

A safety insurance regarding the performance of fittings for sliding doors:

Simple and efficient:

By requiring the characteristics of a product according to the European standard, you will avoid inconvenience such as bad sliding, blocking or early wearing.

What does the European standard EN 1527 indicate?

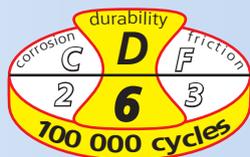
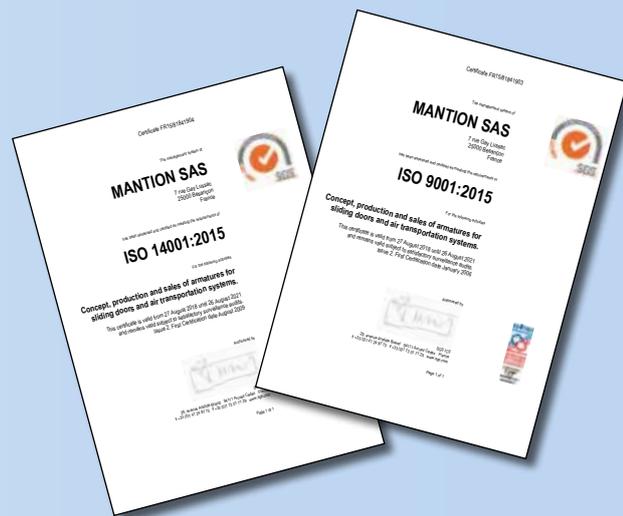
It defines objective quality criteria for a complete set of fittings for sliding doors (tracks, brackets, rollers, stops and guides):

- Corrosion resistance (resistance to salt spray)
- Durability (number of cycles)
- Initial friction (initial max. force required to open and close the panels)

It determines the conditions in which the tests have to be made. This allows an easy and real comparison between different competing products:

- Door under 200 kg Height: 2 meters Width: 0.80 meters
- Door over 200 kg Height: 2 meters Width: 2 meters

It indicates the performance of fittings according to the tests results:



CORROSION RESISTANCE [C]

grade 1	grade 2	grade 3	grade 4	grade 5
24 h*	48 h*	96 h*	240 h*	480 h*

*Numbers of hours of resistance to salt spray (Standard EN1670)

INITIAL FRICTION [F]

calculated without the use of damper closer or hydraulic closer stop

	grade 1	grade 2	grade 3
Door of 50 Kg	50 N*	30 N*	10 N*
Door from 51 to 100 Kg	80 N*	50 N*	20 N*
Door from 101 to 330 Kg	90 N*	60 N*	30 N*
Door over 330 Kg	5 %**	3 %**	2 %**

*(10N): 10 newton correspond to a force of approx. 982 g to start movement of panel

**Percentage of the mass

DURABILITY [D]

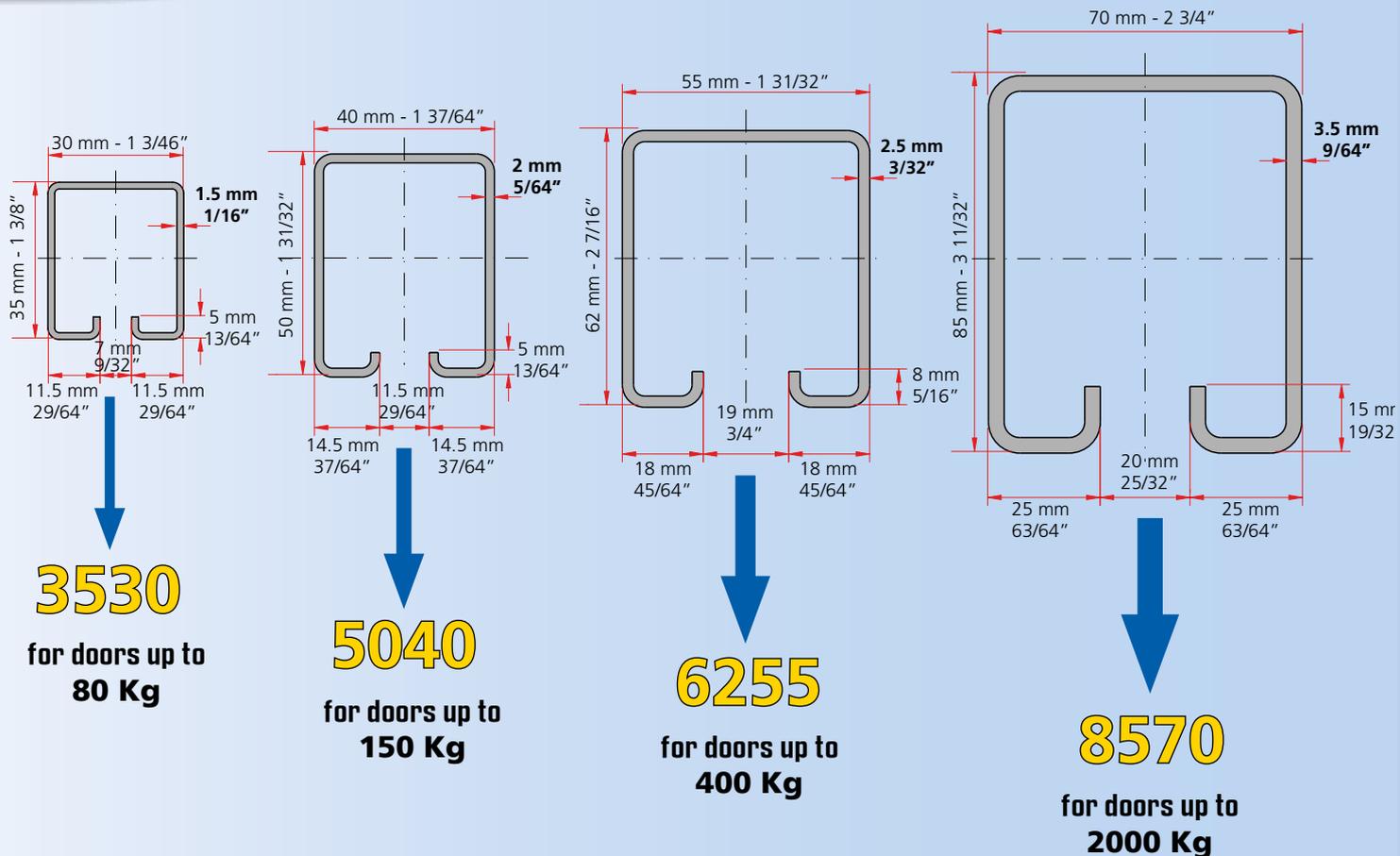
grade 1	grade 2	grade 3	grade 4	grade 5	grade 6
5 000 c*	10 000 c*	25 000 c*	50 000 c*	75 000 c*	100 000 c*

*Number of cycles

Mantion certifies* the performance of its fittings for sliding doors and gives you the guaranty of high quality products.

The different Mantion products have been designed, produced and tested to be used together. In order to avoid any technical problem or early use of fittings, require MANTION products.

* This guaranty of durability applies to complete sets of Mantion products: tracks, rollers, brackets, stops and guides which are used and installed according to Mantion instructions (capacity and number of cycles).

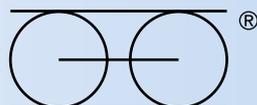


In order to guaranty high quality systems,
Mantion manufactures its own profiles:

- 3 bending and roll forming machines enable Mantion to roll any metal thickness up to 6 mm at a short time notice
- This also enables Mantion to produce special lengths on request and within a short delivery time.

Mantion can therefore improve the reliability of its products and
bring the best quality sliding systems on the market:

- All the Mantion profiles are coated with magnesium zinc (without chromium) in order to preserve all the qualities to all weather.
Number of hours of resistance to salt spray and red rust:
800 h !!
- The track **8570** is made of steel of High Limit of Elasticity. This ensures better resistance and durability.



CAPACITY/DOOR: up to 1200 kg

TRACK: 8570

MOVEMENT: STRAIGHT

- «HLE» track: the track made of steel with «High Elasticity Limit » enables heavy loads in safe conditions
- Ingenious: thanks to its offset bracket, the 281 hanger enables the centred mounting of doors of different thicknesses
- The steel hangers with ball bearings (2285S) are suitable for fire doors
- For special mounting: «L» version hangers with a long fixing bolt (70 mm longer than the normal version)
- For doors over 500 kg: our brackets 8578 MC or 8578 ML have to be fixed every 0.50 m.

TRACKS		
Item Nr	Description	Pack.
8570/400	Galvanised track 85 x 70 mm 4 m long	
8570/500	Ditto 5 m long	
8570/600	Ditto 6 m long	

capacity per door

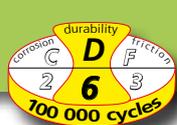
HANGERS & PLATES			
0281	600 kg	Hanger, side fixing, with wheels mounted on needle roller bearings. Removable flange, which enables 2 different positions and an adaptation to 2 different panel thicknesses	2
0281S	1200 kg	Ditto with a bigger bore of the wheels and high precision needle roller bearings	2
0285	600 kg	Hanger top fixing, with 2 steel wheels mounted on needle roller bearings. Fixing screw Ø M 16.	2
0285L		Ditto with long fixing bolt (123 mm).	2
0285S	800 kg	Hanger, top fixing with 2 steel wheels mounted on high precision needle roller bearings. Fixing bolt Ø M 20.	2
0285SL		Ditto with long fixing bolt (133 mm).	2
2285	600 kg	Hanger, top fixing, 4 wheels with ball bearings, nylon tyre and glass fiber. Fixing bolt Ø M 16.	2
2285L		Ditto with long fixing bolt (123 mm).	2
2285A	800 kg	Hanger, top fixing with carbonized steel wheels mounted on ball bearings. Fixing bolt Ø M 16.	2
2285AL		Ditto with long fixing bolt (123 mm).	2
2285 S	1200 kg	Hanger, top fixing with 4 wheels equipped with precision ball bearings. Recommended for FIRE DOORS and other HIGH QUALITY doors. Fixing bolt Ø M 20.	2
2285SL		Ditto with long fixing bolt (133 mm).	2
0085		Plate, welding type Ø M 16.	2
0085S		Reinforced plate, welding type Ø M 20. See drawing on p. 17	2
0086		Plate, screwing type for top fixing Ø M 16.	2
0086W		«U» Plate, screwing type for top fixing, Ø M 16.	10
0086S		Plate, screwing type for top fixing. see drawing p. 17	2
0081		Adjustable apron set for panels from 55 - 75 mm thickness - Side fixing, screwing type.	2

GUIDES			
1115/600		U-profile 50 x 60 mm, galvanised. 6 m long	
1059		Bottom guide with olive (equipped with needle roller bearings) fixed on a screwing type plate (with square ends) - For U-profile 50 x 60 mm See dimensions and mounting instructions on p. 60	5



SLIDSOFT:
our SLIDSOFT calculation software in order to make easier your technical details
www.mantion.com



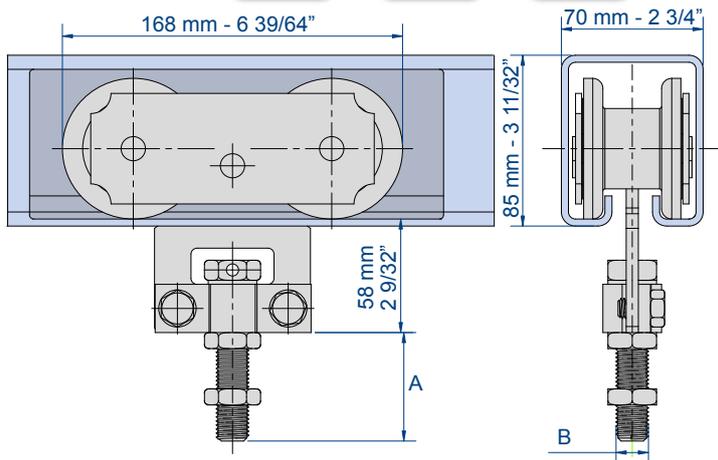


600 KG

800 KG

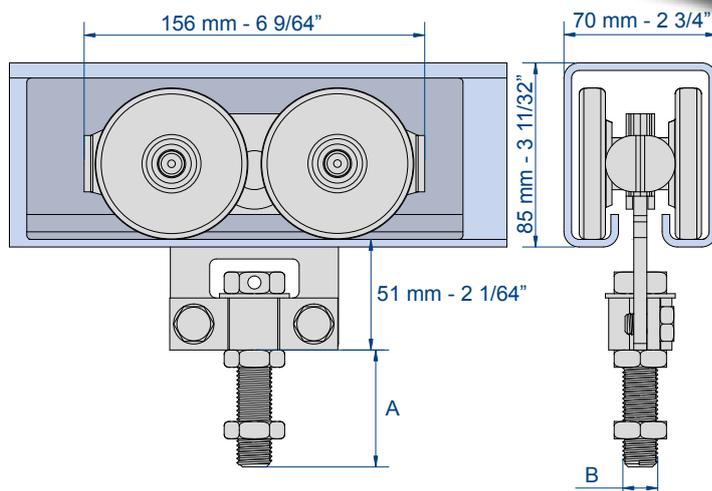
1200 KG

200 & 2200 series



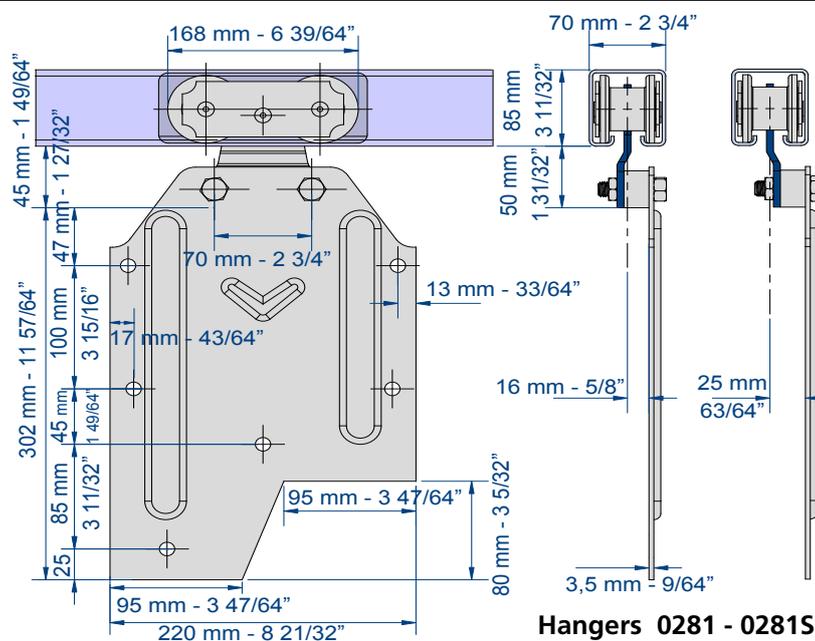
Item Nr	A	B
0285	53	M 16
0285S	63	M 20
0285L	123	M 16
0285SL	133	M 20

Hangers
0285 - 0285L
&
0285S - 0285SL



Item Nr	A	B
2285 2285A	53	M 16
2285S	63	M 20
2285L 2285AL	123	M 16
2285SL	133	M 20

Hangers
2285 - 2285 L
2285 A - 2285 AL
2285 S - 2285 SL



Hangers 0281 - 0281S

Offset bracket

Removable flange, which enables 2 different positions and an adaptation to 2 different panel thicknesses. The door axle is very close to the track axle, this avoids a back-balance

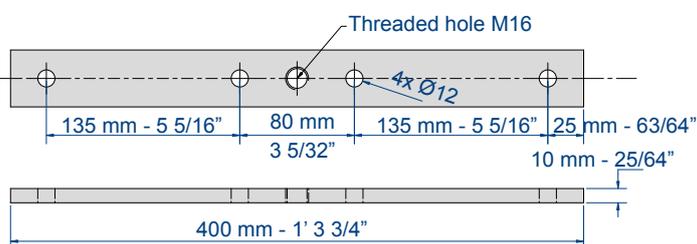


Plate 0086

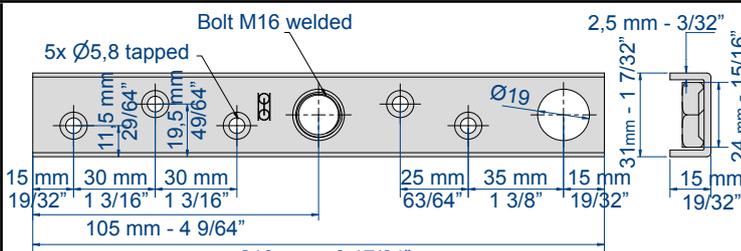


Plate 0086W

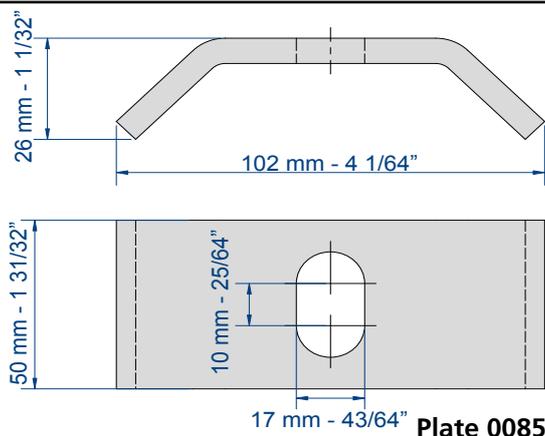
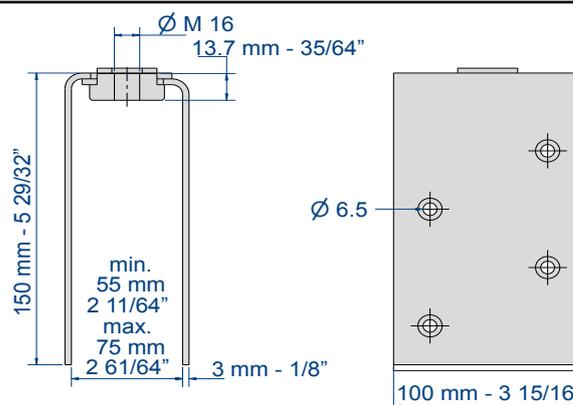


Plate 0085



Apron set 0081

TUBULAR TRACKS		
Item Nr	Description	Pack.
2525F/400	2525 F Galvanised track, drilled and countersunk every 0.44 m, 26 x 25 mm section, 4 m long	4
2525F/500		4
2525F/600		4
3530/400	3530 Galvanised track 35 x 30 mm - 4 m long	4
3530/500		4
3530/600		4
5040/400	5040 Galvanised track 50 x 40 mm - 4 m long	
5040/500		
5040/600		
6255/400	6255 Galvanised track 62 x 55 mm, in 25/10° - 4 m long	
6255/500		
6255/600		
6255/600GE	6255GE Galvanised track 62 x 55 mm, in 20/10° - 6 m long	
8570/400	8570 Galvanised track (High Limit of Elasticity steel) 85 x 70 mm - 4 m long	
8570/500		
8570/600		

CURVES FOR TUBULAR TRACK		
3530C	Curve for galvanised track 35 x 30 mm, Radius = 500 mm.	1
5040C	Curve for galvanised track 50 x 40 mm, Radius = 600 mm.	1
6255C	Curve for galvanised track 62 x 55 mm, Radius = 800 mm.	1
8570C	Curve for galvanised track 85 x 70 mm, Radius = 1000 mm.	1

GUIDING PROFILES		
1109/400	1109 Galvanised U profile 25 x 17 mm - 4 m long.	4
1109/500		4
1109/600		4
1110/400	1110 Galvanised U profile 30 x 30 mm - 4 m long.	4
1110/500		4
1110/600		4
1115/600	1115 Galvanised U profile 50 x 60 mm - 6 m long.	

GUIDING CURVES		
1109C	Galvanised curve for U profile 25 x 17 mm, Radius = 500 mm.	
1111C	Galvanised curve for U profile 30 x 30 mm, Radius = 600 mm.	
1112C	galvanised curve for U profile 30 x 30 mm, Radius = 800 mm.	
1113C	Galvanised curve for U profile 30 x 30 mm, Radius = 1000 mm.	

TRACK	3530	5040	6255	8570
Track stop	1098	1098	2098	2098



The capacities are indicated for a manual operation. In case of automatic operation, the capacity must be divided by 2.

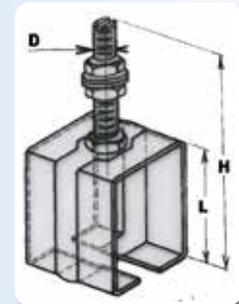
Check the dimensions and particularly the opening dimension. If this dimension is not correct, adjust the track by narrowing or widening its sides.

Joining two tracks can weaken an installation: it is essential to use joining brackets (see on p.57) in order to insure perfect assembly, without track disalignement. Welding has to be excluded.

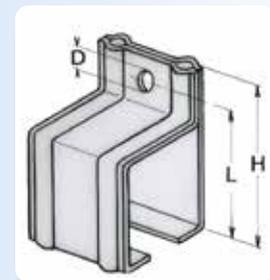
Before the use of the doors, it is recommended that the inside of the tracks be correctly cleaned and greased with bodied oil. To avoid any faulty sliding of the door, it is necessary to grease the inside of the tracks at least every 6 months.



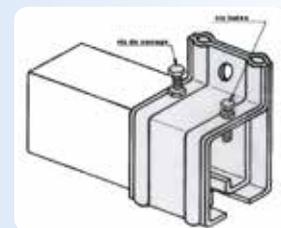
Track section:	25 x 25	35 x 30	50 x 40	62 x 55	85 x 70	85 x 70
Description	Item Nr					
	2521	3531	5041	6256	8571	8578MC*
	2521L	3531L	5041L	6256L	8571L	8578ML*
		3631	5141	6356	-	-
		3634	5144	6359	-	-
	2521M	3531M	5041M	6256M	8578M*	8578M*
	2521MC	3531MC	5041MC	6256MC	8578MC*	8578MC*
	2521ML	3531ML	5041ML	6256ML	8578ML*	8578ML*
		3631M	5141M	6356M	-	-
		3634M	5144M	6359M	-	-



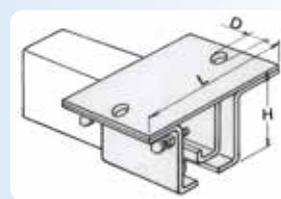
Fixing bracket



Wall-fixing bracket



Use of the jointing bracket as end bracket



*All versions of the item Nr 8578 must be used with reinforced plates **8573S** or **8576S** in case of heavy loads, and even more so with the «S» version hangers.

For the fixing of the tracks, it is recommended that a bracket be placed every **0.70 m**. For doors from 500 Kg and over, a bracket every **0.50 m** is **recommended**

Item Nr	Dim. D	Dim. H	Dim. L	Item Nr	Dim. D	Dim. H	Dim. L
2521	8	58	38	5144	10,5	57	100
2521L	8	88	38	6256	14	125	86
3531	10	85	50	6256L	14	180	86
3531L	10	135	50	6356	12,5	96	83
3631	8,2	57	49	6359	12,5	69	130
3634	6,5	41	76	8571	20	162	110
5041	12	116	67	8571L	20	227	110
5041L	12	170	67	8578MC	20	162	118
5141	10,5	78	67	8578ML	20	227	118

	TRACK	Item Nr	A		B		C	D	E	F	G
			Min.	Max.	Min.	Max.					
 Plate - Sealing type	35x30	3532	60	80	29	29	80				
	50x40	5042	80	100	34	34	150				
	62x55	6257	100	120	41	41	165				
	85x70	8572	135	150	53	53	180				
 Angle plate Screwing type	25x25	2523	70	100	13	24	26	30	21	4,2	32
	35x30	3533	89	104	20	30	35	44	30	6,5	40
	50x40	5043	115	133	25	40	40	60	42	8,5	60
	62x55	6258	137	152	35	50	50	70	48	10,5	70
	85x70	8573	198	216	45	60	80	100	72	11	90
	85x70	*8573S	190	206	45	60	70	100	70	12,5	90
 Soffit fixing plate screwing type	25x25	2524	60	95	25	25	90	6,5			
	35x30	3534	85	95	25	25	90	6,5			
	50x40	5044	110	125	35	35	110	8,5			
	62x55	6259	130	145	60	60	155	10,5			
	85x70	8574	165	180	70	70	155	12,5			
 Adjustment plate Sealing type	35x30	3535	82	127	40	65	165				
	50x40	5045	110	155	50	85	230				
	62x55	6260	140	165	70	98	290				
	87x70	8575	175	210	90	110	345				
 Adjustment plate Screwing type	35x30	3536	97	142	40	65	110	30	35	6,5	
	50x40	5046	128	173	50	85	132	43	40	7,5	
	62x55	6261	155	180	70	98	170	57	50	8,5	
	85x70	8576	180	225	90	110	210	72	65	10,5	
	85x70	**8576S	180	225	90	110	210	74	65	10,5	
 Fixing bracket For I-beam	35x30	3537	50	75	46	91					
	50x40	5047	60	80	46	91					
	62x55	6262	60	80	46	91					
	85x70	8577	75	95	46	91					
 Ornamental cap for end track	35x30	3540									
	50x40	5050									
	62x55	6265									
	85x70	8580									

*All versions of fixing and jointing brackets 8578 require the use of these reinforced plates.

**All versions of fixing and jointing brackets 8578 ML require the use of these reinforced plates.

- The capacity of the hanger must be determined by the door weight
- For the bottom guiding, please refer to our instructions (see on p. 56 and 57).
- The end stops must be placed at mid-height of the door
- For the track 5040 and upwards, stops with rubber buffers have to be used