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TWIN OP 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, opposite 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



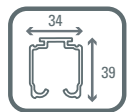
TO BE USED WITH
TOLEDO PROFILE



TO BE USED WITH
AGATA PROFILE

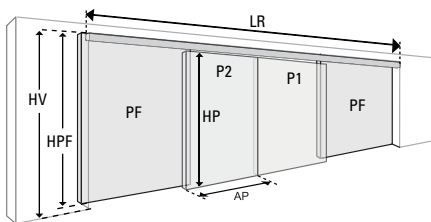


TRANSIT AREA



TRACK U21 AL

Door sizing



$$\begin{aligned} \text{HP} &= \text{HV} - 70 \\ \text{APF} &> \text{AP} \\ \text{AP} &= (\text{ZP}/2) + \text{T} \\ \text{LR} &= 4\text{AP} - 2\text{T} \\ \text{HPF} &= \text{HV} \end{aligned}$$

Wood



T = 50 min

Toledo

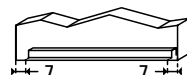
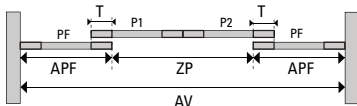


T = 49 min

Agata



T = 63 min

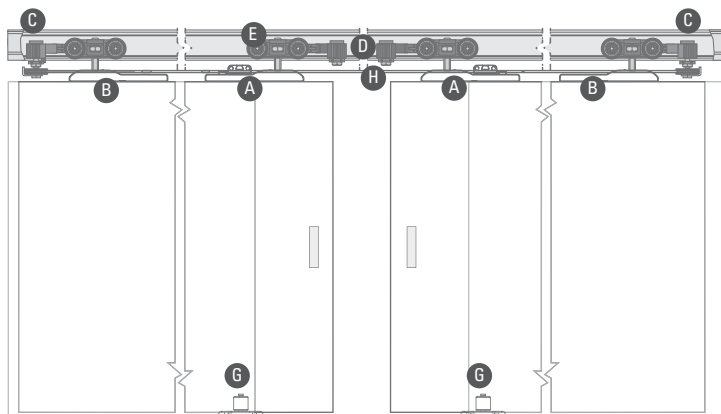


For wooden doors it is necessary to mechanize the bottom edge to allow the guide to pass.















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 OP

A	Removable lock base		2
B	Twin bases		2
C	Twin pulley stoppers		2
D	Stoppers DN 80		2
E	Carriers DN 80		4
F	Fixing plates		4
G	GPR guide 8.5 + idler 11.5		2
H	13m cable		1
I	Segmenta key		2
J	Allen key 2.5mm		1
K	Wood screws #4.5 x 45		12
L	Flat head bolts M5 x 12		12
M	Slotted pan head screws # 8 X 1"		4
N	Nylon dowels M6		4

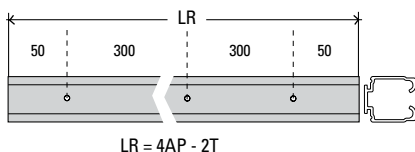
NECESSARY TOOLS

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

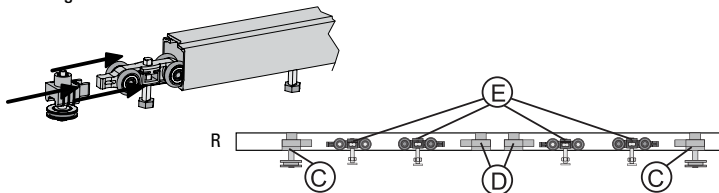
Track, carrier and stopper installation

step 1

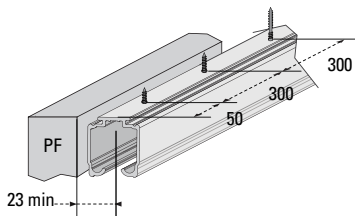
- Cut the tracks according with the shown formula and then, drill.



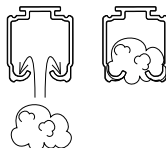
- Introducing DN 80 stoppers, carriers and pulley stopper in the positions shown in the diagram.



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



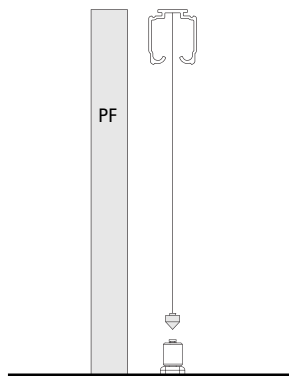
- After fixing, clean the track grooves to avoid possible leftover residues.



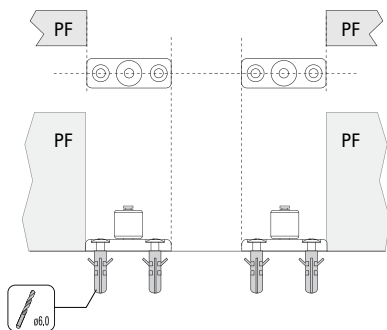
Set-up of the guides to the floor

step 2

- Plumb the track to determine the position of the GPR guides.



- Drill the floor with a 6mm diameter drill bit to secure the guides in position right at the end of the fixed sheet (PF), as shown in the diagram.

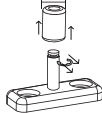


For Toledo doors, change the idler on both guides to use the 11.5mm diameter one. For this, it is necessary to remove the Seagers lock and change the idler.

11.5



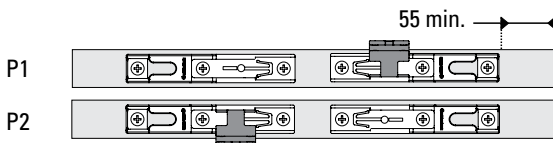
8.5



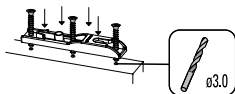
Installing Twin bases on doors

step 3

- At the upper edge of the door 1 (P1) and door 2 (P2) set the foundations, removable lock and Twin bases 55mm from the edge in the position shown in the diagram.



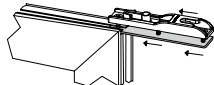
Wood



For wooden doors:

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

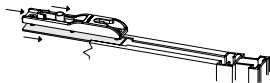
Agata



For doors Agata and Toledo:

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

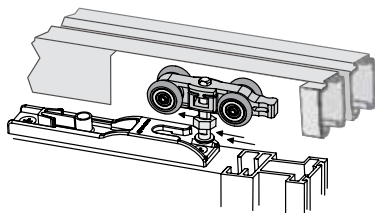
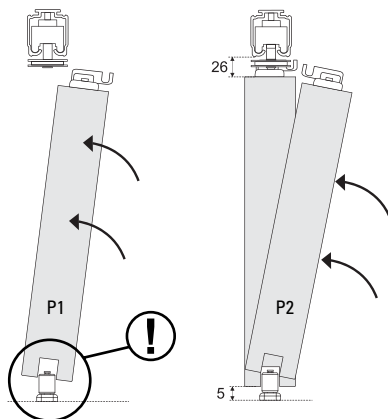
Toledo



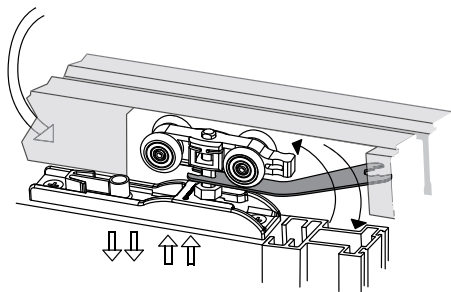
Doors Set-up

step 4

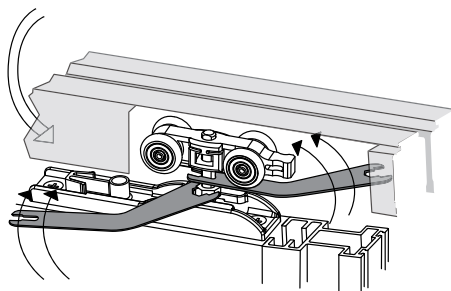
- Mount the door 1 (P1) on the GPR guide with care not to damage the guide, and introduce adjusting bolts carries in the Twin bases.
- In the same manner mount the door 2 (P2) on the other guide GPR, as shown in the diagram.



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



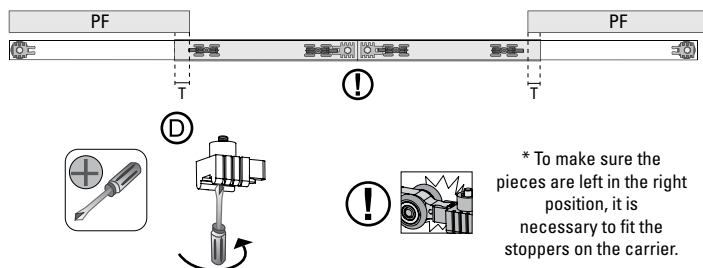
- Then fix the lock nut using the two Segmenta keys, one rotating the bolt and the other the nut on the other opposite.



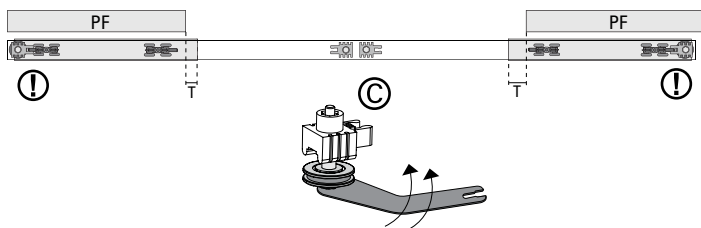
Stoppers Set-up

step 6




- 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.
- Lock stoppers DN 80 in the desired position with the screwdriver, as shown in Figure (D).



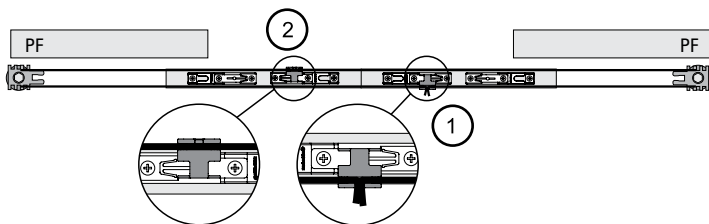
- Then, to fix the remaining stoppers it is necessary to bring the door to its open position, move the pulley stopper to fit them with the carriers and fix them in that position with the Segmenta key.



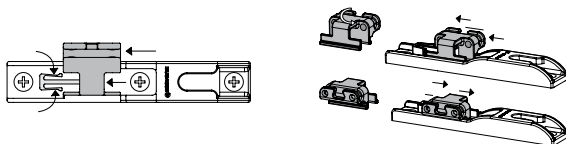
- To achieve optimal termination it is necessary to consider the minimum measures of overlapping (T) in each case, as shown in the inset.

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

- With the doors closed, place the cable following the path indicated by the diagram, start by fitting the lock of the removable lock base with a 2.5mm Allen key.

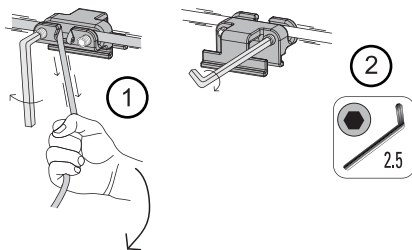


! The lock can be disassembled from the Twin base and assembled to the other side if the facility is reversed. To do this you need to press the tabs at the base, as shown in the diagram.



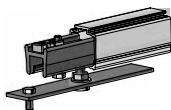
- Tighten and secure the cable on the same lock where the track began, making sure that the carriers do not get out of the stoppers.

- Then attach the other lock ② with the Allen key 2.5.

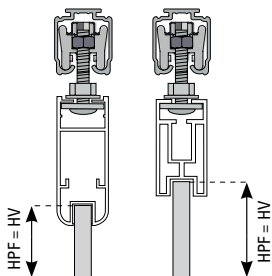


Accessories

1 FIXED PANEL KIT U-21



Use only with Toledo or Agata profiles.

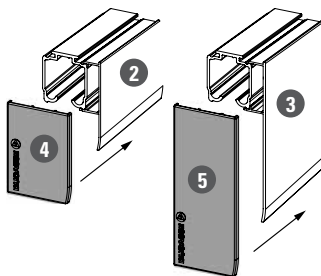


2 FASCIA U-21 66x8

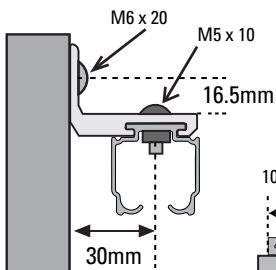
3 FASCIA U-21 120x8

4 END CAP FASCIA U-21 66x8

5 END CAP FASCIA U-21 120x8



6 WIDE LATERAL BRACKET



BRACKET INSTALLATION

