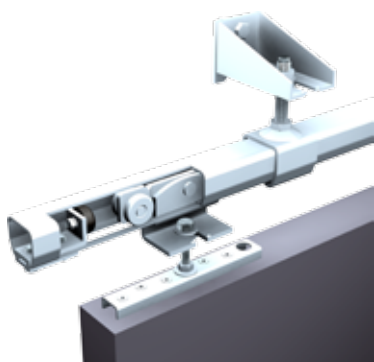




MANTION

HERCULE® - SPORTUB® - MINISPORT®



[®]
CATALOGUE
HERCULE
911A

We offer you the widest range of fittings for sliding doors

MANTION HAS AN INTERNATIONAL REPUTATION BASED ON :

- innovation and a permanent adaptation of its range of products to its customers' needs.
- a quality product, which responds to the requirements of the strictest standards.

THE MANTION KNOW-HOW MEANS BEFORE ALL :

- its team : people with experience and great skills who do their best to keep bringing you the best service.
- its permanent investment policy combined to the newest technologies.

WITH MANTION, YOU BENEFIT FROM A TOP QUALITY SERVICE :

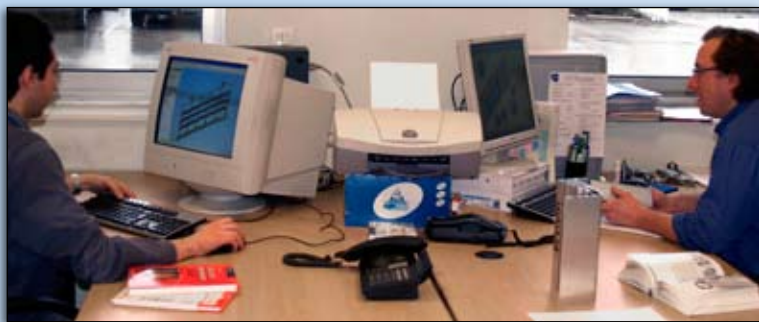
- Salesmen who listen to your needs and advise you.
- A strong technical aid : an engineering department and technical advisers at your disposal.
- The study and the development of special products upon request.
- Very short delivery time.
- Very high quality products.

MANTION, THIS IS ALSO A COMPLETE RANGE :

- Fittings for sliding and folding doors.
- Fittings for sectional doors.
- Fittings for glass doors.
- Fittings in stainless steel quality A2 and A4.

Since **MANTION** has always cared about bringing you the best services within its organization and quality for its products, it is now up to standard :
ISO EN ISO 9001 : 2000





TRACKS OF QUALITY

MANTION manufactures its tracks at its factory in Besançon according to its own production process. This ensures a long durability and an optimal reliability of its hardware products.



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 wear.

What does the European standard EN 1527 indicate ?

- It defines **objective quality criteria for a complete set of fittings for sliding doors** (tracks, brackets, hangers, 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 100 kg Height : 2 meters Width : 0.80 meters
- ➔ Door over 100 kg Height : 2 meters Width : 2 meters

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

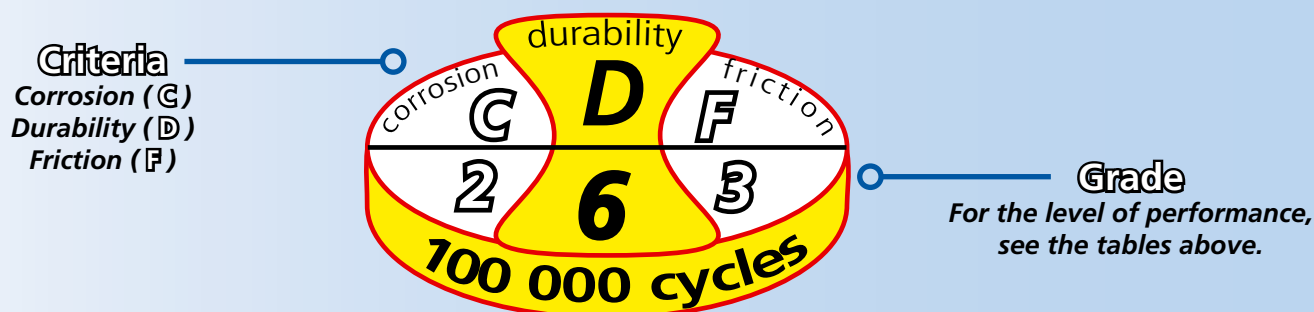
	grade 1	grade 2	grade 3	grade 4
CORROSION RESISTANCE [C]	24 h*	48 h*	96 h*	240 h*

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

INITIAL FRICTION [F]	grade 1	grade 2	grade 3
Door of 50 kg	50N*	40N*	30N*
Door from 51 to 100 kg	80N*	60N*	40N*
Door from 101 to 300 kg	100N*	5%*	4%*
Door over 300 kg	5%*	4%*	3%*

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

	grade 1	grade 2	grade 3	grade 4	grade 5	grade 6
DURABILITY [D]	2 500 c*	5 000 c*	10 000 c*	25 000 c*	50 000 c*	100 000 c*



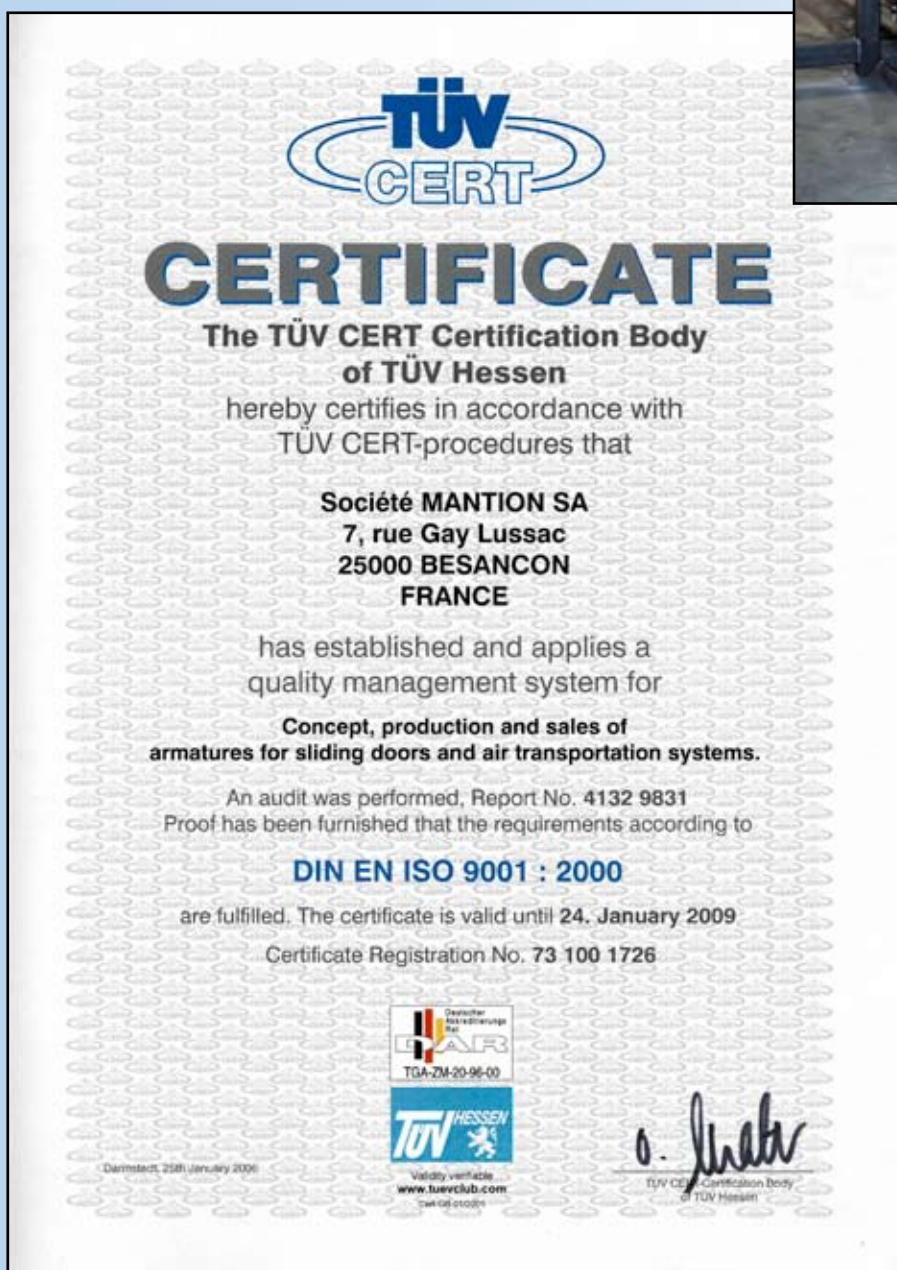
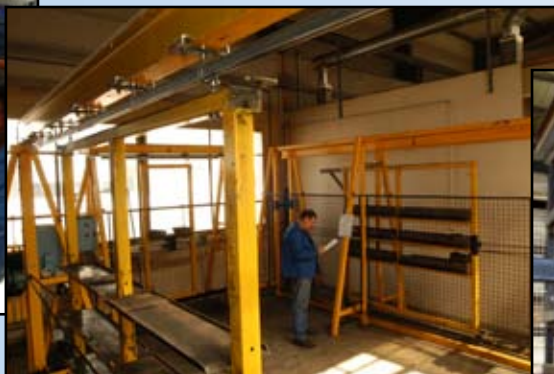
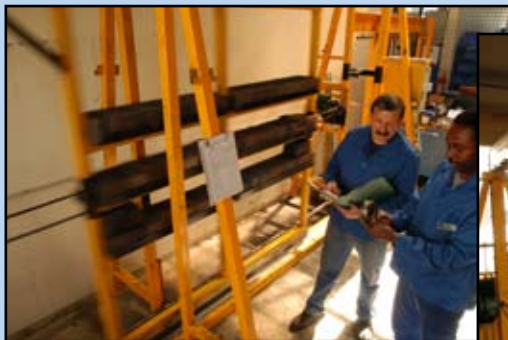
Mantion certifies* the performance of its fittings for sliding doors and gives you the guaranty of high quality products.

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, hangers, brackets, stops and guides which are used and installed according to Mantion instructions (capacity and number of cycles).

MANTION AND ITS TEST LABORATORY :

Mantion, which always focuses on the quality of its products, has one of the biggest test laboratories for sliding systems in Europe. 5 test stands enable Mantion to assay the endurance of all its sliding systems in order to comply with the requirements of the ISO 9001 standard.





9200 Fittings for *STRAIGHT sliding doors*

9



Doors up to 90 kg	10-11
Doors up to 180 kg	12-13
Doors up to 400 kg	14-15
Doors up to 900 kg	16-17
Doors up to de 2000 kg	18-19
Doors up to 3000 kg	20-21
STAINLESS STEEL range	22-23



9300 Fittings for *LATERAL displacement door*

24



With screwing type hinges	26-27
With welding type hinges	28-29
With angle plates	30-31
GARLINE series for residential door	32-33



9500 Fittings for *SLIDING DOORS with equal panels*

34



With screwing type hinges	36-37
With welding type hinges	38-39
With angle plates	40-41

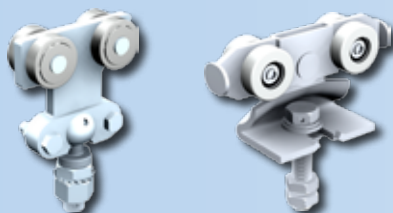
9600 Fittings for CONCERTINA FOLDING doors with a half panel

42



SPECIAL ITEMS

46



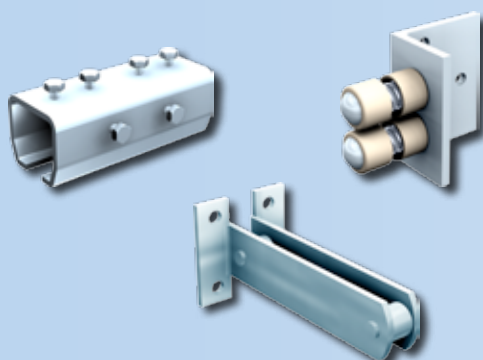
Hangers with ball 47

STARAL (Aluminium range) 48-49

AIRSTOP (hermetic doors) 50-51

TRACKS & ACCESSORIES

52



Tracks & profiles 52

Jointing and fixing brackets 54

Fixing plates 55

Accessories 56-57

Guides 58-59

SUGGESTIONS & RECOMMENDATIONS

60

INDEX

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THE MANTION PRODUCT RANGES

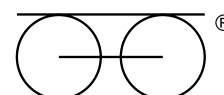
66

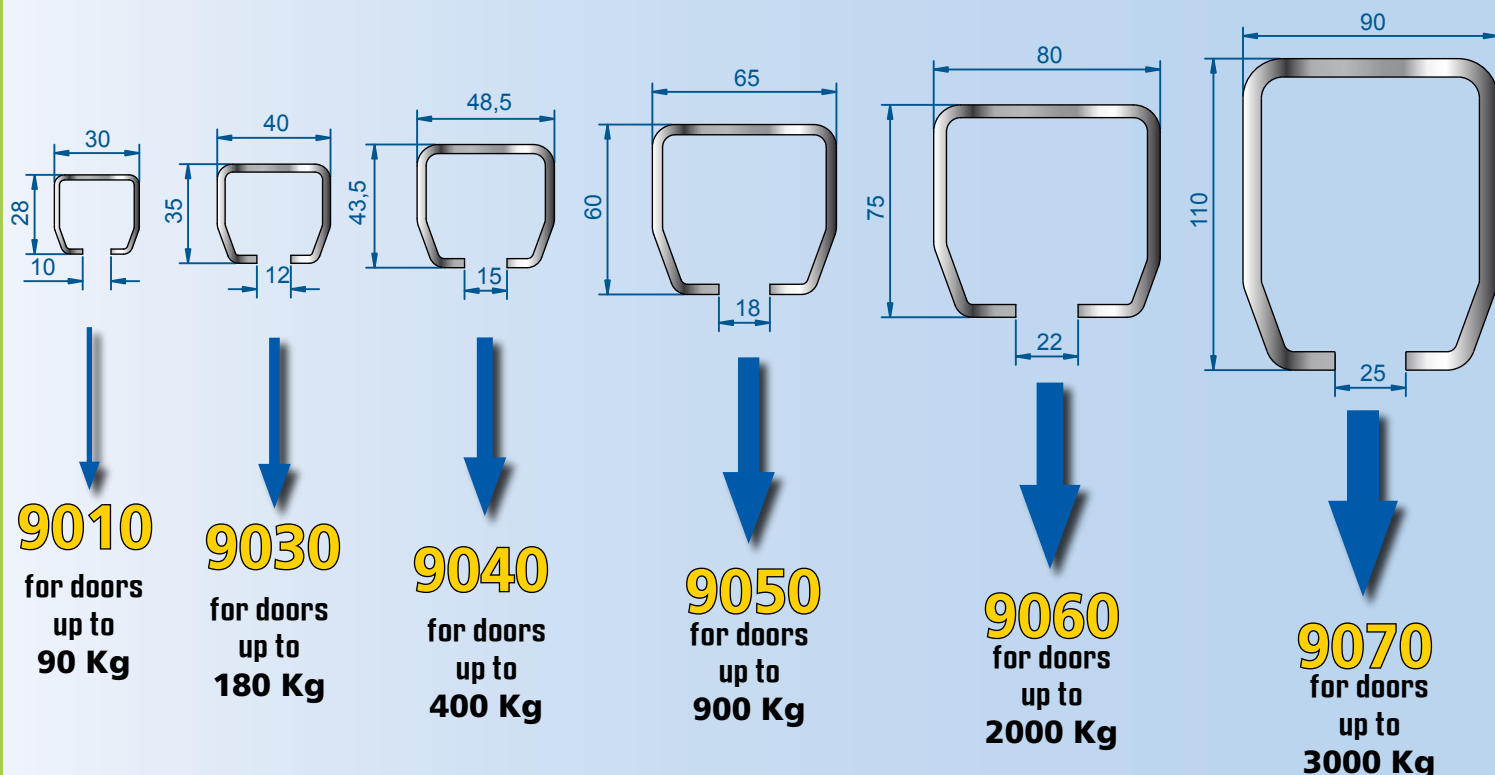
GENERAL CONDITIONS OF SALES

67

This document is not contractual. All specifications can be modified without prior notice.

The **MANTION** fittings for gates and doors are designed and tested to guarantee an optimal and durable use of your installation.
In order to benefit from its guarantee, it is mandatory to use only **MANTION** fittings, tracks, brackets and other accessories.



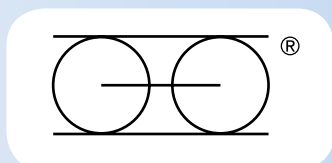


In order to guaranty high quality systems, MANTION manufactures its own profiles :

- 3 bending and rolling machines enable Manton to roll any metal thickness up to **6.5 mm** at a short time notice
- This also allows Manton to produce **special lengths** on request and within a short delivery time

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

- All Manton profiles have a reinforced galvanisation (Sendzimir process) : Z 350 in order to preserve their quality under any climatic condition
- The **9030 - 9040 - 9050 - 9060 and 9070** tracks are made of steel of High Limit Elasticity. This ensures better resistance and durability.



Request the MANTION logo : guaranty of quality



Sliding systems for STRAIGHT SLIDING doors

9200 series



<i>Doors up to 90 kg</i>	<i>10-11</i>
<i>Doors up to 180 kg</i>	<i>12-13</i>
<i>Doors up to 400 kg</i>	<i>14-15</i>
<i>Doors up to 900 kg</i>	<i>16-17</i>
<i>Doors up to 2000 kg</i>	<i>18-19</i>
<i>Doors up to 3000 kg</i>	<i>20-21</i>
<i>Stainless steel range</i>	<i>22-23</i>


CAPACITY/DOOR : 90 kg max.

TRACK : 9010

MOTION : STRAIGHT


- **High stability** : all hangers are designed to be in permanent contact with the track.
- **Electrolytic protection** of all hangers
- Hangers can be fixed on the side or on the top

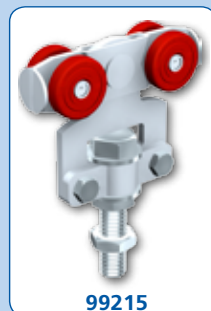
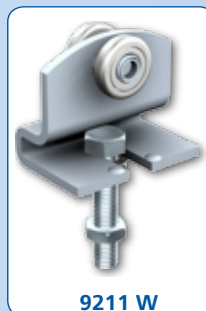
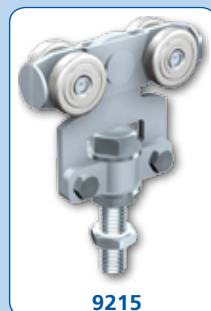
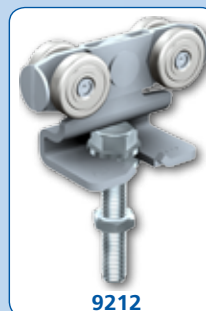
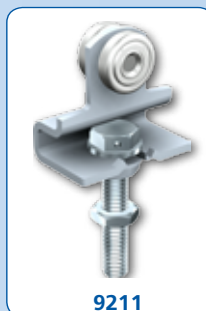
TRACKS

Item Nr	Description	
9010/600	Galvanised track 28 x 30 mm, 6 m long.	4
9010N/600	Plain track (untreated) 28 x 30 mm, 6 m long.	4

capacity per door

HANGERS & PLATES

Item Nr	Description	screw Ø	
9211	Hanger with swanneck and 2 steel wheels mounted on balls.	Ø M10	2
9211 W	Hanger with swanneck and 2 steel wheels mounted on balls.	Ø M10	2
99212	60 kg Hanger with swanneck and 4 Delrin wheels mounted on smooth axle.	Ø M10	2
99215	Hanger with removable collar and 4 Delrin wheels mounted on smooth axle.	Ø M10	2
9216	Welding type hanger, with 4 steel wheels mounted on balls.		2
9212	80 kg Hanger with swanneck and 4 steel wheels mounted on balls	Ø M10	2
9215	Hanger with removable collar and 4 steel wheels mounted on balls	Ø M10	2
9214	90 kg Hanger with swanneck and 4 steel wheels mounted on balls	Ø M10	2
36	Top fixing screwing plate	Ø M10	20
36 W	"U" plate for top fixing	Ø M10	
37	Angle plate for side fixing	Ø M10	10
31	Adjustable apron set for panels of 25 to 35 mm thickness - Capacity : 40 Kg	Ø M10	



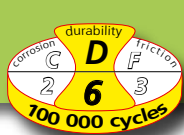
Did YOU KNOW ?



For floor guiding : see on page 58

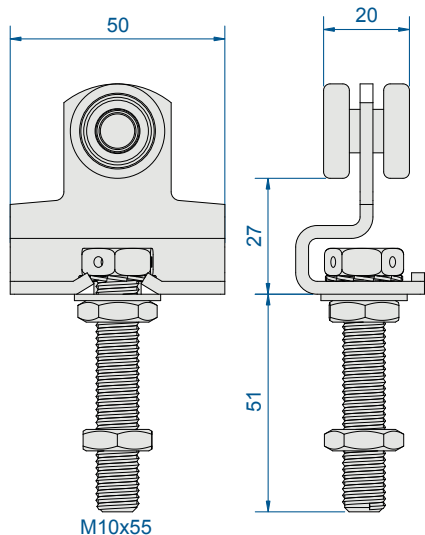
GALVANIZING PROPERTIES :

Zinc has the property of regenerating itself by surface recovering if it is altered, e.g : scraped or scratched. Thus, a track, after being scratched or cut recovers its protection entirely through galvanization. The MANTION treatment : Sendzimir Z350 process allows recovering of up to 2 mm recovering.

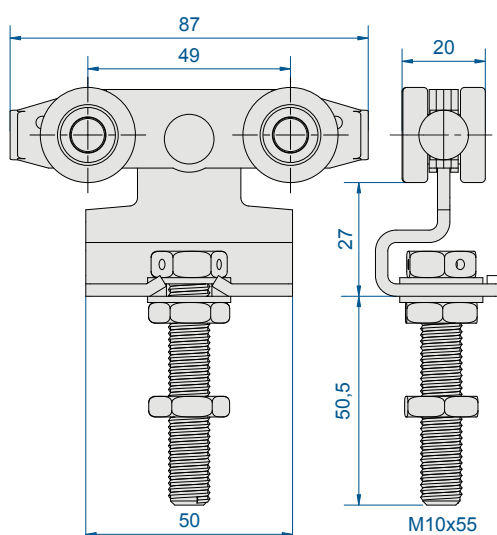


60 KG → **90 KG**

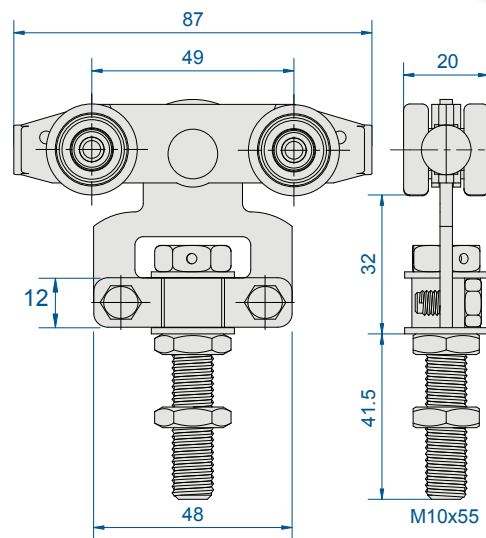
9210 series



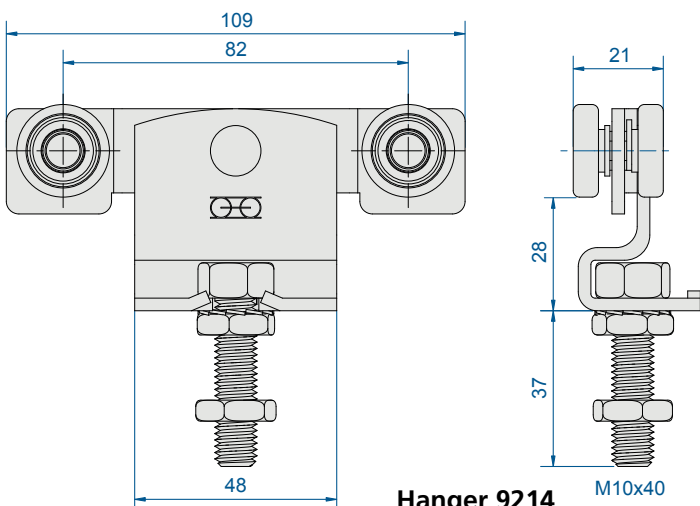
Hanger 9211



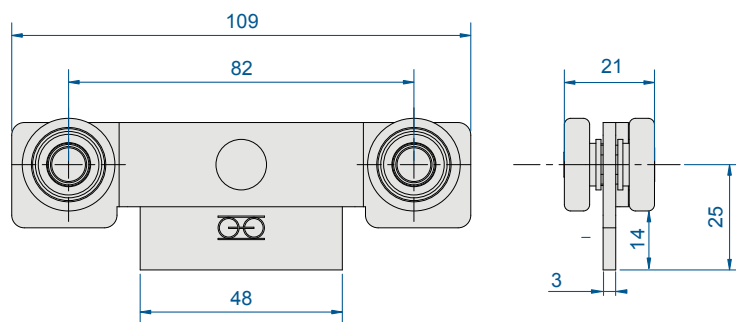
Hangers 9212 - 99212



Hangers 9215-99215



Hanger 9214



Hanger 9216

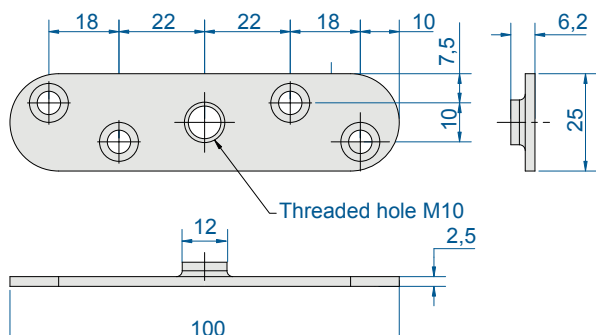


Plate 36

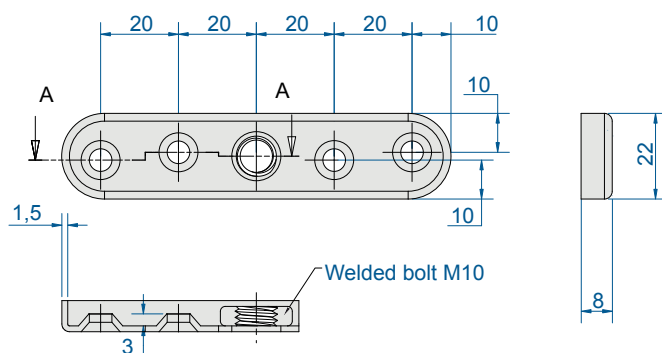


Plate 36 W

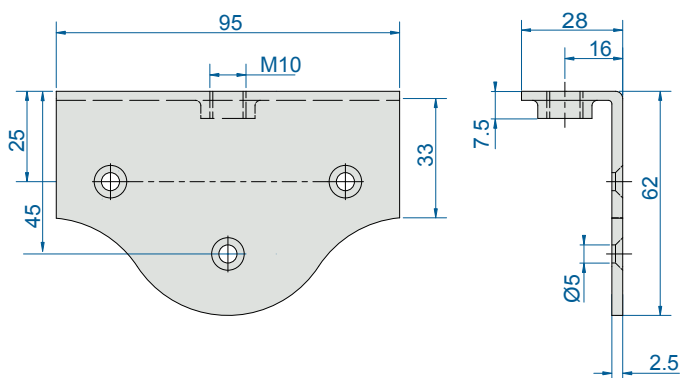
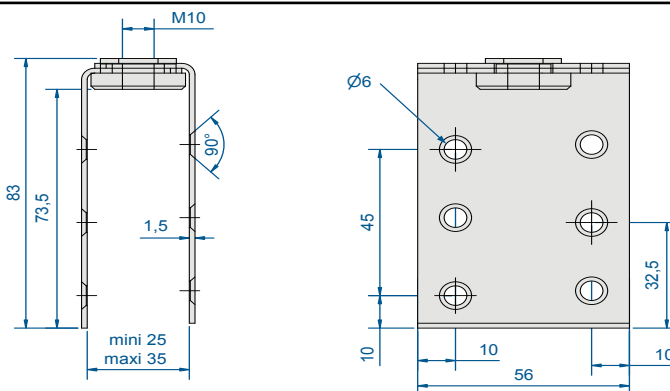


Plate 37




Apron set 31

CAPACITY/DOOR : 180 kg max.


TRACK : 9030

MOTION : STRAIGHT

- **High stability :** all hangers are designed to be in permanent contact with the track.
- **Electrolytic protection** of all hangers
- **For special applications :** hangers with a screw of 70 mm longer than the standard version

TRACKS		
Item Nr	Description	
9030/600	Galvanised track 35 x 40 mm, 6 m long	
9030N/600	Plain track (untreated) 35 x 40 mm, 6 m long.	

capacity per door

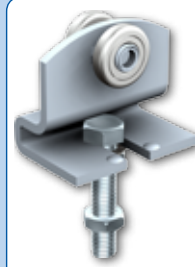
HANGERS AND PLATES				
Item Nr	Description	screw Ø		
9231	Hanger with swanneck and 2 steel wheels mounted on balls.	Ø M12	2	
9231 L	Ditto with long fixing bolt (140 mm)	Ø M12	2	
9231 W	Hanger with swanneck and 2 steel wheels mounted on balls.	Ø M12	2	
9236	Welding type hanger, with 4 steel wheels mounted on balls.		2	
9232	Hanger with swanneck and 4 steel wheels mounted on balls	Ø M12	2	
9232 L	Ditto with long fixing bolt (140 mm)	Ø M12	2	
9235	Hanger with removable collar and 4 steel wheels mounted on balls.	Ø M12	2	
9235 L	Ditto with long fixing bolt (140 mm)	Ø M12	2	
9234	Hanger with swanneck and 4 steel wheels mounted on balls	Ø M12	2	
55	Top fixing welding plate	Ø 13	10	
56	Top fixing screwing plate	Ø M12	10	
56 W	"U" plate for top fixing	Ø M12	10	
51	Adjustable apron set for panels of 40 to 50 mm thickness - Capacity : 90 Kg	Ø M12	16	



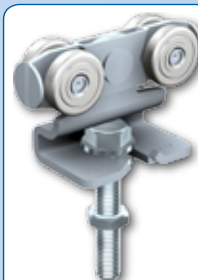
9030



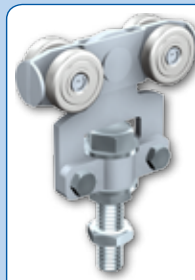
9231 - 9231 L



9231 W



9232 - 9232 L



9235 - 9235 L



9234



9236



55



51



56



56 W

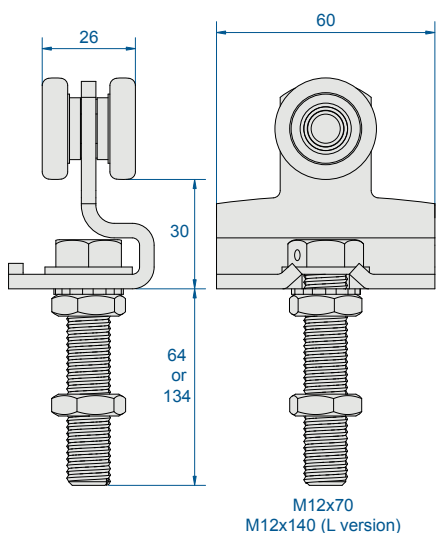
DID YOU KNOW ?



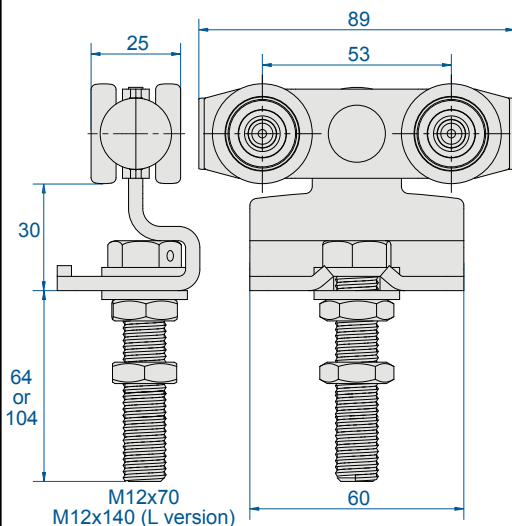
DIP-GALVANIZING :

Mantion tracks are dip-galvanized (Sendzimir). Apart for the reinforced density of the galvanizing, this technique is the only way to uniformly protect all parts of the track (including the interior part).

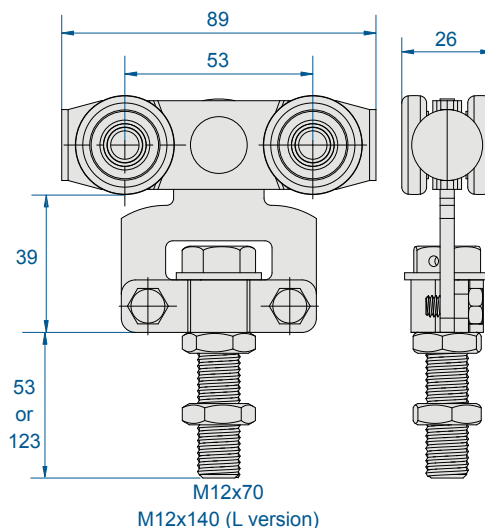
For floor guiding : see on page 58



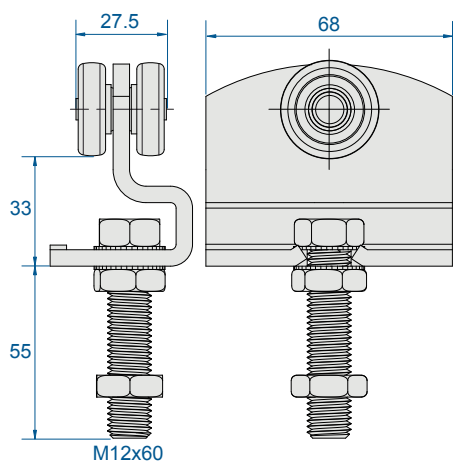
Hangers 9231 - 9231 L



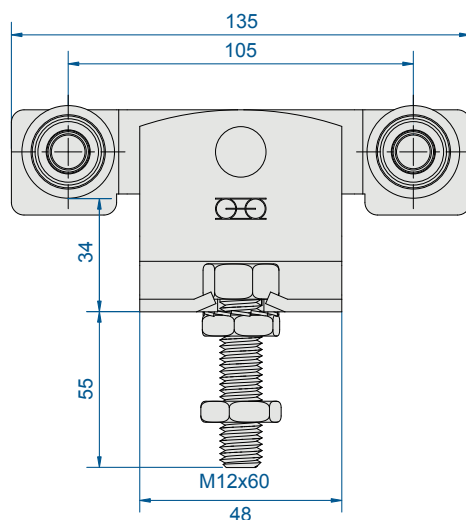
Hangers 9232 - 9232 L



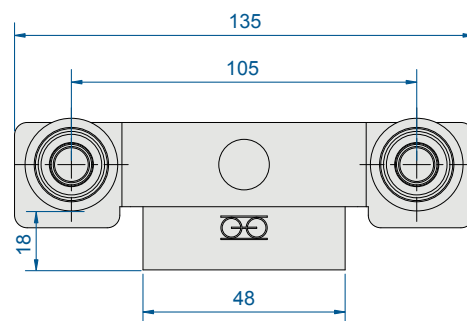
Hangers 9235 - 9235 L



Hanger 9231 W



Hanger 9234



Hanger 9236

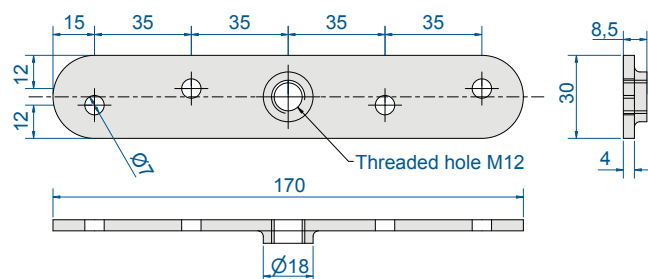


Plate 56

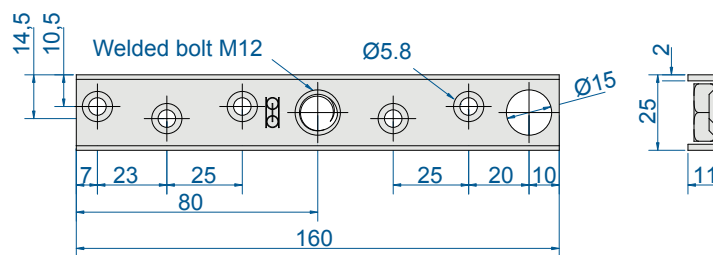


Plate 56 W

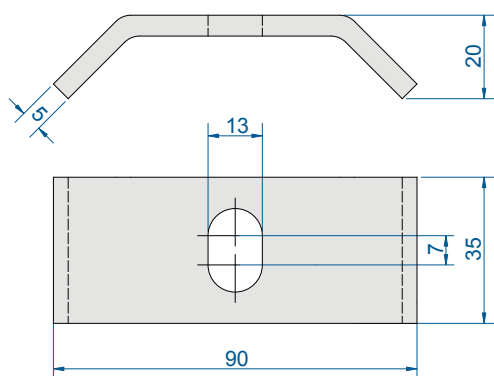
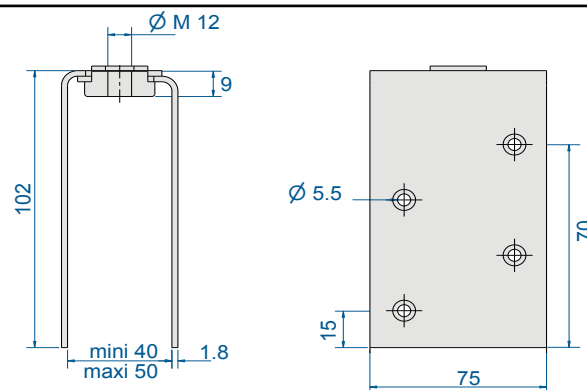


Plate 55



Apron set 51

CAPACITY/DOOR : 400 kg max.

TRACK : 9040

MOTION : STRAIGHT

- Electrolytic protection of all hangers
- For fire doors : Hangers 9242 S and 9242 SL completely made of steel and equipped with ball bearings
- Hangers designed for automatic operated doors : 9242 SE
- For special applications : « L version » hangers with a 70 mm longer screw

TRACKS

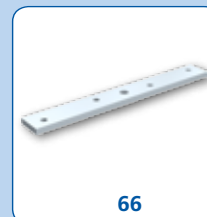
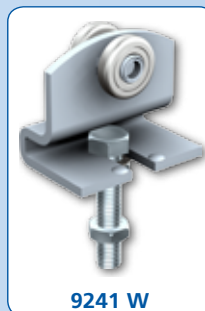
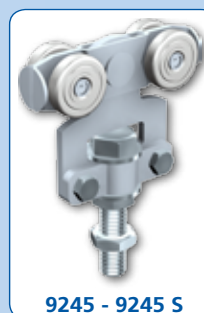
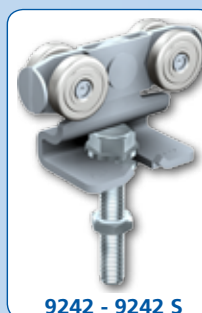
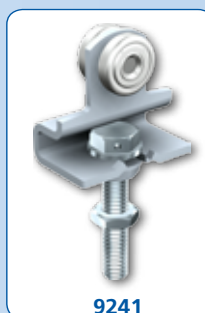
Item Nr	Description	
9040/600	Galvanised track 43.5 x 48.5 mm, 6 m long	4
9040N/600	Plain track (untreated) 43.5 x 48 mm, 6 m long.	4



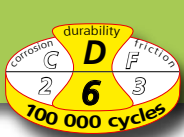
capacity per door

HANGERS & PLATES

Item Nr	Description	screw Ø	
9241	Hanger with swanneck and 2 steel wheels mounted on balls.	Ø M14	2
9241 L	Ditto with long fixing bolt (140 mm)	Ø M14	2
9241 W	Hanger with swanneck and 2 steel wheels mounted on balls.	Ø M16	2
9246	Welding type hanger, with 4 steel wheels mounted on ball bearings.		2
9242	Hanger with swanneck and 4 steel wheels mounted on balls	Ø M14	2
9242 L	Ditto with long fixing bolt (140 mm)	Ø M14	2
9242 S	Hanger with swanneck and 4 steel wheels mounted on ball bearings	Ø M14	2
9242 SL	Ditto with long fixing bolt (140 mm)	Ø M14	2
9244	Hanger with swanneck and 4 steel wheels mounted on ball bearings	Ø M16	2
9245	Hanger with removable collar with 4 steel wheels mounted on balls.	Ø M14	2
9245 L	Ditto with long fixing bolt (140 mm)	Ø M14	2
9245 S	Hanger with removable collar, with 4 steel wheels mounted on ball bearings	Ø M14	2
9245 SL	Ditto with long fixing bolt (140 mm)	Ø M14	2
9242 SE	Hanger for automatic doors, idem 9242 S with a guiding wheel at each end.	Ø M14	2
9242 SEL	Ditto with long fixing bolt (140 mm)	Ø M14	2
65	Top fixing welding plate	Ø 15	10
66	Top fixing screwing plate	Ø M14	
86	Reinforced top fixing screwing plate	Ø M16	
86 W	Reinforced U-plate, top fixing	Ø M16	2
61	Adjustable apron set for panels of 50 to 65 mm thickness Capacity : 200 Kg	Ø M14	24

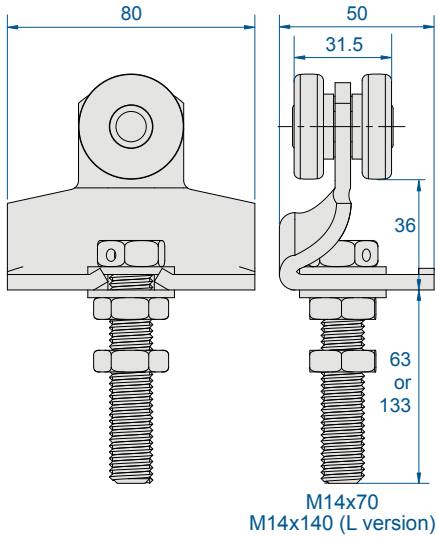


For floor guiding : see on page 58

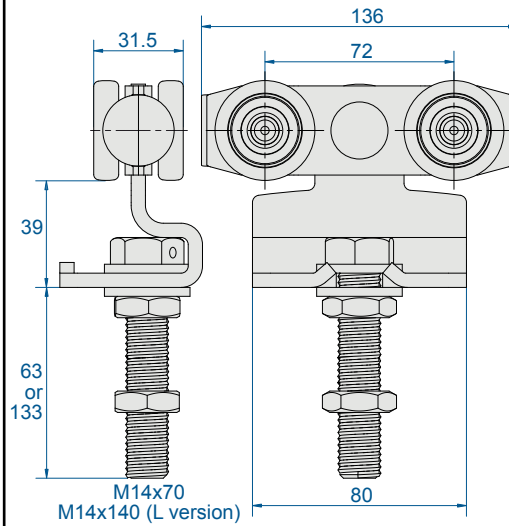


200 KG → **400 KG**

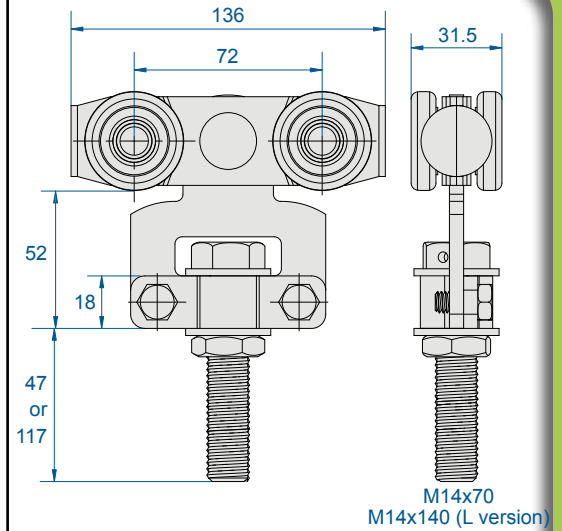
9240 series



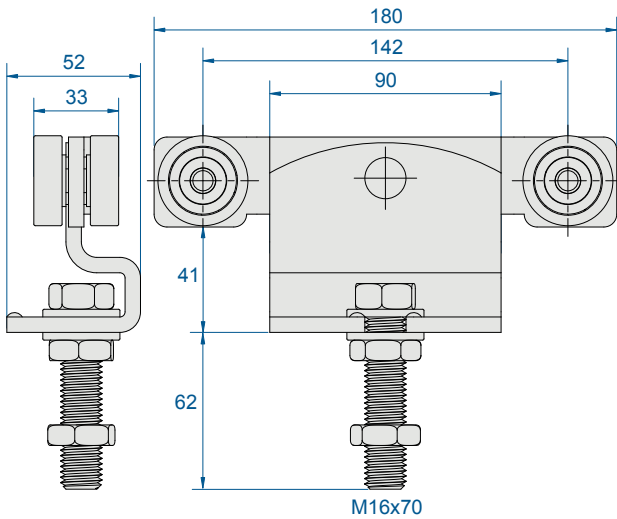
Hangers 9241 - 9241 L



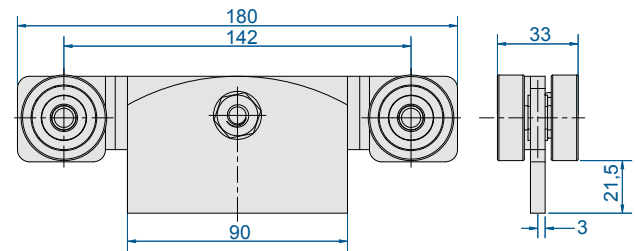
Hangers 9242 - 9242 L
Hangers 9242 S - 9242 SL



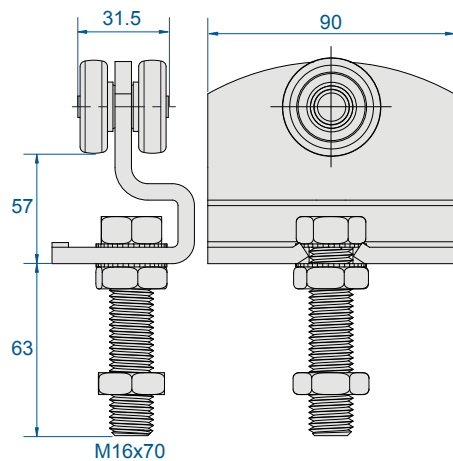
Hangers 9245 - 9245 L
Hangers 9245 S - 9245 SL



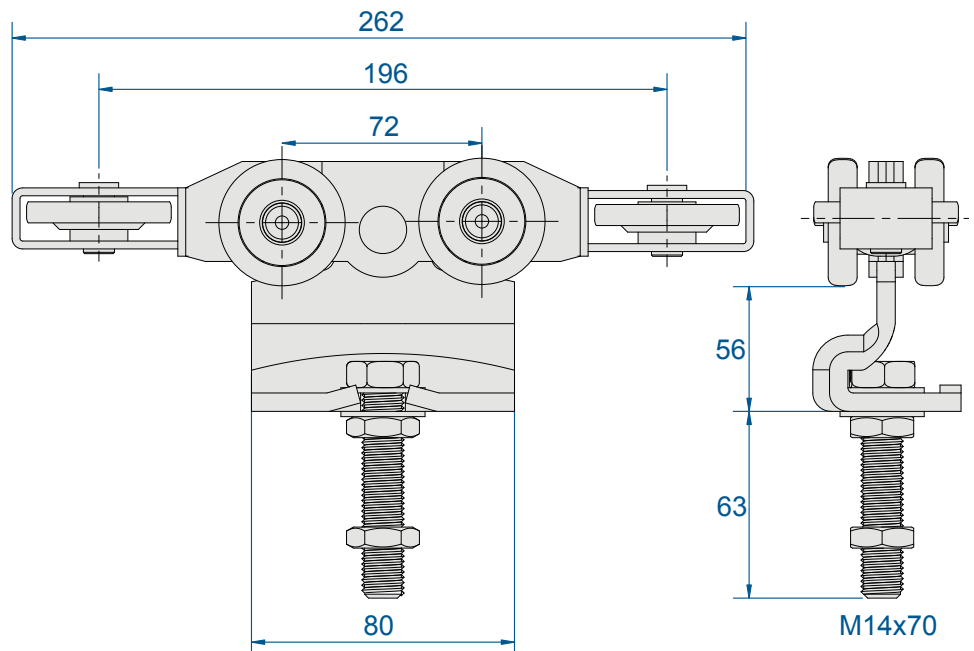
Hanger 9244



Hanger 9246



Hanger 9241 W



Hanger 9242 SE

CAPACITY/DOOR : 900 kg max.

TRACK : 9050

MOTION : STRAIGHT

- Electrolytic protection of all hangers
- For fire doors : Hangers 9252 S and 9252 SL completely made of steel and equipped with ball bearings
- Hangers designed for automatic operated doors : 9252 SE
- For special applications : « L version » hangers with a 70 mm longer screw

TRACKS

Item Nr	Description	
9050/600	Galvanised track 60 x 65 mm. 6 m long	4
9050N/600	Plain track (untreated) 60 x 65 mm. 6 m long.	4

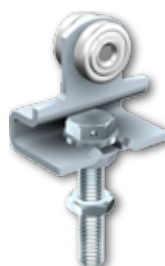
capacity per door

HANGERS & PLATES

Item Nr	Description	screw Ø	
9251	Hanger with swanneck and 2 steel wheels mounted on balls.	Ø M16	2
9251 L	Ditto with long fixing bolt (150 mm)	Ø M16	2
9251 W	Hanger with swanneck and 2 steel wheels mounted on balls.	Ø M20	2
9256 S	Welding type hanger, with 4 steel wheels mounted on ball bearings.		2
9252	Hanger with swanneck and 4 steel wheels mounted on balls	Ø M16	2
9252 L	Ditto with long fixing bolt (150 mm)	Ø M16	2
9252 S	Hanger with swanneck and 4 steel wheels mounted on ball bearings	Ø M16	2
9252 SL	Ditto with long fixing bolt (150 mm)	Ø M16	2
9254 S	Hanger with swanneck and 4 steel wheels mounted on ball bearings	Ø M20	2
9255	Hanger with removable collar, with 4 steel wheels mounted on ball bearings	Ø M16	2
9255 L	Ditto with long fixing bolt (150 mm)	Ø M16	2
9255 S	Hanger with removable collar, with 4 steel wheels mounted on ball bearings	Ø M16	2
9255 SL	Ditto with long fixing bolt (150 mm)	Ø M16	2
9252 SE	Hanger for automatic doors, idem 9252S equipped with a guiding wheel at each end	Ø M16	2
9252 SEL	Ditto with long fixing bolt (150 mm)	Ø M16	2
9258 S	Top fixing hangers with 8 wheels mounted on balls	Ø M20	2
9258 SL	Ditto with long fixing bolt (160 mm)	Ø M20	2
85	Plate, welding type for top fixing	Ø 17	10
85 S	Reinforced plate, welding type for top fixing	Ø 21	10
86	Plate, screwing type for top fixing	Ø M16	
86 S	Reinforced plate, screwing type for top fixing	Ø M20	
86 SW	Reinforced "U" plate, top fixing	Ø M20	
81	Adjustable apron set for panels of 50 to 75 mm thickness Capacity : 400 Kg	Ø M16	24



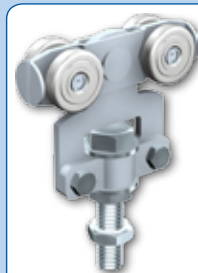
9050



9251



9252 - 9252 S



9255 - 9255 S



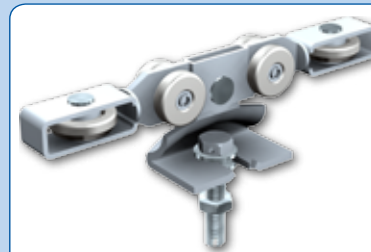
9251 W



9256 S



9254 S



9252 SE



9258 S



81



85 - 85 S



86

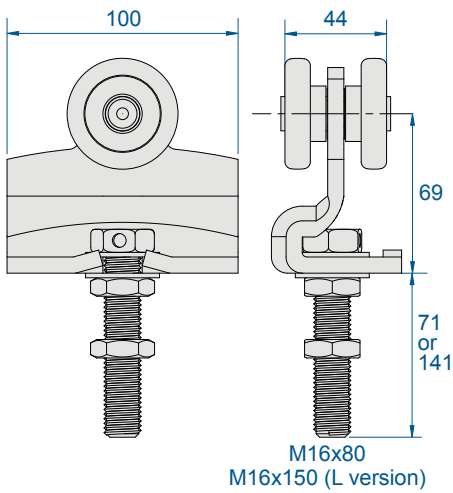


86 SW

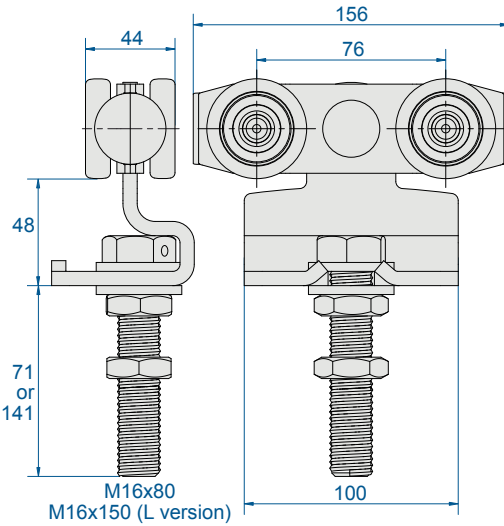


86 S

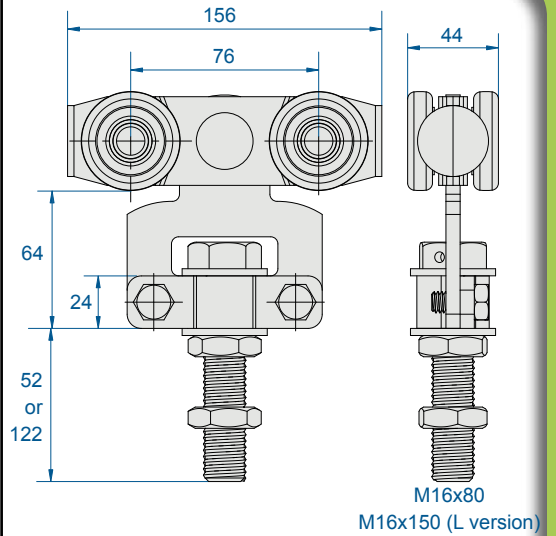
For floor guiding : see on page 58



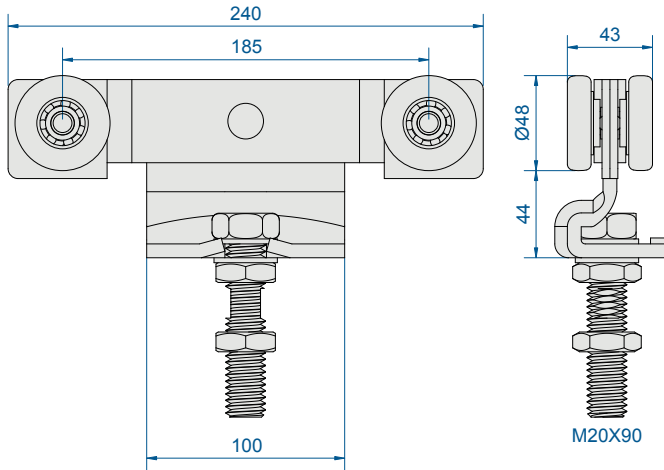
Hanger 9251 - 9251 L



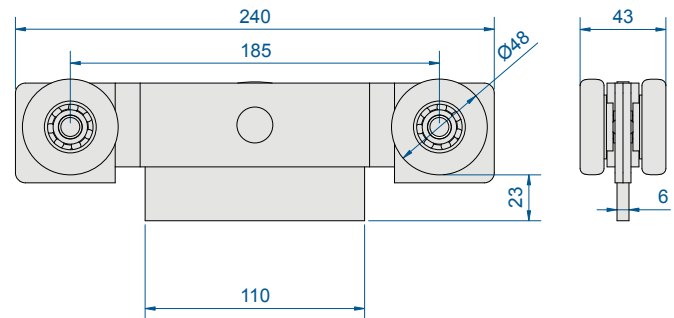
**Hangers 9252 - 9252 L
Hangers 9252 S - 9252 SL**



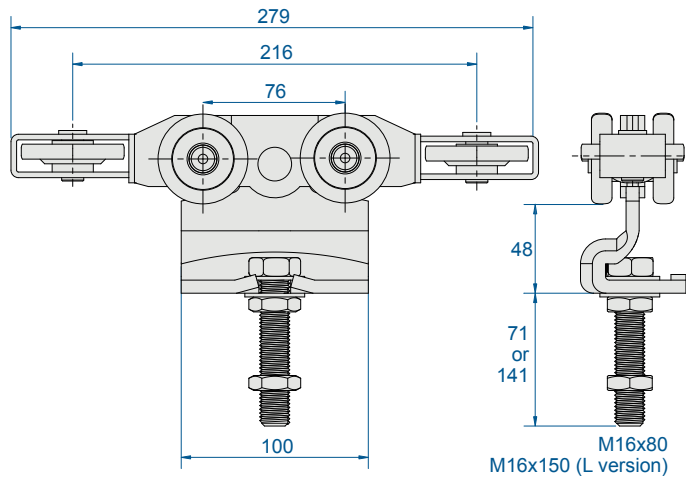
**Hangers 9255 - 9255 L
Hangers 9255 S - 9255 SL**



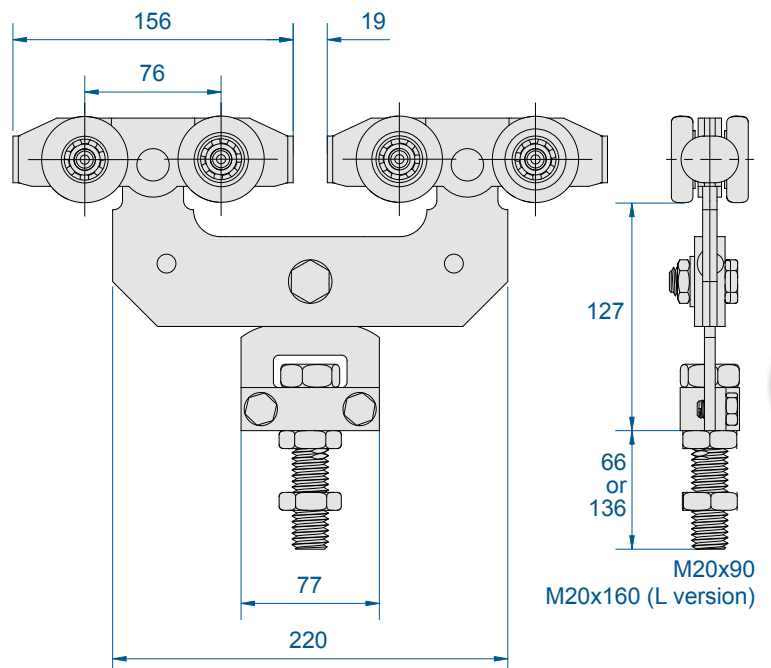
Hanger 9254 S



Hanger 9256 S



Hanger 9252 SE - 9252 SEL



Hanger 9258 S - 9258 SL


CAPACITY/DOOR : 2000 kg max.

TRACK : 9060

MOTION : STRAIGHT

- Electrolytic protection of all hangers
- For fire doors : Hangers 9262 S and 9262 SL completely made of steel and equipped with ball bearings
- Hangers designed for automatic operated doors : 9262 SE
- For special applications : « L version » hangers with a 70 mm longer screw


TRACKS

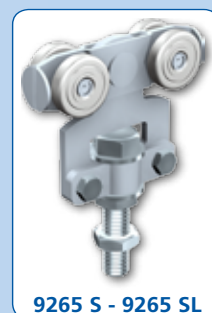
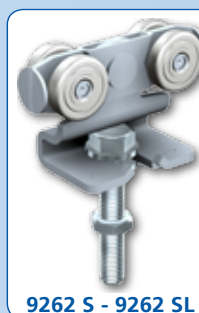
Item Nr	Description	
9060/600	Galvanised track 75 x 80 mm. 6 m long	4
9060N/600	Plain track (untreated) 75 x 80 mm. 6 m long.	4



capacity per door

HANGERS & PLATES

Item Nr	Description	screw Ø	
9262 S	Hanger with swanneck and 4 steel wheels mounted on ball bearings.	Ø M20	2
9262 SL	Ditto with long fixing bolt (160 mm)	Ø M20	2
9264 S	1200 kg Hanger with swanneck and 4 steel wheels mounted on ball bearings	Ø M24	2
9265 S	Hanger with removable collar, with 4 steel wheels mounted on ball bearings	Ø M20	2
9265 SL	Ditto with long fixing bolt (160 mm)	Ø M20	2
9262 SE	700 kg Hanger for automatic doors, idem 9262S equipped with a guiding wheel at each end	Ø M20	2
9262 SEL	Ditto with long fixing bolt (160 mm)	Ø M20	2
9268 S	2000 kg Double hanger with removable collar, with 8 steel wheels mounted on ball bearings	Ø M20	2
9268 SL	Ditto with long fixing bolt (160 mm)	Ø M20	2
85 S	Plate, welding type for top fixing	Ø 21	10
86 S	Plate, screwing type for top fixing	Ø M20	
86 SW	Reinforced «U» plate for side fixing	Ø M20	
96 W	Ditto with Ø M24	Ø M24	



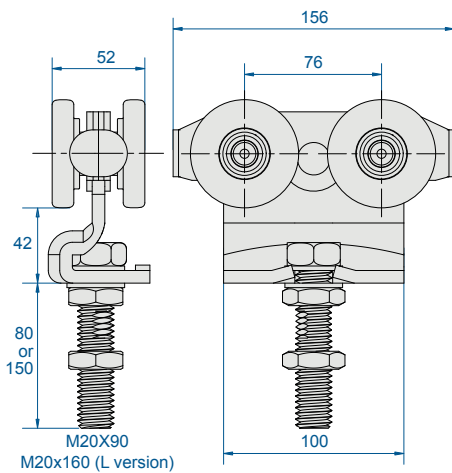
For floor guiding : see on page 58

DID YOU KNOW ?

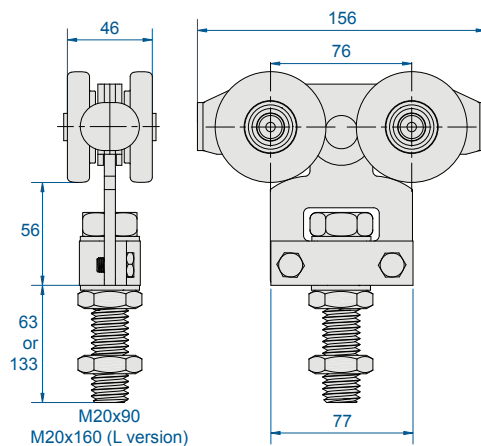


Z350 : THE MANTION ADVANTAGE

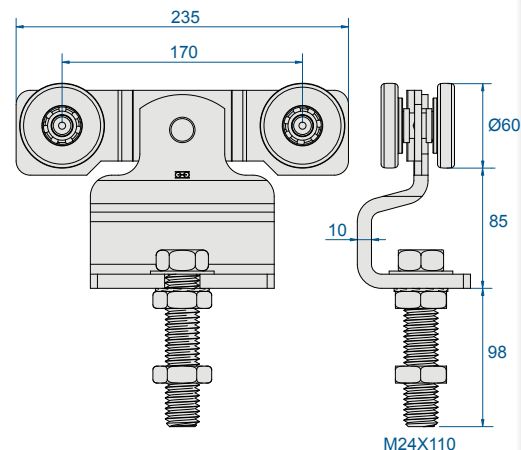
In the building industry, most products have a Z275 zinc protection. For optimal quality, most Manton tracks are Z350 treated (350 grammes zinc/m² on both internal and external surfaces, i.e. : 25 microns zinc on each surface).



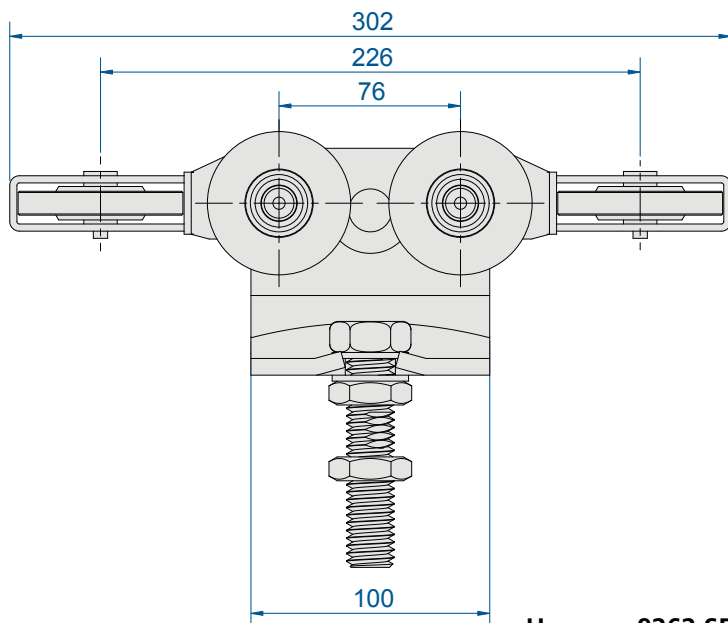
Hangers 9262 S - 9262 SL



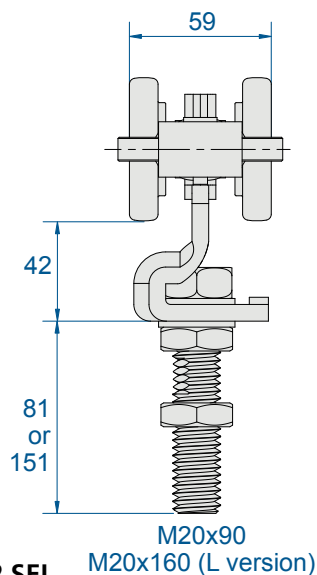
Hangers 9265 S - 9265 SL



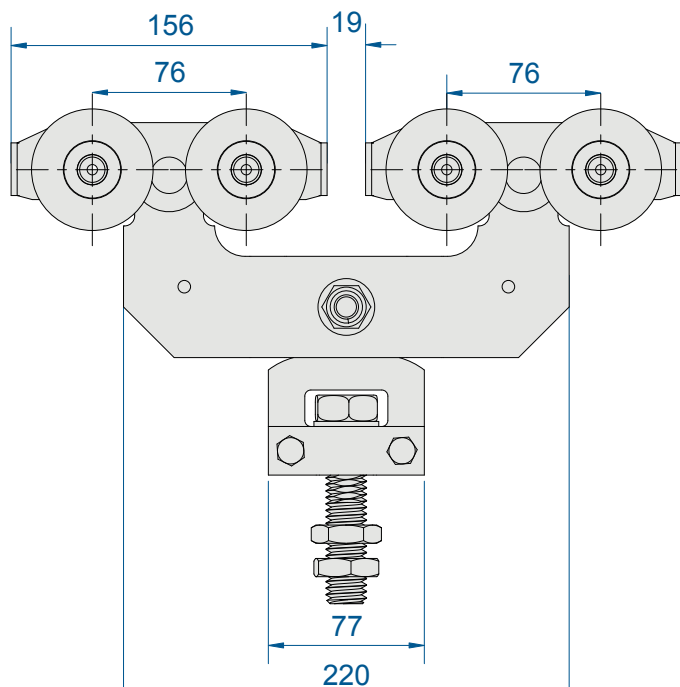
Hangers 9264 S



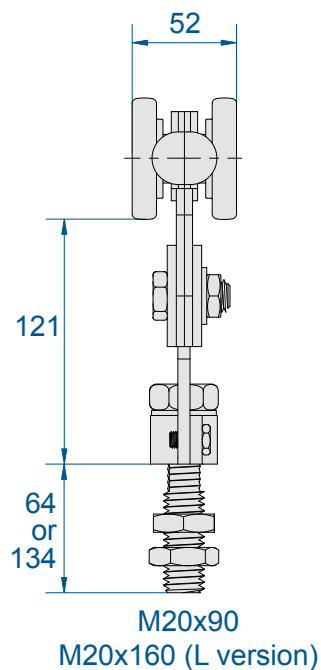
Hangers 9262 SE - 9262 SEL



M20x90
M20x160 (L version)



Hangers 9268 S - 9268 SL



M20x90
M20x160 (L version)

CAPACITY/DOOR : 3000 kg max.

TRACK : 9070

MOTION: STRAIGHT

- Electrolytic protection of all hangers
- For fire doors : Hangers 9272 S completely made of steel and equipped with ball bearings

TRACKS

Item Nr	Description	
9070/600	Galvanised track 110 x 90 mm, 6 m long	
9070N/600	Plain track (untreated) 110 x 90 mm, 6 m long.	

capacity per door

HANGERS & PLATES

Item Nr	Description	screw Ø	
9272 S	2000 kg Hanger with swanneck and 4 steel wheels mounted on ball bearings	Ø M30	2
9278 S	3000 kg Double hanger with swanneck, and 8 steel wheels mounted on ball bearings	Ø M30	
75 S	Plate welding type	Ø M30	

DID YOU KNOW ?

For floor guiding : see on page 58



MANTION ROLLING :

Mantion is the only hardware manufacturer which rolls all its tracks. This ensures a perfect design and compatibility of the complete systems. Thanks to this process, Mantion can offer steel tracks with a High Limit of Elasticity.



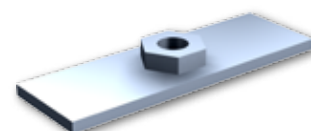
9070



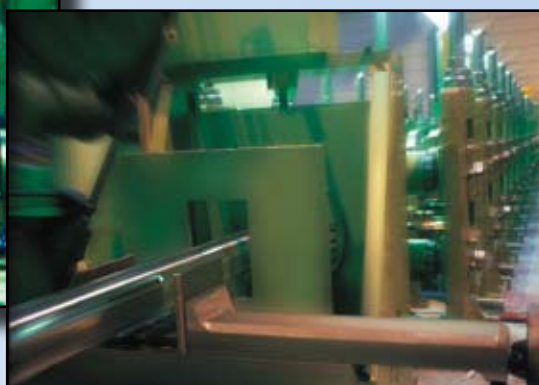
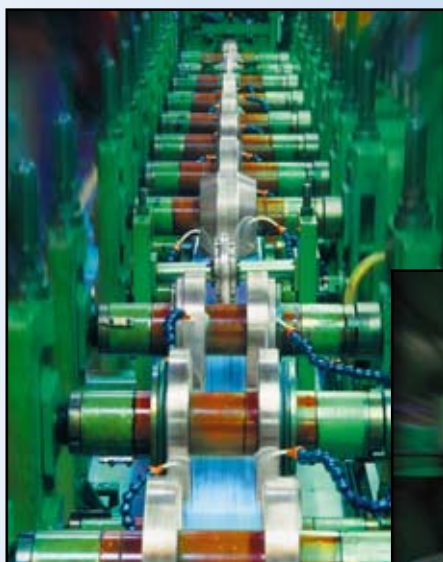
9272 S

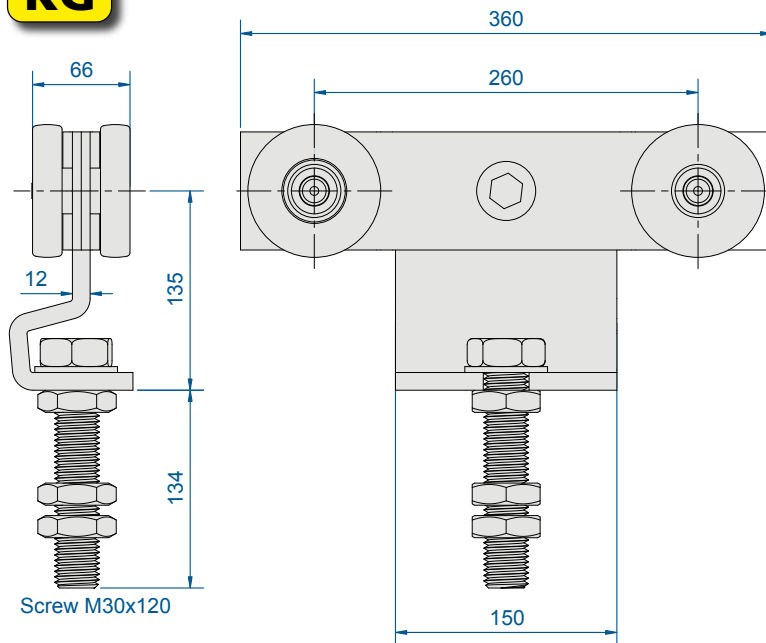


9278 S

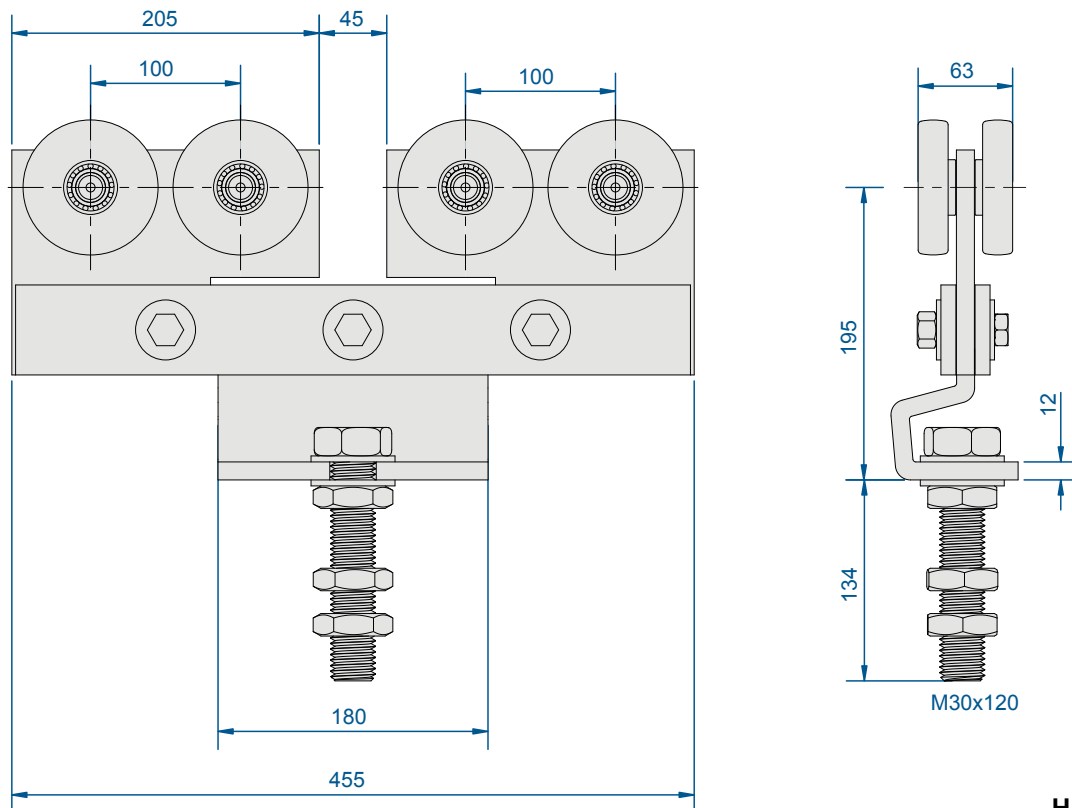


75 S





Hanger 9272 S



Hanger 9278 S

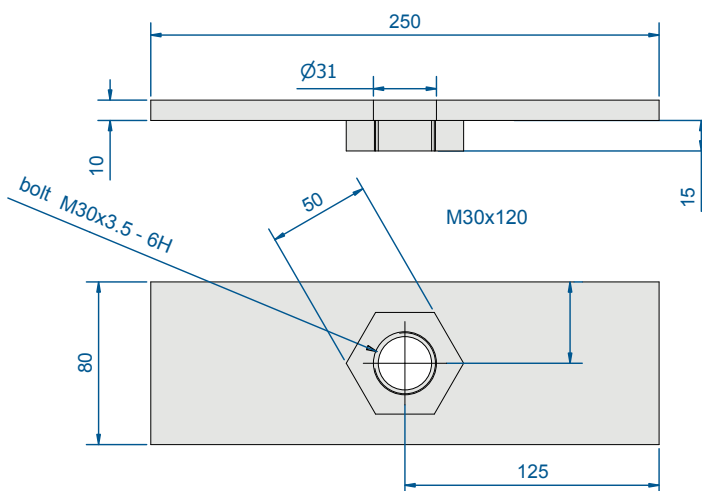


Plate 75 S

CAPACITY/DOOR : 400 kg max.

TRACK : 9010-9030-9040

MOTION : STRAIGHT

- Tracks, hangers and accessories made of 100% stainless steel
- 2 different qualities of stainless steel
 - 304 L - A2 : for food industry ...
 - 316 L - A4 : for highly aggressive or corrosive environment, sea environment...

FOR DOORS UP TO 60 KG		Track 9010X		
Item Nr		Fig.	Description	
STEEL 304 L	STEEL 316 L			
9010 XA2/6	9010 XA4/6	1	Track 9010 in STAINLESS STEEL. 6 m. long	
9011 XA2	9011 XA4	5	Adjustable bracket for track 9010 X	
9013 XA2	9013 XA4	3	STAINLESS STEEL angle plate - Screwing type	
9018 XA2	9018 XA4	7	STAINLESS STEEL bracket - Welding type	
9018 HXA2	9018 HXA4	4	STAINLESS STEEL bracket. Soffit fixing	
9018 VXA2	9018 VXA4	2	STAINLESS STEEL bracket. Wall fixing	
9011 MXA2	9011 MXA4	6	STAINLESS STEEL jointing bracket	
9118 XA2	9118 XA4	13	STAINLESS STEEL stop	
99212 XA2	99212 XA4	9	STAINLESS STEEL hanger with Delrin wheels on smooth axle, fixing screw Ø M 10	
36XA2	36 XA4	10	STAINLESS STEEL plate (hole M 10)	
1110 XA2/6	1110 XA4/6	14	STAINLESS STEEL U-profile 30x30. 6 M long	
1110 GN		15	Nylon guide for U-profile 30x30	

FOR DOORS UP TO 200 KG		Track 9030X		
Item Nr		Fig.	Description	
STEEL 304 L	STEEL 316 L			
9030 XA2/6	9030 XA4/6	1	Track 9030 in STAINLESS STEEL. 6 m. long	
9031 XA2	9031 XA4	5	Adjustable bracket for track 9030 X	
9033 XA2	9033 XA4	3	STAINLESS STEEL angle plate - Screwing type	
9038 XA2	9038 XA4	7	STAINLESS STEEL bracket - Welding type	
9038 HXA2	9038 HXA4	4	STAINLESS STEEL bracket. Soffit fixing	
9038 VXA2	9038 VXA4	2	STAINLESS STEEL bracket. Wall fixing	
9031 MXA2	9031 MXA4	6	STAINLESS STEEL jointing bracket	
9139 XA2	9139 XA4	12	STAINLESS STEEL stop	
99232 XA2	99232 XA4	9	STAINLESS STEEL hanger with Delrin wheels on smooth axle, fixing screw Ø M 12) For doors up to 100 kg.	
9232 XSA2	9232 XSA4	8	STAINLESS STEEL hanger (with stainless steel wheels mounted on ball bearings, fixing bolt Ø M 12) - For doors up to 200 kg.	
56 XA2	56 XA4	10	STAINLESS STEEL plate (hole M 12)	
1110 XA2/6	1110 XA4/6	14	STAINLESS STEEL U-profile 30x30. 6 M long	
1110 GN		15	Nylon guide for U-profile 30x30	

FOR DOORS UP TO 400 KG		Track 9040X		
Item Nr		Fig.	Description	
STEEL 304 L	STEEL 316 L			
9040 XA2/6	9040 XA4/6	1	Track 9040 in STAINLESS STEEL. 6 m. long	
9041 XA2	9041 XA4	5	Adjustable bracket for track 9040 X	
9043 XA2	9043 XA4	3	STAINLESS STEEL angle plate - Screwing type	
9048 XA2	9048 XA4	7	STAINLESS STEEL bracket - Welding type	
9048 HXA2	9048 HXA4	4	STAINLESS STEEL bracket. Soffit fixing	
9048 VXA2	9048 VXA4	2	STAINLESS STEEL bracket. Wall fixing	
9041 MXA2	9041 MXA4	6	STAINLESS STEEL jointing bracket	
9149 XA2	9149 XA4	12	STAINLESS STEEL stop	
9242 XSA2	9242 XSA4	8	STAINLESS STEEL hanger (with stainless steel wheels mounted on ball bearings, fixing bolt Ø M 14)	
66 XA2	66 XA4	11	STAINLESS STEEL plate (hole M 14)	
1110 XA2/6	1110 XA4/6	14	STAINLESS STEEL U-profile 30x30. 6 M long	
1110 GN		12	Nylon guide for U-profile 30x30	

ACCESSORY

1290 X	16	STAINLESS STEEL finger pull - 200 x 90 mm	
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Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6

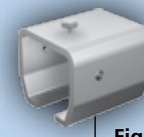


Fig. 7



Fig. 8



Fig. 9

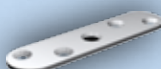


Fig. 10

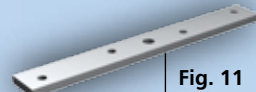


Fig. 11

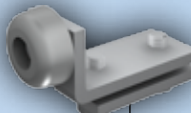


Fig. 12



Fig. 13

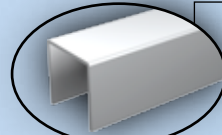


Fig. 14

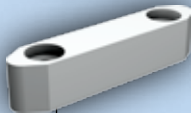
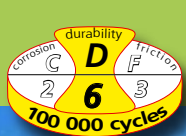


Fig. 15

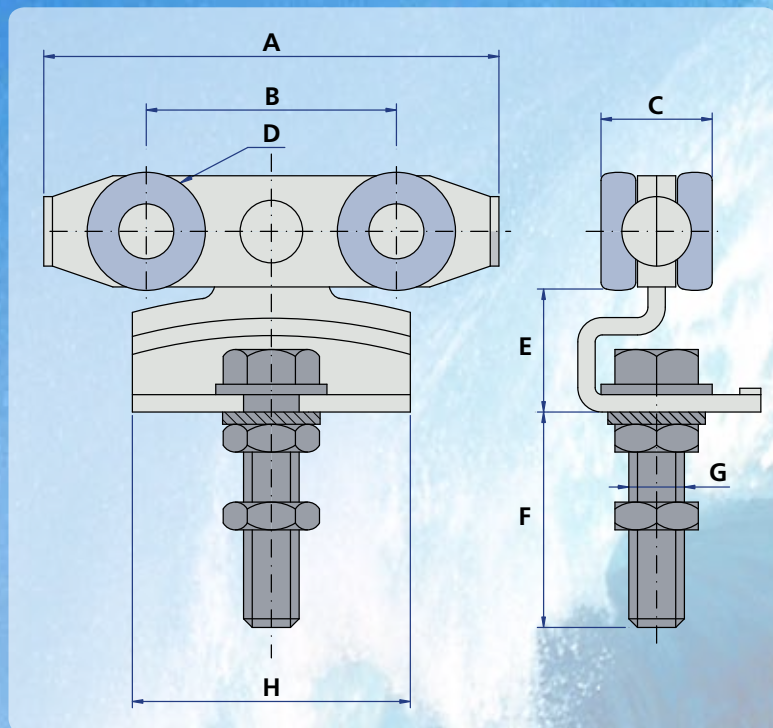


Fig. 16



60 KG → **400 KG**

STAINLESS STEEL series



Item Nr	A	B	C	D	E	F	G	H
99212 XA2	87	49	20	23	26	50	M10	50
99212 XA4	87	49	20	23	26	50	M10	50
99232 XA2	89	53	25	28	30	63	M12	60
99232 XA4	89	53	25	28	30	63	M12	60
9232 XSA2	89	53	25	28	30	63	M12	60
9232 XSA4	89	53	25	28	30	63	M12	60
9242 XSA2	137	72	32	34	34	72	M14	80
9242 XSA4	137	72	32	34	34	72	M14	80

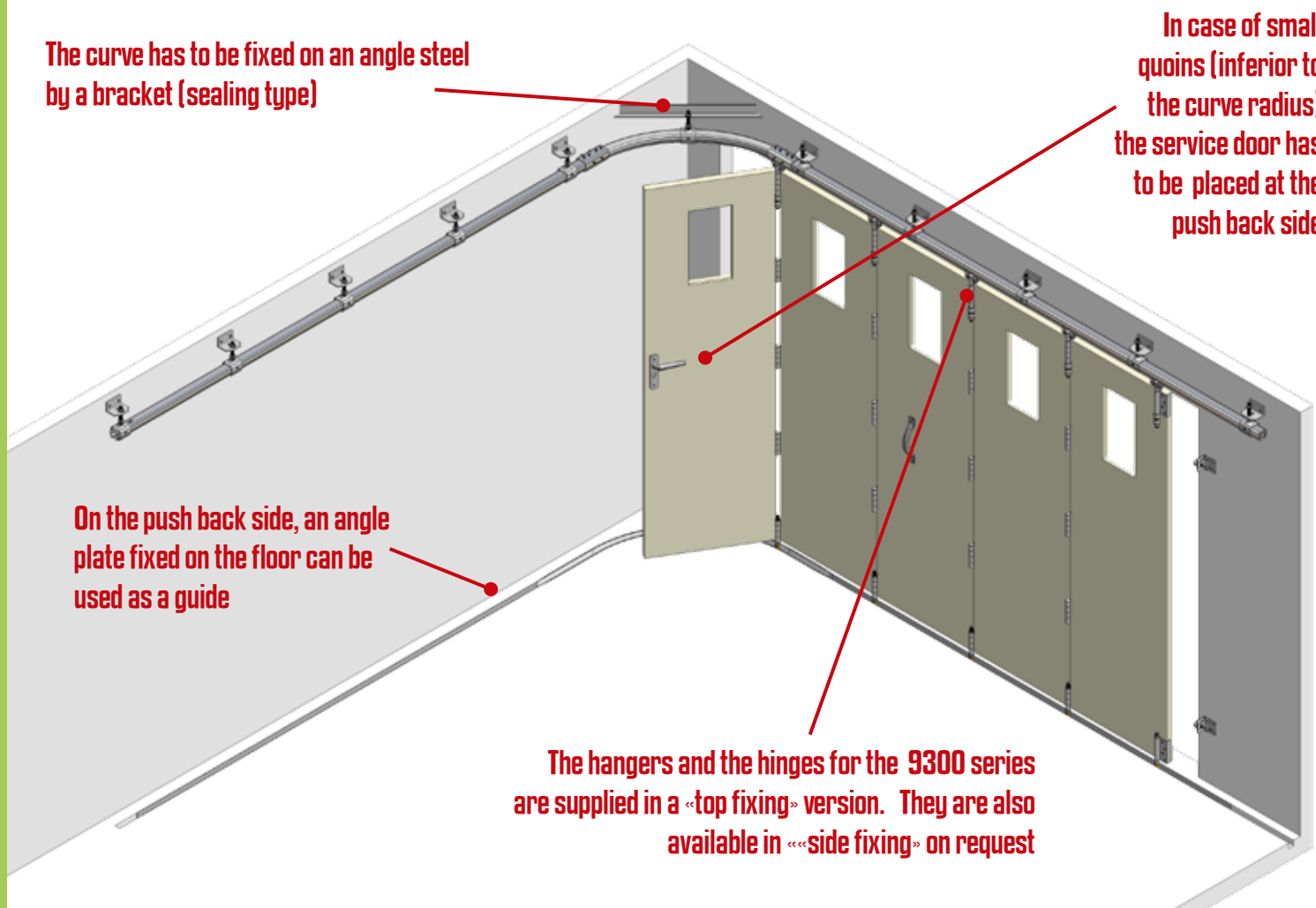


CAPACITY / PANEL : 400 kg max.

TRACK : 9010 to 9060

MOTION : LATERAL

- These hangers are specially designed for lateral sliding doors on a tubular track.
- Hangers with **5 different capacities**, each corresponding to a different track section.



HOW TO CHOOSE THE HANGER AND THE TRACK:

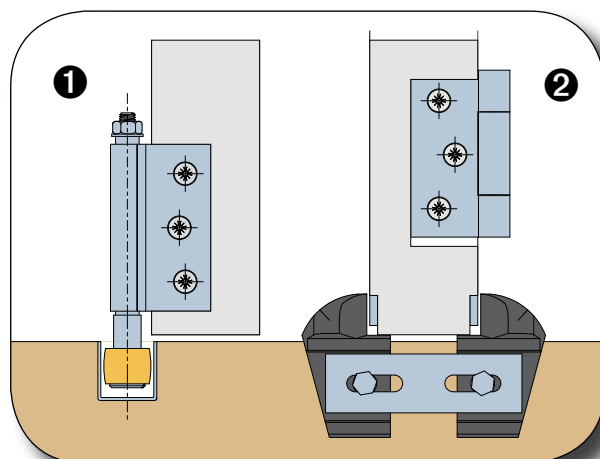
For a door without a service door : the weight of a single panel has to be taken into consideration

For a door **with a service door** : the weight of a panel has to be multiplied by **1.5**

FLOOR GUIDING :

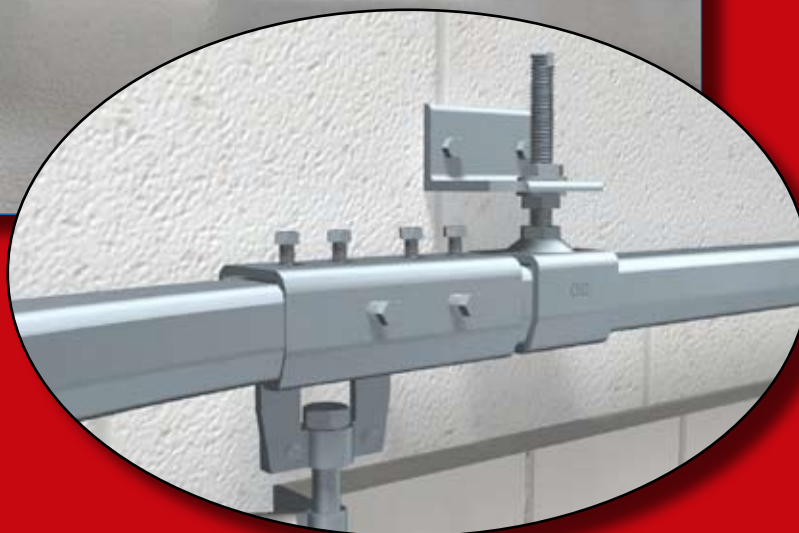
- 1 with hinges : as many guides as hangers have to be used
- 2 with shoe guides : as many guides as hangers have to be used (one of them being a half shoe guide)
Item Nr **1011** for panels of 21 to 50 mm thickness
Item Nr **1014** for panels 32 to 70 mm thickness
See shoe guides on page 58

On the push back side, an angle plate fixed on the floor can be used as a guide



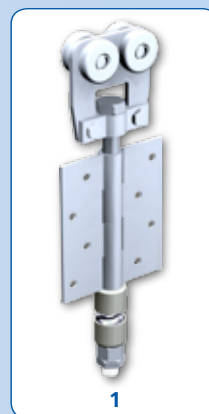
Sliding systems for LATERAL DISPLACEMENT DOORS

9300 series

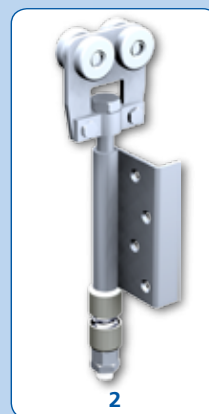


<i>With screwing type hinges</i>	<i>26-27</i>
<i>With welding type hinges</i>	<i>28-29</i>
<i>With angles plates</i>	<i>30-31</i>
<i>GARLINE series : for residential doors</i>	<i>32-33</i>

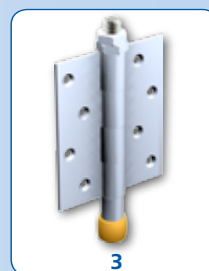
HANGER - CAPACITY 40 Kg				Track : 9010
Item Nr	Fig.	Description		
9312	1	Intermediate hanger with hinge (capacity : 40 kg)		2
9312 E	2	Offset end hanger (capacity : 40 kg)		2
1104	3	Intermediate bottom guide with hinge for U-profile 25 x 17 (Item Nr 1109)		
1104 EL	4	Offset bottom guide for U-profile 25 x 17 (Item Nr 1109)		
1510 C	5	Hinge 80 x 60 screwing type, axis Ø 10, top fixing		10
1109	7	Galvanised U-profile 25 x 17. Available in 4 m, 5 m and 6 m		4
1109 M	8	Jointing bracket for U-profile 25 x 17 (Item Nr 1109)		
9010 C	9	Galvanised curve. Radius : 500 mm	For max.	
1109 C	10	Galvanised curve for U-profile 25 x 17. Radius : 500 mm	550 mm panels	
3539	11	Angle steel (30 x 20) for curve, sealing type - L = 610 mm.		
HANGER - CAPACITY 75 Kg				Track : 9030
9332	1	Intermediate hanger with hinge (capacity : 75 kg)		2
9332 E	2	Offset end hanger (capacity : 75 kg)		2
1105	3	Intermediate bottom guide with hinge for U-profile 30 x 30 (1110)		
1105 EL	4	Offset bottom guide for U-profile 30 x 30 (Item Nr 1110)		
1512 C	6	Hinge 85 x 85 screwing type, axis Ø 12, top fixing		10
1110	7	Galvanised U-profile 30 x 30. Available in 4 m, 5 m and 6 m		4
1110 M	8	Jointing bracket for U-profile 30 x 30 (Item Nr 1110)		
9030 C	9	Galvanised curve. Radius : 600 mm	For max.	
1111 C	10	Galvanised curve for U-profile 30 x 30. Radius : 600 mm	650 mm panels	
5049	11	Angle steel for curve, sealing type (40 x 25) - L = 710 mm.		
HANGER - CAPACITY 150 Kg				Track : 9040
9342	1	Intermediate hanger with hinge (capacity : 150 kg)		2
9342 E	2	Offset end hanger (capacity : 150 kg)		2
1106	3	Intermediate bottom guide with hinge for U-profile 30 x 30 (1110)		
1106 EL	4	Offset bottom guide for U-profile 30 x 30 (Item Nr 1110)		
1514 C	6	Hinge 120 x 100 screwing type, axis Ø 14, top fixing		6
1110	7	Galvanised U-profile 30 x 30. Available in 4 m, 5 m and 6 m		4
1110 M	8	Jointing bracket for U-profile 30 x 30 (Item Nr 1110)		
9040 C	9	Galvanised curve. Radius : 600 mm	For max.	
1111 C	10	Galvanised curve for U-profile 30 x 30. Radius : 600 mm	650 mm panels	
5049	11	Angle steel for curve, sealing type (40 x 25) - L = 710 mm.		
HANGER - CAPACITY 300 Kg				Track : 9050
9352	1	Intermediate hanger with hinge (capacity : 300 kg)		2
9352 E	2	Offset end hanger (capacity : 300 kg)		2
1108	3	Intermediate bottom guide with hinge for U-profile 30 x 30 (1110)		
1108 EL	4	Offset bottom guide for U-profile 30 x 30 (Item Nr 1110)		
1516 C	6	Hinge 120 x 100 screwing type, axis Ø 16, top fixing		4
1110	7	Galvanised U-profile 30 x 30. Available in 4 m, 5 m and 6 m		4
1110 M	8	Jointing bracket for U-profile 30 x 30 (Item Nr 1110)		
9050 C	9	Galvanised curve. Radius : 600 mm	For max.	
1111 C	10	Galvanised curve for U-profile 30 x 30. Radius : 600 mm	650 mm panels	
5049	11	Angle steel for curve, sealing type (40 x 25) - L = 710 mm.		
HANGER - CAPACITY 400 Kg				Track : 9060
9362	1	Intermediate hanger with hinge (capacity : 400 kg)		2
9362 E	2	Offset end hanger (capacity : 400 kg)		2
1108	3	Intermediate bottom guide with hinge for U-profile 30 x 30 (1110)		
1108 EL	4	Offset bottom guide for U-profile 30 x 30 (Item Nr 1110)		
1516 C	6	Hinge 120 x 100 screwing type, axis Ø 16, top fixing		4
1110	7	Galvanised U-profile 30 x 30. Available in 4 m, 5 m and 6 m		4
1110 M	8	Jointing bracket for U-profile 30 x 30 (Item Nr 1110)		
9060 C	9	Galvanised curve. Radius : 800 mm	For max.	
1112 C	10	Galvanised curve for U-profile 30 x 30. Radius : 800 mm	900 mm panels	
8579	11	Angle steel for curve, sealing type (60 x 40) - L = 1030 mm.		



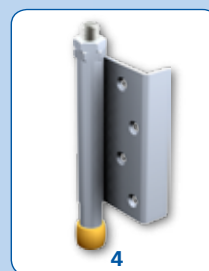
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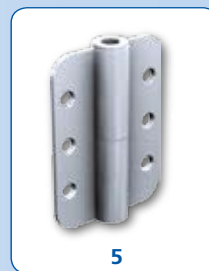
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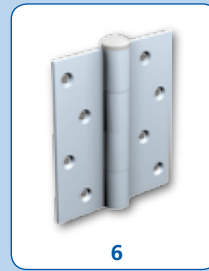
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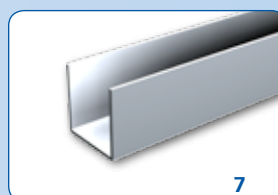
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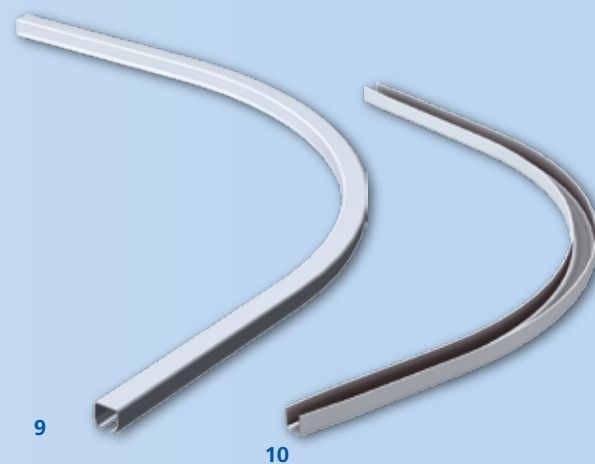
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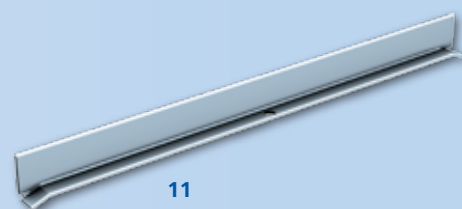


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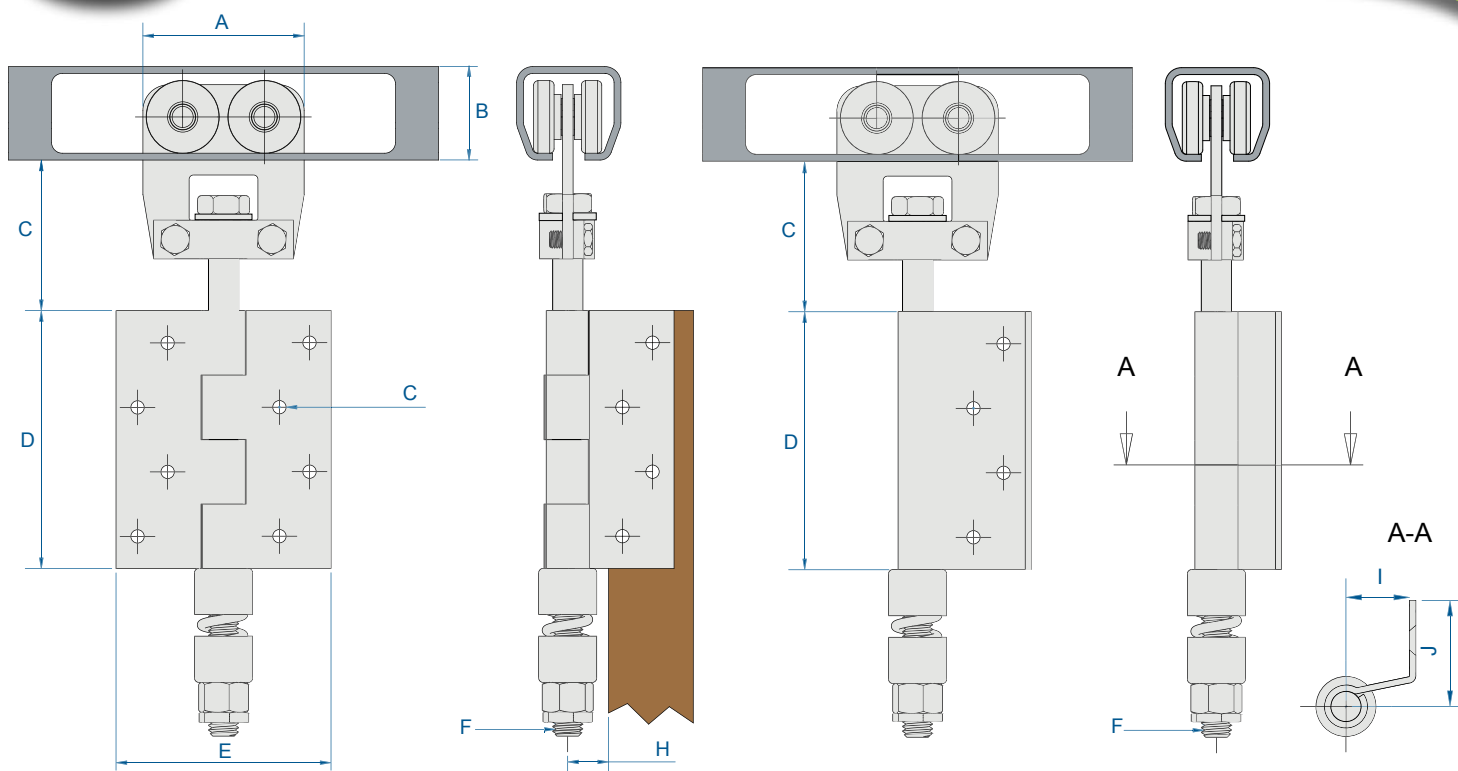


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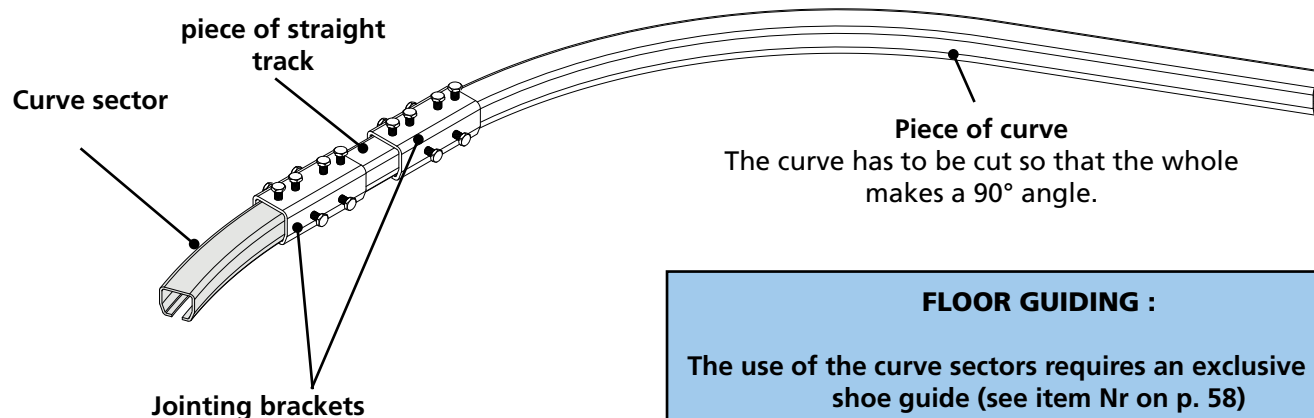
Intermediate hangers

End hangers

Item Nr	A	B	C		D	E	F	G	H	I	J
			Min.	Max.							
9312	50	28	35	47	80	60	M 10	5	11	28	30
9312 E											
9332	62	35	39	55	85	85	M 12	5	12	41	26
9332 E											
9342	75	43.5	45	62	120	100	M 14	6	15	52	30
9342 E											
9352	100	60	66	91	120	100	M 16	6	17	60	32
9352 E											
9362	124	75	60	85	120	100	M 16	6	17	60	32
9362 E											

USE OF CURVE SECTORS FOR WIDE PANELS

CURVE SECTORS					
9010 CS	for track 9010	for panels wider than 550 mm	9050 CS	for track 9050	for panels wider than 650 mm
9030 CS	for track 9030	for panels wider than 650 mm	9060 CS	for track 9060	for panels wider than 900 mm
9040 CS	for track 9040	for panels wider than 650 mm			



FLOOR GUIDING :

The use of the curve sectors requires an exclusive use of shoe guide (see item Nr on p. 58)

HANGERS WELDING TYPE - Capacity 40 Kg Track 9010

Item Nr	Fig.	Description	
9312 SO	1	Intermediate hanger with hinge . Welding type (capacity : 40 kg)	2
9312 SOE	2	End hanger mounted on a half hinge (capacity : 40 kg)	2
1104 SO	3	Intermediate bottom guide with hinge for U-profile 25 x 17 (1109)	
1104 SOE	4	Bottom guide with a half hinge for U-profile 25 x 17 (Item Nr 1109)	
1510 SO	5	Hinge - Welding type. H = 80 - axis Ø 10	10
1109	6	Galvanised U-profile 25 x 17. Available in 4 m, 5 m and 6 m	4
1109 M	7	Jointing bracket for U-profile 25 x 17 (item Nr 1109)	
9010 C	8	Galvanised curve. Radius : 500 mm	For max. 550 mm panels
1109 C	9	Galvanised curve for U-profile 25 x 17. Radius : 500 mm	
3539	10	Angle steel for curve, sealing type (30 x 20) - L = 610 mm.	

HANGERS WELDING TYPE - Capacity 75 Kg Track 9030

9332 SO	1	Intermediate hanger with hinge . Welding type (capacity : 75 kg)	2
9332 SOE	2	End hanger mounted with a half hinge (capacity : 75 kg)	2
1105 SO	3	Intermediate bottom guide with hinge for U-profile 30 x 30 (Item Nr 1110)	
1105 SOE	4	Bottom guide with a half hinge for U-profile 30 x 30 (Item Nr 1110)	
1512 SO	5	Hinge - Welding type. H = 85 - axis Ø 12	10
1110	6	Galvanised U-profile 30 x 30. Available in 4 m, 5 m and 6 m	4
1110 M	7	Jointing bracket U 30 x 30 (item Nr. 1110)	
9030 C	8	Galvanised curve. Radius : 600 mm	For max. 650 mm panels
1111 C	9	Galvanised curve for U-profile 30 x 30. Radius : 600 mm	
5049	10	Angle steel for curve, sealing type (40 x 25) - L = 710 mm.	

HANGERS WELDING TYPE - Capacity 150 Kg Track 9040

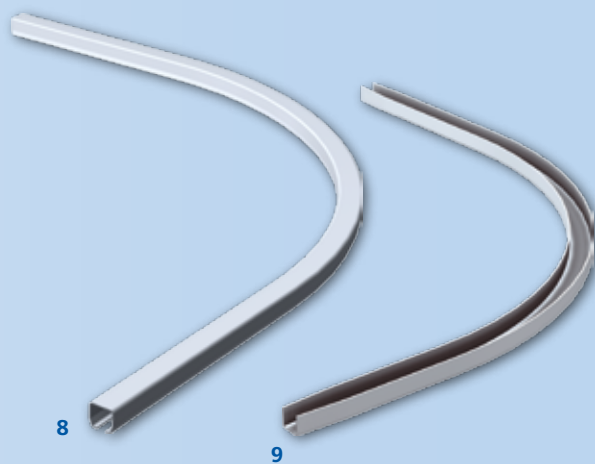
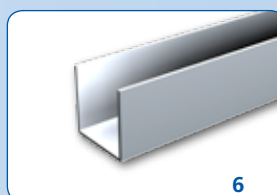
9342 SO	1	Intermediate hanger with hinge . Welding type (capacity : 150kg)	2
9342 SOE	2	Offset end hanger mounted on a half hinge (capacity : 150 kg)	2
1106 SO	3	Intermediate bottom guide with hinge for U-profile 30 x 30 (1110)	
1106 SOE	4	Bottom guide with a half hinge for U-profile 30 x 30 (Item Nr 1110)	
1514 SO	5	Hinge - Welding type. H = 120 - axis Ø 14	6
1110	6	Galvanised U-profile 30 x 30. Available in 4 m, 5 m and 6 m	4
1110 M	7	Jointing bracket U 30 x 30 (item Nr. 1110)	
9040 C	8	Galvanised curve. Radius : 600 mm	For max. 650 mm panels
1111 C	9	Galvanised curve for U-profile 30 x 30. Radius : 600 mm	
5049	10	Angle steel for curve, sealing type (40 x 25) - L = 710 mm.	

HANGERS WELDING TYPE - Capacity 300 Kg Track 9050

9352 SO	1	Intermediate hanger with hinge . Welding type (capacity : 300 kg)	2
9352 SOE	2	Offset end hanger mounted on a half hinge (capacity : 300 kg)	2
1108 SO	3	Intermediate bottom guide with hinge for U-profile 30 x 30 (Item Nr 1110)	
1108 SOE	4	Bottom guide with a half hinge for U-profile 30 x 30 (Item Nr 1110)	
1516 SO	5	Hinge - Welding type. H = 120 - axis Ø 16	4
1110	6	Galvanised U-profile 30 x 30. Available in 4 m, 5 m and 6 m	4
1110 M	7	Jointing bracket U 30 x 30 (Item Nr. 1110)	
9050 C	8	Galvanised curve. Radius : 600 mm	For max. 650 mm panels
1111 C	9	Galvanised curve for U-profile 30 x 30. Radius : 600 mm	
5049	10	Angle steel for curve, sealing type (40 x 25) - L = 710 mm.	

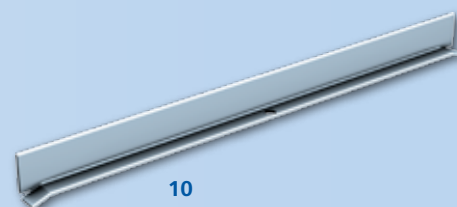
HANGERS WELDING TYPE - Capacity 400 Kg Track 9060

9362 SO	1	Intermediate hanger with hinge . Welding type (capacity : 400 kg)	2
9362 SOE	2	Offset end hanger mounted on a half hinge (capacity : 400 kg)	2
1108 SO	3	Intermediate bottom guide with hinge for U-profile 30 x 30 (Item Nr 1110)	
1108 SOE	4	Bottom guide with a half hinge for U-profile 30 x 30 (Item Nr 1110)	
1516 SO	5	Hinge - Welding type. H = 120 - axis Ø 16	4
1110	6	Galvanised U-profile 30 x 30. Available in 4 m, 5 m and 6 m	4
1110 M	7	Jointing bracket U 30 x 30 (Item Nr. 1110)	
9060 C	8	Galvanised curve. Radius : 800 mm	For max. 900 mm panels
1112 C	9	Galvanised curve for U-profile 30 x 30. Radius : 800 mm	
8579	10	Angle steel for curve, sealing type (60 x 40) - L = 1030 mm.	

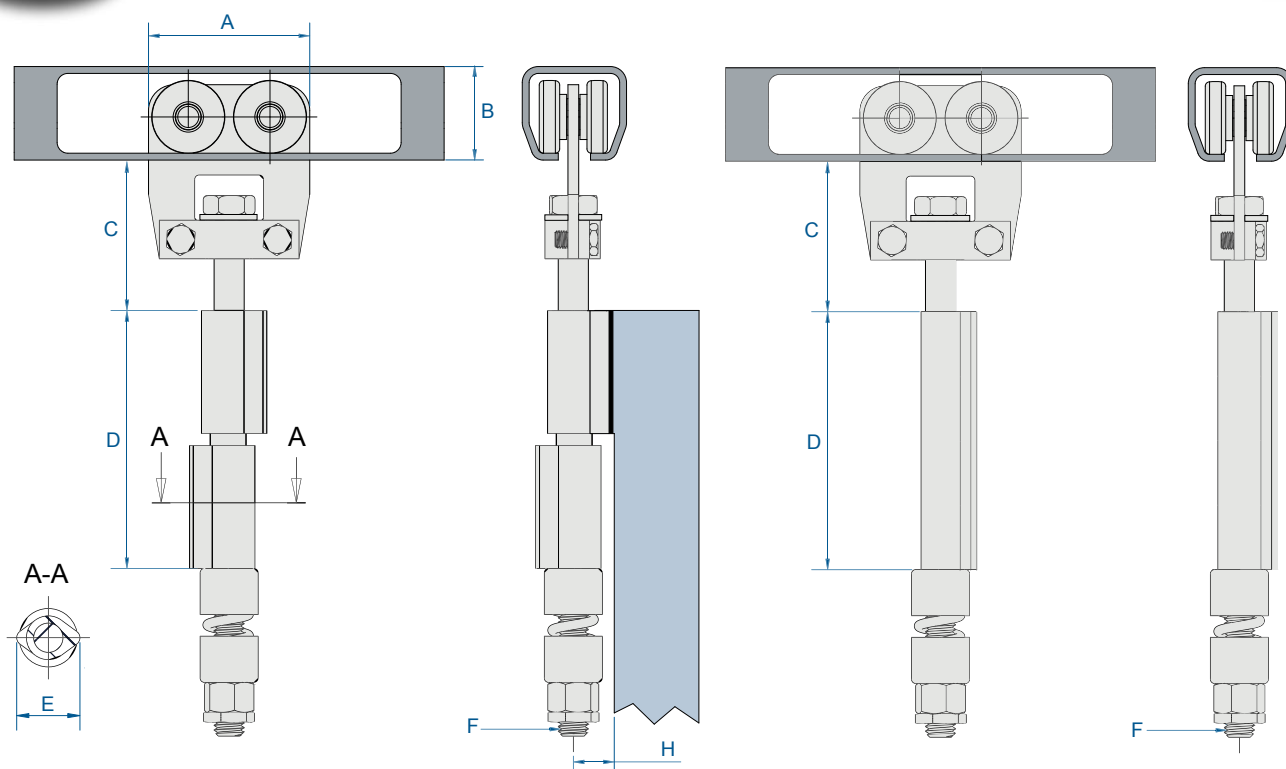


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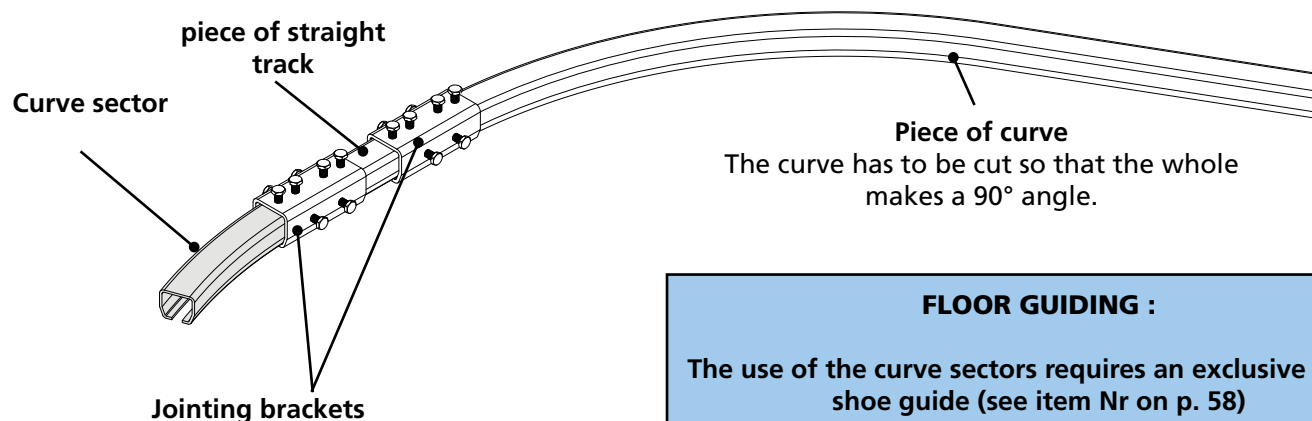
Intermediate hangers

End hangers

Item Nr	A	B	C		D	E	F	H
			Min.	Max.				
9312 SO	50	28	35	47	80	22	M 10	11
9312 SOE								
9332 SO	62	35	39	55	85	24	M 12	12
9332 SOE								
9342 SO	75	43.5	45	62	120	30	M 14	15
9342 SOE								
9352 SO	100	60	66	91	120	34	M 16	17
9352 SOE								
9362 SO	124	75	60	85	120	34	M 16	17
9362 SOE								

USE OF CURVE SECTORS FOR WIDE PANELS

CURVE SECTORS					
9010 CS	for track 9010	for panels wider than 550 mm	9050 CS	for track 9050	for panels wider than 650 mm
9030 CS	for track 9030	for panels wider than 650 mm	9060 CS	for track 9060	for panels wider than 900 mm
9040 CS	for track 9040	for panels wider than 650 mm			



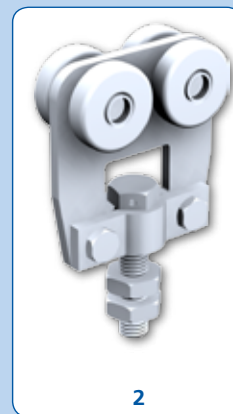
FLOOR GUIDING :

The use of the curve sectors requires an exclusive use of shoe guide (see item Nr on p. 58)

HANGERS - CAPACITY 25 to 40 Kg			Track : 9010
Item Nr	Fig.	Description	
9611	1	Swivelling end hanger. Axis Ø M 10 - 2 steel wheels (capacity : 20 kg)	2
9613	2	Swivelling hanger. Axis Ø M 10 - 4 steel wheels (capacity : 40 kg)	2
9614 EW	3	Angle plate with 2 holes Ø M 10	
9614 GW	4	Angle plate for offset hanger, hole Ø M 10	
1109 EFW	5	Guide with olive Ø 13 , for U-profile 25 x 17	
1109 GFW	6	Offset guide, olive Ø 13, for U-profile 25 x 17	
1109	7	Galvanised U-profile 25 x 17. Available in 4 m, 5 m and 6 m	
1109 M	8	Jointing bracket for U-profile 25 x 17 (item Nr. 1109)	
1109 C	10	Galvanised curve for U-profile 25 x 17. R: 500 mm	For max. 550 mm panels
9010 C	9	Galvanised curve. Radius : 500 mm	
1510 C	12	Hinge 80 x 60. Screwing type, axis Ø 10, top fixing	10
3539	11	Angle steel for curve, sealing type (30 x 20) - L = 610 mm.	
HANGERS - CAPACITY 40 to 85 Kg			Track : 9030
9631	1	Swivelling end hanger. Axis Ø M 12 - 2 steel wheels (capacity : 40 kg)	2
9633	2	Swivelling hanger. Axis Ø M 12 - 4 steel wheels (capacity : 85 kg)	2
9634 EW	3	Angle plate with 2 holes Ø M 12	
9634 GW	4	Angle plate for offset hanger, hole Ø M 12	
1110 EFW1	5	Guide with olive Ø 24 , for U-profile 30 x 30	
1110 GFW1	6	Offset guide, olive Ø 24, for U 30 x 30	
1110	7	Galvanised U-profile 30 x 30. Available in 4 m, 5 m and 6 m	
1110 M	8	Jointing bracket for U-profile 30 x 30 (item Nr. 1110)	
1111 C	10	Galvanised curve for U-profile 30 x 30. R: 600 mm	For max. 650 mm panels
9030 C	9	Galvanised curve. Radius : 600 mm	
1512 C	12	Hinge 85 x 85. Screwing type, axis Ø 12, top fixing	10
5049	11	Angle steel for curve, sealing type (40 x 25) - L = 710 mm.	
HANGERS - CAPACITY 80 TO 150 Kg			Track : 9040
9641/16	1	Swivelling end hanger. Axis Ø M 16 - 2 steel wheels (capacity : 80 kg)	2
9643/16	2	Swivelling hanger. Axis Ø M 16 - 4 steel wheels (capacity : 150 kg)	2
9644 EW	3	Angle plate with 2 holes Ø M 16	
9644 GW	4	Angle plate for offset hanger, hole Ø M 16	
1110 EFW2	5	Guide with olive Ø 24 , for U-profile 30 x 30	
1110 GFW2	6	Offset guide, olive Ø 24, for U-profile 30 x 30	
1110	7	Galvanised U-profile 30 x 30. Available in 4 m, 5 m and 6 m	
1110 M	8	Jointing bracket for U-profile 30 x 30 (item Nr. 1110)	
1111 C	10	Galvanised curve for U-profile 30 x 30. R: 600 mm	For max. 650 mm panels
9040 C	9	Galvanised curve. Radius : 600 mm	
1512 C	12	Hinge 85 x 85. Screwing type, axis Ø 12, top fixing	10
5049	11	Angle steel for curve, sealing type (40 x 25) - L = 710 mm..	
HANGERS - CAPACITY 50 to 300 Kg			Track : 9050
9651/20	1	Swivelling end hanger. Axis Ø M 20 - 2 steel wheels (capacity : 150 kg)	2
9653/20	2	Swivelling hanger. Axis Ø M 20 - 4 steel wheels (capacity : 300 kg)	2
9654 EW	3	Angle plate with 2 holes Ø M 20	
9654 GW	4	Angle plate for offset hanger, hole Ø M 20	
1110 EFW3	5	Guide with olive Ø 24 , for U-profile 30 x 30	
1110 GFW3	6	Offset guide, olive Ø 24, for U-profile 30 x 30	
1110	7	Galvanised U-profile 30 x 30. Available in 4 m, 5 m and 6 m	
1110 M	8	Jointing bracket for U-profile 30 x 30 (item Nr. 1110)	
1111 C	10	Galvanised curve for U-profile 30 x 30. R: 600 mm	For max. 650 mm panels
9050 C	9	Galvanised curve. Radius : 600 mm	
1514 C	12	Hinge 120 x 100. Screwing type, axis Ø 14, top fixing	10
5049	11	Angle steel for curve, sealing type (40 x 25) - L = 710 mm.	
8579	11	Angle steel for curve, sealing type (60 x 40) - L = 1030 mm.	



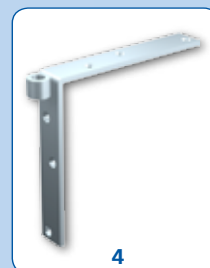
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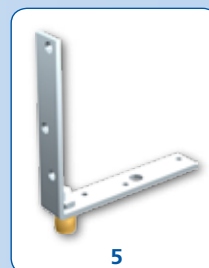
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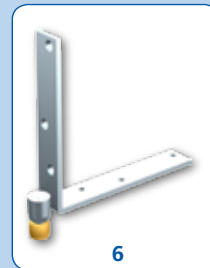
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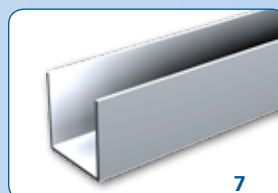
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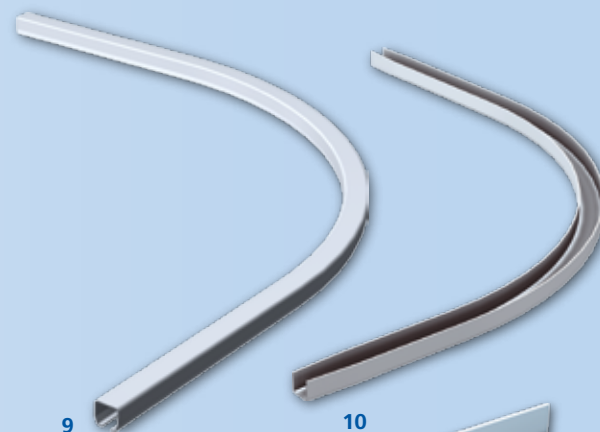
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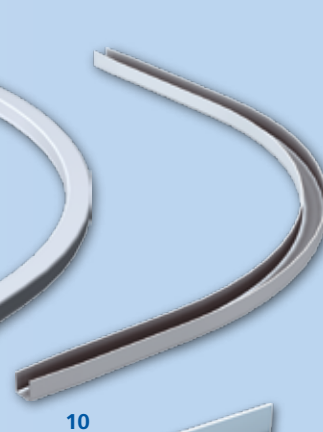
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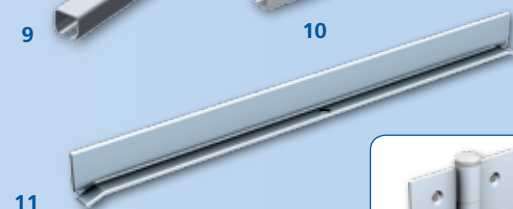
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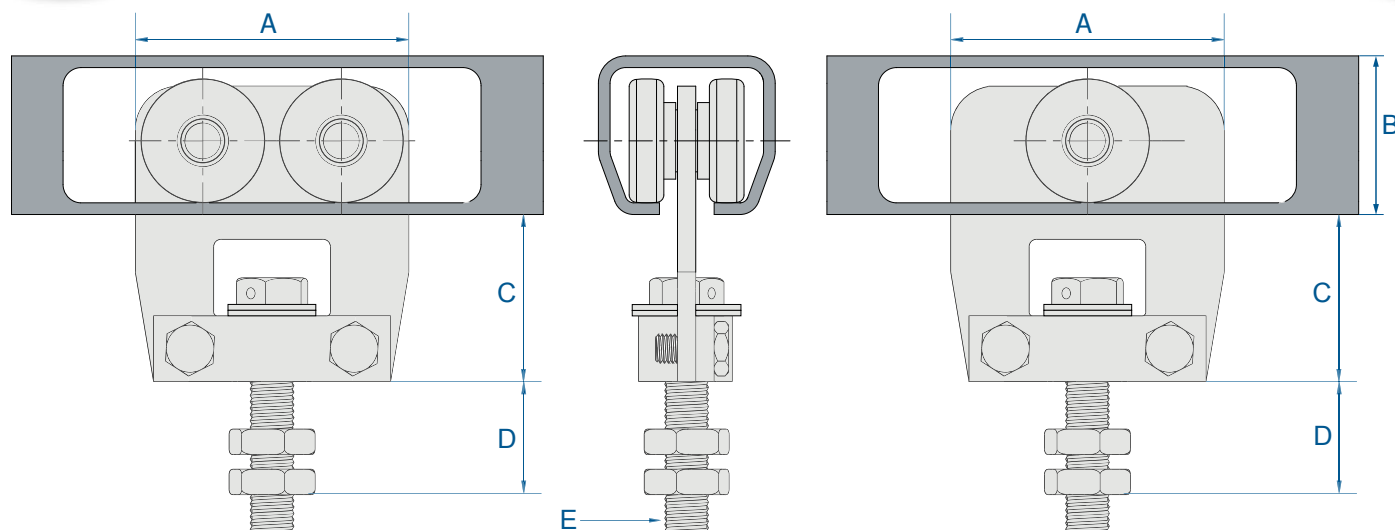
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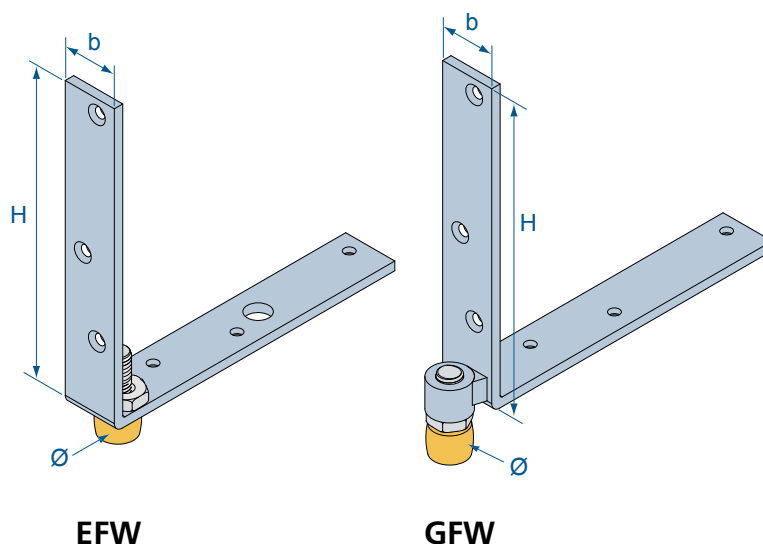
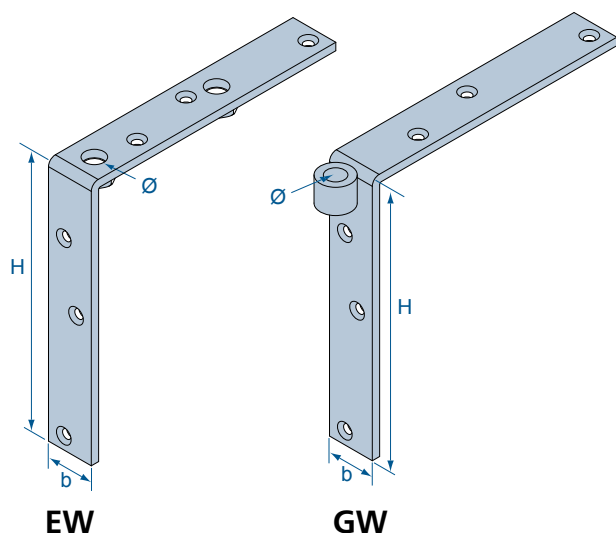


Item Nr	A	B	C	D max.	E
9613	50	28	34	33	M 10
9633	62	35	39	40	M 12
9643/16	75	43.5	45	37	M 16
9653/20	92	60	56	37	M 20

Item Nr	A	B	C	D max.	E
9611	50	28	34	33	M 10
9631	62	35	39	40	M 12
9641/16	75	43.5	45	37	M 16
9651/20	92	60	56	37	M 20

Item Nr	H	b	Ø
9614 EW 9614 GW	120	20	M 10
9634 EW 9634 GW	160	30	M 12
9644 EW 9644 GW	200	35	M 16
9654 EW 9654 GW	260	40	M 20

Item Nr	H	b	Ø	U-profile
1109 EFW 1109 GFW	100	20	13	1109
1110 EFW 1 1110 GFW 1	160	30	24	1110
1110 EFW 2 1110 GFW 2	200	35	24	1110
1110 EFW 3 1110 GFW 3	260	40	24	1110



manual or automatic

UPPER GUIDING

Item Nr	Description
9010/250	Galvanised steel track - Length = 2.5 m (also available in 4 - 5 and 6 m)
9010 C	Curve in galvanised steel - Radius = 500 mm
1110/300	U-profile 30 x 30 mm - Length : 3 m (also available in 4 - 5 and 6 m)
1110 C	U-profile with adaptable radius.
9014	Angle plate
1118 H	Fixing plate for U-profile 30 x 30 mm
9011	Bracket with short rod
9011 M	Joining bracket for track 9010
3533	Angle plate
1110 M	Joining bracket for track 1110

HANGER & STOP

9318 N	Hanger with nylon wheels, mounted on ball bearings
10213	Stop

HINGES

1510 EDLG	Upper end plate
1510 HDLG	Upper plate / hinge
1510 PDLG	Upper plate
1025 EL	Upper guiding wheel
1101 EDG	Lower guiding wheel
1101 DG	Lower guiding hinge
1101 PDG	Lower guide

FLOOR GUIDING

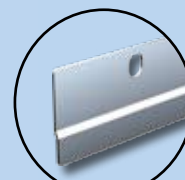
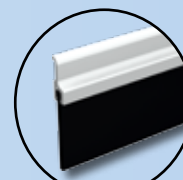
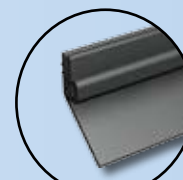
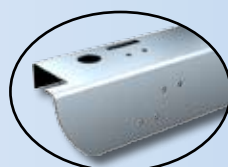
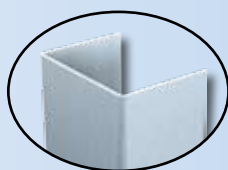
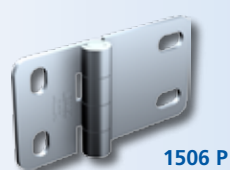
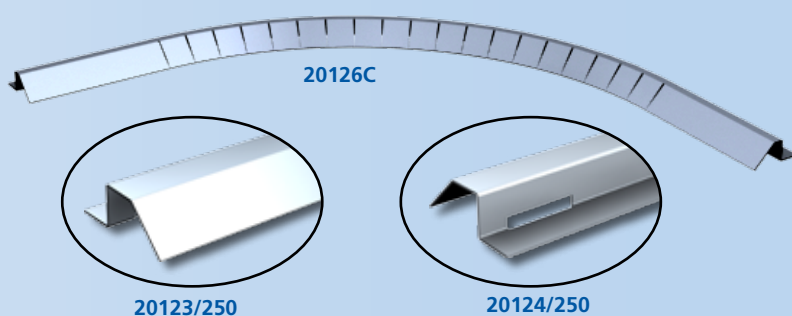
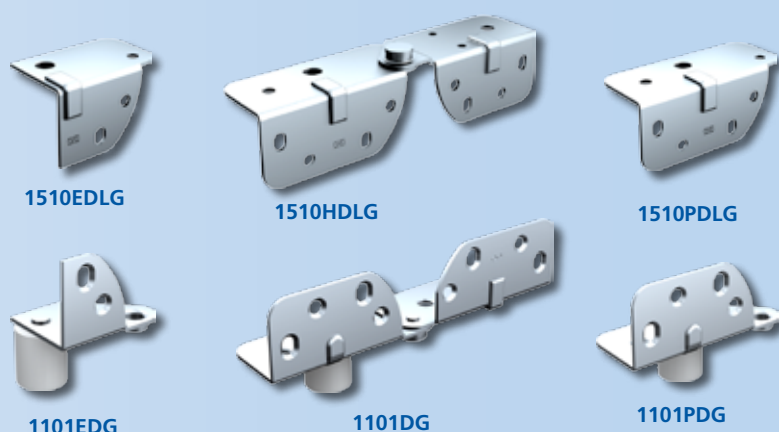
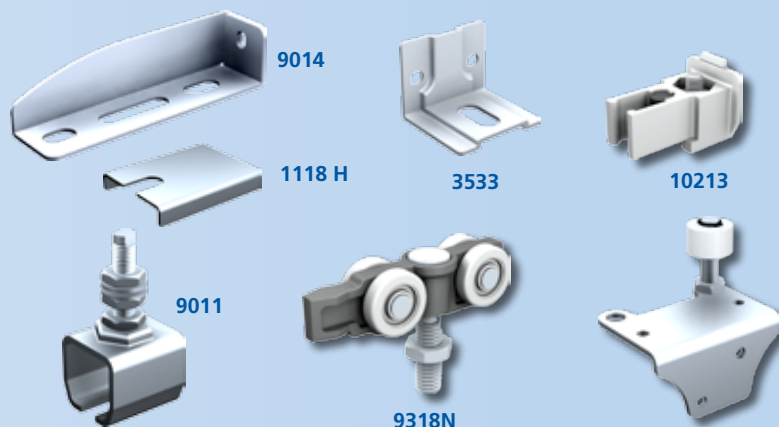
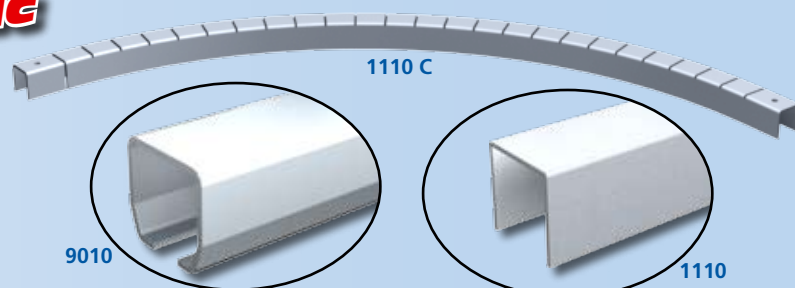
20123/250	Exterior 1/2 threshold - Length = 2.5 m
20124/250	Interior 1/2 threshold - Length = 2.5 m
20126 C	Variable radius threshold curve

SEALING

7075/250	Horizontal joint-holder - Length = 2.5 m
7160/250	Outer joint, white - Length = 2.5 m
7160/500	Ditto in 5 m
7161/250	Outer joint, black - Length = 2.5 m
7161/500	Ditto in 5 m
1151 A/300	Dustproof brush for lower part with aluminium reinforcement - Length = 3 m

ACCESSORIES

7200/250	Vertical panel cap - Length = 2.5 m
7200/A50	Joining piece for «APCO» panels of 500 mm
7200/A61	Joining piece for «APCO» panels of 610 mm
7200/B50	Joining piece for «BREMET» panels of 500 mm
7200/AB1	Joining piece for «BREMET» panels of 610 mm
1500 G	Control arm for quoin up to 700 mm
1506 P	Hinge, side fixing - 6 mm axle
1292	White handle with 3 fasteners



Safe :

Accessories compatible with anti-fingerpinching panels.

Simple :

no intermediate hinges is requested on the panels

Small quoin :

70 mm for the motorized version
50 mm for the manual-operated version

Low space required under the lintel : 80 mm.

Fixing of the curve end

3533

1110 C

Control arm

9014

1118 H

1506 P

1025 E

9011

9318 N

9010

1110

20126 C

1151 A/300

20123/250

1101

20124/250

Floor guiding with dust-proof brush

CAPACITY / PANEL : 200 kg max.

TRACK : from 9010 to 9060

MOTION : STRAIGHT FOLDING

- A complete range :
 - 5 systems up to 200 kg per panel
 - up to 0.90 m panel width
 - screwing or welding versions
- Solution adapted to very wide openings
- Reduced space needed when open

The hangers and hinges of the 9050 series are supplied for a top-fixing. They can be supplied for a side-fixing on request.

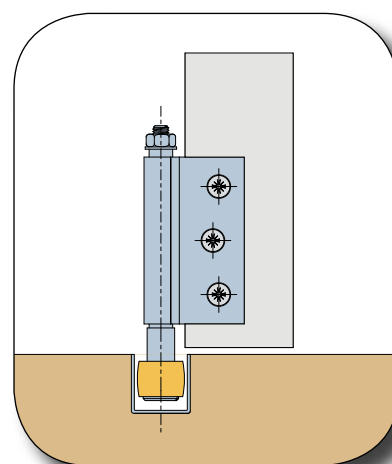
Place a complementary bracket on the push back side

The axis of the hangers, hinges and guides making up an articulation must be perfectly aligned.

For a good sliding, the width of the panels must not exceed 90 cm

Floor guiding is imperative

FLOOR GUIDING :



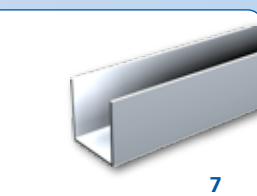
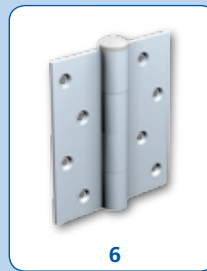
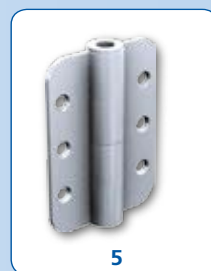
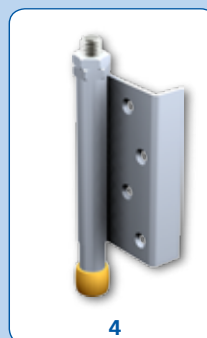
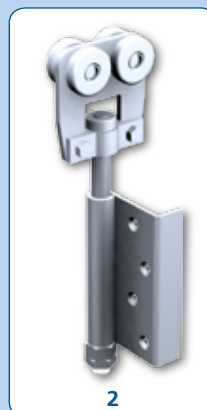
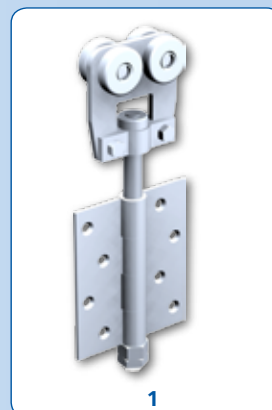
Sliding systems for FOLDING doors with equal panels

9500 Series



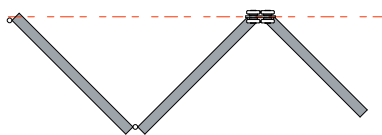
<i>With screwing hinges</i>	<i>36-37</i>
<i>With welding hinges</i>	<i>38-39</i>
<i>With angle plates</i>	<i>40-41</i>

HANGER CAPACITY 40 KG MAX. Track : 9010			
Item Nr	Fig.	Description	
9512	1	Intermediate hanger, mounted on a hinge (capacity 40 kg)	2
9512 E	2	Offset end hanger (capacity 40 kg)	2
1104	3	Bottom guide on a hinge for U-profile 25 x 17 (Item Nr 1109)	
1104 EL	4	Offset bottom guide for U-profile 25 x 17 (Item Nr 1109)	
1510 C	5	Hinge 80 x 60, screwing type, with a Ø 10 axle, top-fixing	10
1109	7	Galvanised U-profile 25 x 17 - 4, 5 and 6 m long	4
1109 M	8	Jointing bracket for U-profile 25 x 17 (Item Nr 1109)	
HANGER CAPACITY 75 KG MAX. Track : 9030			
9532	1	Intermediate hanger, mounted on a hinge (capacity 75 kg)	2
9532 E	2	Offset end hanger (capacity 75 kg)	2
1105	3	Bottom guide on a hinge for U-profile 30 x 30 (Item Nr 1110)	
1105 EL	4	Offset bottom guide for U-profile 30 x 30 (Item Nr 1110)	
1512 C	6	Hinge 85 x 85, screwing type, with a Ø 12 axle, top-fixing	10
1110	7	Galvanised U-profile 30 x 30 - 4, 5 and 6 m long	4
1110 M	8	Jointing bracket for U-profile 30 x 30 (Item Nr 1110)	
HANGER CAPACITY 150 KG MAX. Track : 9040			
9542	1	Intermediate hanger, mounted on a hinge (capacity 150 kg)	2
9542 E	2	Offset end hanger (capacity 150 kg)	2
1106	3	Bottom guide on a hinge for U-profile 30 x 30 (Item Nr 1110)	
1106 EL	4	Offset bottom guide for U-profile 30 x 30 (Item Nr 1110)	
1514 C	6	Hinge 120 x 100, screwing type, with a Ø 14 axle, top-fixing	6
1110	7	Galvanised U-profile 30 x 30 - 4, 5 and 6 m long	4
1110 M	8	Jointing bracket for U-profile 30 x 30 (Item Nr 1110)	
HANGER CAPACITY 300 KG MAX. Track 9050			
9552	1	Intermediate hanger, mounted on a hinge (capacity 300 kg)	2
9552 E	2	Offset end hanger (capacity 300 kg)	2
1114	3	Bottom guide on a hinge for U-profile 50 x 60 (Item Nr 1115)	
1114 EL	4	Offset bottom guide for U-profile 50 x 60 (Item Nr 1115)	
1516 C	6	Hinge 120 x 100, screwing type, with a Ø 16 axle, top-fixing	4
1115/600	7	Galvanised U-profile 50 x 60 - 6 m long	
1115 M	8	Jointing bracket for U-profile 50 x 60 (Item Nr 1115)	
HANGER CAPACITY 400 KG MAX. Track : 9060			
9562	1	Intermediate hanger, mounted on a hinge (capacity 400 kg)	2
9562 E	2	Offset end hanger (capacity 400 kg)	2
1114	3	Bottom guide on a hinge for U-profile 50 x 60 (Item Nr 1115)	
1114 EL	4	Offset bottom guide for U-profile 50 x 60 (Item Nr 1115)	
1516 C	6	Hinge 120 x 100, screwing type, with a Ø 16 axle, top-fixing	4
1115/600	7	Galvanised U-profile 50 x 60 - 6 m long	
1115 M	8	Jointing bracket for U-profile 50 x 60 (Item Nr 1115)	

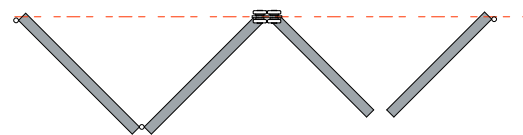


EXAMPLES OF ASSEMBLY :

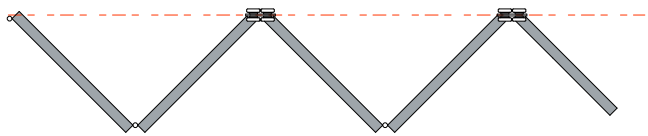
2 panels and 1 service door



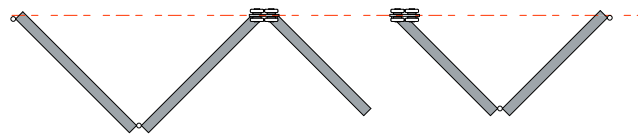
2 panels and 1 service door + 1 panel



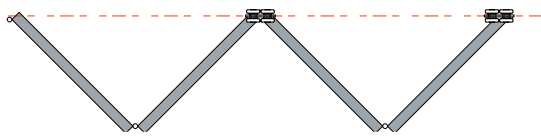
4 panels and 1 service door



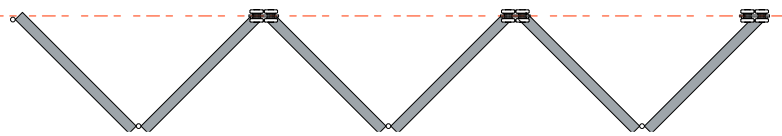
2 panels and 1 service door + 2 panels together

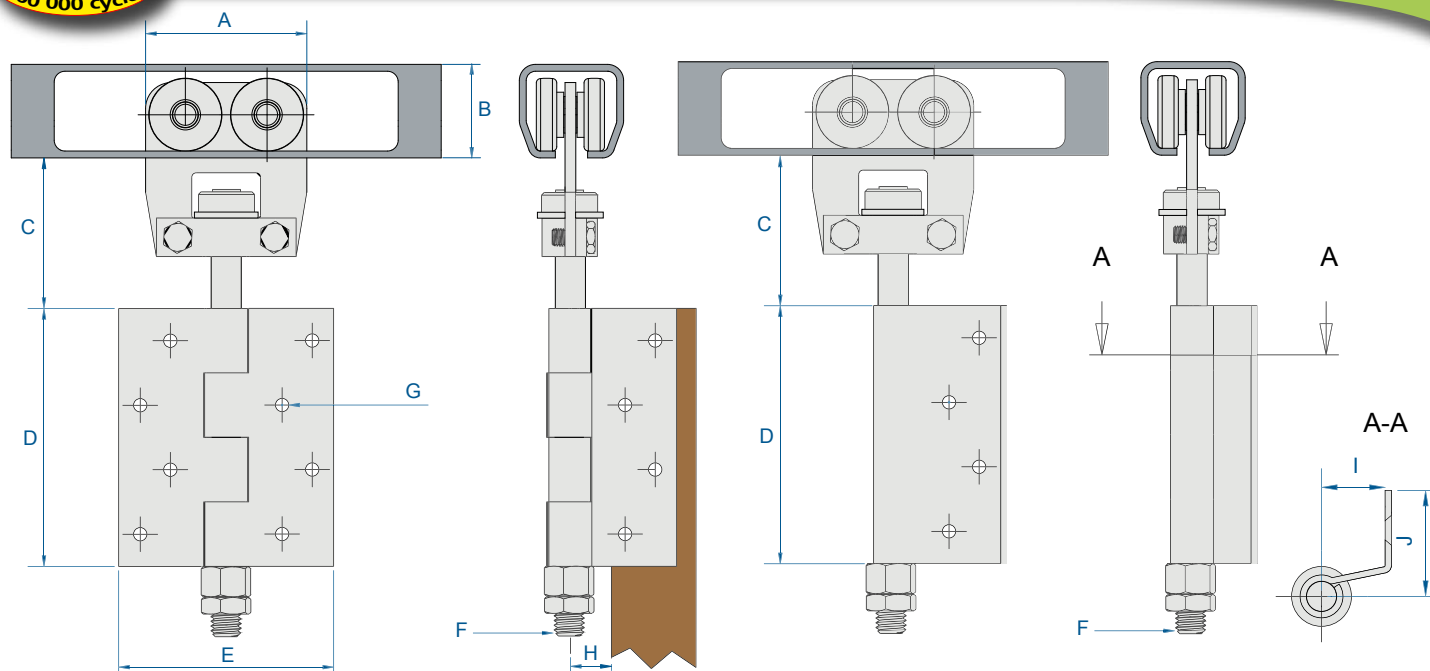


4 panels together



6 panels together





Intermediate hangers

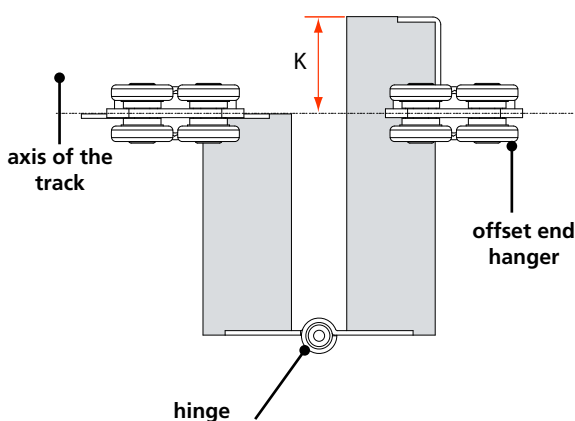
End hangers

Item Nr	A	B	C		D	E	F	G	H	I	J
			Min.	Max.							
9512	50	28	40	60	80	60	M 10	Ø 5	11	28	20
9512 E											
9532	62	35	49	69	85	85	M 12	Ø 5	12	41	25.5
9532 E											
9542	75	43.5	60	92	120	100	M 14	Ø 6	15	52	31
9542 E											
9552	100	60	121	146	120	100	M 16	Ø 6	17	60	32
9552 E											
9562	124	75	118	144	120	100	M 16	Ø 6	17	60	32
9562 E											

DOOR WITH NO SERVICE DOOR :

The end hanger is fixed on to the end panel.
The width of the end panel must be equal to the width of the other panels, increased by the K dimension.

Item Nr	K dimension
9512 E	30
9532 E	44
9542 E	55
9552 E	64
9562 E	64

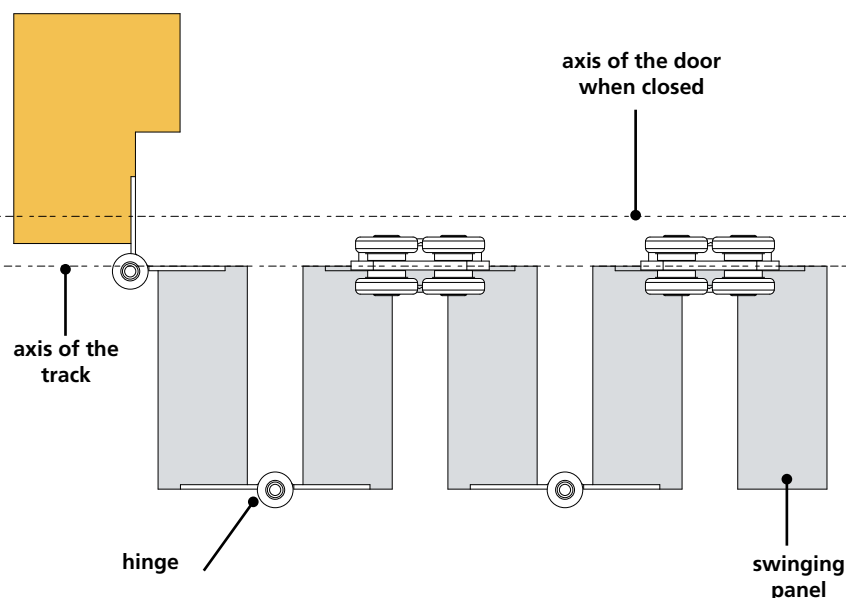


CROSS SECTION, TOP VIEW :

folding door with 4 panels and a swinging panel, folding on one side only.

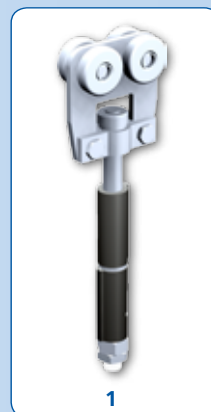
This top view of a set of panels shows more precisely the use of the items in our 9050 series.

The swinging panel can be blocked :
- by a bar (opening from the inside only)
- by a lock



See our assembling recommendations on p.34

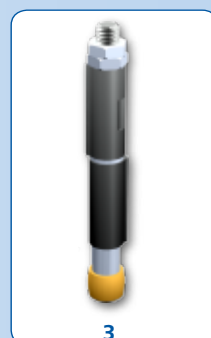
HANGER CAPACITY 40 KG MAX. Track : 9010			
Item Nr	Fig.	Description	
9512 SO	1	Intermediate hanger, mounted on a hinge (capacity 40 kg)	2
9512 SOE	2	End hanger mounted on a 1/2 hinge (capacity 40 kg)	2
1104 SO	3	Bottom guide mounted on a hinge for U-profile 25 x 17 (1109)	
1104 SOE	4	End bottom guide mounted on a 1/2 hinge for U-profile 25 x 17	
1510 SO	5	Hinge, welding type, with a Ø 10 axle - Height= 80 mm	4
1109	6	Galvanised U-profile 25 x 17. Available in 4, 5 and 6 m.	4
1109 M	7	Jointing bracket for U-profile 25 x 17 (Item Nr 1109)	
HANGER CAPACITY 75 KG MAX. Track : 9030			
9532 SO	1	Intermediate hanger, mounted on a hinge (capacity 75 kg)	2
9532 SOE	2	End hanger mounted on a 1/2 hinge (capacity 75 kg)	2
1105 SO	3	Bottom guide mounted on a hinge for U-profile 30 x 30 (1110)	
1105 SOE	4	End bottom guide mounted on a 1/2 hinge for U-profile 30 x 30	
1512 SO	5	Hinge, welding type, with a Ø 12 axle - Height = 85 mm	10
1110	6	Galvanised U-profile 30 x 30. Available in 4, 5 and 6 m.	4
1110 M	7	Jointing bracket for U-profile 30 x 30 (Item Nr 1110)	
HANGER CAPACITY 150 KG MAX. Track : 9040			
9542 SO	1	Intermediate hanger, mounted on a hinge (capacity 150 kg)	2
9542 SOE	2	End hanger mounted on a 1/2 hinge (capacity 150 kg)	2
1106 SO	3	Bottom guide mounted on a hinge for U-profile 30 x 30 (1110)	
1106 SOE	4	End bottom guide mounted on a 1/2 hinge for U-profile 30 x 30	
1514 SO	5	Hinge, welding type, with a Ø 14 axle - Height = 120 mm	4
1110	6	Galvanised U-profile 30 x 30. Available in 4, 5 and 6 m.	4
1110 M	7	Jointing bracket for U-profile 30 x 30 (Item Nr 1110)	
HANGER CAPACITY 300 KG MAX. Track : 9050			
9552 SO	1	Intermediate hanger, mounted on a hinge (capacity 300 kg)	2
9552 SOE	2	End hanger mounted on a 1/2 hinge (capacity 300 kg)	2
1114 SO	3	Bottom guide mounted on a hinge for U-profile 50 x 60 (1115)	
1114 SOE	4	End bottom guide mounted on a 1/2 hinge for U-profile 50 x 60	
1516 SO	5	Hinge, welding type, with a Ø 16 axle - Height = 120 mm	4
1115/600	6	Galvanised U-profile 50 x 60. 6 m long	4
1115 M	7	Jointing bracket for U-profile 50 x 60 (Item Nr 1115)	
HANGER CAPACITY 400 KG MAX. Track : 9060			
9562 SO	1	Intermediate hanger, mounted on a hinge (capacity 400 kg)	2
9562 SOE	2	End hanger mounted on a 1/2 hinge (capacity 400 kg)	2
1114 SO	3	Bottom guide mounted on a hinge for U-profile 50 x 60 (1115)	
1114 SOE	4	End bottom guide mounted on a 1/2 hinge for U-profile 50 x 60	
1516 SO	5	Hinge, welding type, with a Ø 16 axle - Height = 120 mm	10
1115/600	6	Galvanised U-profile 50 x 60. 6 m long	4
1115 M	7	Jointing bracket for U-profile 50 x 60 (Item Nr 1115)	



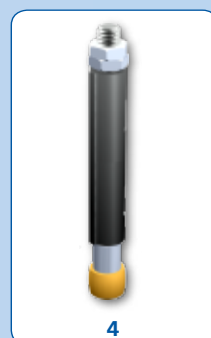
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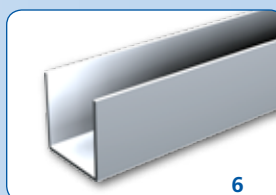
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4



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6



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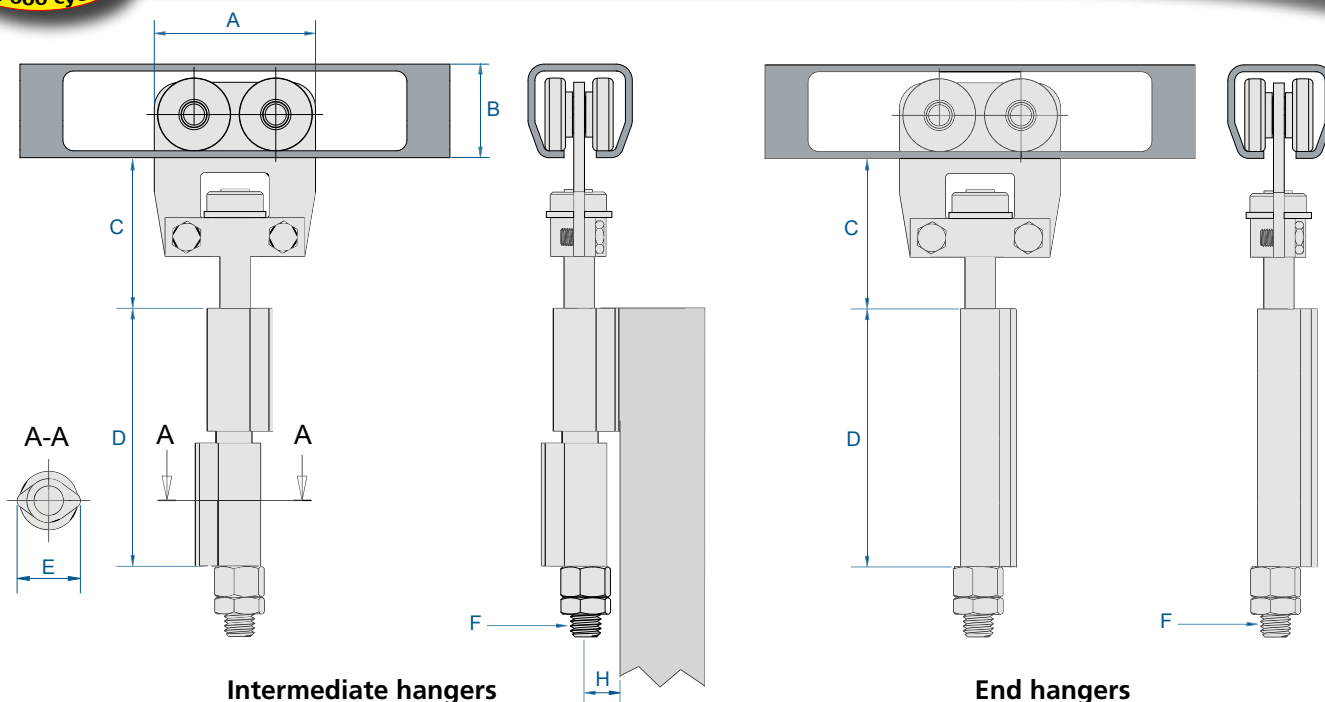
EXAMPLES OF ASSEMBLY :

See on p. 36



HIGH LIMIT ELASTICITY STEEL :

To ensure the highest possible quality in our products, Manton rolls HLE (High Limit of Elasticity) steels also used in the automotive industry. This process requires complete mastery of rolling techniques. It results in a track, that is thinner and thus lighter and more resistant to wear.

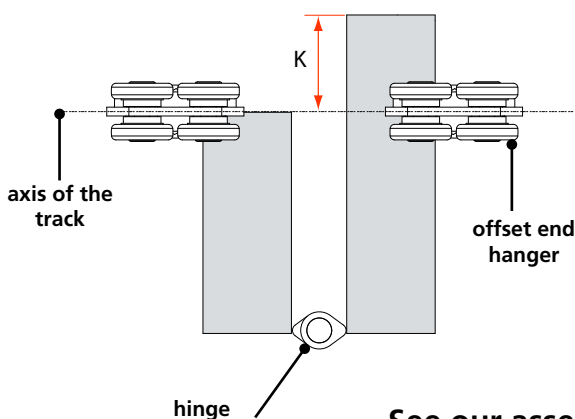


Item Nr	A	B	C		D	E	F	H
			Min.	Max.				
9512 SO	50	28	40	60	80	22	M 10	11
9512 SOE								
9532 SO			49	69				
9532 SOE	62	35			85	24	M 12	12
9542 SO	75	43.5	60	92	120	30	M 14	15
9542 SOE								
9552 SO	100	60	121	146	120	34	M 16	17
9552 SOE								
9562 SO	124	75	118	144	120	34	M 16	17
9562 SOE								

DOOR WITH NO SERVICE DOOR :

The end hanger is fixed on the end panel.
The width of the end panel must be equal to the width of the other panels, increased by the K dimension.

Item Nr	K dimension
9512 E	30
9532 E	44
9542 E	55
9552 E	64
9562 E	64

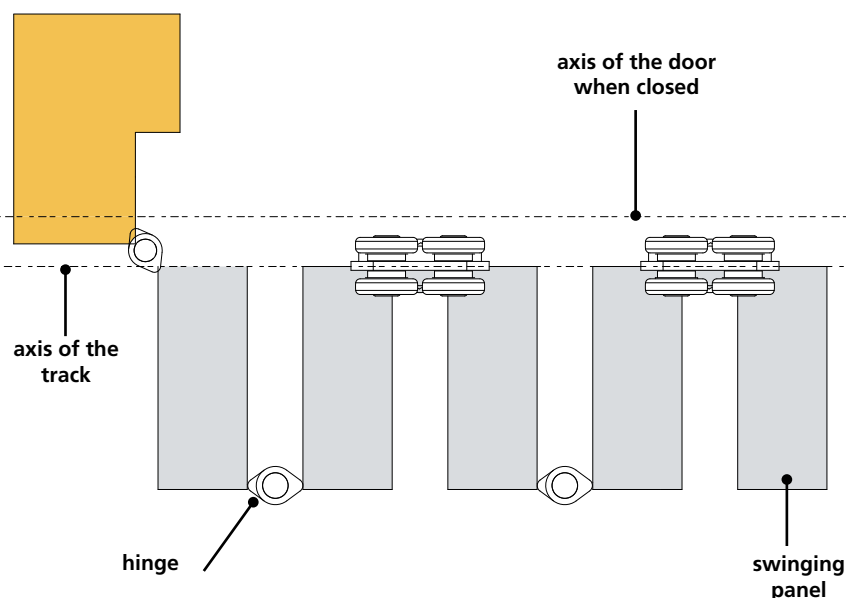


CROSS SECTION, TOP VIEW :

folding door with 4 panels and a swinging panel, folding on one side only

This top view of a set of panels shows more precisely the use of the items in our 9500 Series.

The swinging panel can be blocked :
- by a bar (opening from the inside only)
- by a lock



See our assembling recommendations on p.34

HANGER CAPACITY 20 to 40 Kg Track : 9010

Item Nr	Fig.	Description	
9611	1	Swivelling end hanger, with a Ø M 10 axle - 2 steel wheels (capacity 20 kg)	2
9613	2	Swivelling hanger, with a Ø M 10 axle - 4 steel wheels (capacity 40 kg)	2
9614 EW	3	Angle plate with 2 holes Ø M 10	
9614 GW	4	Angle plate for offset hanger, hole Ø M 10	
9614 HWR	7	Angle plate for offset hanger on the right, hole Ø M 10	
9614 HWL		Ditto on the left	
1109 EFW	5	Simple guide with olive Ø 13, for U-profile 25 x 17	
1109 GFW	6	Offset guide, olive Ø 13, pour U 25 x 17	
1109 HFWR	8	Offset guide, olive Ø 13, on the right for U-profile 25 x 17	
1109 HFWL		Ditto on the left	
1109	9	Galvanised U-profile 25 x 17. 4, 5 and 6 m long	
1109 M	10	Jointing bracket for galvanised U-profile 25 x 17	

HANGER CAPACITY 40 to 85 Kg Track : 9030

9631	1	Swivelling end hanger, with a Ø M 12 axle - 2 steel wheels (capacity 40 kg)	2
9633	2	Swivelling hanger, with a Ø M 12 axle - 4 steel wheels (capacity 85 kg)	2
9634 EW	3	Simple angle plate with 2 holes Ø M 12	
9634 GW	4	Angle plate for offset hanger, hole Ø M 12	
9634 HWR	7	Angle plate for offset hanger on the right, hole Ø M 12	
9634 HWL		Ditto on the left	
1110 EFW1	5	Simple guide with olive Ø 24, for U-profile 30 x 30	
1110 GFW1	6	Offset guide, olive Ø 24, for U-profile 30 x 30	
1110 HFWR1R	8	Offset guide, olive Ø 24, on the right for U-profile 30 x 30	
1110 HFW1L		Ditto on the left	
1110	9	Galvanised U profile 30 x 30. 4, 5 and 6 m long	
1110 M	10	Jointing bracket for galvanised U profile 30 x 30	

HANGER CAPACITY 80 to 150 Kg Track : 9040

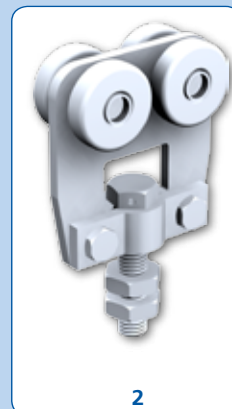
9641/16	1	Swivelling end hanger, with a Ø M 16 axle - 2 steel wheels (capacity 80 kg)	2
9643/16	2	Swivelling hanger, with a Ø M 16 axle - 4 steel wheels (capacity 150 kg)	2
9644 EW	3	Simple angle plate with 2 holes Ø M 16	
9644 GW	4	Angle plate for offset hanger, hole Ø M 16	
9644 HWR	7	Angle plate for offset hanger on the right, hole Ø M 16	
9644 HWL		Ditto on the left	
1110 EFW2	5	Simple guide with olive Ø 24, for U-profile 30 x 30	
1110 GFW2	6	Offset guide, olive Ø 24, for U-profile 30 x 30	
1110 HFWR2R	8	Offset guide, olive Ø 24, on the right for U-profile 30 x 30	
1110 HFW2L		Ditto on the left	
1110	9	Galvanised U-profile 30 x 30. 4, 5 and 6 m long	
1110 M	10	Jointing bracket for galvanised U-profile 30 x 30	

HANGER CAPACITY 150 à 300 Kg Track : 9050

9651/20	1	Swivelling end hanger, with a Ø M 20 axle - 2 steel wheels (capacity 150 kg)	2
9653/20	2	Swivelling hanger, with a Ø M 20 axle - 4 steel wheels (capacity 300 kg)	2
9654 EW	3	Angle plate for offset hanger, with 2 holes Ø M 20	
9654 GW	4	Angle plate for offset hanger, hole Ø M 20	
9654 HWR	7	Angle plate for offset hanger on the right, hole Ø M 20	
9654 HWL		Ditto on the left	
1115 EFW	5	Offset guide, olive Ø 48, for U-profile 50 x 60	
1115 GFW	6	Offset guide, olive Ø 48, for U-50 x 60	
1115 HFWR	8	Offset guide, olive Ø 48, on the right for U-profile 50 x 60	
1115 HFWL		Ditto on the left	
1115/600	9	Galvanised U-profile 50 x 60. 6 m long	
1115 M	10	Jointing bracket for galvanised U-profile 50 x 60	



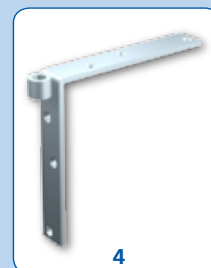
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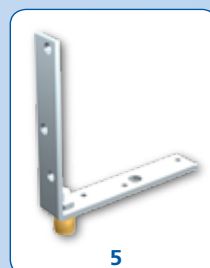
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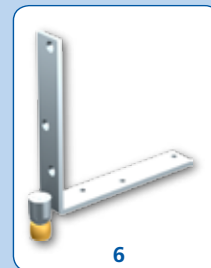
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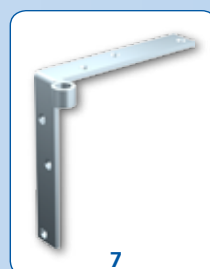
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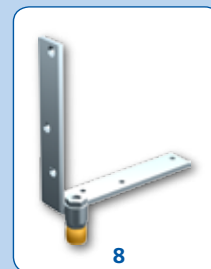
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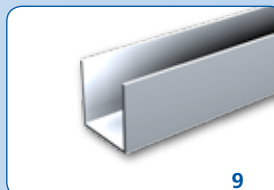
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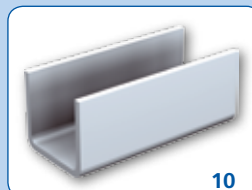
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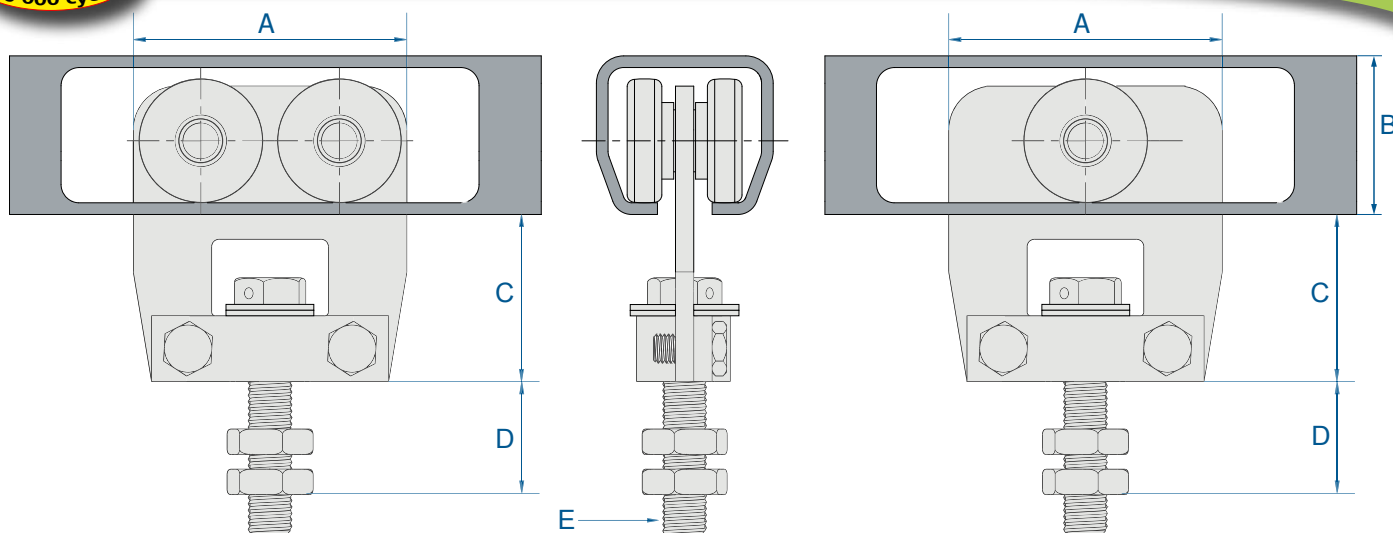
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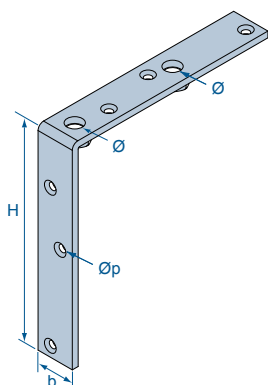


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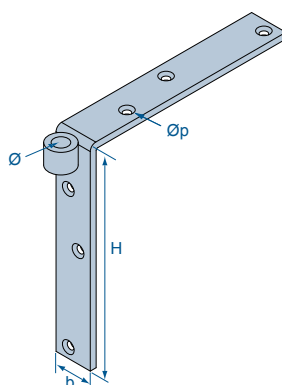


Item Nr	A	B	C	D Max.	Ø E
9613	50	28	34	33	M 10
9633	62	35	39	40	M 12
9643/16	75	43.5	45	47	M 16
9653/20	100	60	56	47	M 20

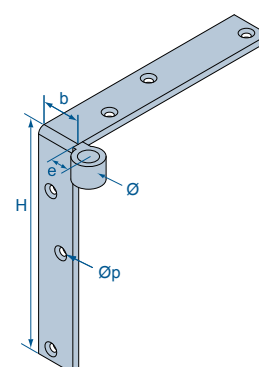
Item Nr	A	B	C	D Max.	Ø E
9611	50	28	34	33	M 10
9631	62	35	39	40	M 12
9641/16	75	43.5	45	47	M 16
9651/20	100	60	56	47	M 20



Item Nr	H	b	Ø	Øp
9614 EW	120	20	M 10	4.8
9634 EW	160	30	M 12	5.5
9644 EW	200	35	M 16	7
9654 EW	260	40	M 20	8

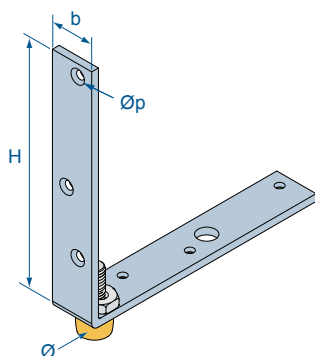


Item Nr	H	b	Ø	Øp
9614 GW	120	20	M 10	4.8
9634 GW	160	30	M 12	5.5
9644 GW	200	35	M 16	7
9654 GW	260	40	M 20	8

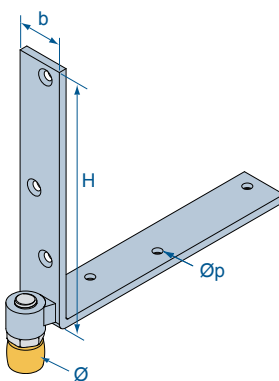


Item Nr	H	b	e	Ø	Øp
9614 HWR	120	20	12	M 10	4.8
9634 HWR	160	30	13	M 12	5.5
9644 HWR	200	35	16	M 16	7
9654 HWR	260	40	32	M 20	8

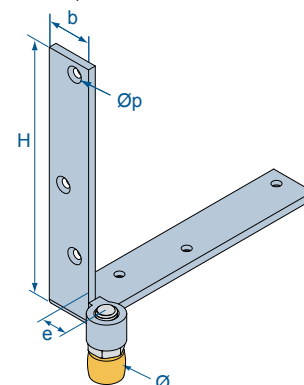
For the left versions : replace the R at the end of the Item Nr by a L



Item Nr	H	b	Ø	Øp
1109 EFW	120	20	13	4.8
1110 EFW 1	160	30	24	5.5
1110 EFW 2	200	35	24	7
1115 EFW	260	40	50	8



Item Nr	H	b	Ø	Øp
1109 HFW	120	20	13	4.8
1110 HFW 1	160	30	24	5.5
1110 HFW 2	200	35	24	7
1115 HFW	260	40	50	8



Item Nr	H	b	e	Ø	Øp
1109 HFWR	120	20	12	13	4.8
1110 HFWR 1R	160	30	13	24	5.5
1110 HFWR 2R	200	35	16	24	7
1115 HFWR	260	40	32	50	8

For the left versions : replace the R at the end of the Item Nr by a L

CAPACITY / HANGER : 500 kg max.

TRACK : 9010 to 9060

MOTION : FOLDING

- **Complete range :**
 - 5 systems up to 500 Kg / panel
 - up to 0.90 m panel width
 - screwing or welding versions
- **Solution** adapted to very wide openings
- **Reduced space needed when open**
- Ideal solution to separate large rooms (restaurants, lecture-rooms, halls, industrial buildings ...)

The axis of the upper hangers and of the bottom guides must be perfectly aligned

Place a complementary bracket on the push back side

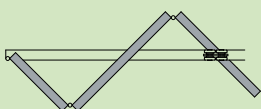
For a good sliding, the width of the panels must not exceed 90 cm

Floor guiding is imperative

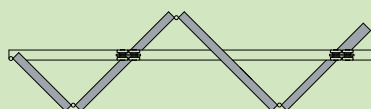
EXAMPLES OF HANGER POSITIONING :

For doors without a folding panel :

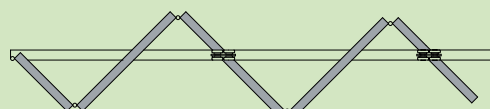
2 panels 1/2



3 panels 1/2



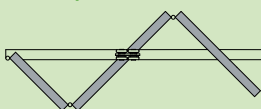
4 panels 1/2



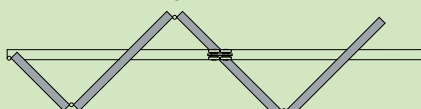
Fix the first hanger in the middle of the first panel starting without the side opposite to the frame, and then a hanger every second panel.

For doors with a folding panel :

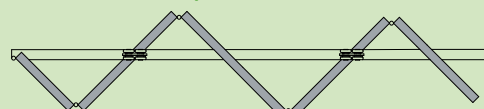
2 panels 1/2



3 panels 1/2



4 panels 1/2



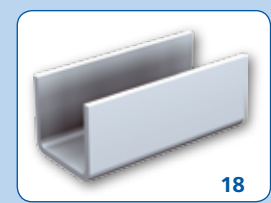
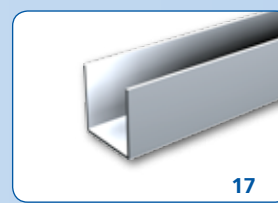
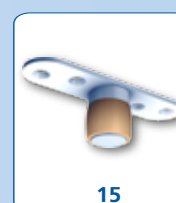
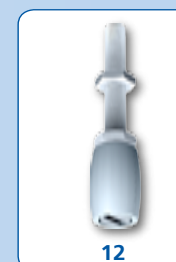
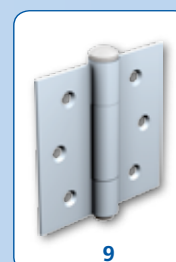
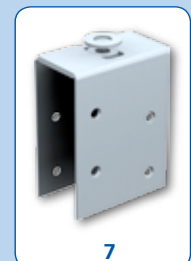
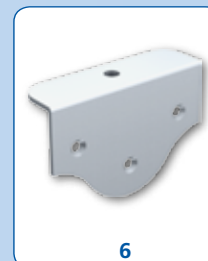
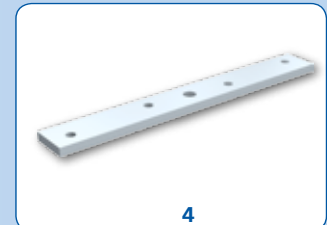
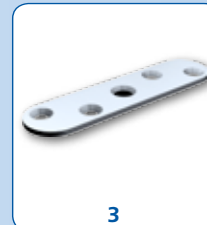
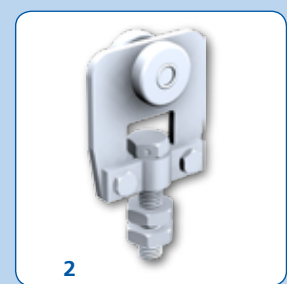
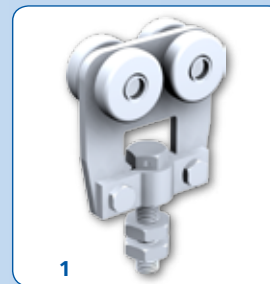
Fix the first hanger in the middle of the first panel preceeding the folding panel, and then a hanger every second panel.

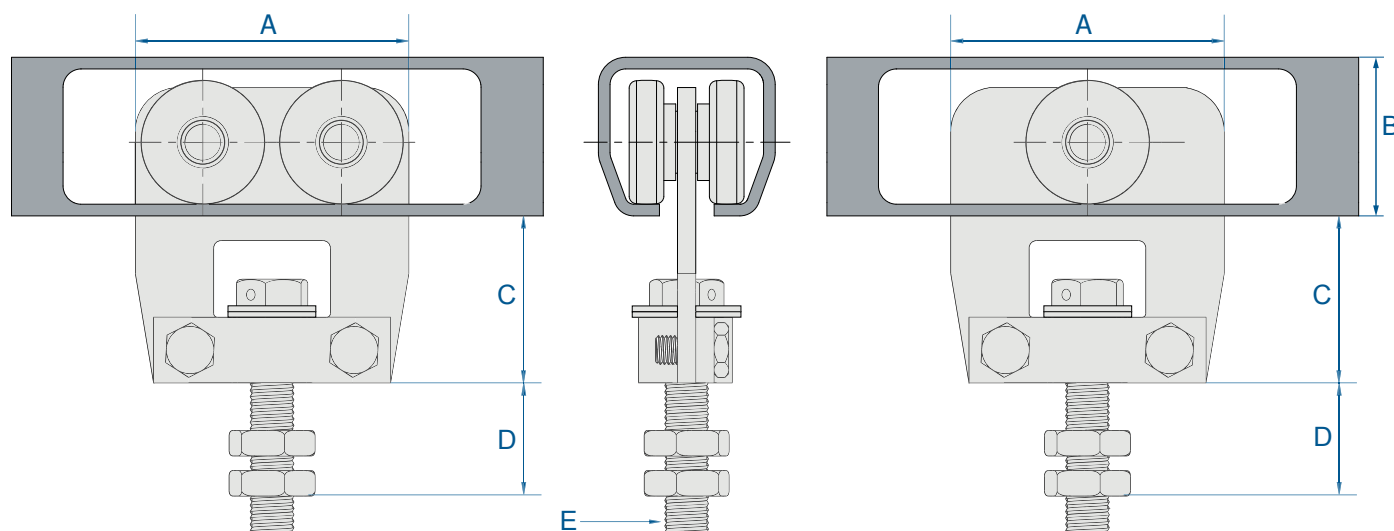
Sliding systems for CONCERTINA FOLDING doors with one half-panel

9600 Series



HANGER CAPACITY 40 Kg			Track : 9010
Item Nr	Fig.	Description	
9613	1	Swivelling hanger, with a Ø M10 axle, steel wheels - Capacity 40 Kg	2
9611	2	Swivelling end hanger, with a Ø M10 axle, steel wheels - Capacity 20 Kg	2
36	3	Top-fixing screwing plate - Ø M10	
37	6	Side-fixing screwing plate - Ø M10	
31	7	Adjustable apron set for 25 to 35 mm panels - Ø M10	
1510 C	8	Screwing hinge 80 x 60, with a Ø 10 axle, top-fixing	10
1510 SO	11	Welding hinge - Height = 80 mm - Axle : Ø 10	4
1088	12	Bottom guide without plate for U profile 25 x 17 (1109) - Axle : M6	10
1102	14	Bottom guide on screwing plate for U profile 25 x 17 (Item Nr 1109)	20
1109	17	Galvanised U profile 25 x 17 - Available in 4, 5 and 6 m.	4
1109 M	18	Joining bracket for U profile 25 x 17 (Item Nr1109)	
HANGERS CAPACITY 75 Kg			Track : 9030
9633	1	Swivelling hanger, with a Ø M12 axle, steel wheels - Capacity 75 Kg	2
9631	2	Swivelling end hanger, with a Ø M12 axle, steel wheels - Capacity 40 Kg	2
56	3	Top-fixing screwing plate - Ø M12	
51	7	Adjustable apron set for 40 to 50 mm panels - Ø M12	
1512 C	9	Screwing hinge 85 x 85, with a Ø 12 axle, top-fixing, for woods of 35 mm thick	10
1512 SO	11	Welding hinge - Height = 85 mm - Axle : Ø 12 mm	4
1089	13	Bottom guide without plate for U profile 30 x 30 (1110) - Axle : M14	10
1099	15	Bottom guide on screwing plate for U profile 30 x 30 (Item Nr 1110)	10
1110	17	Galvanised U profile 30 x 30 - Available in 4, 5 and 6 m.	4
1110 M	18	Joining bracket for U profile 30 x 30	
HANGER CAPACITY 150 Kg			Track : 9040
9643	1	Swivelling hanger, with a Ø M14 axle, steel wheels - Capacity 150 Kg	2
9641	2	Swivelling end hanger, with a Ø M14 axle, steel wheels - Capacity 75 Kg	2
66	4	Top-fixing screwing plate - Ø M14	
61	7	Adjustable apron set for 55 to 65 mm panels - Ø M14	
1514 C	10	Screwing hinge 120 x 100, with a Ø 14 axle, top-fixing, for woods of 40	6
1514 SO	11	Welding hinge - Height = 120 mm - Axle : Ø 14 mm	4
1089	13	Bottom guide without plate for U profile 30 x 30 (1110) - Axle : M14	10
1101	15	Reinforced bottom guide on screwing plate for U profile 30 x 30 (1110)	10
1110	17	Galvanised U profile 30 x 30 - Available in 4, 5 and 6 m.	4
1110 M	18	Joining bracket for U profile 30 x 30	
HANGER CAPACITY 300 Kg			Track : 9050
9653	1	Swivelling hanger, with a Ø M16 axle, steel wheels - Capacity 300 Kg	2
9651	2	Swivelling end hanger, with a Ø M16 axle, steel wheels - Capacity 150 Kg	2
86	4	Top-fixing screwing plate - Ø M16	
81	7	Adjustable apron set for 55 to 75 mm panels - Ø M16	
1516 C	10	Screwing hinge 120 x 100, with a Ø 16 axle, top-fixing	4
1516 SO	11	Welding hinge - Height = 120 mm - Axle : Ø 16 mm	4
1059	16	Bottom guide on screwing plate for U profile 50 x 60 (1115)	5
1115/600	17	Galvanised U profile 50 x 60 - 6 m long.	
1115 M	18	Joining bracket for U profile 50 x 60	
HANGER CAPACITY 500 Kg			Track : 9060
9663	1	Swivelling hanger, with a Ø M16 axle, steel wheels - Capacity 500 Kg	2
9661	2	Swivelling end hanger, with a Ø M16 axle, steel wheels - Capacity 250 Kg	2
86	4	Top-fixing screwing plate - Ø M16	
81	7	Adjustable apron set for 55 to 75 mm panels - Ø M16	
1516 C	10	Screwing hinge 120 x 100, with a Ø 16 axle, top-fixing	4
1516 SO	11	Welding hinge - Height = 120 mm - Axle : Ø 16 mm	4
1059	16	Bottom guide on screwing plate for U profile 50 x 60 (1115)	5
1115/600	17	Galvanised U profile 50 x 60 - 6 m long.	
1115 M	18	Joining bracket for U profile 50 x 60	





Item Nr	A	B	C	D max.	Ø E
9613	50	28	34.5	33	M 10
9633	62	35	39	40	M 12
9643	75	43.5	45.5	37	M 14
9653	100	60	56	37	M 16
9663	124	75	59	37	M 16

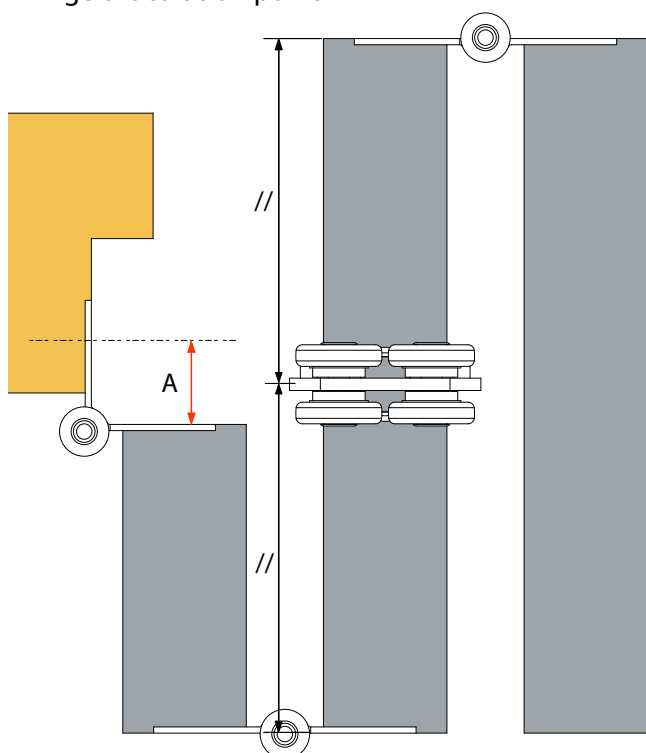
Item Nr	A	B	C	D max.	Ø E
9611	50	28	34.5	33	M 10
9631	62	35	39	40	M 12
9641	75	43.5	45.5	37	M 14
9651	100	60	56	37	M 16
9661	124	75	59	37	M 16

IMPORTANT RECOMMENDATION :

A = distance between the middle of the thickness of the half-panel and the axis of the hinge articulation point

Once the panels have been assembled with hinges and folded parallel one to another, mark a central line on the top and bottom edges.

The hangers (and if required the guides) must be fixed on these lines and in the middle of the panel thickness



PANEL WIDTH :

Opening on the right and on the left :

$$\text{Width of 1 panel} = \frac{\text{width of the opening} + 2 \times \text{the dimension A}}{\text{number of standard panels} + 1}$$

$$\text{Width of 1/2 panel} = \text{half of 1 panel} - \text{dimension of A}$$

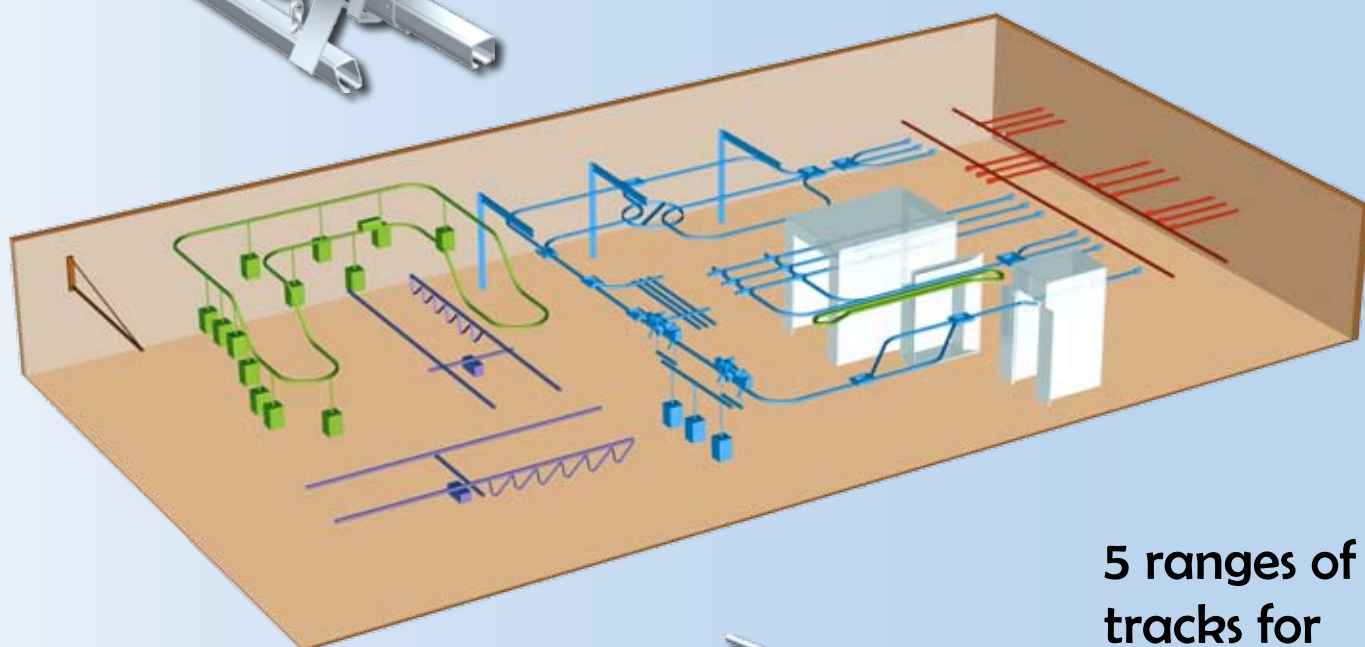
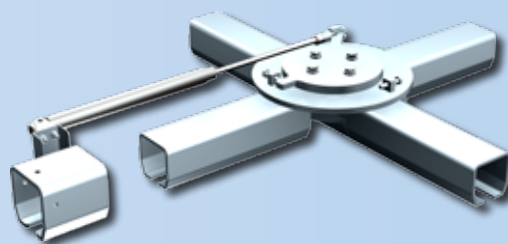
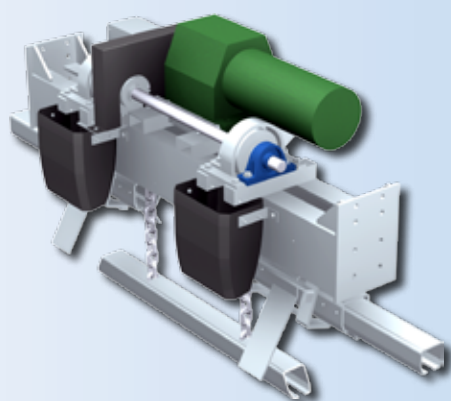
Opening on one side only :

$$\text{Width of 1 panel} = \frac{2 \times \text{width of the opening} + 2 \times \text{the dimension A}}{2 \times \text{number of standard panels} + 1}$$

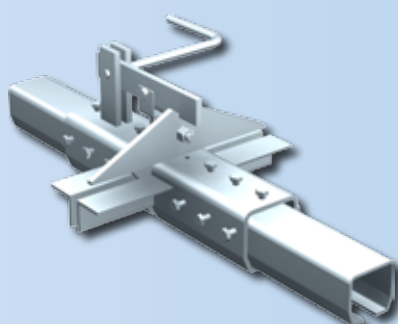
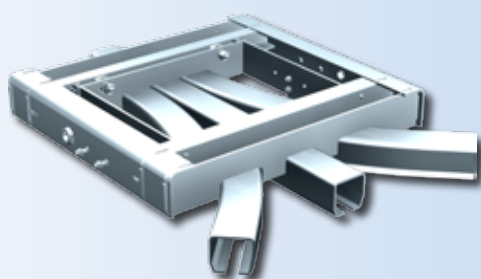
$$\text{Width of 1/2 panel} = \text{half of 1 panel} - \text{dimension of A}$$

SPECIAL ITEMS**46****TROLLEYS with ball** 47**STARAL (Aluminium range)** 48-49**AIRSTOP (hermetic doors)** 50-51



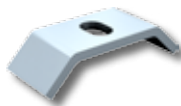

Mention this is also :
a wide range of systems for handling.



**5 ranges of
tracks for
loads up to
2000 Kg.**



TROLLEYS WITH BALLS

Item Nr	Fig.	Ø screw	Capacity/ trolley				
				Track	Apron set	Welding plate	Screwing plate

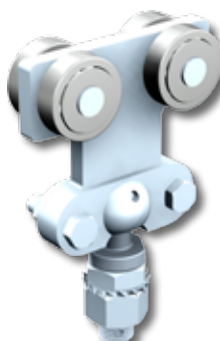
9831 RT	1	M 12	20 Kg	9030	51	55	56
9841 RT		M 16	35 Kg	9040	81	85	86
9851 SRT		M 20	100 Kg	9050	-	85 S	86 S
9861 SRT		M 24	200 Kg	9060	Direct fixing		

9832 RT	2	M 12	40 Kg	9030	51	55	56
9842 RT		M 16	70 Kg	9040	81	85	86
9852 SRT		M 20	200 Kg	9050	-	85 S	86 S
9862 SRT		M 24	400 Kg	9060	Direct fixing		



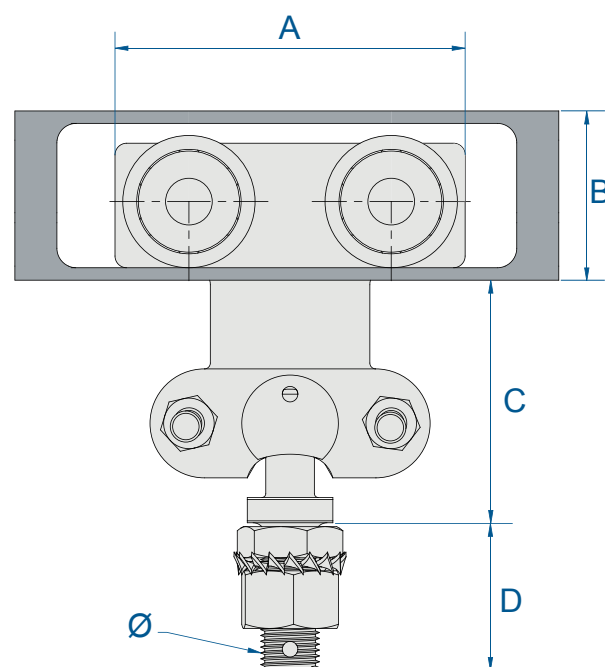
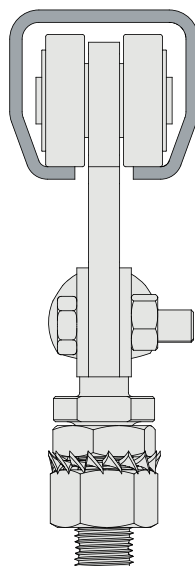
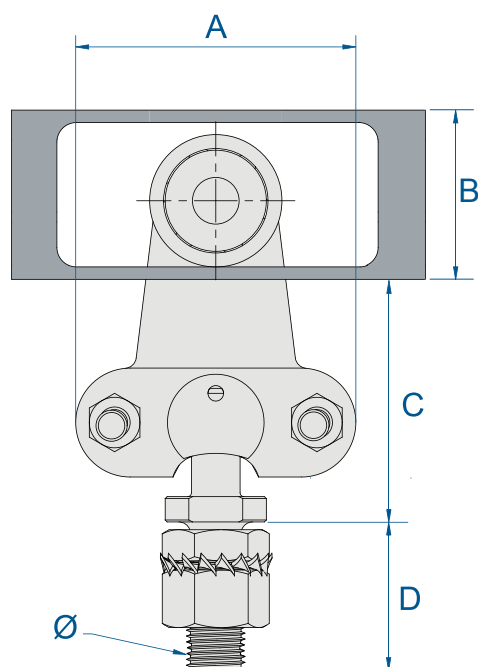
1

Item Nr	A	B	C	D	Ø
9831 RT	68	35	71	32	M 12
9841 RT	72	43.5	82	41	M 16
9851 SRT	98	60	114	50	M 20
9861 SRT	120	75	132	65	M 24

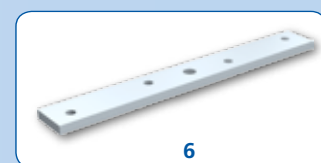
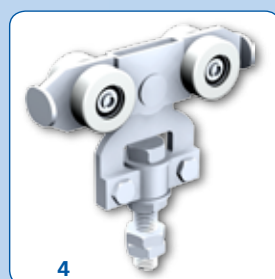
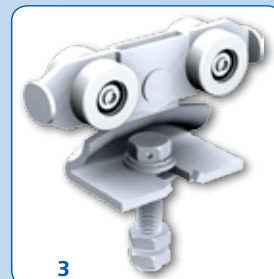
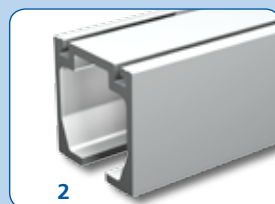


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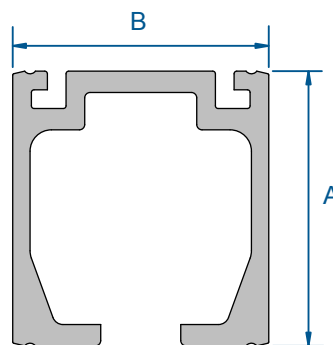
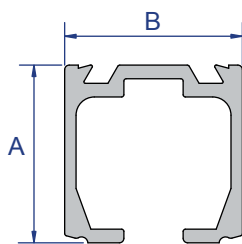
Item Nr	A	B	C	D	Ø
9832 RT	67	35	71	33	M 12
9842 RT	90	43.5	82	41	M 16
9852 SRT	112.5	60	114	50	M 20
9862 SRT	120	75	132	65	M 24



FOR DOORS OF 60 Kg				Track : 10108
Item Nr	Fig.	Description		
10108/500	1	Aluminium track 32.4 x 30.5 - 5 m long.	6	
9212 N	3	Hanger with swanneck, mounted on ball bearings with Nylon binding - axle : Ø M10	2	
9215 N	4	Ditto with removable collar - axle : Ø M10	2	
36	5	Screwing plate, top-fixing Ø M10		
31	8	Adjustable apron set for 25 to 35 mm panels		
9118	9	Ornamental stop	10	
10013	11	Sliding angle plate for the wall-fixing of the track 10108	10	
FOR DOORS OF 120 Kg				Track : 10312
10312/500	1	Aluminium track 39 x 39 - 5 m long.	6	
9232 N	3	Hanger with swanneck, mounted on ball bearings with Nylon binding - axle : Ø M12	2	
9235 N	4	Ditto with removable collar - axle Ø M12	2	
56	5	Screwing plate, top-fixing Ø M12		
55	7	Welding plate, side-fixing Ø 13		
51	8	Adjustable apron set for 40 to 50 mm panels		
9138	9	Ornamental stop	10	
9139	10	Stop	12	
10033	11	Sliding angle plate for the wall-fixing of the track 10312	10	
FOR DOORS OF 200 Kg				Track : 10400
10400/600	2	Aluminium track 51.5 x 47.5 - 6 m long.		
9242 N	3	Hanger with swanneck, mounted on ball bearings with Nylon binding - axle : Ø M14	2	
9245 N	4	Ditto with removable collar - axle : Ø M14	2	
66	6	Screwing plate, top-fixing Ø M14		
65	7	Welding plate, side-fixing Ø 15		
61	8	Adjustable apron set for 55 to 65 mm panels		
9148	9	Ornamental stop	10	
9149	10	Stop	8	
10043	12	Sliding angle plate for the wall-fixing of the track 10400		
10043 M	13	Sliding jointing bracket for the wall-fixing of the track 10400		
10044	14	Sliding bracket for the top-fixing of the track 10400		
10044 M	15	Sliding jointing bracket for the top-fixing of the track 10400		
FOR DOORS OF 400 Kg				Track : 10500
10500/600	2	Aluminium track 72 x 64 - 6 m long.		
9252 N	3	Hanger with swanneck, mounted on ball bearings with Nylon binding - axle : Ø M16	2	
9255 N	4	Ditto with removable collar - axle : Ø M16	2	
86	6	Screwing plate, top-fixing Ø M16		
85	7	Welding plate, side-fixing Ø 17		
81	8	Adjustable apron set for 55 to 75 mm panels		
9158	9	Ornamental stop	4	
9159	10	Stop	2	
10053	12	Sliding angle plate for the wall-fixing of the track 10500		
10053 M	13	Sliding jointing bracket for the wall-fixing of the track 10500		
10054	14	Sliding bracket for the top-fixing of the track 10500		
10054 M	15	Sliding jointing bracket for the top-fixing of the track 10500		
FOR DOORS OF 600 KG				Track : 10600
10600/600	2	Aluminium track 90.5 x 79.5 - 6 m long.		
9262 N	3	Hanger with swanneck, mounted on ball bearings with Nylon binding - axle : Ø M16	2	
9265 N	4	Ditto with removable collar - axle : Ø M16	2	
86	6	Screwing plate, top-fixing Ø M16		
85	7	Welding plate, side-fixing Ø 17		
81	8	Adjustable apron set for 55 to 75 mm panels		
10610	16	Ornamental stop	4	
9169	10	Stop	2	
10063	12	Sliding angle plate for the wall-fixing of the track 10600		
10063 M	13	Sliding jointing bracket for the wall-fixing of the track 10600		
10064	14	Sliding bracket for the top-fixing of the track 10600		
10064 M	15	Sliding jointing bracket for the top-fixing of the track 10600		



Item Nr	A	B
10108	32.4	30.5
10312	39	39



Item Nr	A	B
10400	51.5	47.5
10500	72	64
10600	90.5	79.5

Fig.	Dim.	10108/500	10312/500	10400/600	10500/600	10600/600
*		10013*	10033*	10043**	10053**	10063**
**	A	40	40	65	90	110
	B	15	20	25	30	40
	C	25	25	45	70	80
	Ød	5	5	6.5	8.5	10.5
*				10043 M	10053 M	10063 M
	A			130	180	220
	B			25	30	40
	C			110	160	190
	Ød			6.6	8.5	10.5
*				10044	10054	10064
	A			65	90	110
	B			127	158	190
	C			6	8	10
	Ød			12	16	21
	D			24	26	31
	E			18	21	25
*				10044 M	10054 M	10064 M
	A			130	180	220
	B			127	158	190
	C			6	8	10
	Ød			12	16	21
	D			24	26	31
	E			18	21	25

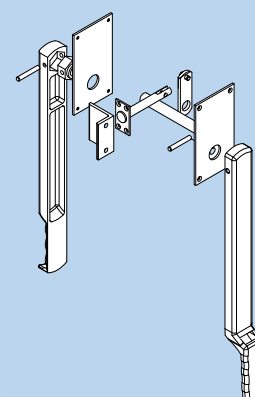
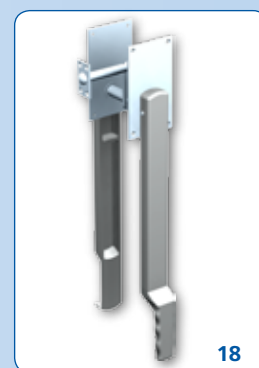
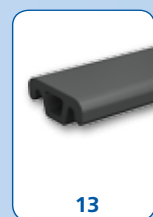
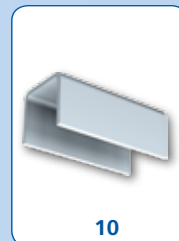
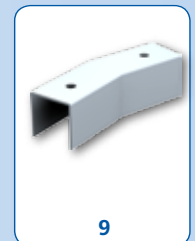
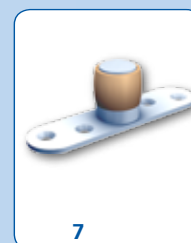
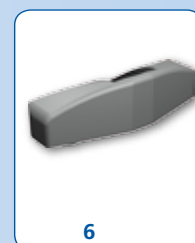
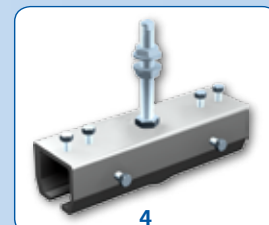
All our hangers are equipped with ball bearings with Nylon binding. They can be used, without any restriction, with every version of our steel tracks, whose dimensions are corresponding to the aluminium tracks dimensions. The following board indicates the tracks correspondence. The hangers can be used with these tracks, but must not exceed the indicated loads.

Aluminium tracks	Steel tracks	Hangers with Nylon binding		
10108/500	9010	9212 N	9215 N	30 kg/hanger
10312/500	9030	9232 N	9235 N	60 kg/hanger
10400/600	9040	9242 N	9245 N	100 kg/hanger
10500/600	9050	9252 N	9255 N	200 kg/hanger
10600/600	9060	9262 N	9265 N	300 kg/hanger

FOR DOORS OF 200 KG MAX. - 3 M WIDTH - 4 M HEIGHT

Item Nr	Fig.	Description	
9241 SAS/1		SET OF FITTINGS FOR 1 DOOR, including :	
9241 S	1	Hanger with swanneck with steel wheels mounted on ball bearings - axle : Ø M14	x 2
9043	2	Angle plate, screwing type Ø 14	x 2
9046 CF	3	Adjustable angle plate, screwing type	x 9
9041 MDL	4	Inclination and bending bracket for track 9040	x 2
9041 L	5	Adjustable bracket	x 7
1012 N	6	Half shoe guide in Nylon, screwing type	x 1
1099	7	Guide on screwing plate for U profile 30 x 30	x 1
1089	8	Guide M 14 without plate for U profile 30 x 30	x 1
1110 MD	9	Inclination and bending bracket for U profile 30 x 30	x 1
1110 M	10	Jointing bracket for U profile 30 x 30	x 1
2093	11	Stop with a rubber buffer	x 1

9241 SAS/2		SET OF PROFILES AND JOINTS FOR 1 DOOR, including :	
1152/1100	12	Lateral joint in rings of 11 m.	x 1
1155/200	13	Stiffener for the fixing of the lateral joint, drilled every 220 mm - Length = 2 m.	x 6
1153	14	Stiffener for the fixing of the lateral joint in angle of 90°, drilled with 2 holes	x 2
1154/300	15	Lower joint, with a rigid angle plate, drilled every 220 mm Length = 3 m.	x 1
9040/300	16	Track 9040 - 3 m long	x 2
1110/300	17	U profile 30 x 30 - 3 m long	x 1



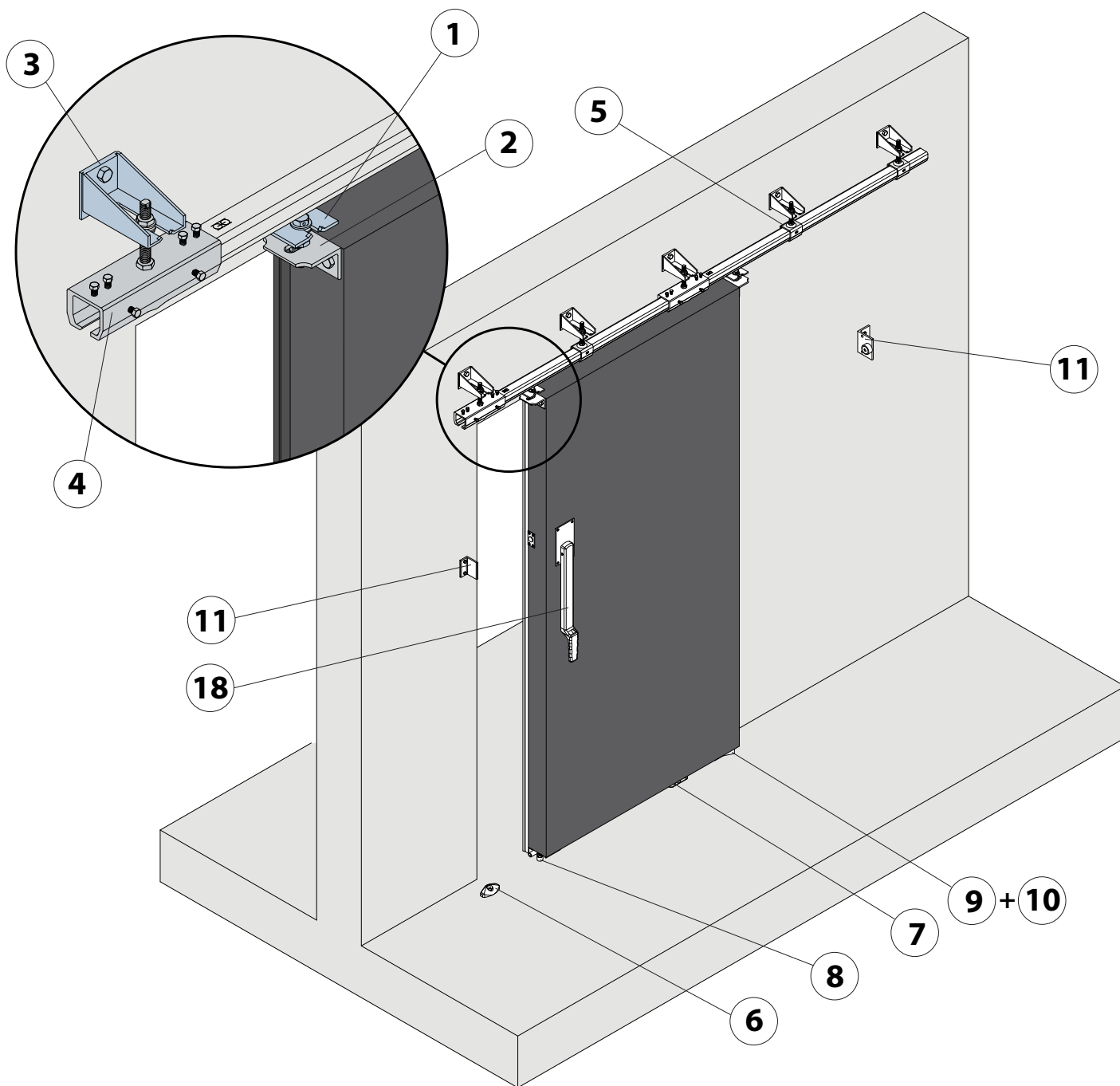
FOR DOORS OF 400 KG MAX.

9251 SAS/1		SET OF FITTINGS FOR 1 DOOR, including :	
9251 S	1	Hanger with swanneck with steel wheels mounted on ball bearings - axle : Ø M16	x 2
9043	2	Angle plate, screwing type	x 2
9051 MDL	4	Inclination and bending bracket for track 9050	x 2
1012 N	6	Half shoe guide in Nylon, screwing type	x 1
1099	7	Guide on screwing plate for U profile 30 x 30	x 1
1089	8	Guide M 14 without plate for U profile 30 x 30	x 1
1110 MD	9	Inclination and bending bracket for U profile 30 x 30	x 1
1110 M	10	Jointing bracket for U profile 30 x 30	x 1
2094	11	Stop with 2 rubber buffers	x 1

ACCESSORIES to be ordered separately (depending on the dimensions of the door and of the packing units) :

9056 CFL	3	Adjustable angle plate screwing type (long version)	
9051 L	5	Adjustable bracket	
1152/3300	12	Lateral joint in rings of 33 m	
1155/200	13	Stiffener for the fixing of the lateral joint, drilled every 220 mm - Length = 2 m.	
1153	14	Stiffener for the fixing of the lateral joint in angle of 90°, drilled with 2 holes	20
1154/300	15	Lower joint, with a rigid angle plate, drilled every 220 mm Length = 3 m.	
9050/300	16	Galvanised track 9050 - 3 m long	
9050/600	16	Ditto - 6 m long	
1110	17	U profile 30 x 30 available in 3m 4 m, 5 m and 6 m long (see on page 48)	

1291	18	Double handle, common to all versions	1
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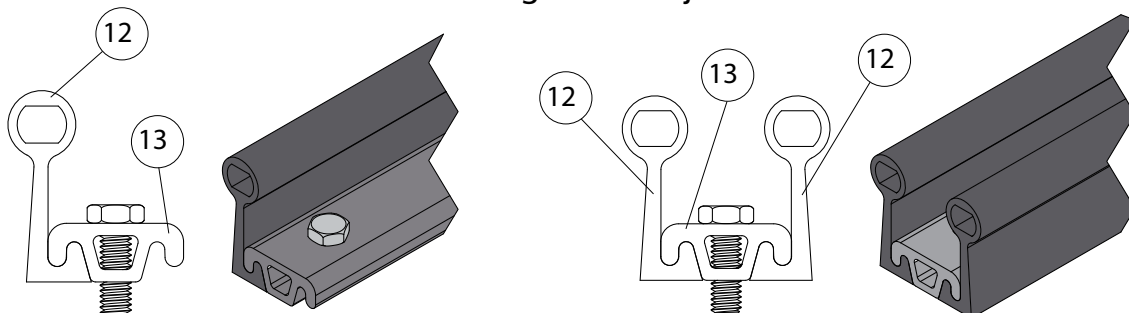


DIMENSIONAL STRESS :

The door thickness must be from 80 to 115 mm max.
The door dimension must exceed the bay dimension by 80 mm.

Use of stiffeners

1155/200 for the fixing of 1 or 2 joints Item Nr 1152 :



TUBULAR TRACKS

Item Nr	Description	
9010/600	Galvanised track 28 x 30 mm, 6 m long	4
9010 N/600	Ditto untreated (plain track)	
9010 X/600	Ditto in STAINLESS STEEL	
9030/300	Galvanised track 35 x 40 mm, 3 m long	
9030/600	Ditto - 6 m long	
9030 N/600	Ditto untreated (plain track)	
9030 X/600	Ditto in STAINLESS STEEL	
9040/300	Galvanised track 43.5 x 48.5 mm, 3 m long	
9040/400	Ditto - 4 m long	
9040/600	Ditto - 6 m long	
9040 N/600	Ditto untreated (plain track)	
9040 X/600	Ditto in STAINLESS STEEL	
9050/300	Galvanised track 60 x 65 mm, 3 m long	
9050/600	Ditto - 6 m long	
9050 N/600	Ditto untreated (plain track)	
9060/300	Galvanised track 75 x 80 mm, 3 m long.	
9060/600	Ditto - 6 m long	
9060/900	Ditto - 9 m long	
9060 N/600	Plain track (untreated) - 6 m long	
9070/600	Galvanised track 110 x 90 mm, 6 m long	
9070/900	Ditto - 9 m long	
9070N/600	Plain track (untreated) 110 x 90 mm, 6 m long	
9070N/900	Ditto - 9 m long	

TUBULAR TRACKS CURVES

9010 C	Galvanised curve 9010 - Radius = 500 mm.	
9030 C	Galvanised curve 9030 - Radius = 600 mm.	
9040 C	Galvanised curve 9040 - Radius = 600 mm.	
9050 C	Galvanised curve 9050 - Radius = 600 mm.	
9060 C	Galvanised curve 9060 - Radius = 800 mm.	
9070 ZBC	White galvanised curve 9070 - Radius = 1000 mm.	

U PROFILES FOR GUIDING

1109/400	Galvanised U profile 25 x 17 mm, 4 m long	4
1109/500	Ditto - 5 m long	4
1109/600	Ditto - 6 m long	4
1110/400	Galvanised U profile 30 x 30 mm, 4 m long	4
1110/500	Ditto - 5 m long	4
1110/600	Ditto - 6 m long	4
1115/600	Galvanised U profile 50 x 60 mm, 6 m long	

U PROFILES CURVES FOR GUIDING

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

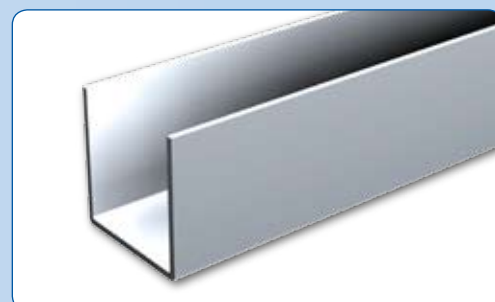
see dimensions on p. 8



Tubular tracks



Tubular track curve



U profile



U profile curve

The jointing of two tracks can weaken an installation : it is essential to use jointing brackets, in order to insure perfect assembly, without track disalignement. Welding has to be excluded.

Before the use of the doors, it is recommended to clean the inside of the tracks correctly and to grease them 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.

DID
YOU KNOW ?



► DIP-GALVANIZING :

Mantion tracks are dip-galvanized (Sendzimir).

Apart from the reinforced density of the galvanizing, this technique is the only way to uniformly protect all parts of the track (including the interior part).

► GALVANIZING PROPERTIES :

Zinc has the property of regenerating itself by surface recovering if it is altered, e.g. : scraped or scratched. Thus, a track, after being scratched or cut recovers its protection entirely through galvanization. The MANTION treatment : Sendzimir Z350 process allows recovering of up to 2 mm recovering.

► " Z350 " : THE MANTION ADVANTAGE

In the building industry, most products have a Z275 zinc protection. For optimal quality, most Mantion tracks are Z350 treated (350 grammes zinc/m² on both internal and external surfaces, i.e. : 25 microns zinc on each surface).

► HIGH LIMIT ELASTICITY STEEL :

To ensure the highest possible quality in our products, Mantion rolls HLE (High Limit of Elasticity) steels also used in the automotive industry. This process requires complete mastery of rolling techniques. It results in a track, that is thinner and thus lighter and more resistant to wear.

► MANTION ROLLING :

Mantion is the only hardware manufacturer which rolls all its tracks. This ensures a perfect design and compatibility of the complete systems. Thanks to this process, Mantion can offer steel tracks with a High Limit of Elasticity.

► MANTION AND ITS TEST LABORATORY :



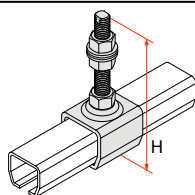

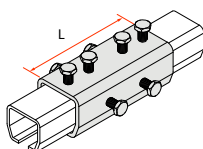

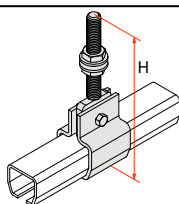
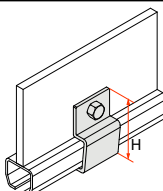

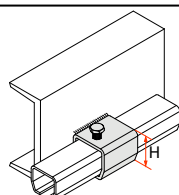

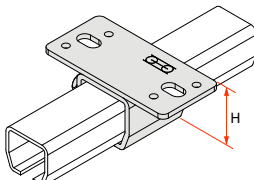

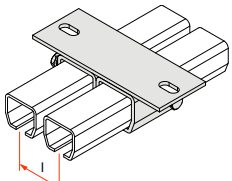

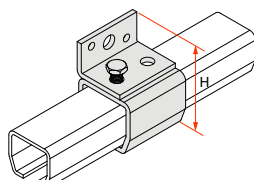

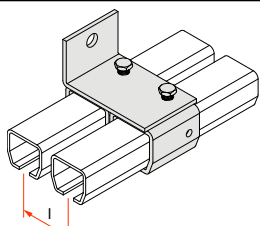
Mantion, which always focuses on the quality of its products, has one of the biggest test laboratories for sliding systems in Europe. 5 test stands enable Mantion to assay the endurance of all its sliding systems in order to comply with the requirements of the ISO 9001 standard.


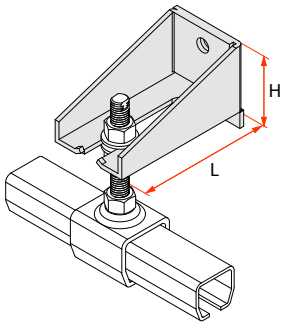

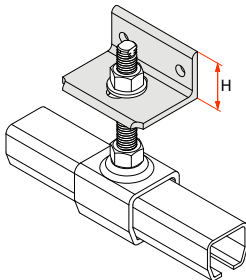

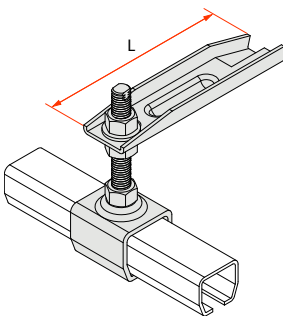

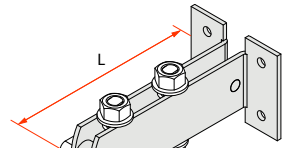

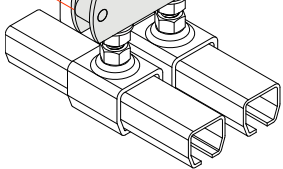

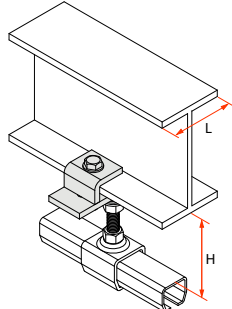
► TRACKS AND CURVES IN SPECIAL LENGTHS :

Mantion offers you the possibility to order tracks and special curves cut at the required length. Contact us.

MANTION'S SERVICE on www.mantion.com

On www.mantion.com, thanks to our special software, you can easily choose the Mantion system you need, and determine the product codes to order.

	Tubular tracks :	9010	9030	9040	9050	9060	9070	
	Description	Item Nr						Use
	Fixing bracket with long rod	9011 L H = 131 M 10	9031 L H = 155 M 14	9041 L H = 164 M 14	9051 L H = 207 M 20	9061 L H = 222 M 20	9071 L H = 320 M 30	
	Jointing bracket	9011 M L = 80	9031 M L = 115	9041 M L = 145	9051 M L = 180	9061 M L = 205	9071 M L = 220	
	Clamping bracket with normal rod.		9032 H = 189 M 14	9042 H = 198 M 14	9052 H = 249 M 20	9062 H = 265 M 20	9072 H = 390 M 30	
	Ditto without fixing rod	9012 N H = 65	9032 N H = 80	9042 N H = 94.5	9052 N H = 117	9062 N H = 140	9072 N H = 180	
	Bracket Welding type	9018 H = 35	9038 H = 44	9048 H = 55	9058 H = 75	9068 H = 96	9078 H = 134	
	Top-fixing bracket Screwing type	9018 H H = 38	9038 H H = 48	9048 H H = 61	9058 H H = 82	9068 H H = 106	9078 H H = 146	
	Ditto - double		9038 H2 l = 50	9048 H2 l = 60	9058 H2 l = 85			
	Bracket Wall fixing	9018 V H = 60	9038 V H = 74	9048 V H = 95	9058 V H = 125	9068 V H = 156	9078 V H = 204	
	Ditto - double		9038 V2 l = 50	9048 V2 l = 60	9058 V2 l = 85			
All accessories are white galvanised								

		TRACK	Item Nr	H		L	
				Min.	Max.	Min	Max.
 Wall fixing angle plate		9030	9046 CFC	60		35	60
		9040	9046 CFC	60		35	60
		9050	9056 CFC	60		40	65
		9030	9046 CF	60		32	110
		9040	9046 CF	60		32	110
		9050	9056 CF	60		40	105
		9060	9066	70		33	90
		9070	9076	80		45	85
		9030	9046 CFL	60		35	130
		9040	9046 CFL	60		35	130
		9050	9056 CFL	60		40	135
		9060	9066 L	70		33	150
 Angle plate - Screwing type		9010	9013	40		18	30
		9030	9033	40		26	46
		9040	9043	50		30	50
		9050	8573 S	70		42	62
		9060	8573 S	70		42	62
 Fixing plate - Sealing type		9010	3532			63 ± 4	
		9030	6257			142 ± 5	
		9040	6257			142 ± 5	
		9050	8572			150 ± 4	
 Adjustment plate - Sealing type		9010	3535			69	145
		9030	6260			181	262
		9040	6260			181	262
		9050	8575			186	314
 Adjustment plate - Screwing type		9010	3536	50		26	90
		9030	6261	80		32	143
		9040	6261	80		32	143
		9050	8576	90		40	179
		9060	8576 S	110		41	179
 Fixing bracket for I-beam		9010	3537	93	115	46	91
		9030	6262	116	130	46	91
		9040	6262	125	140	46	91
		9050	8577	167	175	46	91
		9060	8577	178	190	46	91

- The capacity of the hanger must be determined by the door weight
- Stops must be equipped with a buffer and placed at mid-height of the door.

STOPS

Item Nr	Description	
4023	Buffer stop Ø 20 mm -	20
2692	Buffer stop Ø 40 mm	20
1085	Adjustable stop fixed on a plate for doors sliding between 2 walls	
1086	Screwing type stop with rubber buffer for door of 80 kg max.	
1094	Sealing type stop with rubber buffer	
1095	Ditto reinforced version	
1096	Double stop in cast iron for door closing in the centre. Adjustable from 40 to 75 mm - Sealing type.	
2091	Screwing type stop with a rubber buffer	
2094	Screwing type stop with 2 rubber buffers	
2095	Reinforced stop with 2 spring buffers - Screwing type.	

HANDLES

1293	Handle in ABS, mortising type. Height : 75 mm - Width : 20 mm	10
1296	Handle in ABS, mortising type. Height : 70 mm - Width : 46 mm	10
1290	Handle made with buckled sheet 15/10. Height : 200 mm - Width : 90 mm	10
1290 X	Ditto in stainless steel	
1297	Handle on a plate - 265 mm long	10
1298	Handle made with buckled sheet.- 245 mm long	10

STOPS & BOLTS

1301 TN	Catch stop, cataphoresis treated, screwing type. Standard version	10
1302	Ditto, reinforced version	4
1308 N	Nickled plate stop - For small wooden or metal door. Height : 128 mm	10
1309 N	Nickled plate stop - For small wooden or metal door. Height : 190 mm	12
1314	Reinforced bolt with screwing type plate. Length : 300 mm - Ø 14 mm	10
1314 SO	Ditto. Welding type - Length : 300 mm - Ø 14 mm	10
1314 GE	Keeper of bolt for 1314 and 1314 SO. Inlet type.	
1314 GP	Keeper of bolt for 1314 and 1314 SO.	
1316	Reinforced bolt with screwing plate. Length : 500 mm - Ø 16 mm	10
1316 SO	Ditto welding type - Length : 500 mm - Ø 16 mm	10
1316 GE	Keeper of bolt for 1316 et 1316 SO. Inlet type.	
1316 GP	Keeper of bolt for 1316 and 1316 SO.	
1316 B	Bolt with lock holder, case in cast iron, cane and keeper in steel. Weight : 660 gr. - Ø 16 mm	10

DUST-PROOF BRUSH

1150/105	Dustproof brush, in individual plastic bags. Length = 1.05 m. Armature in white PVC. Total height = 35 mm - Height of the brush = 15 mm	10
1151/250	Ditto in 2.50 m length. Height of the brush = 20 mm	
1151A/300	Dustproof brush with armature in untreated aluminium. Length = 3 m. Total height = 60 mm - Height of the brush = 35 mm	

PULLEYS

4090	Swinging pulley Ø ext. : 90 mm - Ø groove : 75 mm for cables of Ø max. 4 mm	2
4145 F	Pulley in cast iron with offset plate. Screwing type. ext. Ø : 145 mm - groove Ø : 120 mm for cables of Ø max. 6 mm	
8145 F	Pulley in cast iron with hook. ext. Ø : 145 mm - groove Ø : 120 mm for cables of Ø max. 6 mm	



4023



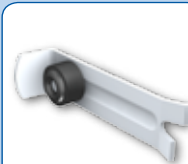
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1086



1085



1094 / 1095



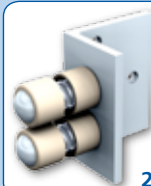
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2091



2094



2095



1293



1296



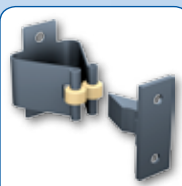
1290/1290X



1297



1298



1301 TN/ 1302



1308 N
1309 N



1314 - 1316



1314SO - 1316SO



1314 GP
1316 GP



1314 GE
1316 GE



1316 B



1150/105

A dustproof brush ensures an efficient airtightness on the lateral and back parts of a sliding door.



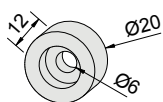
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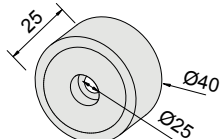
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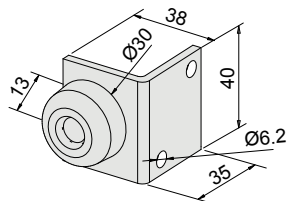
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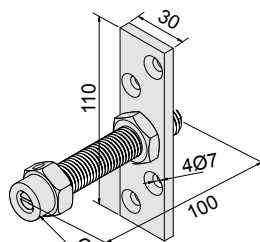
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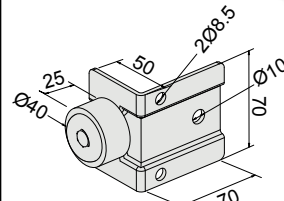
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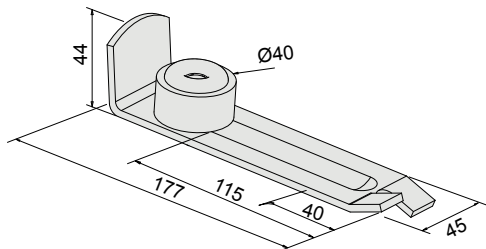
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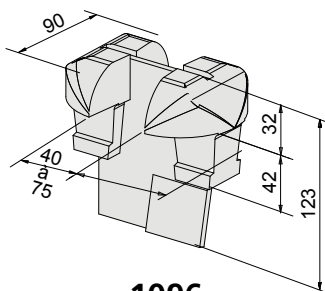
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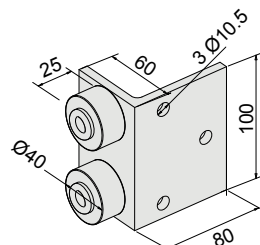
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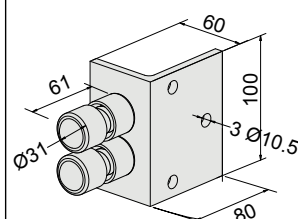
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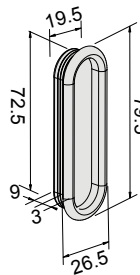
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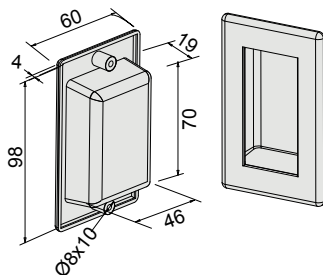
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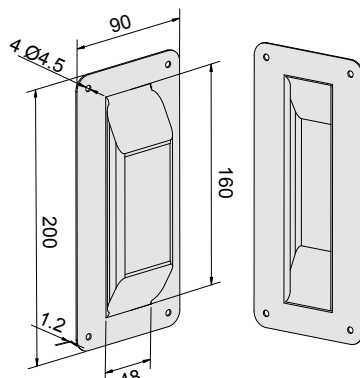
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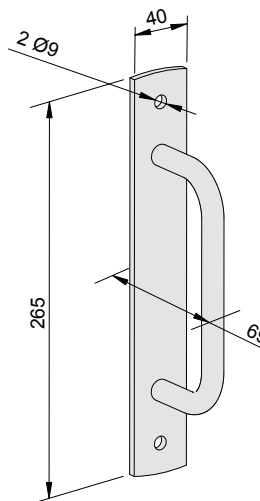
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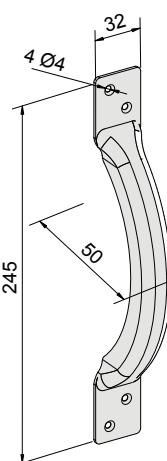
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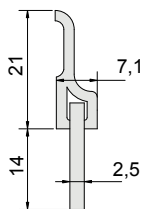
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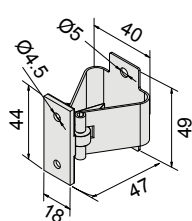
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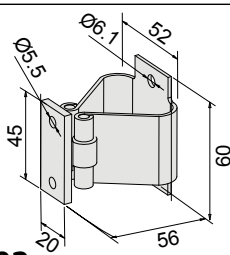
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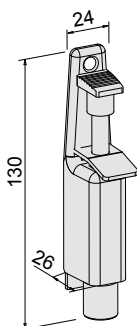
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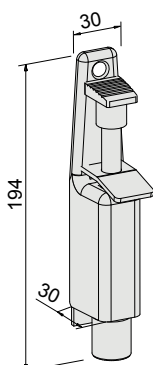
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1297

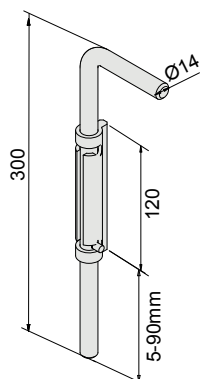
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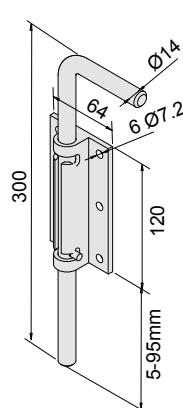
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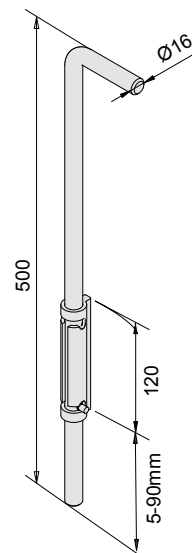
1309 N



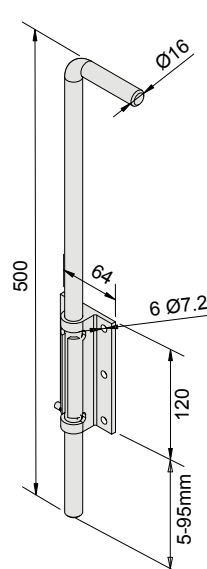
1314 SO



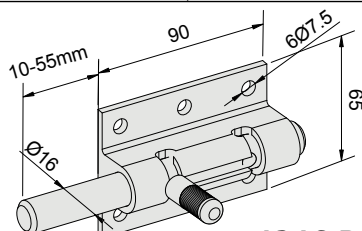
1314



1316 SO



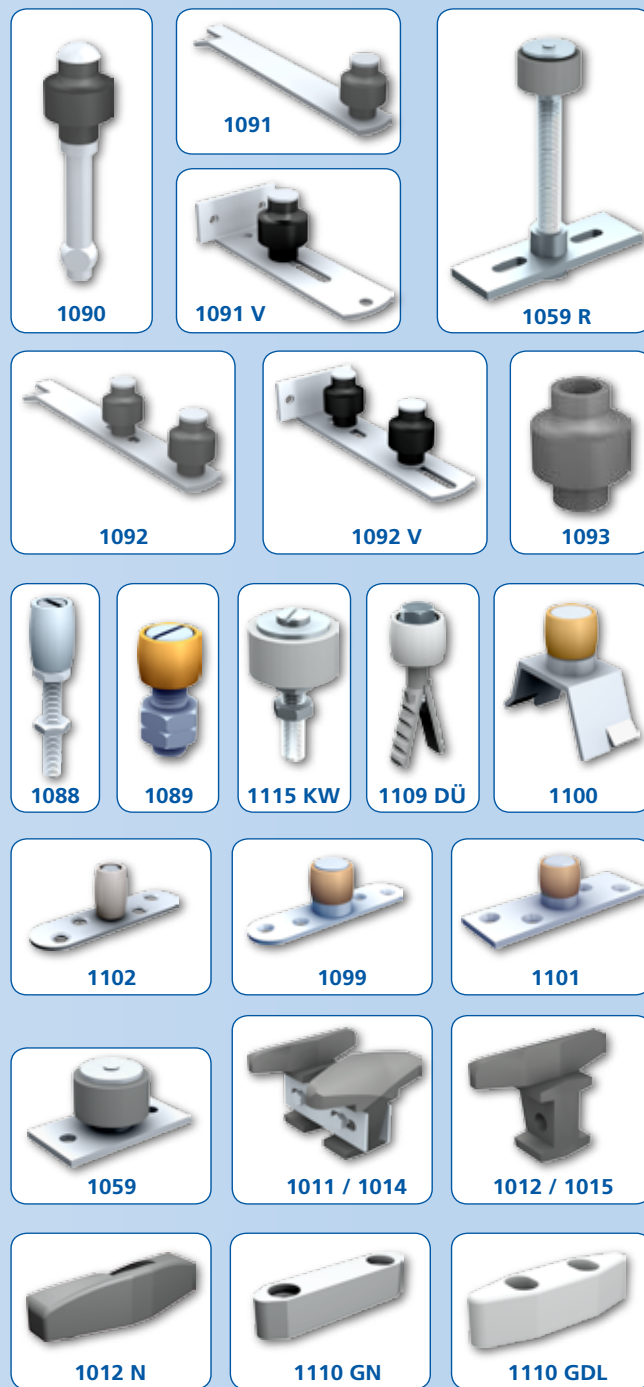
1316



1316 B

BOTTOM GUIDES

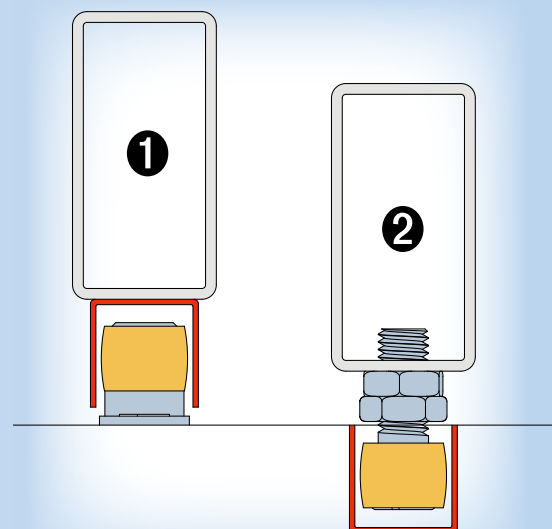
Item Nr	Description	
1090	Guide for vertical sealing with a zytel olive Ø 45 mm	10
1091	Guide for horizontal sealing with a zytel olive Ø 45 mm	4
1091 V	Adjustable guide with a zytel olive Ø 45 mm. Screwing type	4
1092	Guide for horizontal sealing with 2 zytel olives Ø 45 mm	6
1092 V	Adjustable guide with 2 zytel olives Ø 45 mm. Screwing type	6
1093	Zytel olive Ø 45 mm, height : 45 mm, for a 16 mm Ø axle	10
1059 R	Adjustable guide, idem 1059 mounted on a threaded rod	
1088	Bottom guide with a nylon olive (mounted on roller cages), without plate. For U-profile 25 x 17 mm	10
1089	Bottom guide with a brass olive (mounted on roller cages), without plate. For U-profile 30 x 30 mm	10
1115 KW	Bottom guide with a nylon olive, without plate. For U-profile 25 x 17 mm	
1109 DU	Guide with dowel with a nylon olive for U-profile 25 x 17 mm	
1110 DU	Ditto for U-profile 30 x 30 mm	
1115 DU	Ditto for U-profile 50 x 60 mm	
1100	Bottom guide with a brass olive, with sealing type plate. For U-profile 30 x 30 mm	
1102	Bottom guide with a nylon olive on a round ended plate. Screwing type for U-profile 25 x 17 mm	20
1099	Ditto with brass olive for U-profile 30 x 30 mm	10
1101	Bottom guide with a brass olive, on a reinforced plate. Sealing type - For U-profile 30 x 30 mm	10
1059	Bottom guide with a nylon olive (monted on roller cages), on a reinforced plate, screwing type. For U-profile 50 x 60 mm	5
1011	Adjustable shoe-guide in cast iron (21 to 50 mm) for standard doors	10
1014	Adjustable shoe-guide in cast iron (32 to 70 mm) for heavy doors	4
1012	Half shoe-guide in cast iron for standard doors	4
1015	Half shoe-guide in cast iron for heavy doors	
1012 N	Half shoe-guide in nylon for garage doors	20
1110 GN	Guide in nylon, screwing type for U-profile 30 x 30 mm. L = 120 mm	8
1110 GDL	Guide in delrin, screwing type for U-profile 30 x 30 mm. L = 99 mm	



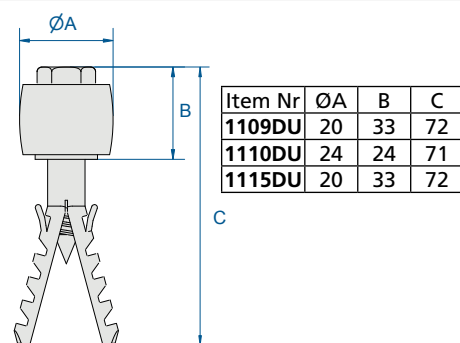
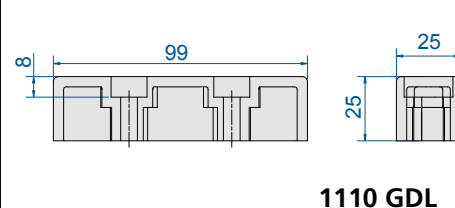
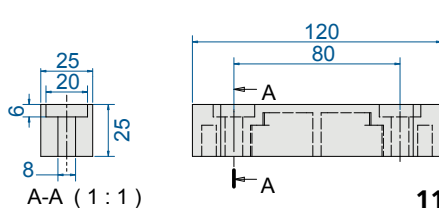
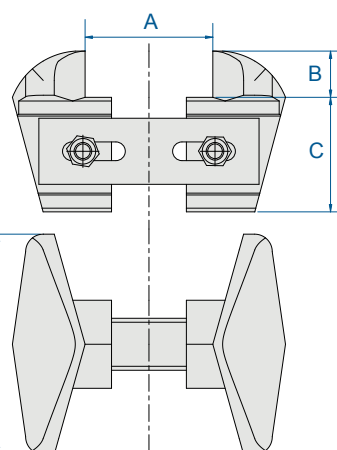
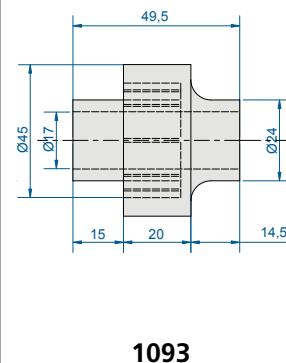
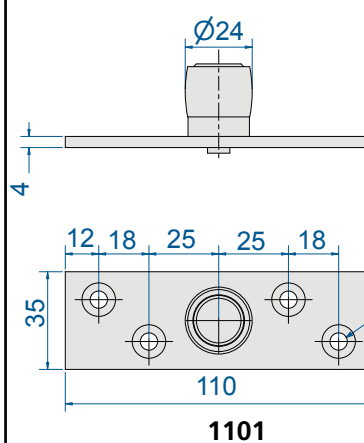
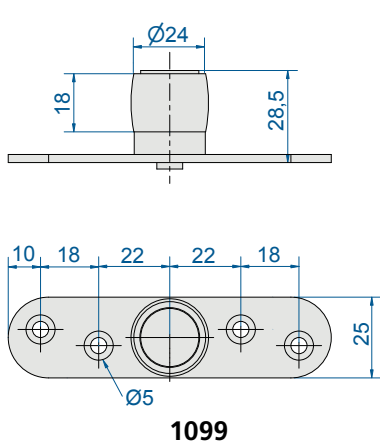
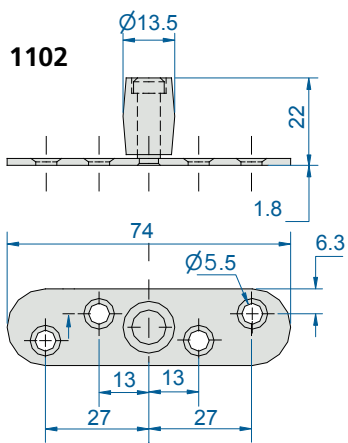
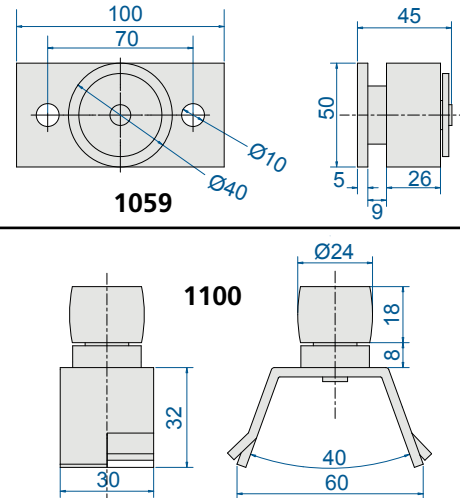
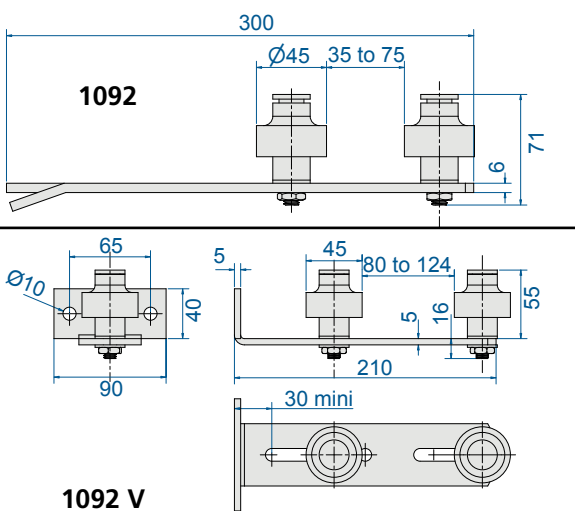
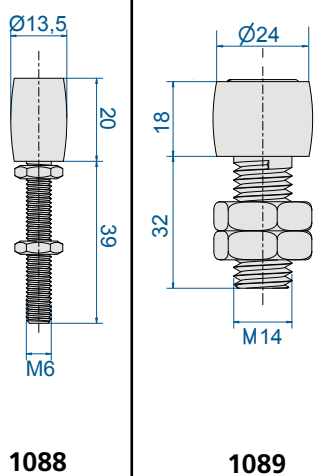
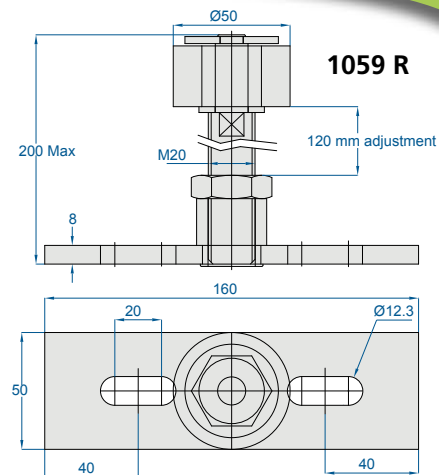
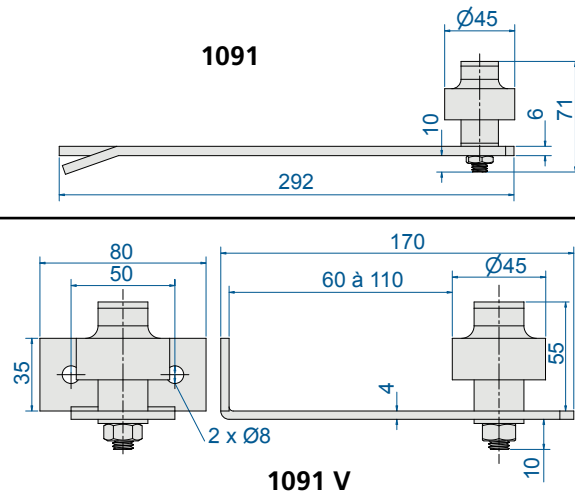
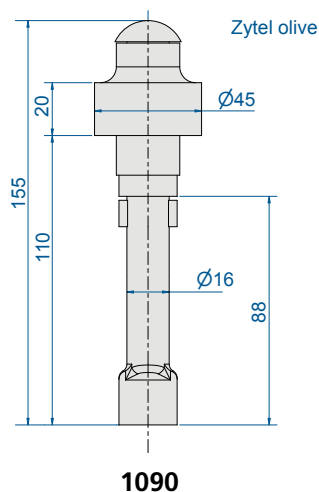
HOW TO CHOOSE THE RIGHT GUIDE TO YOUR U-PROFILE ?

CHOICE OF THE GUIDE ACCORDING TO THE DOOR WEIGHT

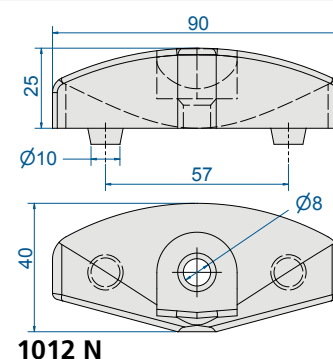
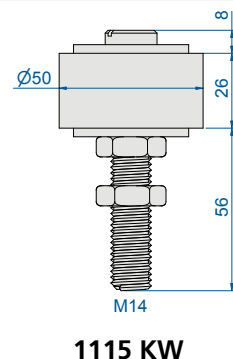
Door weight	U-profile	Recommended guides	
		① □	② L
from 0 to 90 Kg	1109	1102 - 1109 DU	1088
from 90 to 180 Kg	1110	1099 - 1110 GN - 1110 DU	1089
from 180 to 400 Kg	1110	1101 - 1110 GN - 1110 DU	1089
from 400 to 900 Kg	1115	1059 - 1115 DU	1115 KW
from 900 to 2000 Kg	1115	1059	1115 KW
from 2000 to 3000 Kg	1115	1059	1115 KW

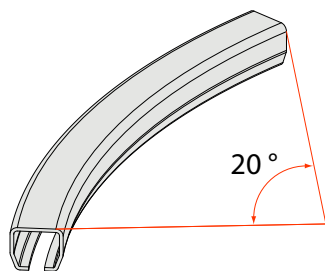


All U-profiles are available in 4 m, 5 m and 6 m length (see on p. 52)



Item Nr	ØA	B	C
1109DU	20	33	72
1110DU	24	24	71
1115DU	20	33	72

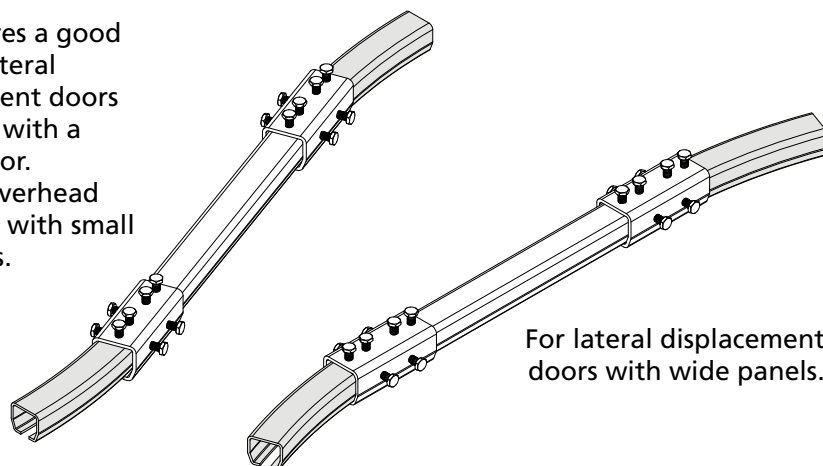




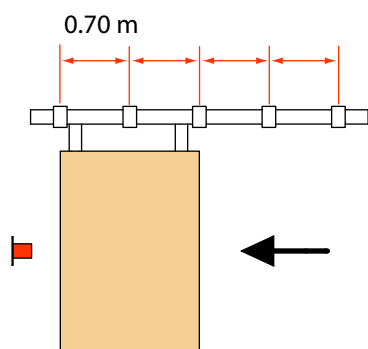
Curve sector		Radius
Track	Item Nr	
9010	9010 CS	500
9030	9030 CS	600
9040	9040 CS	600
9050	9050 CS	600
9060	9060 CS	800

ASSEMBLY POSSIBILITIES OF THE CURVE SECTORS :

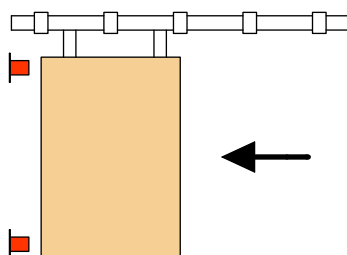
This ensures a good seal for lateral displacement doors equipped with a service door.
Also for overhead conveyors with small deviations.



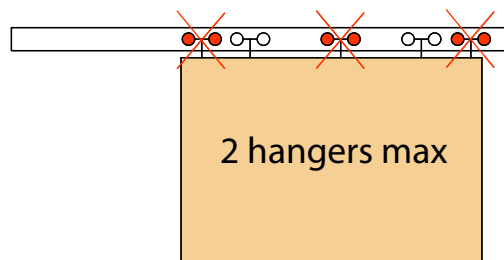
For lateral displacement doors with wide panels.



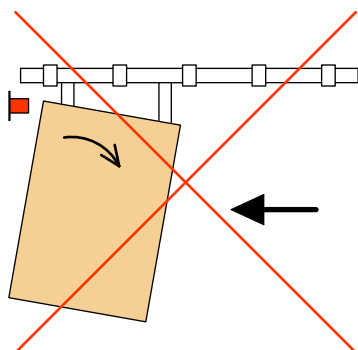
1 stop in the middle part



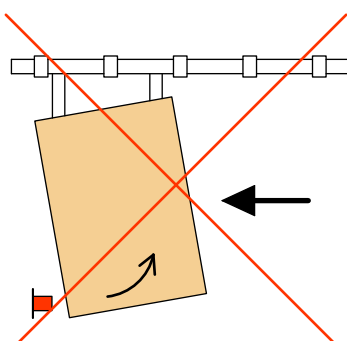
1 stop in the upper part
1 stop in the lower part



2 hangers max



1 stop in the upper part



1 stop in the lower part

BRACKETS :

To be placed approx. each 0.70 m

STOPS :

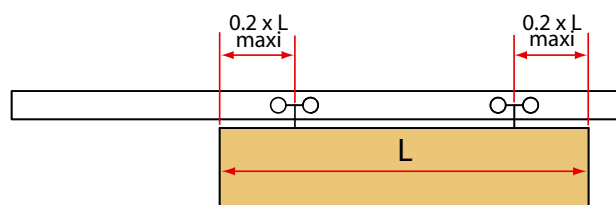
1 point : to be placed at mid-height of the door
2 points : 1 stop at the upper part and 1 at the lower part.
Other stop fixing positions are not recommended.

INSTALLATION AND MAINTENANCE

Before the use of the doors, it is recommended to clean the inside of the tracks correctly and to grease them 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.

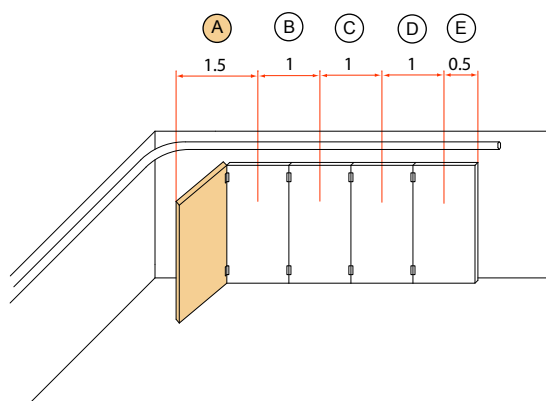
POSITION OF THE HANGERS :

In order to improve the stability of the straight sliding doors, the bigger the ratio height/width is, the closer to the door you should fix the hangers.



HOW TO CHOOSE THE TRACK :

For any types of doors for which we do not offer aluminium tracks, we strongly recommend the use of galvanised profiles. Their dimensions depend on the hangers, selected according to the panels weight.



Special case : lateral displacement doors.

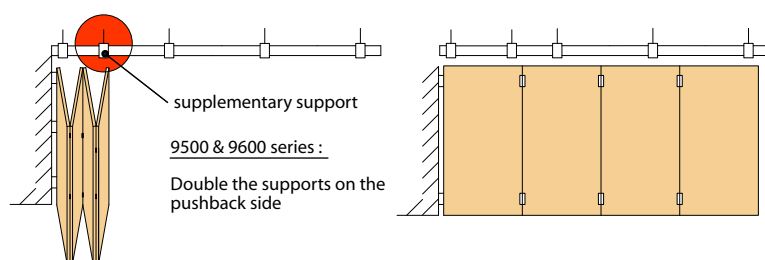
Each hanger (B) (C) and (D) supports one panel. The end-hanger (E) supports the weight of a half-panel. Hanger (A) supports the service door and half of the next panel, i.e. 1.5 time the weight of 1 panel.

This means that for any lateral displacement door equipped with a service door, the capacity of each hanger will equal at least 1.5 times the weight of a panel.

Thanks to this logo , you will recognize MANTION tracks, this is a garanty of quality

FIXING OF THE TRACK :

Before fixing the track, make sure that its dimensions are exactly the ones mentioned on page 8, especially the gap between the lower lips. If this dimension is not correct, adjust the track by narrowing or widening the gap.

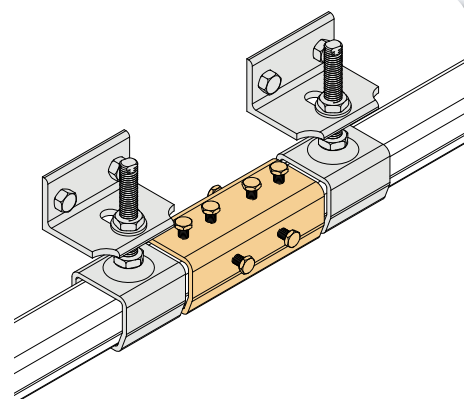


Special case : 9500 and 9600 series

On the pushback side, the load is such that it is necessary to insert a supplementary support between the first two.

JOINTING OF 2 TRACKS :

The jointing of 2 tracks can weaken an installation : it is essential to use a jointing bracket , reinforced on both sides by one support. This will ensure a perfect jointing of the tracks and reinforce the installation. Galvanised tracks must never be welded ; welding plain tracks is also strongly advised against. It always leads to internal tensions, strains and a shifting of the tracks which might also mean early wear of the hangers.



10013	Angle plate	48
10033	Angle plate	48
10043	Angle plate	48
10043 M	Jointing bracket	48
10044	Bracket	48
10044 M	Jointing bracket	48
10053	Angle plate	48
10053 M	Jointing bracket	48
10054	Bracket	48
10054 M	Jointing bracket	48
10063	Angle plate	48
10063 M	Jointing bracket	48
10064	Bracket	48
10064 M	Jointing bracket	48
10108/500	Track	48
1011	Shoe guide	58
1012	Half shoe guide	58
1012 N	Half shoe guide	50 58
1014	Shoe guide	58
1015	Half shoe guide	58
10213	Stop	32
1025 EL	Wheel	32
10312/500	Track	48
10400/600	Track	48
10500/600	Track	48
1059	Bottom guide	44 58
10600/600	Track	48
10610	Ornamental cap	48
1085	Stop	56
1086	Stop	56
1088	Bottom guide	44 58
1089	Bottom guide	44 50 58
1090	Guide	58
1091	Guide	58
1091 V	Guide	58
1092	Guide	58
1092 V	Guide	58
1093	Olive	58
1094	Stop	56
1095	Stop	56
1096	Stop	56
1099	Bottom guide	44 50 58
1100	Bottom guide	58
1101	Bottom guide	44 58
1101 DG	Guide	32
1101 EDG	Guide	32
1101 PDG	Guide	32
1102	Bottom guide	44 58
1104	Bottom guide	26 36
1104 EL	Bottom guide	26 36
1104 SO	Bottom guide	28 38
1104 SOE	Bottom guide	28 38
1105	Bottom guide	26 36
1105 EL	Bottom guide	26 36
1105 SO	Bottom guide	28 38
1105 SOE	Bottom guide	28 38
1106	Bottom guide	26 36
1106 EL	Bottom guide	26 36
1106 SO	Bottom guide	28 38
1106 SOE	Bottom guide	28 38
1108	Bottom guide	26
1108 EL	Bottom guide	26
1108 SO	Bottom guide	28
1108 SOE	Bottom guide	28

1109	U-profile	52
1109 C	Curve	26 28 30 52
1109 EFW	Guide	30 40
1109 GFW	Guide	30 40
1109 HFWL	Guide	40
1109 HFWR	Guide	40
1109 M	Jointing bracket	26 28 30 36 38 40 44
1110	U-profile	52
1110 C	Curve	32
1110 EFW1	Guide	30 40
1110 EFW2	Guide	30 40
1110 EFW3	Guide	30
1110 GDL	Guide	58
1110 GFW1	Guide	30 40
1110 GFW2	Guide	30 40
1110 GFW3	Guide	30
1110 GN	Guide	22 58
1110 HFW1R	Guide	40
1110 HFW2L	Guide	40
1110 HFW2R	Guide	40
1110 M	Jointing bracket	26 28 30 32 36 38 40 44 50
1110 MD	Jointing bracket	50
1110 XA2/6	U-profile	22
1110 XA4/6	U-profile	22
1111 C	Curve	26 28 30 52
1112 C	Curve	26 28 52
1113 C	Curve	52
1114	Bottom guide	36
1114 EL	Bottom guide	36
1114 SO	Bottom guide	38
1114 SOE	Bottom guide	38
1115 EFW	Guide	40
1115 GFW	Guide	40
1115 HFWL	Guide	40
1115 HFWR	Guide	40
1115 M	Jointing bracket	36 38 40 44
1115	U-profile	52
1118 H	Plate	32
1150/105	Dust-proof brush	56
1151/250	Dust-proof brush	56
1151A/300	Dust-proof brush	56
1152/1100	Joint	50
1152/3300	Joint	50
1153	Stiffening joint	50
1154/300	Joint	50
1155/200	Stiffening joint	50
1290	Handle	56
1290 X	Handle	22 56
1291	Handle	50
1292	Handle	32
1293	Handle	56
1296	Handle	56
1297	Handle	56
1298	Handle	56
1301 TN	Stop	56
1302	Stop	56
1308 N	Stop	56
1309 N	Stop	56
1314	Cane bolt	56
1314 GE	Keeper of lock	56
1314 GP	Keeper of lock	56
1314 SO	Cane bolt	56
1316	Cane bolt	56
1316 B	Cane bolt	56

1316 GE	Keeper of lock	56
1316 GP	Keeper of lock	56
1316 SO	Cane bolt	56
1500 G	Control arm	32
1506 P	Hinge	32
1510 C	Hinge	26 30 36 44
1510 EDLG	Plate	32
1510 HDLG	Plate	32
1510 PDLG	Plate	32
1510 SO	Hinge	28 38 44
1512 C	Hinge	26 30 36 44
1512 SO	Hinge	28 38 44
1514 C	Hinge	26 30 36 44
1514 SO	Hinge	28 38 44
1516 C	Hinge	26 36 44
1516 SO	Hinge	28 38 44
20123/250	Exterior 1/2 threshold	32
20124/250	Interior 1/2 threshold	32
20126 C	Threshold curve	32
2091	Stop	56
2093	Stop	50
2094	Stop	50 56
2095	Stop	56
2692	Stop	56
31	Adjustable apron set	44 48
3532	Plate	55
3533	Angle plate	32
3535	Plate	55
3536	Plate	55
3537	Bracket	55
3539	Angle steel	26 28 30
36	Plate	10 44 48
36 W	Plate	10
36 XA2	Plate	22
36 XA4	Plate	22
37	Plate	10 44
4023	Stop	56
4090	Pulley	56
4145 F	Pulley	56
5049	Angle plate	26 28 30
51	Adjustable apron set	12 44 47 48
55	Plate	12 47 48
56	Plate	12 44 47 48
56 W	Plate	12
56 XA2	Plate	22
56 XA4	Plate	22
61	Adjustable apron set	14 44 48
6257	Plate	55
6260	Plate	55
6261	Plate	55
6262	Bracket	55
65	Plate	14 48
66	Plate	14 44 48
66 XA2	Plate	22
66 XA4	Plate	22
7075/250	Joint-holder	32
7160/250	Joint	32
7160/500	Joint	32
7161/250	Joint	32
7161/500	Joint	32
7200/250	Joining piece	32
7200/A50	Joining piece	32
7200/A61	Joining piece Joining piece	32
7200/AB1	Joining piece	32

7200/B50	Joining piece	32
75 S	Plate	20
81	Adjustable apron set	16 44 47 48
8145 F	Pulley	56
85	Plate	16 44 47 48
85 S	Plate	16 18 47
8572	Plate	55
8573 S	Plate	55
8575	Plate	55
8576	Plate	55
8576 S	Plate	55
8577	Bracket	55
8579	Angle steel	26 28 30
86	Plate	14 16 44 47 48
86 S	Plate	16 18 47
86 SW	Plate	16 18
86 W	Plate	14
9010	Track	52
9010 C	Curve	26 28 30 32 52
9010 X	Track	52
9010/250	Track	32
9010/600	Galvanised track	10 52
9010N/600	Plain track	10 52
9011	Bracket	32
9011 L	Bracket	54
9011 M	Jointing bracket	54
9011 MXA2	Jointing bracket	22
9011 MXA4	Jointing bracket	22
9011 XA2	Bracket	22
9011 XA4	Bracket	22
9012 N	Bracket	54
9013	Plate	55
9013 XA2	Angle plate	22
9013 XA4	Angle plate	22
9014	Angle plate	32
9018	Bracket	54
9018 H	Bracket	54
9018 HXA2	Bracket	22
9018 HXA4	Bracket	22
9018 V	Bracket	54
9018 VXA2	Bracket	22
9018 VXA4	Bracket	22
9018 XA2	Bracket	22
9018 XA4	Bracket	22
9030	Track	47 54 55
9030 C	Curve	26 28 30 52
9030 X	Track	52
9030N/600	Plain track	52
9031 L	Bracket	54
9031 M	Jointing bracket	54
9031 MXA2	Jointing bracket	22
9031 MXA4	Jointing bracket	22
9031 XA2	Bracket	22
9031 XA4	Bracket	22
9032	Bracket	54
9032 N	Bracket	54
9033	Plate	55
9033 XA2	Angle plate	22
9033 XA4	Angle plate	22
9038	Bracket	54
9038 H	Bracket	54
9038 H2	Bracket	54
9038 HXA2	Bracket	22
9038 HXA4	Bracket	22

9038 V	Bracket	54
9038 V2	Bracket	54
9038 VXA2	Bracket	22
9038 VXA4	Bracket	22
9038 XA2	Bracket	22
9038 XA4	Bracket	22
9040	Track	47 54 55
9040 C	Curve	26 28 30 52
9040 X	Track	52
9040N/600	Plain track	14
9041 L	Bracket	50 54
9041 MDL	Jointing bracket	50
9041 MXA2	Jointing bracket	22
9041 MXA4	Jointing bracket	22
9041 XA2	Bracket	22
9041 XA4	Bracket	22
9041M	Jointing bracket	54
9042	Bracket	54
9042 N	Bracket	54
9043	Angle plate	50 55
9043 XA2	Angle plate	22
9043 XA4	Angle plate	22
9046 CF	Angle plate	50 55
9046 CFC	Angle plate	55
9046 CFL	Angle plate	55
9048	Bracket	54
9048 H	Bracket	54
9048 H2	Bracket	54
9048 HXA2	Bracket	22
9048 HXA4	Bracket	22
9048 V	Bracket	54
9048 V2	Bracket	54
9048 VXA2	Bracket	22
9048 VXA4	Bracket	22
9048 XA2	Bracket	22
9048 XA4	Bracket	22
9050	Track	16 52
9050 C	Curve	26 28 30 52
9050N/600	Plain track	16
9051 L	Bracket	50 54
9051 M	Jointing bracket	54
9051 MDL	Jointing bracket	50
9052	Bracket	54
9052 N	Bracket	54
9056 CF	Patte	55
9056 CFC	Patte	55
9058	Bracket	54
9058 H	Bracket	54
9058 H2	Bracket	54
9058 V	Bracket	54
9058 V2	Bracket	54
9060	Track	18 52
9060 C	Curve	26 28 52
9060N/600	Plain track	18
9061 L	Bracket	54
9061 M	Jointing bracket	54
9062	Bracket	54
9062 N	Bracket	54
9066	Angle plate	55
9066 L	Angle plate	55
9068	Bracket	54
9068 H	Bracket	54
9068 V	Bracket	54

9070	Track	20 52
9070 ZBC	Curve	52
9070N	Track	20 52
9071 L	Bracket	54
9071 M	Jointing bracket	54
9072	Bracket	54
9072 N	Bracket	54
9076	Plate	55
9078	Bracket	54
9078 H	Bracket	54
9078 V	Bracket	54
9118	Stop	48
9118 XA2	Stop	22
9118 XA4	Stop	22
9138	Stop	48
9139	Stop	48
9139 XA2	Stop	22
9139 XA4	Stop	22
9148	Stop	48
9149	Stop	48
9149 XA2	Stop	22
9149 XA4	Stop	22
9158	Stop	48
9169	Stop	48
9211	Hanger	10
9211 W	Hanger	10
9212	Hanger	10
9212 N	Hanger	48
9214	Hanger	10
9215	Hanger	10
9215 N	Hanger	48
9216	Hanger	10
9231	Hanger	12
9231 L	Hanger	12
9231 W	Hanger	12
9232	Hanger	12
9232 L	Hanger	12
9232 N	Hanger	48
9232 XSA2	Hanger	22
9232 XSA4	Hanger	22
9234	Hanger	12
9235	Hanger	12
9235 L	Hanger	12
9235 N	Hanger	48
9236	Hanger	12
9241	Hanger	14
9241 L	Hanger	14
9241 S	Hanger	50
9241 SAS/1	Complete set	50
9241 SAS/2	Complete set	50
9241 W	Hanger	14
9242	Hanger	14
9242 L	Hanger	14
9242 N	Hanger	48
9242 S	Hanger	14
9242 SE	Hanger	14
9242 SEL	Hanger	14
9242 SL	Hanger	14
9242 XSA2	Hanger	22
9242 XSA4	Hanger	22
9244	Hanger	14
9245	Hanger	14
9245 N	Hanger	48

9245 S	Hanger	14
9245 SL	Hanger	14
9246	Hanger	14
9251	Hanger	16
9251 L	Hanger	16
9251 S	Hanger	50
9251 SAS 1	Complete set	50
9251 W	Hanger	16
9252	Hanger	16
9252 L	Hanger	16
9252 N	Hanger	48
9252 S	Hanger	16
9252 SE	Hanger	16
9252 SEL	Hanger	16
9252 SL	Hanger	16
9254 S	Hanger	16
9255	Hanger	16
9255 L	Hanger	16
9255 N	Hanger	48
9255 S	Hanger	16
9255 SL	Hanger	16
9256 S	Hanger	16
9258 S	Hanger	16
9258 SL	Hanger	16
9262 N	Hanger	48
9262 S	Hanger	18
9262 SE	Hanger	18
9262 SEL	Hanger	18
9262 SL	Hanger	18
9264 S	Hanger	18
9265 N	Hanger	48
9265 S	Hanger	18
9265 SL	Hanger	18
9268 S	Hanger	18
9268 SL	Hanger	18
9272 S	Hanger	20
9278 S	Hanger	20
9312	Hanger	26
9312 E	Hanger	26
9312 SO	Hanger	28
9312 SOE	Hanger	28
9318 N	Hanger	32
9332 E	Hanger	26
9332 SO	Hanger	28
9332 SOE	Hanger	28
9342	Hanger	26
9342 E	Hanger	26
9342 SO	Hanger	28
9342 SOE	Hanger	28
9352	Hanger	26
9352 E	Hanger	26
9352 SO	Hanger	28
9352 SOE	Hanger	28
9362	Hanger	26
9362 E	Hanger	26
9362 SO	Hanger	28
9362 SOE	Hanger	28
9512	Hanger	36
9512 E	Hanger	36
9512 SO	Hanger	38
9512 SOE	Hanger	38
9532	Hanger	36
9532 E	Hanger	36

9532 SO	Hanger	38
9532 SOE	Hanger	38
9542	Hanger	36
9542 E	Hanger	36
9542 SO	Hanger	38
9542 SOE	Hanger	38
9552	Hanger	36
9552 E	Hanger	36
9552 SO	Hanger	38
9552 SOE	Hanger	38
9562	Hanger	36
9562 E	Hanger	36
9562 SO	Hanger	38
9562 SOE	Hanger	38
96 W	Plate	18
9611	Hanger	30 40 44
9613	Hanger	40 44
9614 EW	Angle plate	30 40
9614 GW	Angle plate	30 40
9614 HWL	Angle plate	40
9614 HWR	Angle plate	40
9631	Hanger	30 40 44
9633	Hanger	30 40 44
9634 EW	Angle plate	30 40
9634 GW	Angle plate	30 40
9634 HWL	Angle plate	40
9634 HWR	Angle plate	40
9641	Hanger	44
9641/16	Hanger	30 40
9643	Hanger	44
9643/16	Hanger	30 40
9644 EW	Angle plate	30 40
9644 GW	Angle plate	30 40
9644 HWL	Angle plate	40
9644 HWR	Angle plate	40
9651	Hanger	44
9651/20	Hanger	30 40
9653	Hanger	44
9653/20	Hanger	30 40
9654 EW	Angle plate	30 40
9654 GW	Angle plate	30 40
9654 HWL	Angle plate	40
9654 HWR	Angle plate	40
9661	Hanger	44
9663	Hanger	44
9831 RT	Trolley	47
9832 RT	Trolley	47
9841 RT	Trolley	47
9842 RT	Trolley	47
9851 SRT	Trolley	47
9852 SRT	Trolley	47
9861 SRT	Trolley	47
9862 SRT	Trolley	47
99212	Hanger	10
99212 XA2	Hanger	22
99212 XA4	Hanger	22
99215	Hanger	10
99232 XA2	Hanger	22
99232 XA4	Hanger	22

The GARAGE DOOR range :

- LATERAL DISPLACEMENT DOORS
- SECTIONAL DOORS

The GATES series :

- **CANTILEVER GATES** : hangers, tracks and accessories for steel and aluminium gates
- **BOTTOM SLIDING GATES** : hangers, wheels (in cast iron, steel and stainless steel) and profiles.
- **GATES MOUNTED ON PIVOTS** : hinges and pivots.
- **ACCESSORIES**



The range for LIGHT DOORS :

- **MINITUB** : systems for small height cupboards
- **PICO** : systems for wardrobe and cupboards
- **PICO STAR** : an elegant design for your wardrobes and cupboards
- **MEDIUM** : light sliding system for cupboards, curtains and lorry tarpaulins
- **TUBEL** : simple or double sliding system for cupboards.
- **CADETTE - SUPERCADETTE** : sliding system (for interior and exterior use).
- **OLYMPIC** : sliding system with strong slide
- **BK 45 - BK 80** : aluminium sliding system for cupboards
- **SAF 4 - SAF 8 - SAF 12** : top range aluminium sliding system
- **5300** : a sliding system for folding cupboards doors
- **SHUTTER STAYS 1300** : a very convenient shutter accessory



The GLASS DOOR range :

- **SAFGLASS PENTURE 80 & 120** : straight sliding system for glass doors
- **SAFGLASS PINCE 80** : straight sliding system for glass doors
- **SAFGLASS DESIGN 80 & 120** : a design system for glass doors



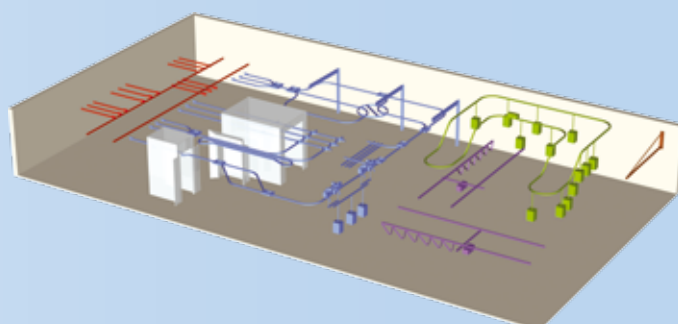
The SPORTUB® series :

- **200 and 2200** : fittings for STRAIGHT sliding doors up to 2000 Kg on tubular tracks 35x30 to 85x70 mm.
- **300** : fittings for LATERAL displacement doors on tubular tracks 35x30 to 85x70 mm.
- **500** : fittings for FOLDING doors with panels of same sizes .
- **600** : fittings for FOLDING doors with a half panel
- **4000** : fittings for UP AND OVER doors.
- **7000** : fittings for SECTIONAL doors
- **SPORT series** : fittings for STRAIGHT sliding doors on a flat track
- **BOB series** : fittings for LATERAL sliding doors on a flat track
- **TUBULAR TRACKS and FIXING ACCESSORIES**



The HANDLING HERCULE® range :

- TROLLEYS and LIFTING BEAMS.
- CURVES, SWITCHES, LIFTING UNITS and CONVEYORS.
- GIRDERS, CABLE-CARRIERS and JIBS.



The HANDLING SPORTUB® range :

- TUBULAR MONORAILS - SWITCHES.
- CABLE CARRIERS

1. Scope :

Unless otherwise agreed in writing and signed by our company, the present terms of sale, the original version of which was drawn up in French and alone is authentic, overriding any other foreign language version, apply to any sale contract or service agreement concluded with our company and relating to the company's products, parts or specific equipment. Any order addressed to us implies a general acceptance of the tariffs and present terms of sale, which shall take precedence over any terms of purchase or any other document issued by the customer. The present terms of sale supersede the previous terms and any documents exchanged between the parties before any final agreement is concluded. Any terms of purchase specifically accepted by our company shall only apply in a supplementary capacity should a particular provision not be stipulated in the present terms.

2. Applicable Law - Jurisdiction :

The present terms are governed by French Law. Any dispute in this respect or arising from the business relations established between our company and the customer shall fall within the exclusive jurisdiction of the Besançon Commercial Court, even in the event of the introduction of third parties or multiple defendants. Our company may, however, refer to any court of competent jurisdiction in the customer's country, if the customer is domiciled overseas.

3. Offer - Order :

We reserve the right to make any changes deemed to be useful, without notice, to our models, tariffs, catalogues, inasmuch as these documents do not constitute an offer. Our offers are valid for one month. Any order or amended order must be addressed in writing, fax or email and is only considered to be accepted after we have issued written confirmation. Acceptance of the order is subject to stock availability of the products and raw materials. Any customer that cancels all or part of the order or postpones the delivery date, without our being held responsible, shall be bound to compensate us for all costs incurred as of the date on which the letter of cancellation is received from the customer, without prejudice to any damages. Any order comprising a list of requirements or technical specifications shall only be valid after all the documents have been approved by our company.

4. Materials :

In the case of raw materials and/or components supplied by the customer, the customer shall deliver them or have them delivered at the customer's own expense and risk. The customer shall guarantee the quality of the raw materials or components supplied and ensure that they comply with the contractual specifications, laws, regulations and uses of the relevant profession in force.

5. Delivery - Transport :

Delivery consists of making the products available at our site, prior to loading, for either the customer or the transport company designated by the customer, or failing that, designated by us. For orders with a minimum value stipulated in our pricing conditions in force as of the day on which the order is placed, the customer may request that the products be transported by our site lorry, whereby the dispatch dates are fixed in the delivery schedule. We are authorised to make total or partial deliveries, depending on product availability, with each partial delivery giving rise to a separate invoice. The design and delivery times and the delivery schedule are given for information purposes only. Any delays may on no account justify the cancellation, modification or postponement of the order or other orders that have already been confirmed, nor lead to any penalties and damages, irrespective of whether such delays can be attributed to our company or the transport company. Any modification to the order during contract execution may lead to extended delivery times. If the products are not collected or refused on the agreed delivery date, we reserve the right to invoice the customer for the storage costs, where the customer alone is responsible for the storage risks beyond this date.

6. Transfer of Risks :

As from the delivery, the customer shall be responsible for the risks of product loss or deterioration and any damages as a result thereof. The customer shall consequently bear the transit risks for the products as from their delivery, even if a transport company is appointed, our site lorry is used and/or the transport costs are paid by our company. Any instructions given by our company to the transport company shall be considered as coming from the addressee.

7. Claims :

7.1 Nonconformity : the condition, conformity, absence of any patent defects and quantities must be checked by the customer upon delivery in the presence of the transport company or our agent; the customer shall be liable for the costs and risks associated with the check. Any claim must be recorded on the delivery note or the transport company's receipt, and must be sent to our company for confirmation by registered letter with an acknowledgement of receipt within one week of delivery. Otherwise, it will be considered that the products have been clearly accepted and our responsibility may not be brought into question. It is the addressee's responsibility to express any reservations to the transport company and make a claim against the said transport company in accordance with legal conditions and time limits.

7.2 Latent Defects : the customer must notify of any latent defects by a simple letter, fax or email within 30 days following the date on which the latent defect was discovered or reported to have been discovered. No action shall be taken on any notifications where more than one year has elapsed since the products were installed, unless otherwise specifically stipulated in the catalogues and notices. The action to enforce the guarantee covering the products' latent defects must be taken by the customer within three months following the date on which the latent defect was discovered or reportedly discovered, whereby this deadline constitutes the brief time limit stipulated in Article 1648 of the French Code of Civil Law.

7.3 Evidence of Nonconformities or Latent Defects - Product Returns : the customer must provide all evidence confirming the defects or faults noted; all checks and verifications performed directly by the customer shall remain at the customer's expense. We reserve the right to carry out any assessments, verifications and checks, either directly or via any intermediary of our choice, on our site, at the customer's premises or at a third party's premises. Any product returns must have first been accepted by us in writing, and may only take place if accompanied by the reference numbers on the relevant delivery note and invoice. The customer shall still be responsible for the costs and risks involved in returning the products.

7.4 Guarantee Limitations : our company's responsibility may not be involved if the products have been modified by services other than our own, repaired according to techniques other than those stipulated by our different documents in force or not used in accordance with their destination, our documents and range of applications defined by us, or if the damage recorded results from an incompatibility between our products and components of a different origin, or if the products do not comply with mandatory standards that came into force after the products were delivered, or in the case of force majeure, or in the event of the products showing fair wear and tear or a degree of deterioration that can be attributed to the customer due to negligence, lack of checks and tests, and a lack of monitoring or maintenance. Our company's responsibility may not be brought into question on the basis of the responsibility of the faulty products as governed by Articles 1386-1 and onwards of the French Code of Civil Law for damages caused to the victim's goods which are not used by the victim mainly for his/her personal use or consumption.

7.5 Consequences :

If our company's responsibility is established, the noncompliant or defective products shall be replaced with identical or similar products, or a credit note shall be issued to the customer, excluding any other compensation in any form and for any reason whatsoever; the replaced products shall remain our property. If our company's responsibility is not at stake, the customer shall be invoiced for all transport costs incurred by our company, as well as a penalty equal to 20% of the amount of the invoice concerned, inclusive of tax, for handling, repackaging and case fees, and without prejudice to any other compensation.

8. Reservation of Title :

We shall keep ownership of the products until the full price (principal, interest, costs and accessories) has been settled. Payment is considered to be made when the funds have effectively been collected. The presentation of a draft or any other order to pay shall not constitute payment. In the event of a resale, the customer shall assign all claims to us arising from the resale of the product to third party buyers. The products in stock are presumed to be those that have not been paid for, and our company may therefore draw up the inventory of the said products at any moment. In the event of a failure to pay, the customer must return the unpaid product and bear the costs, risks and perils, after receiving a formal demand by registered letter with an acknowledgement of receipt. The customer may on no account pledge, pawn or authorise guarantees on the unpaid products.

9. Prices - Terms of Payment :

The prices are quoted ex-works (EXW Incoterms 2000), excluding tax, including packaging costs, exclusive of transport costs and insurance; the customer shall still be liable for taxes and duties. Invoices are payable, by any means of payment, to our company's head office, within 30 days of the end of the month in which the dispatch date occurs. Discount terms are stipulated in the pricing conditions in force as of the day on which the order is placed. The value date for dispatches made after the 25th of the month is the following month. Payment is considered to be the funds actually being made available for our company. Our tariffs are given for information purposes, whereas our invoices are made out according to the tariff in force as of the day on which the order is confirmed.

10. Late Payment :

In the event of an overdue payment, we reserve the right to suspend, at any moment, any delivery and/or dispatch relating to the sale in question and/or any current order. In the case of a late payment, a fortnight after a formal demand has been sent to the customer by registered letter with an acknowledgement of receipt and has gone unanswered: we reserve the right to (1) invoice the customer for a late payment penalty calculated by applying one and half times the legal interest rate in force to the amounts due, including legal fees and any bank charges, (2) take advantage of the immediate payability of all unmatured sums due, (3) cancel the sale concerned and/or any current order, ipso jure, while withholding any instalments made and retaining the products, without prejudice to any claim for damages, (4) make the execution of successive transactions subject to a cash settlement or the provision of guarantees in addition to any initially stipulated, even after a partial delivery.

11. Intellectual Property :

The sale of products shall on no account lead to the transfer of the intellectual or industrial rights concerning the said products. The customer shall immediately inform us of any legal action taken against the customer in terms of intellectual and industrial property concerning the products, and shall not take any measures without first receiving written consent from us, as our company alone is entitled to coordinate the procedure and decide on whatever action is required. The customer shall indemnify us against any action, claim or complaint filed by a third party on account of an infringement of intellectual or industrial property rights, resulting from the development of a product based on the specifications or technical documents submitted by the customer.

12. Confidentiality :

Any technical documents or any technical, business, financial or legal information concerning our company or relating to our products, whether specific or otherwise, and in any form whatsoever, of which the customer might have had knowledge, are confidential and shall remain our exclusive property. These documents and information may on no account be broadcast or transmitted by any means whatsoever to any third party without prior written consent.

13. Force Majeure :

If a case of force majeure occurs, particularly such as a shortage of raw materials, the defaulting party shall inform the other party in writing, as soon as such an event arises, that it will be unable to honour its commitments. Until the event in question has ceased, the contract shall be suspended for a duration not exceeding six months, after which the contract may be cancelled ipso jure by either of the parties by registered letter with an acknowledgement of receipt.



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