**

General data and door sizing



N° OF DOORS



MAX DOOR WEIGHT



FOR WOODEN DOORS
or with ALUMINIUM FRAME



WOODEN DOOR
THICKNESS



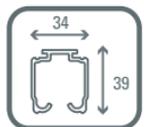
TO BE USED WITH
TOLEDO PROFILE



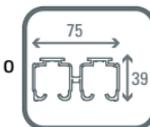
TO BE USED WITH
AGATA PROFILE



TRANSIT AREA



TRACK U21 AL

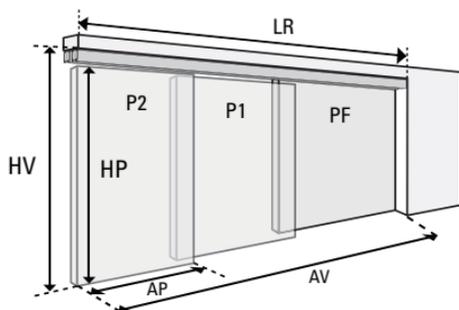


DOUBLE TRACK U21 AL

*For 28-33mm thick doors.

Do not use with Toledo door

Door sizing



$$APF \geq (AV + 2T) / 3$$

$$AP = (ZP + 2T) / 2$$

$$HP = HV - 80$$

$$LR \geq ZP + AP + 30$$

$$HPF = HV$$

Wood



T = 50 min

Toledo

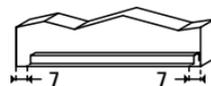
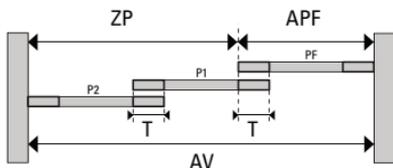


T = 49 min

Agata



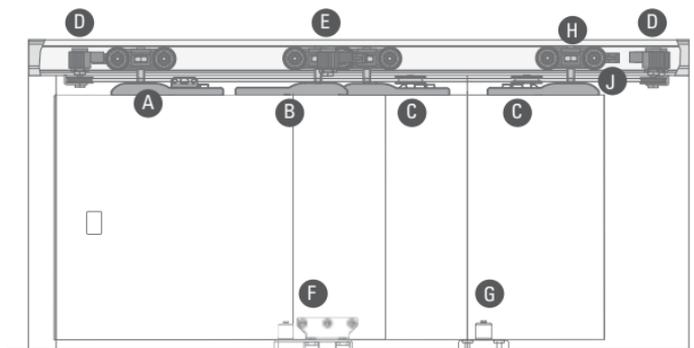
T = 63 min



For wooden doors it is necessary to mechanize the bottom edge to allow the guide to pass.

AP = Door Width | AV = Opening Width | 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

A	Base candado desmontable		1
B	Bases Twin		1
C	Twin Pulley Bases		2
D	Frenos Polea Twin		2
E	Lock stoppers		2
F	Telescopic guide + idler 11.5		1
G	High GPR guide + idler 11.5		1
H	Carriers DN 80		4
I	Fixing plate		4
J	10.5 m of cable		1
K	Segmenta key		2
L	Allen key 2.5mm		1
M	Wood screws #4.5 x 45		12
N	Flat head bolts M5 x 12		12
O	Slotted pan head screws # 8 X 1"		2
P	Nylon dowels M6		2
Q	Binding screws # 6 x 1/2"		3

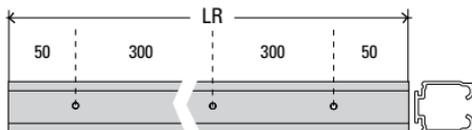
NECESSARY TOOLS

Drill	
Drill bits ø3 / ø6	
Plumb line	
Phillips screwdriver	
Measuring tape	

Track, carrier and stopper installation

step 1

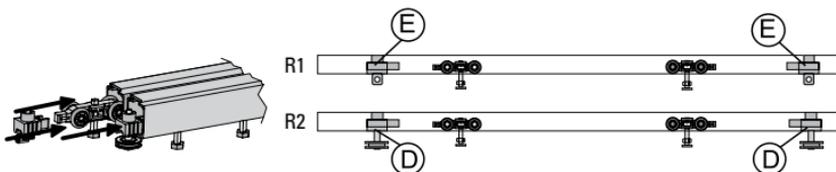
- Cut the tracks according with the shown formula and then, drill.



$$LR \geq ZP + AP + 30$$

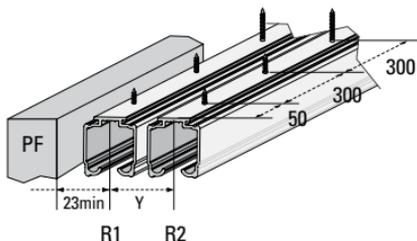
- Insert lock braking carries and both ends of the track 1 (R1), in the positions shown in the diagram.

- Similarly, introduce the carriers and stoppers at both ends of the track 2 (R2).



Note : Reel 1 (R1) for port 1 (P1) | Rail 2 (R2) to port 2 (P2)

- Fix the track to the ceiling, taking into consideration the distance which is shown in the drawing. (Fixtures not included).



Y = 34, when:

20 - 25



Wood



Agata Profile

Y = E + 9, when:

26 - 35



Wood



Toledo Profile

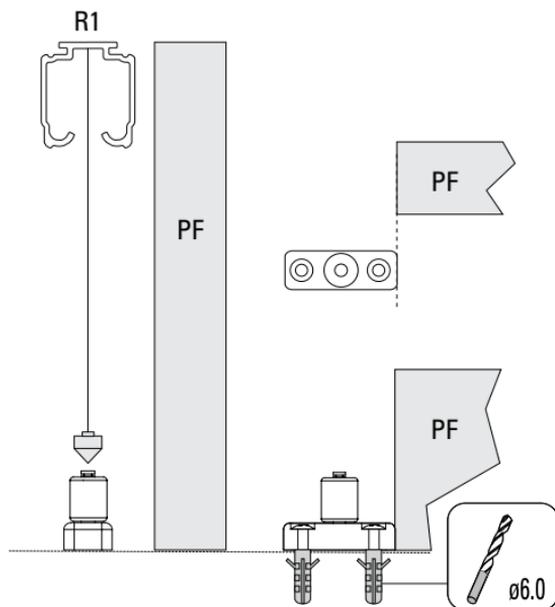


- After fixing, clean the track grooves to avoid possible leftover residues.

Set-up of the guide to the floor

step 2

- Plumb track 1 (R1) to determine the high GPR guide position.
- Drill the floor with a 6mm diameter drill bit to set the guide in place, just at the end of the fixed panel (PF), as shown in the diagram.



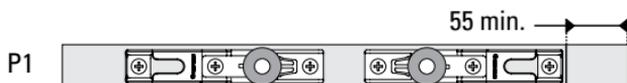
For Toledo doors, change the idler on both guides to use the 11.5mm diameter one. For this, it is necessary to remove the Seagers lock and change the idler.



Installing Twin bases on doors

step 3

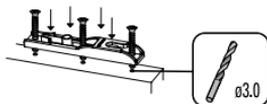
- At the upper edge of the door 1 (P1), fix the Twin pulley basis with the pulleys towards the center of the door, and at least 55mm from the edge.



- At the door 2 (P2), fasten the base removable lock and the Twin base, as shown in the diagram, considering a minimum distance of 55mm from the edge.



Wood



For wooden doors:

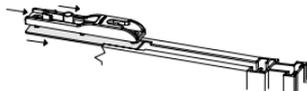
Drill the guide with a 3mm diameter drill bit to fix the Twin basis with 4.5x45 screws.

Agata



For doors Agata and Toledo:

Toledo

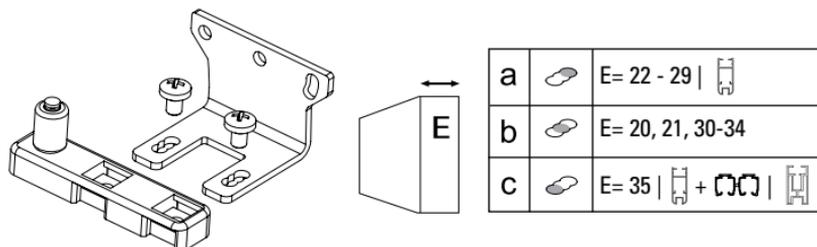


Introduce through the attachment plates (as indicated by each respective image) and then to fix the Twin bases with screws M5x12.

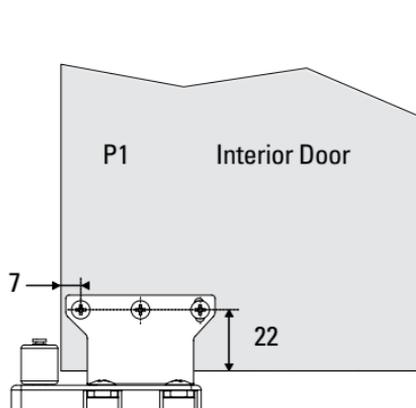
Set-up of the telescopic guide

step 4

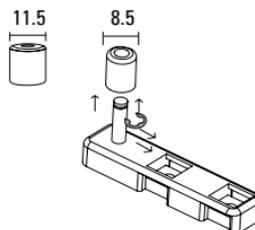
- Set the telescopic guide according to the type and thickness of the door, as indicated in the diagram.



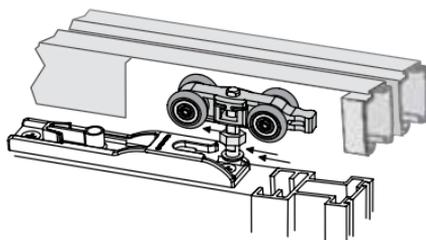
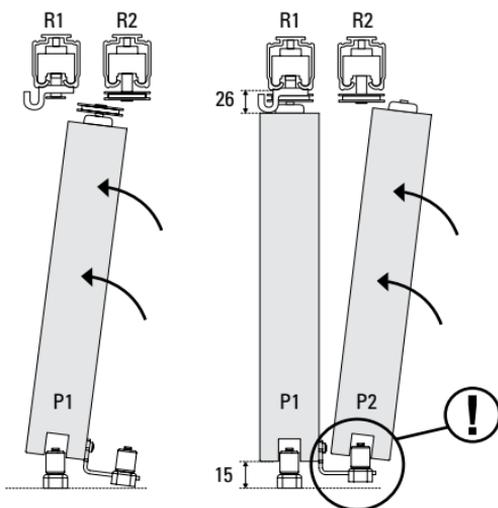
- Fix the telescopic guide on the inside of the door 1 (P1), leaving 7mm distance between the door edge and the center of the first hole, and 22mm from the bottom edge to the center of the holes, using the binding screw # 6 x 1/2 " (Q).



For Toledo doors, change the idler on both guides to use the 11.5mm diameter one. For this, it is necessary to remove the Seagers lock and change the idler.



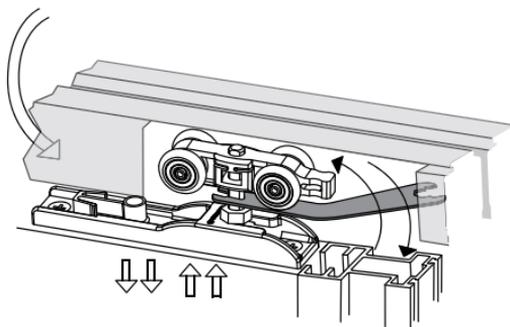
- Mount the door 1 (P1) in GPR guide, taking care not to damage the TL guide. Then insert the pins on the plates.
- Mount with care door 2 (P2) on TL guide and insert the pins on the plates.



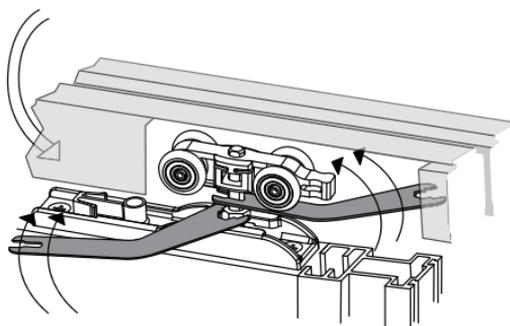
Height regulation

step 6

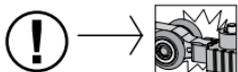
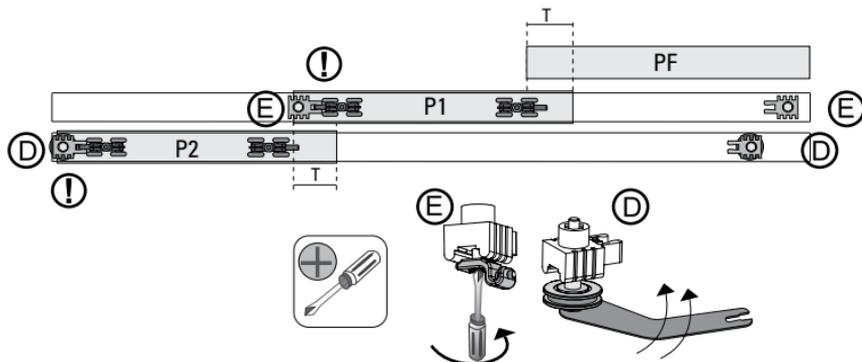
- With the Segmenta key adjust the height of the door turning the bolt completely.



- Then fix the lock nut using the two Segmenta keys, one rotating the bolt and the other the nut on the other opposite.

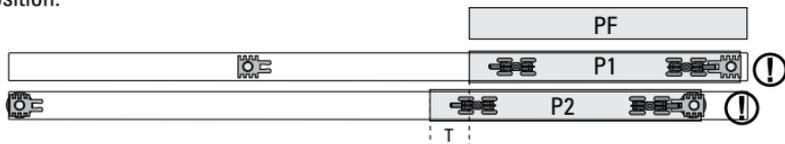


- Keep mounted doors in its closed position to fix the stoppers. To do this, you need to move them until they fit with the carriers and fix them in that position.
- The lock stopper (E) is set at door 1 (P1) with screwdriver and the pulley stopper (D) is to be fixed on the door 2 (D2) with Segmenta key.



* 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 door to its open position, move the pulley stopper to fit them with the carriers and fix them in that position.



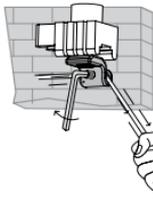
- To achieve optimal termination it is necessary to consider the minimum measures of overlapping (T) in each case, as shown in the inset.

Wood	Toledo	Agata
		
T = 50 min	T = 49 min	T = 63 min

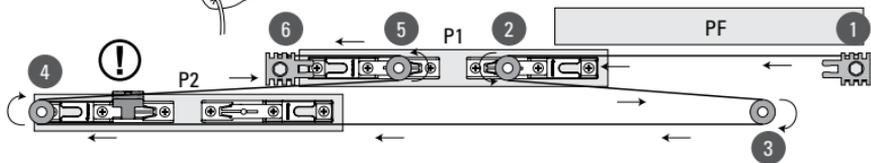
Cable Set-up

step 8

- With the doors closed, place the cable following the steps and the path indicated by the diagram, start by adjusting the stopper to the door 1 lock (P1) with 2.5mm Allen key.

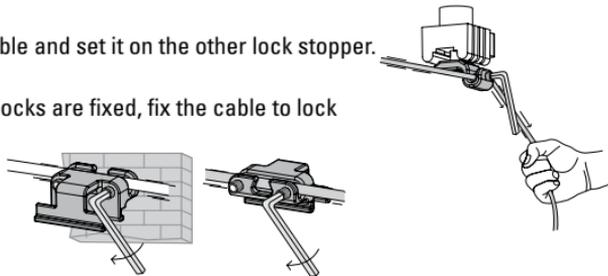


* The lock stopper has the ability to turn in case of inverse facilities. It also offers the possibility to set the cable on both sides of the lock, which makes installation easy.

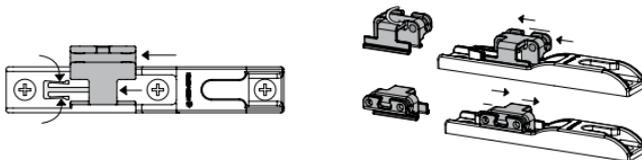


- Then tighten the cable and set it on the other lock stopper.

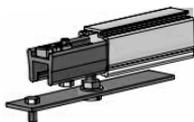
- Once the stoppers locks are fixed, fix the cable to lock the base.



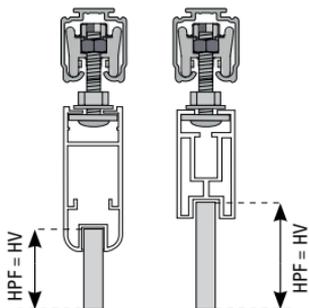
! The lock can be disassembled from the Twin base and assembled to the other side if the facility is reversed. To do this you need to press the tabs at the base, as shown in the diagram.



1 FIXED PANEL KIT U-21



Use only with Toledo or Agata profiles.

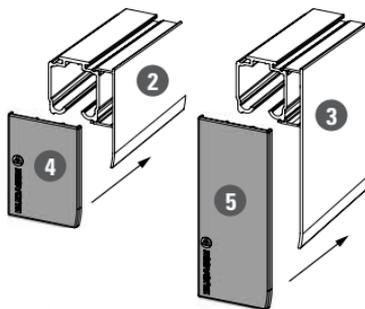


2 FASCIA U-21 66x8

3 FASCIA U-21 120x8

4 END CAP FASCIA U-21 66x8

5 END CAP FASCIA U-21 120x8



PUTTING ON THE END CAPS WITH DOUBLE TRACK U-21

