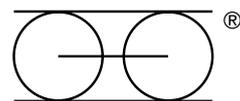
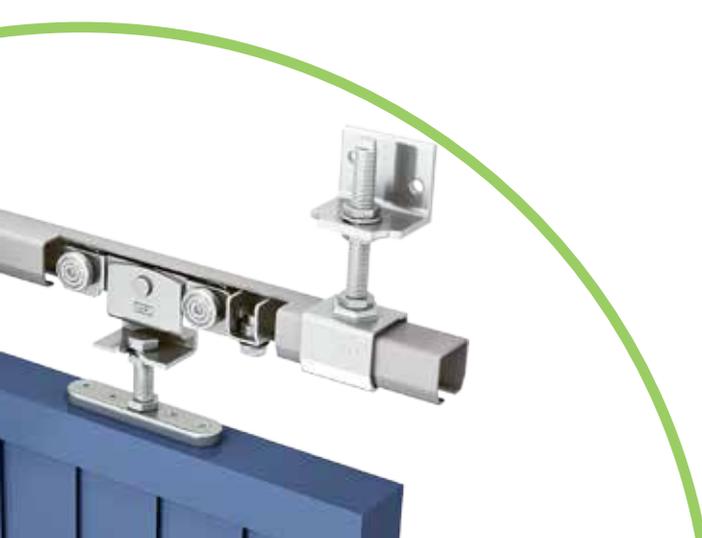




**MANTION**

[WWW.MANTION.COM](http://WWW.MANTION.COM)



**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:**

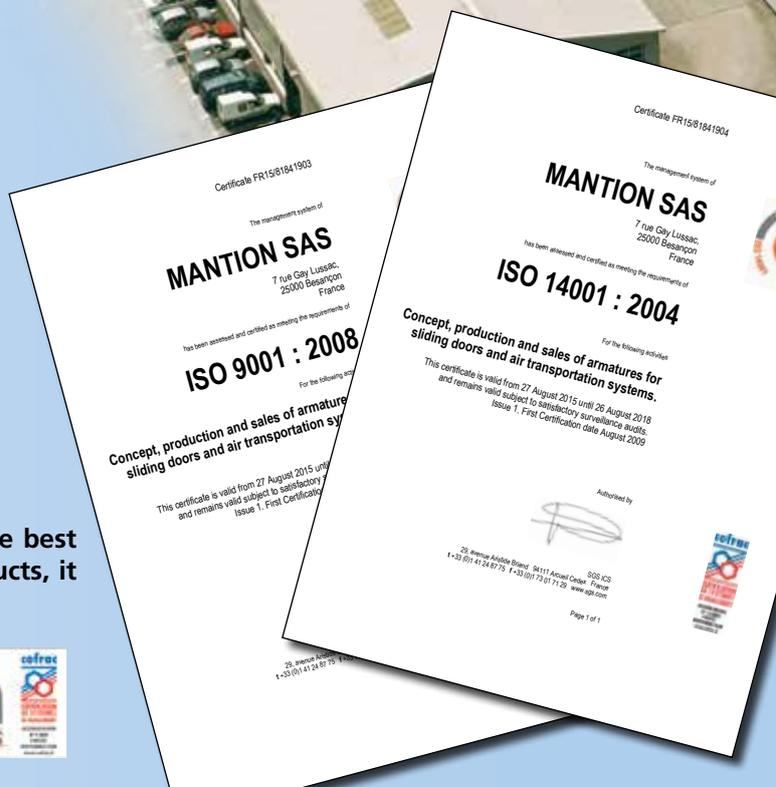
Salesmen who listen to your needs and advise you.  
A strong technical aid: an engineering department and technical advisers at your disposal.  
The study and the development of special products upon request.  
Very short delivery time.  
Very high quality products.

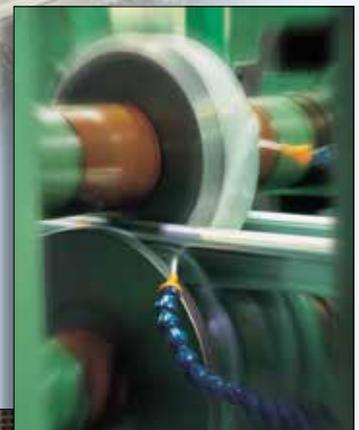
### **MANTION, THIS IS ALSO A COMPLETE RANGE:**

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:

**EN ISO 9001: 2008**  
**EN ISO 14001: 2004**





**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 wearing.

What does the European standard EN 1527 indicate?

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

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

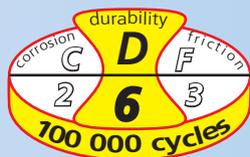
It determines the conditions in which the tests have to be made.

This allows an easy and real comparison between different competing products:

- Door under 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:



### CORROSION RESISTANCE [C]

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

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

### INITIAL FRICTION [F]



calculated without the use of damper closer or hydraulic closer stop

	grade 1	grade 2	grade 3
Door of 50 Kg	50 N*	40 N*	30 N*
Door from 51 to 100 Kg	80 N*	60 N*	40 N*
Door from 101 to 330 Kg	100 N*	5 %**	4 %**
Door over 330 Kg	5 %**	4 %**	3 %**

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

\*\*Percentage of the mass

### DURABILITY [D]

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

\*Number of cycles

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

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

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

## 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.



Certificate FR15/81841903

The management system of

### MANTION SAS

7 rue Gay Lussac,  
25000 Besançon  
France

has been assessed and certified as meeting the requirements of

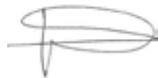
### ISO 9001 : 2008

For the following activities

**Concept, production and sales of armatures for sliding doors and air transportation systems.**

This certificate is valid from 27 August 2015 until 26 August 2018 and remains valid subject to satisfactory surveillance audits. Issue 1. First Certification date January 2006

Authorised by



SGS ICS  
29, avenue Aristide Briand 94111 Arcueil Cedex France  
t +33 (0)1 41 24 87 75 f +33 (0)1 73 01 71 29 www.sgs.com

Page 1 of 1



Certificate FR15/81841904

The management system of

### MANTION SAS

7 rue Gay Lussac,  
25000 Besançon  
France

has been assessed and certified as meeting the requirements of

### ISO 14001 : 2004

For the following activities

**Concept, production and sales of armatures for sliding doors and air transportation systems.**

This certificate is valid from 27 August 2015 until 26 August 2018 and remains valid subject to satisfactory surveillance audits. Issue 1. First Certification date August 2009

Authorised by



SGS ICS  
29, avenue Aristide Briand 94111 Arcueil Cedex France  
t +33 (0)1 41 24 87 75 f +33 (0)1 73 01 71 29 www.sgs.com

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## **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
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## **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**

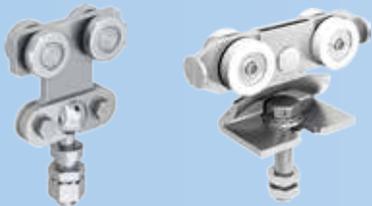


With screwing type hinges	36-37
With welding type hinges	38-39
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	<b>9600 Fittings</b> for <i>CONCERTINA FOLDING doors with a half panel</i>	<b>42</b>
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Tracks & profiles	52
Jointing and fixing brackets	54
Fixing plates	55
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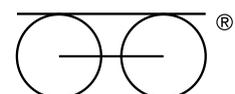
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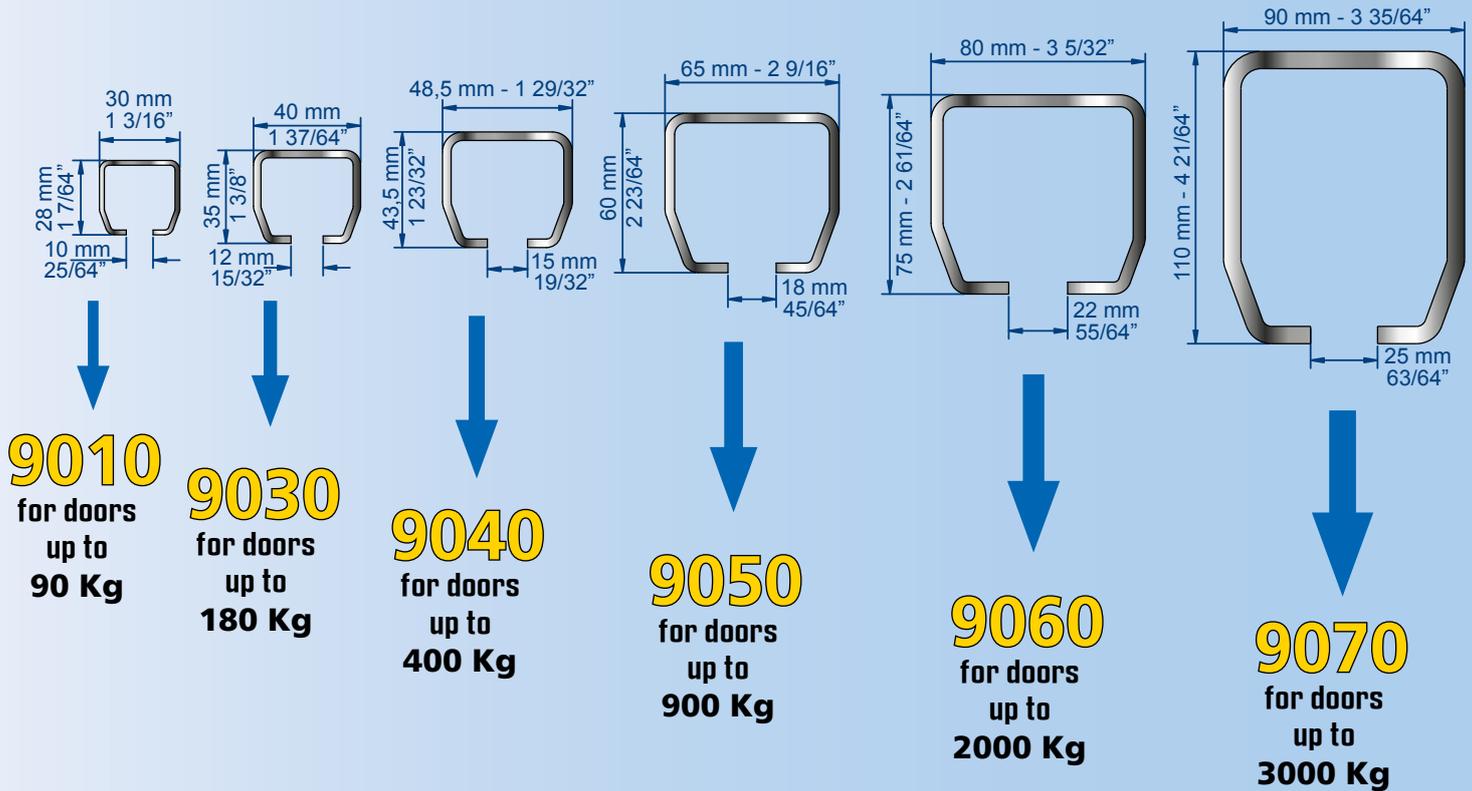
	<b>THE MANTION PRODUCT RANGES</b>	<b>66</b>
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	<b>GENERAL CONDITIONS OF SALES</b>	<b>67</b>
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*This document is not contractual. All specifications can be modified without prior notice.*

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.





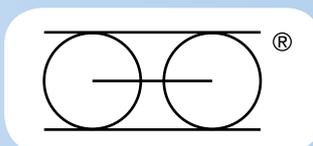
In order to guaranty high quality systems, Manton manufactures its own profiles:

- 3 bending and roll forming machines enable Manton to roll any metal thickness up to 6 mm at a short time notice
- This also enables 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:

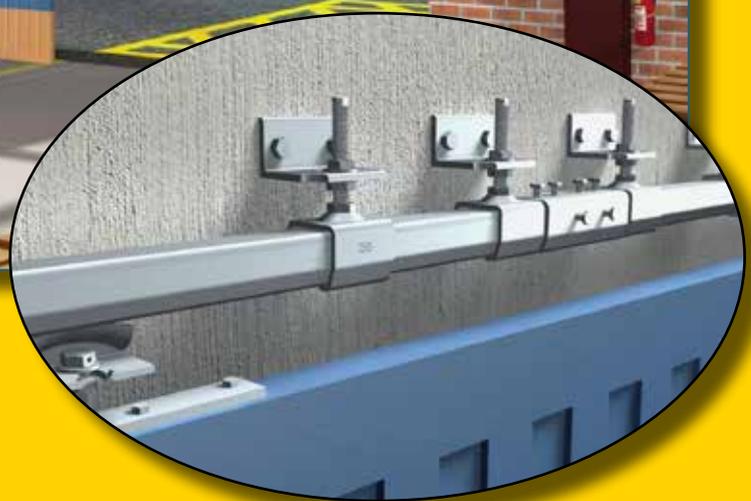
- All the Manton profiles are coated with magnesium zinc (without chromium) in order to preserve all the qualities to all weather. Number of hours of resistance to salt spray and red rust: 800 h !!
- The **9030 / 9040 / 9050 / 9060** and **9070** tracks are made of steel of High Limit of Elasticity. This ensures better resistance and durability.

Request the MANTION logo: guaranty of quality



# ***Sliding systems for STRAIGHT SLIDING doors***

## ***9200 series***



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

**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
0036	Top fixing screwing plate	Ø M10	20
0036 W	"U" plate for top fixing	Ø M10	
0037	Angle plate for side fixing	Ø M10	10
0031	Adjustable apron set for panels of 25 to 35 mm thickness - Capacity: 40 Kg	Ø M10	



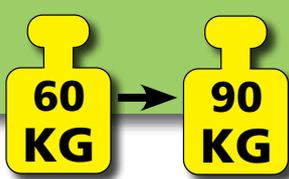
**DID YOU KNOW ?**

**For floor guiding: see on page 58**

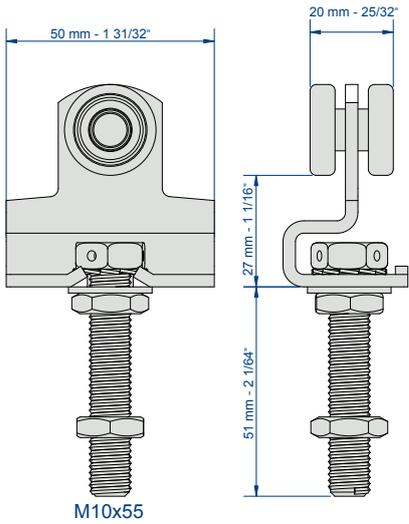


### GALVANIZING PROPERTIES:

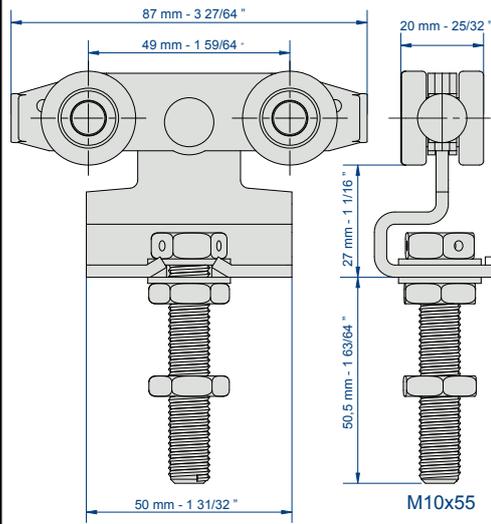
Zinc has the property of regenerating itself by surface recovering if it is altered, e.g: scraped or scratched. Thus, a track, after being scratched or cut recovers its protection entirely through galvanization. The MANTION treatment: Sendzimir process allows recovering of up to 2 mm recovering.



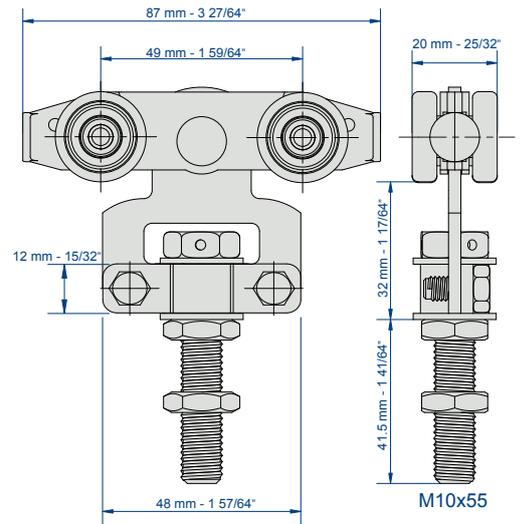
# 9210 series



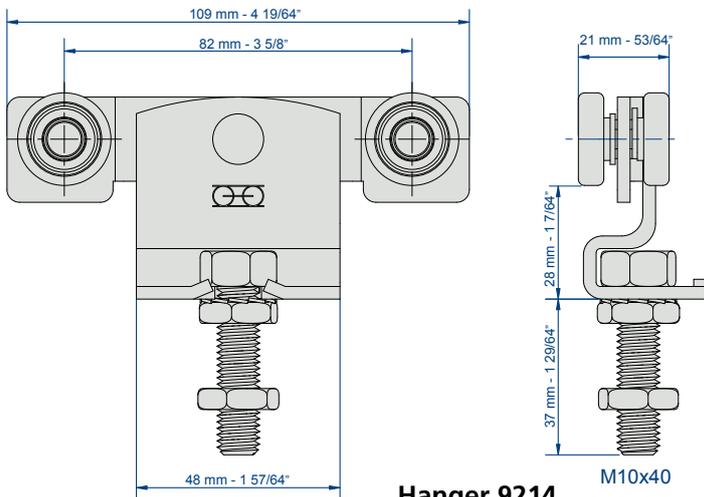
Hanger 9211



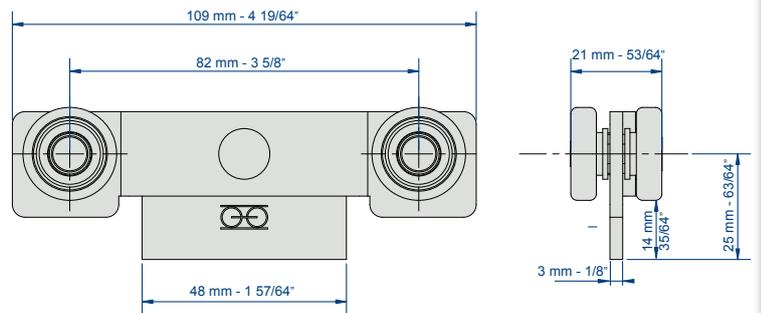
Hangers 9212 - 99212



Hangers 9215-99215



Hanger 9214



Hanger 9216

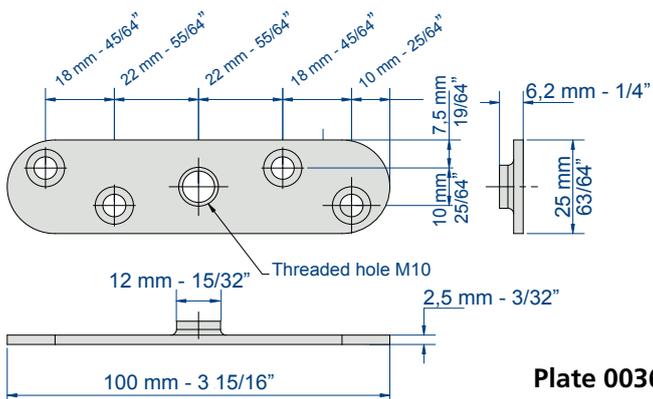


Plate 0036

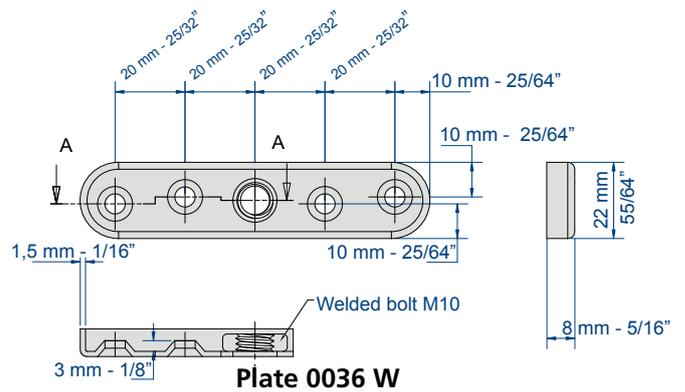


Plate 0036 W

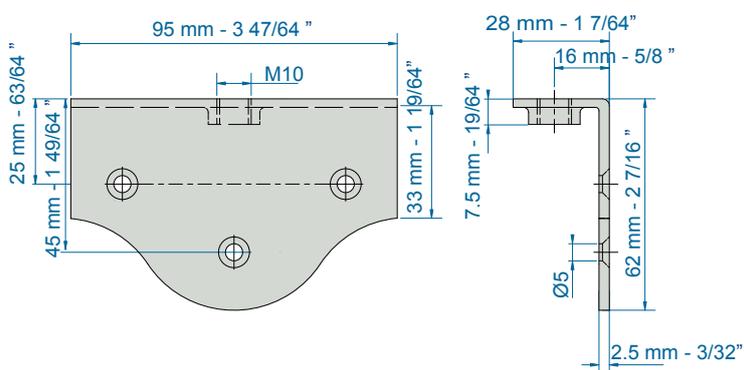
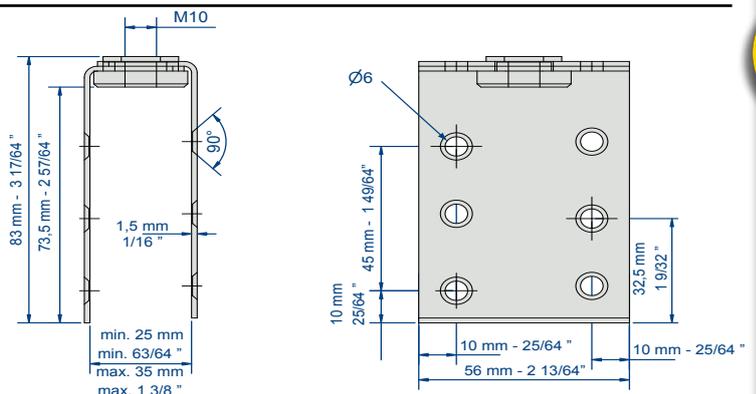


Plate 0037



Apron set 0031

**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	
0055	Top fixing welding plate	Ø 13	10	
0056	Top fixing screwing plate	Ø M12	10	
0056 W	"U" plate for top fixing	Ø M12	10	
0051	Adjustable apron set for panels of 40 to 50 mm thickness - Capacity: 90 Kg	Ø M12	16	



**DID YOU KNOW?**



**DIP-GALVANIZING:**

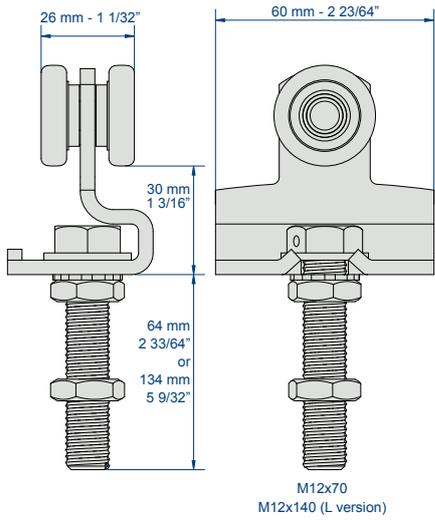
Mantion tracks are dip-galvanized (Sendzimir). Apart for the reinforced density of the galvanizing, this technique is the only way to uniformly protect all parts of the track (including the interior part).

**For floor guiding: see on page 58**

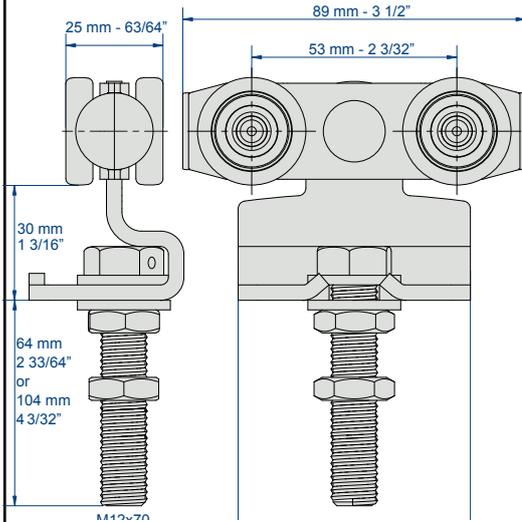


**140 KG** → **180 KG**

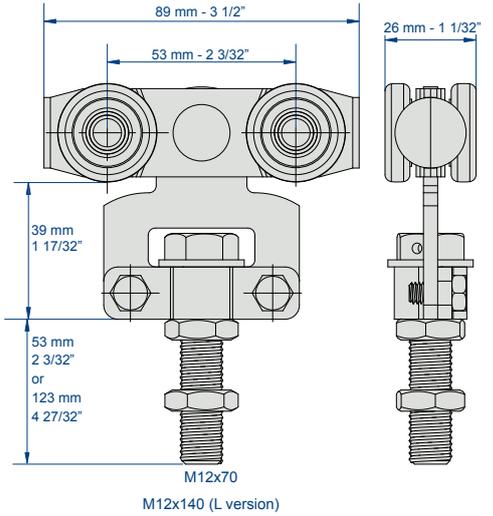
# 9230 series



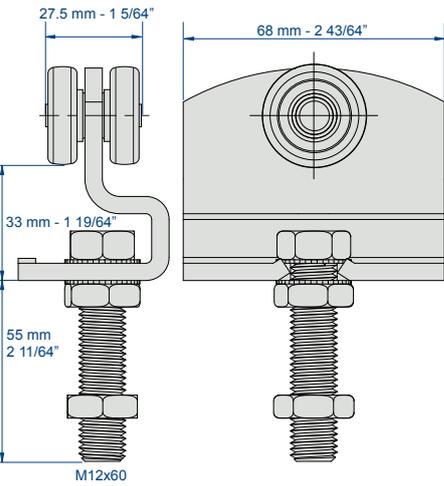
**Hangers 9231 - 9231 L**



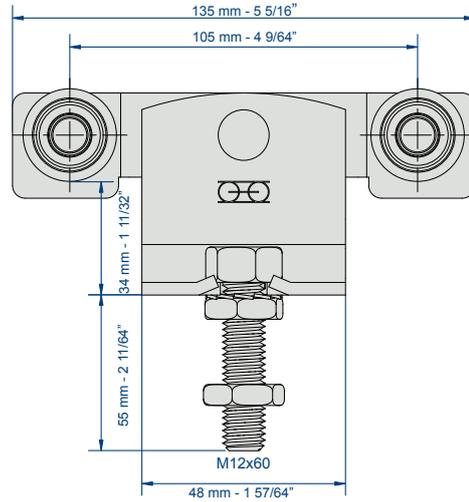
**Hangers 9232 - 9232 L**



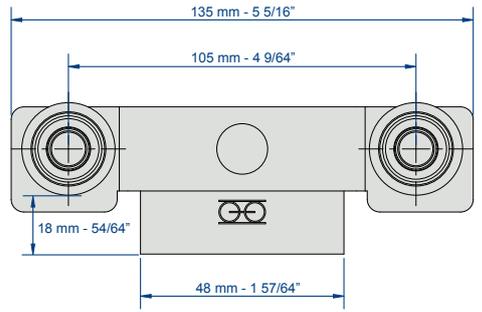
**Hangers 9235 - 9235 L**



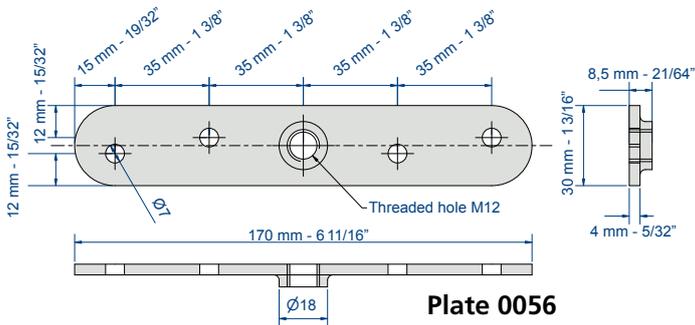
**Hanger 9231 W**



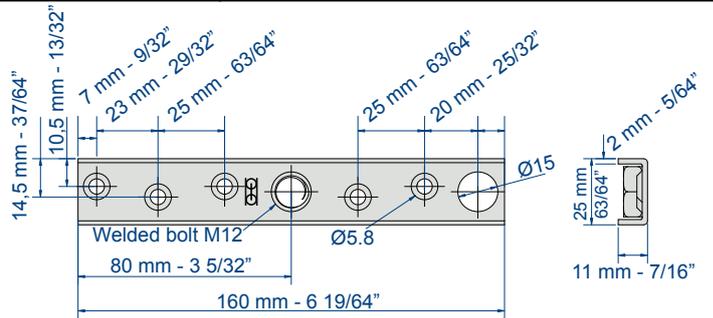
**Hanger 9234**



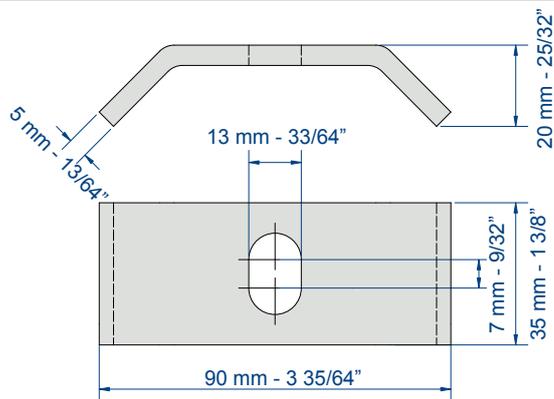
**Hanger 9236**



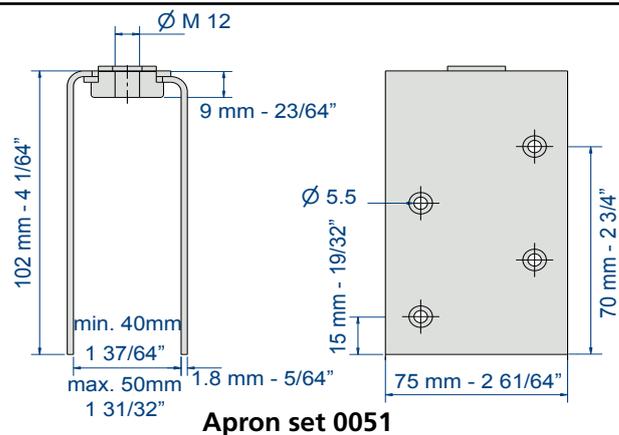
**Plate 0056**



**Plate 0056 W**



**Plate 0055**



**Apron set 0051**

**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



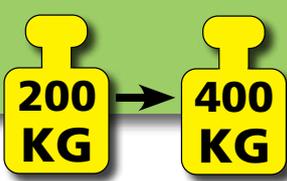
**capacity per door**

In case of an automatic operations use, please divide the capacity by 2

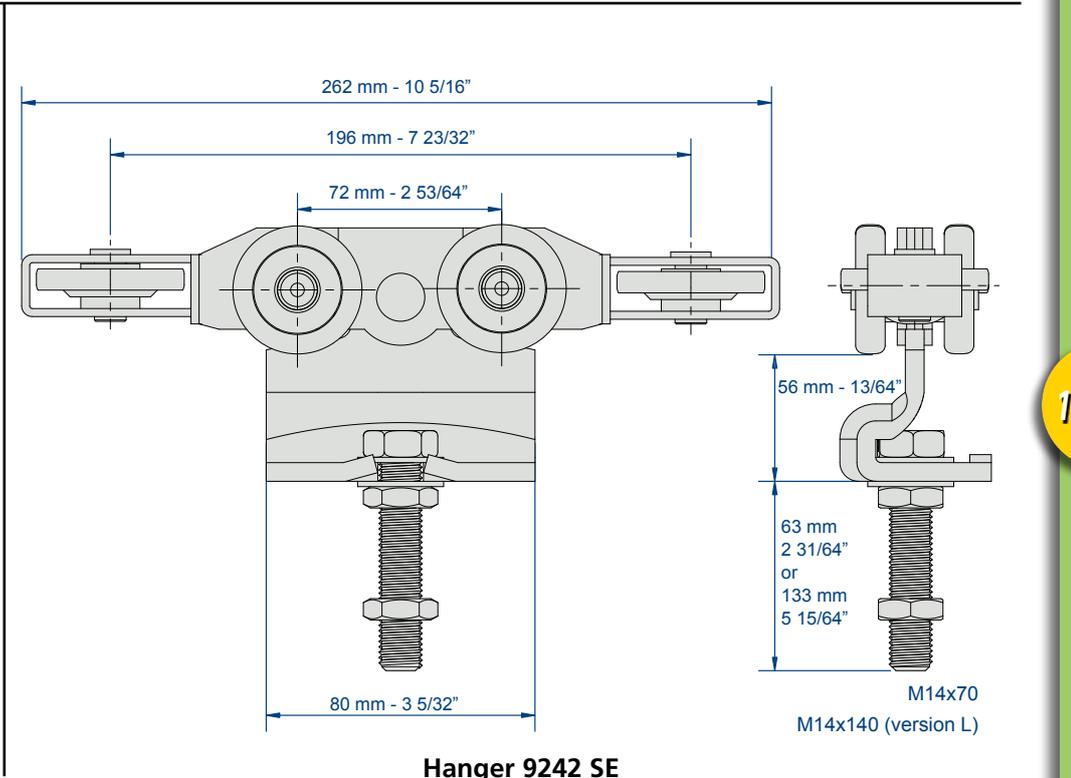
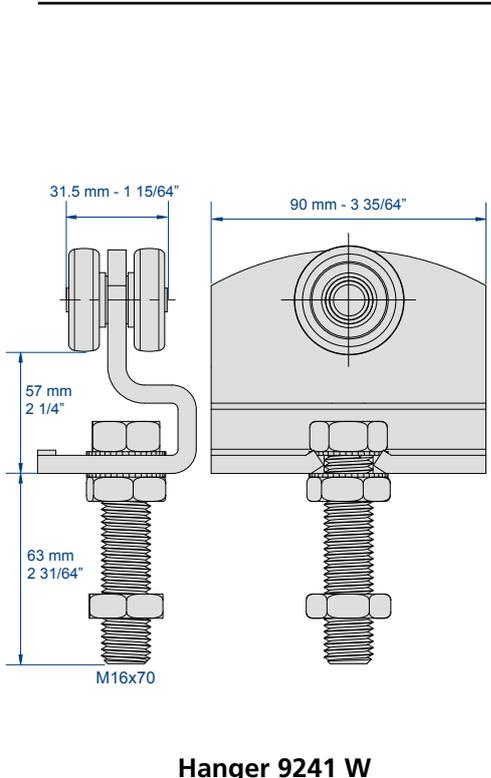
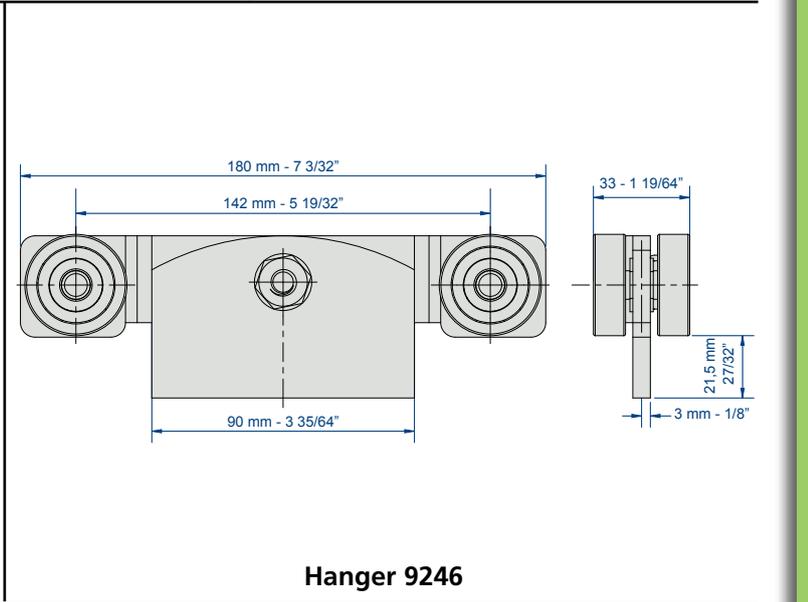
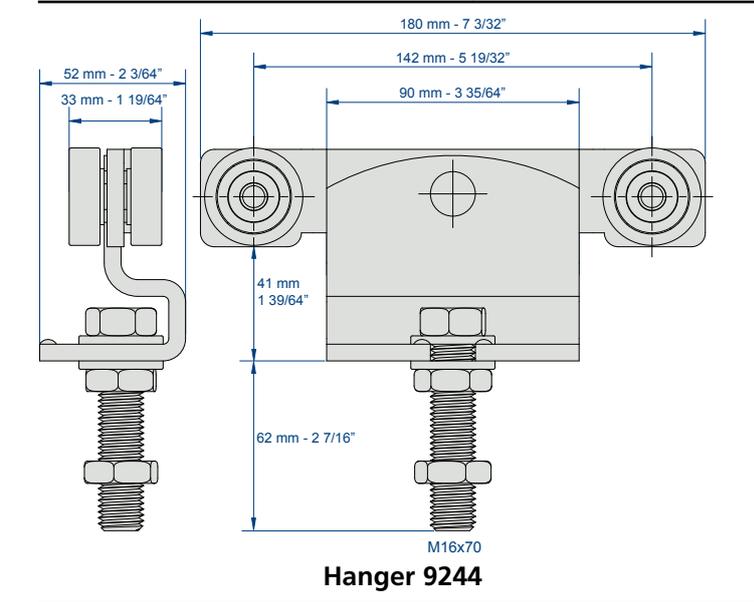
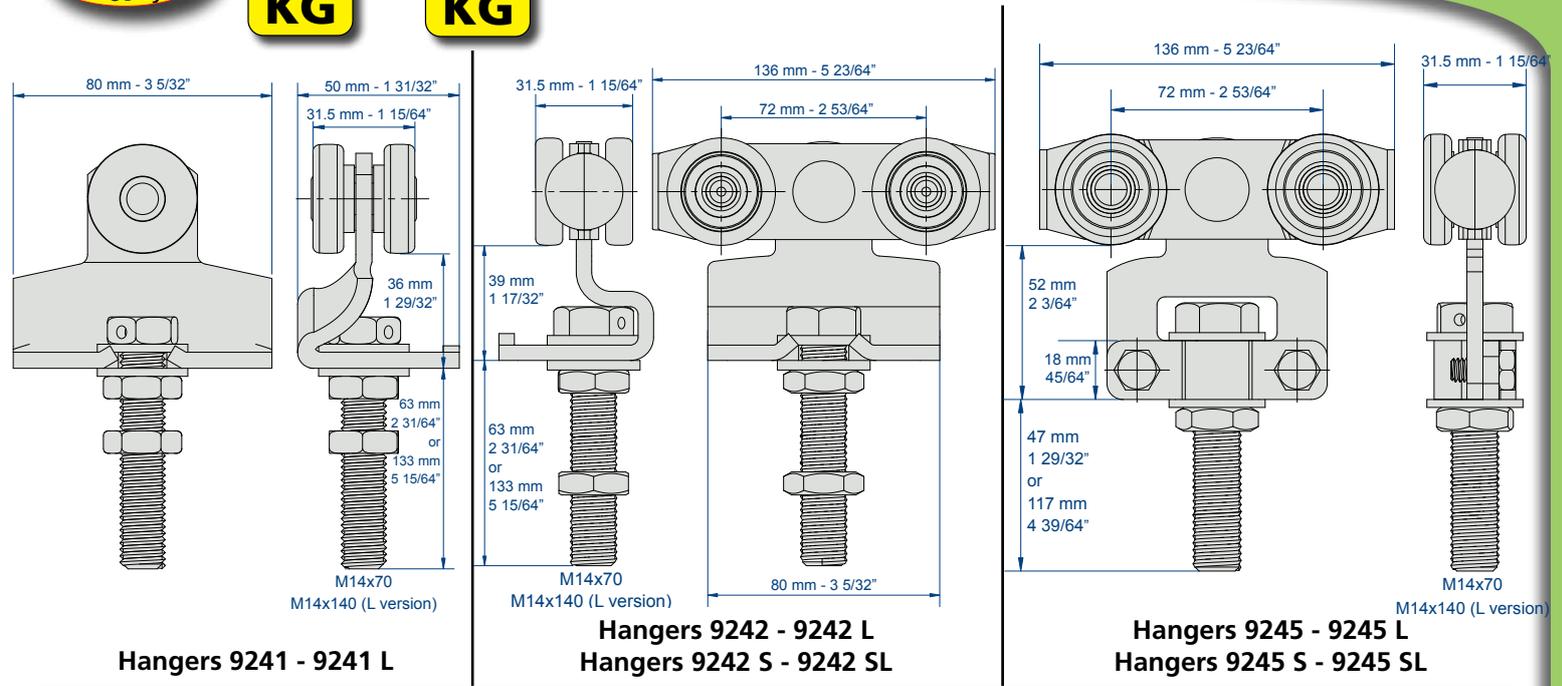
HANGERS & PLATES			
Item Nr	Description	screw Ø	
9241	Hanger with swanneck and 2 steel wheels mounted on balls.	Ø M14	2
9241 L	Ditto with long fixing bolt (140 mm)	Ø M14	2
9241 W	Hanger with swanneck and 2 steel wheels mounted on balls.	Ø M16	2
9246	Welding type hanger, with 4 steel wheels mounted on 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
0065	Top fixing welding plate	Ø 15	10
0066	Top fixing screwing plate	Ø M14	
0086	Reinforced top fixing screwing plate	Ø M16	
0086 W	Reinforced U-plate, top fixing	Ø M16	2
0061	Adjustable apron set for panels of 50 to 65 mm thickness Capacity: 200 Kg	Ø M14	24



For floor guiding: see on page 58



# 9240 series



**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**

In case of an automatic operations use, please divide the capacity by 2

HANGERS & PLATES				
Item Nr	Description	screw Ø		
9251	400 kg Hanger with swanneck and 2 steel wheels mounted on balls.	Ø M16	2	
9251 L		Ø M16	2	
9251 W		Ø M20	2	
9256 S	Welding type hanger, with 4 steel wheels mounted on ball bearings.		2	
9252	500 kg Hanger with swanneck and 4 steel wheels mounted on balls	Ø M16	2	
9252 L		Ø M16	2	
9252 S	750 kg Hanger with swanneck and 4 steel wheels mounted on ball bearings	Ø M16	2	
9252 SL		Ø M16	2	
9254 S	600 kg Hanger with swanneck and 4 steel wheels mounted on ball bearings	Ø M20	2	
9255	500 kg Hanger with removable collar, with 4 steel wheels mounted on ball bearings	Ø M16	2	
9255 L		Ø M16	2	
9255 S		Ø M16	2	
9255 SL	750 kg Ditto with long fixing bolt (150 mm)	Ø M16	2	
9252 SE	350 kg Hanger for automatic doors, idem 9252S equipped with a guiding wheel at each end	Ø M16	2	
9252 SEL		Ø M16	2	
9258 S	900 Kg Top fixing hangers with 8 wheels mounted on balls	Ø M20	2	
9258 SL		Ø M20	2	
0085	Plate, welding type for top fixing	Ø 17	10	
0085 S	Reinforced plate, welding type for top fixing	Ø 21	10	
0086	Plate, screwing type for top fixing	Ø M16		
0086 S	Reinforced plate, screwing type for top fixing	Ø M20		
0086 SW	Reinforced "U" plate, top fixing	Ø M20		
0081	Adjustable apron set for panels of 50 to 75 mm thickness Capacity: 400 Kg	Ø M16	24	

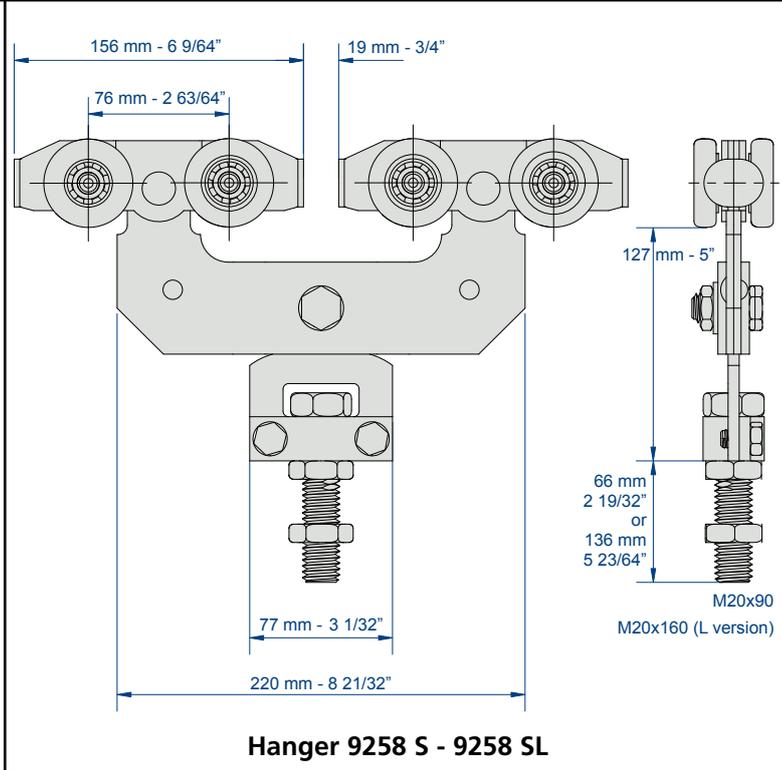
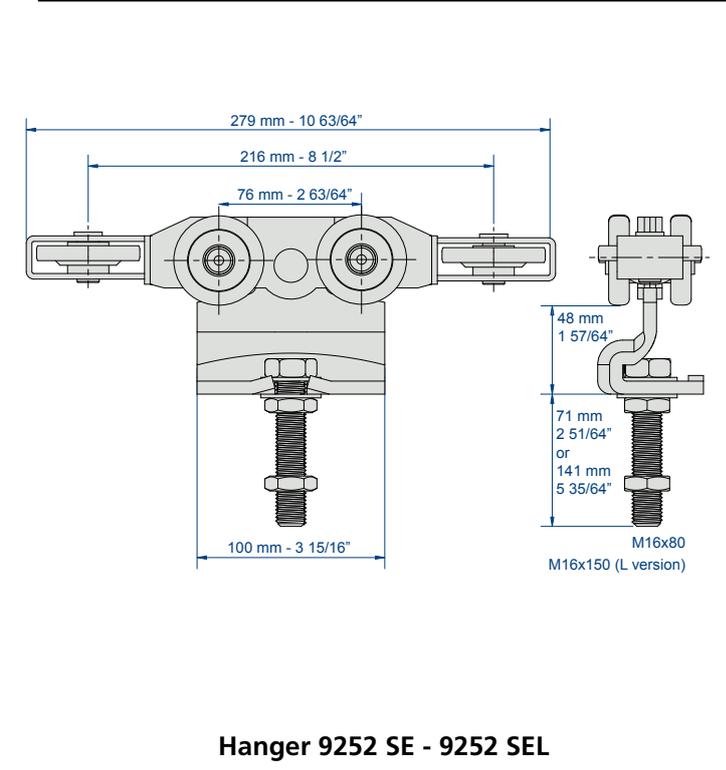
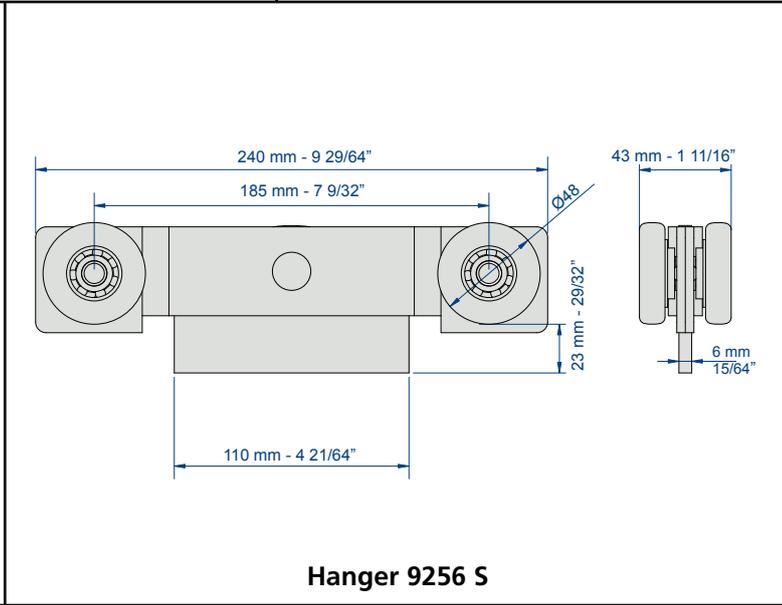
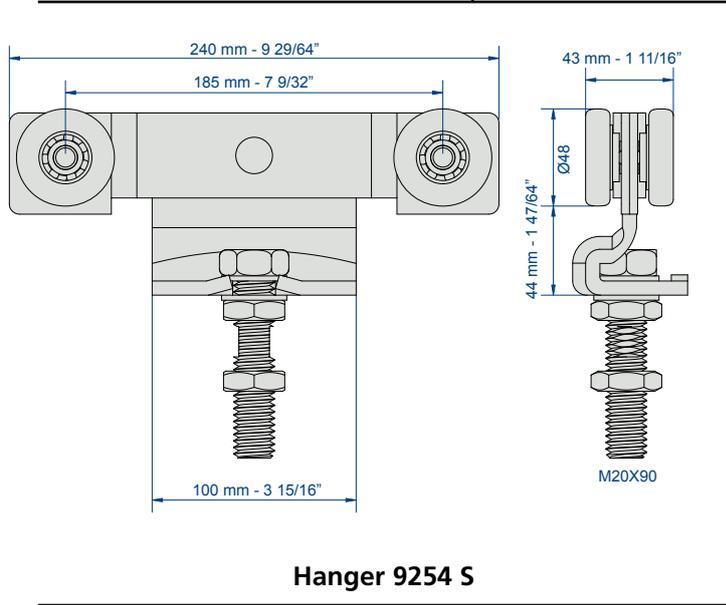
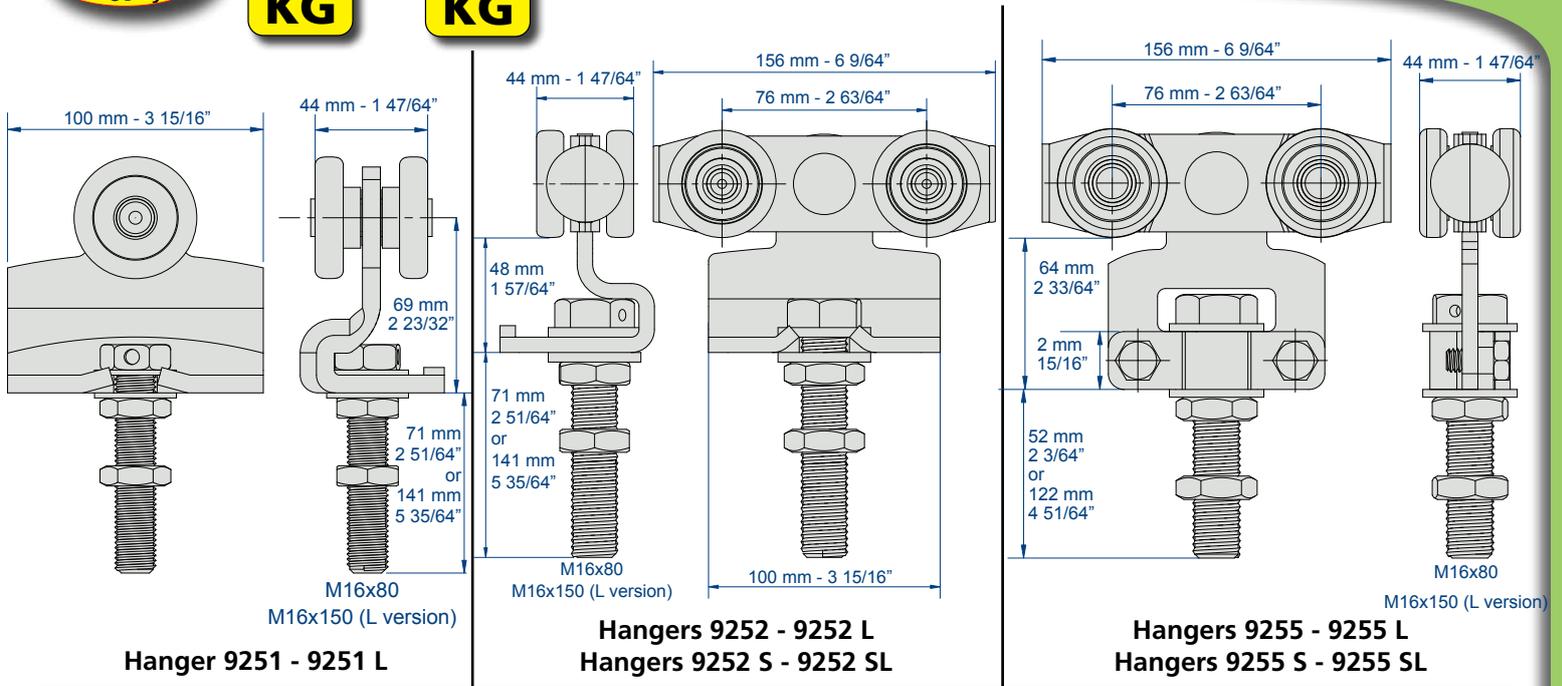


For floor guiding: see on page 58



**350 KG** → **900 KG**

# 9250 series



**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**

In case of an automatic operations use, please divide the capacity by 2

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	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	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	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	
0085 S	Plate, welding type for top fixing	Ø 21	10	
0086 S	Plate, screwing type for top fixing	Ø M20		
0086 SW	Reinforced «U» plate for side fixing	Ø M20		
0096 W	Ditto with Ø M24	Ø M24		



For floor guiding: see on page 58

**DID YOU KNOW ?**



«MAGNESIUM ZINC»:

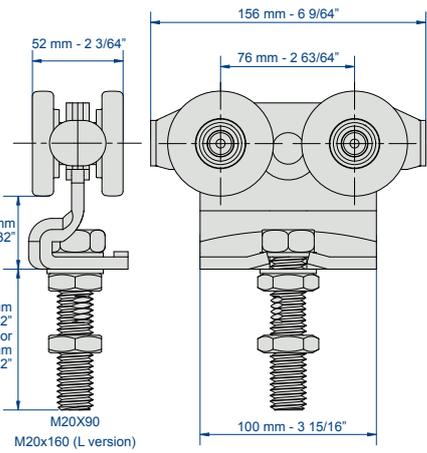
In the building industry, most products have a Z275 zinc protection. For optimal quality, all the Manton profiles are coated with magnesium zinc (without chromium) in order to preserve all the qualities to all weather. Number of hours of resistance to salt spray and red rust: 800 h !!



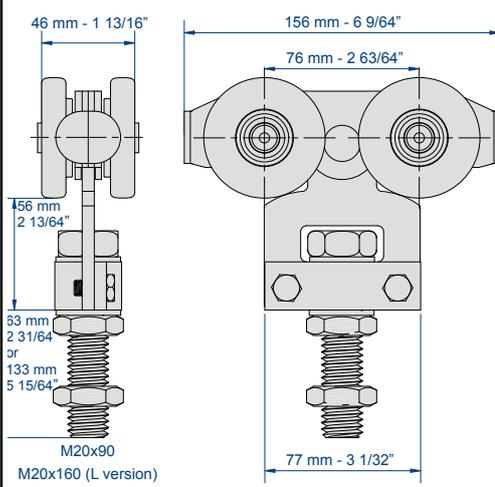


**700 KG** → **2000 KG**

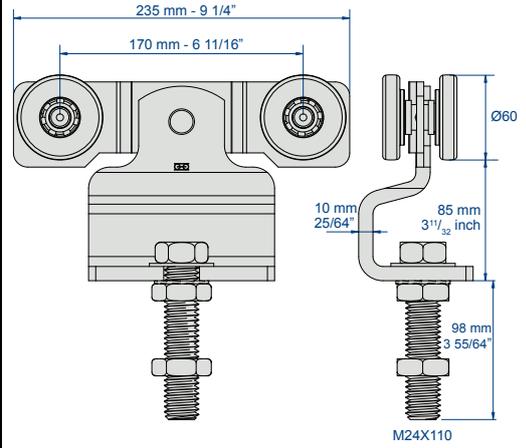
# 9260 series



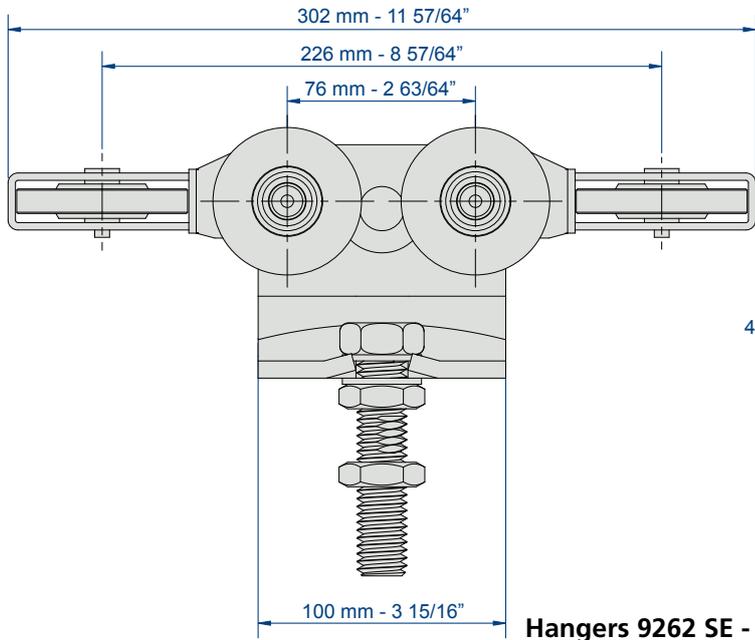
**Hangers 9262 S - 9262 SL**



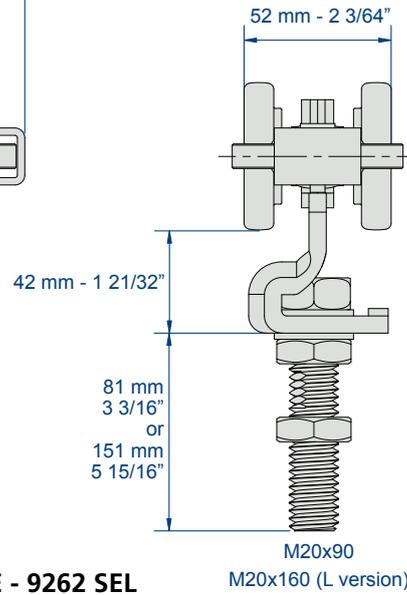
**Hangers 9265 S - 9265 SL**



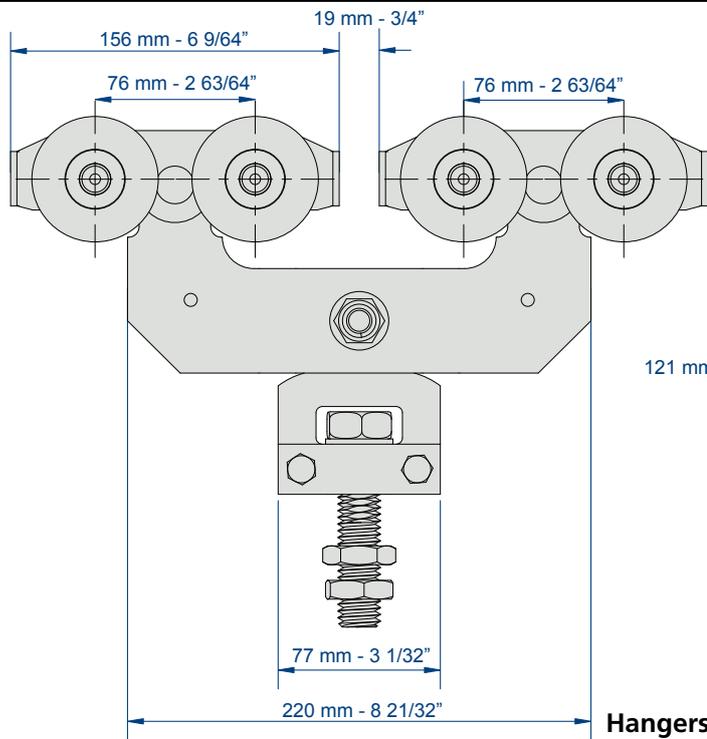
**Hangers 9264 S**



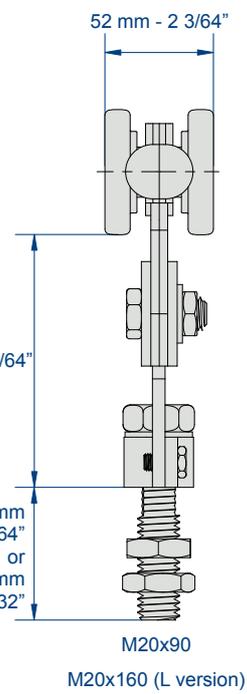
**Hangers 9262 SE - 9262 SEL**



**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		
0075 S	Plate welding type	Ø M30		



**DID YOU KNOW ?**

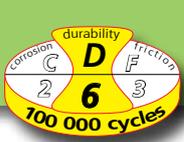
*For floor guiding: see on page 58*



### MANTION ROLLING:

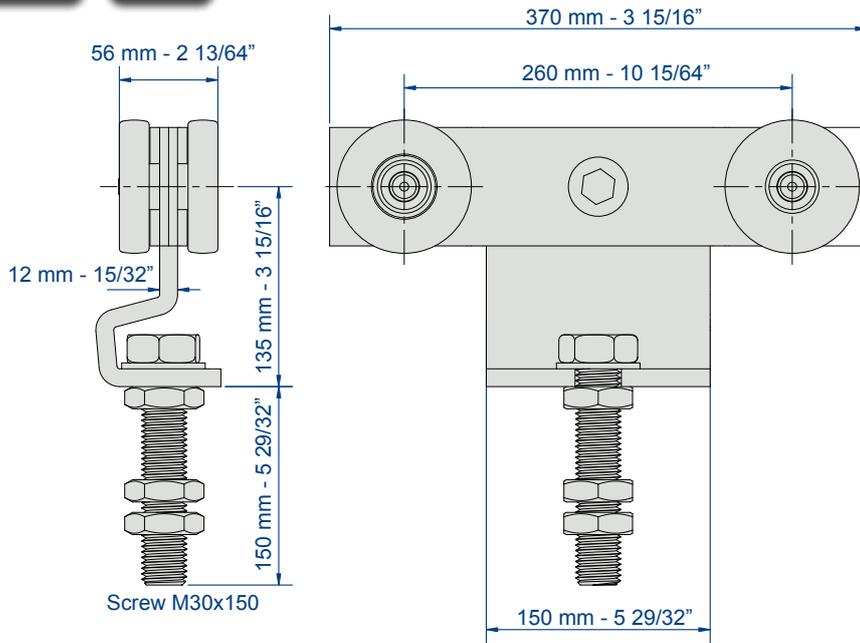
Mantion is the only hardware manufacturer which rolls all its tracks. This ensures a perfect design and compatibility of the complete systems. Thanks to this process, Mantion can offer steel tracks with a High Limit of Elasticity.



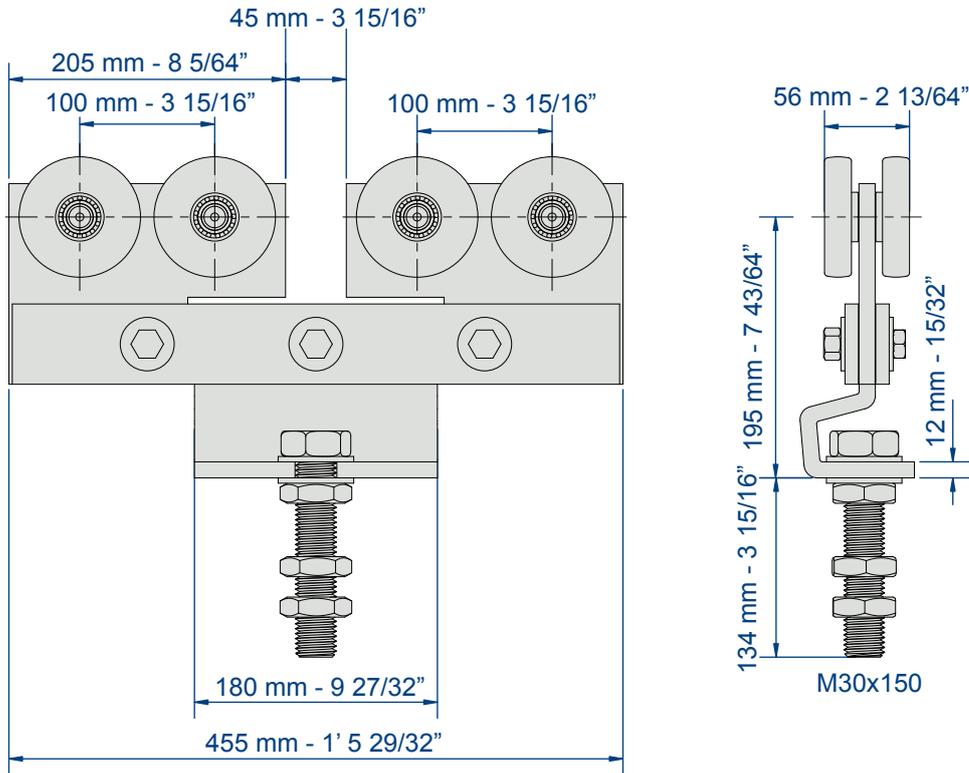


**2000 KG**  
**3000 KG**

# 9270 series



Hanger 9272 S



Hanger 9278 S

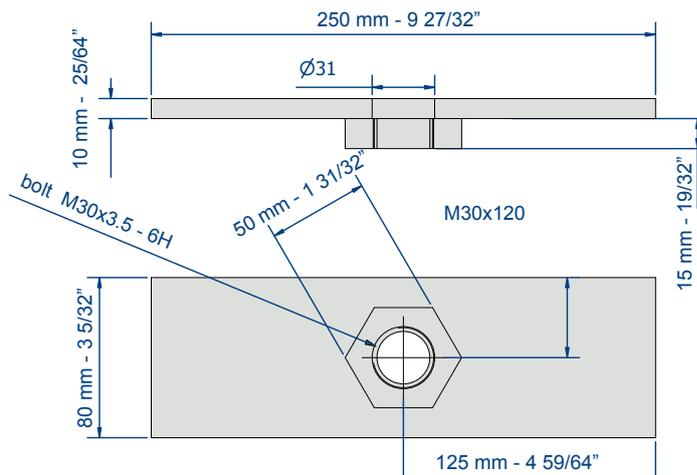


Plate 0075 S

**CAPACITY/DOOR:** 600 kg max.

**TRACK:** 9010 ---> 9050

**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...

## TRACKS and FIXING ACCESSORIES

9010 X		9030 X		9040 X		9050 X	Fig.	Description
304 L	316 L	304 L	316 L	304 L	316 L	304 L		
9010 XA2/6	9010 XA4/6	9030 XA2/6	9030 XA4/6	9040 XA2/6	9040 XA4/6	9050 XA2/6	1	Track in STAINLESS STEEL. 6 m. long
9011 XA2	9011 XA4	9031 XA2	9031 XA4	9041 XA2	9041 XA4	9051 LXA2	2	Adjustable bracket
9013 XA2	9013 XA4	9033 XA2	9033 XA4	9043 XA2	9043 XA4	9053 XA2	3	Angle plate - Screwing type
9018 XA2	9018 XA4	9038 XA2	9038 XA4	9048 XA2	9048 XA4	9058 XA2	4	Bracket - welding fixing
9018 HXA2	9018 HXA4	9038 HXA2	9038 HXA4	9048 HXA2	9048 HXA4	9058 HXA2	5	Bracket - Soffit fixing
9018 VXA2	9018 VXA4	9038 VXA2	9038 VXA4	9048 VXA2	9048 VXA4	9058 VXA2	6	Bracket - Wall fixing
9011 MXA2	9011 MXA4	9031 MXA2	9031 MXA4	9041 MXA2	9041 MXA4	9051 MXA2	7	Jointing bracket



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7

### FOR DOORS UP TO 60 KG track 9010 X

Item Nr		Fig.	Description
STEEL 304 L	STEEL 316 L		
9118 XA2	9118 XA4	8	STAINLESS STEEL stop
99212 XA2	99212 XA4	10	STAINLESS STEEL hanger with Delrin wheels on smooth axle, fixing screw Ø M 10
36XA2	36 XA4	13	STAINLESS STEEL plate (hole M 10)



Fig. 8



Fig. 9

### FOR DOORS UP TO 200 KG track 9030 X

9139 XA2	9139 XA4	9	STAINLESS STEEL stop
99232 XA2	99232 XA4	10	STAINLESS STEEL hanger with Delrin wheels on smooth axle, fixing screw Ø M 12) For doors up to <b>100 kg</b> .
9232 XSA2	9232 XSA4	11	STAINLESS STEEL hanger (with stainless steel wheels mounted on ball bearings, fixing bolt Ø M 12) - For doors up to <b>200 kg</b> .
56 XA2	56 XA4	13	STAINLESS STEEL plate (hole M 12)



Fig. 10



Fig. 11



Fig. 12

### FOR DOORS UP TO 400 KG track 9040 X

9149 XA2	9149 XA4	9	STAINLESS STEEL stop
9242 XSA2	9242 XSA4	11	STAINLESS STEEL hanger (with stainless steel wheels mounted on ball bearings, fixing bolt Ø M 14)
66 XA2	66 XA4	14	STAINLESS STEEL plate (hole M 14)



Fig. 13

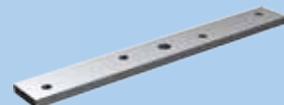


Fig. 14

### FOR DOORS UP TO 600 KG track 9050 X

9159 XA2	-	9	STAINLESS STEEL stop
9255 XSA2	-	12	STAINLESS STEEL hanger (with stainless steel wheels mounted on ball bearings, fixing bolt Ø M 16)
86 XA2	-	14	STAINLESS STEEL plate (hole M 16)



Fig. 15

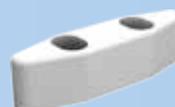


Fig. 16



Fig. 17

## ACCESSORIES

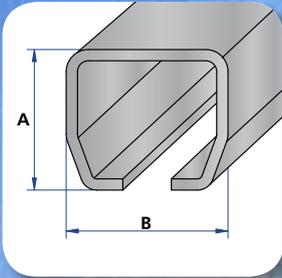
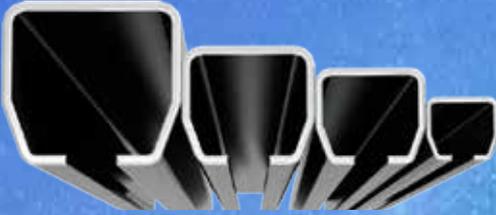
1110 XA2/6	1110 XA4/6	15	STAINLESS STEEL U-profile 30x30. 6 M long
1110 GDL		16	Nylon guide for U-profile 30x30
1290 X		17	STAINLESS STEEL finger pull - 200 x 90 mm



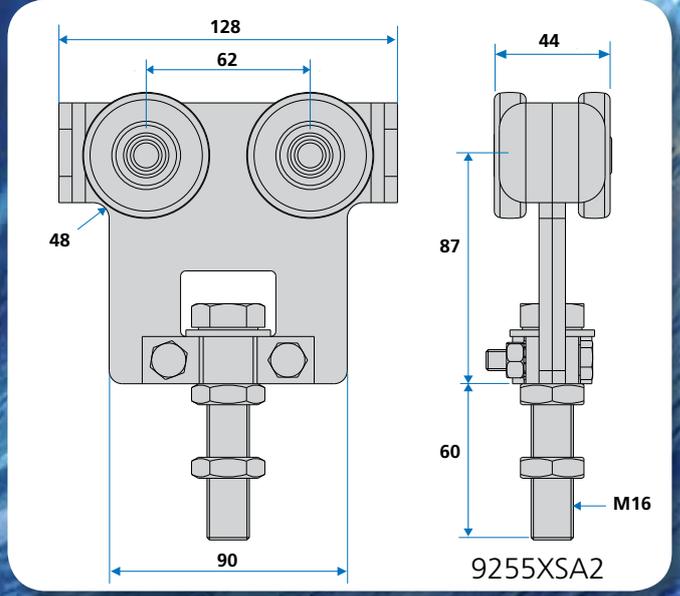
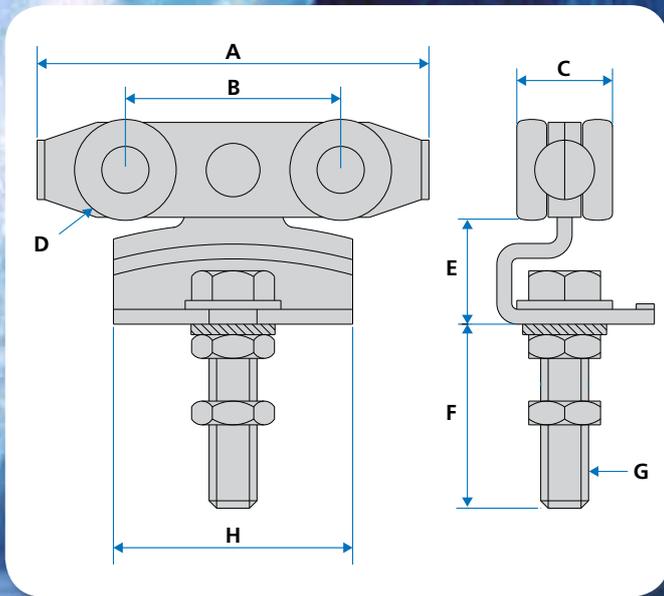
**60  
KG**

**600  
KG**

# STAINLESS STEEL



Item Nr	A	B
9010 X	28	30
9030 X	35	40
9040 X	43,5	48,5
9050 X	60	65



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 XA2	89	53	25	28	30	63	M12	60
9232 XA4	89	53	25	28	30	63	M12	60
9242 XA2	137	72	32	34	34	72	M14	80
9242 XA4	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.

The curve has to be fixed on an angle steel by a bracket (sealing type)

In case of small quoins (inferior to the curve radius) the service door has to be placed at the push back side

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

The hangers and the hinges for the 9300 series are supplied in a «top fixing» version. They are also available in «side fixing» on request

## HOW TO CHOOSE THE HANGER AND THE TRACK:

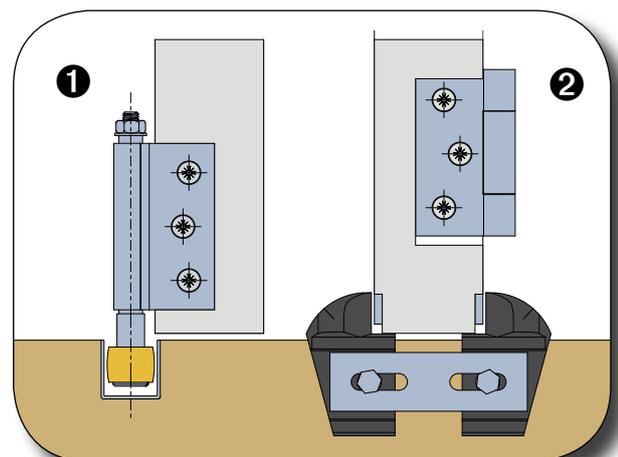
For a door without a service door: the weight of a single panel has to be taken into consideration

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***



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

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, axle 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, axle 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, axle 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, axle 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, axle 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.		



1



2



3



4



5



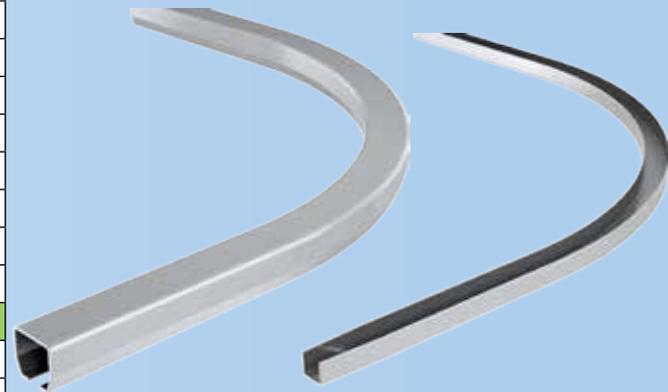
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8

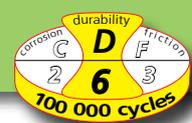


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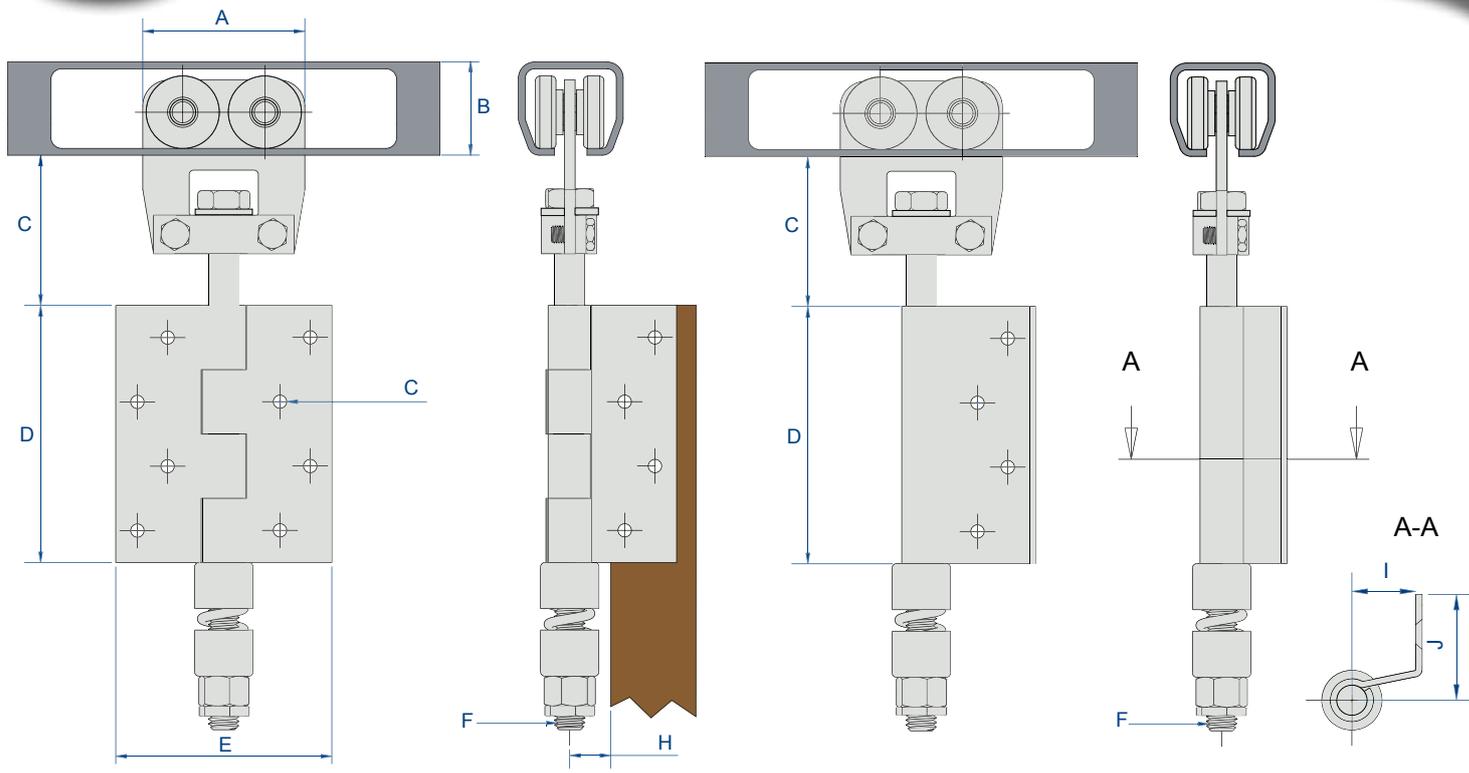
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11



# 9300 series screwing type



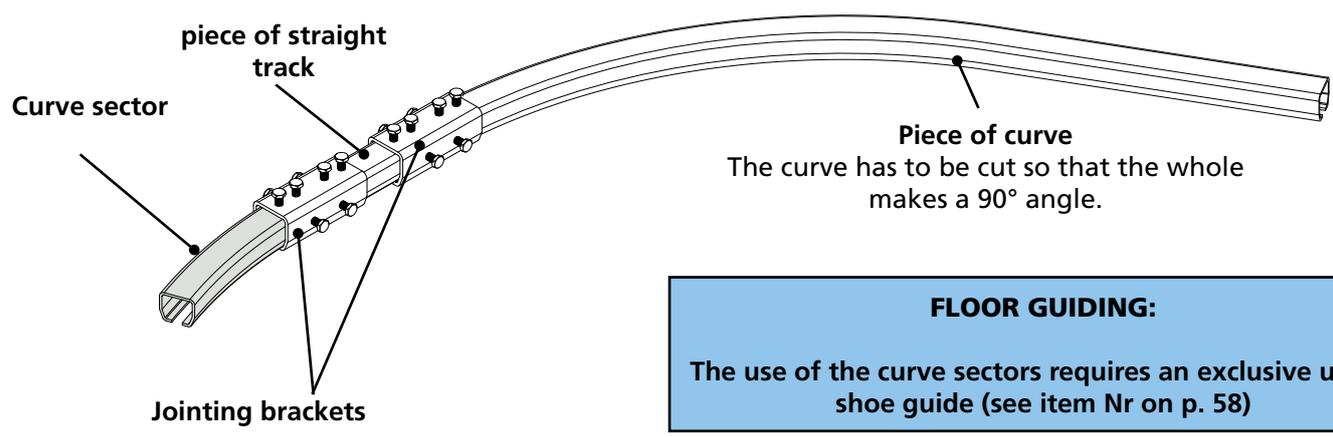
Intermediate hangers

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			



see mounting instructions on p. 24

## 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 - axle 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.	



1



2

## 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 - axle 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.	



3



4

## 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 - axle 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.	



5



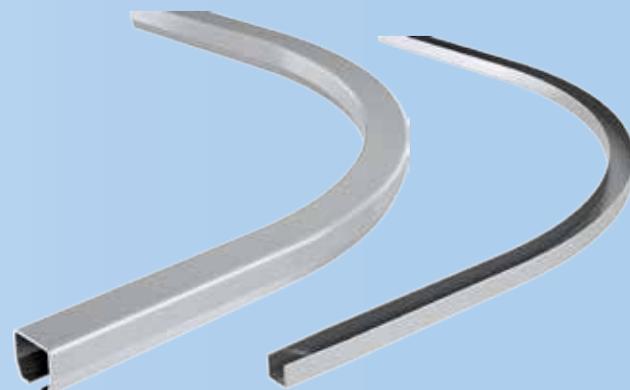
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7

## 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 - axle 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.	



8

9

## HANGERS WELDING TYPE - Capacity 400 Kg Track: 9060

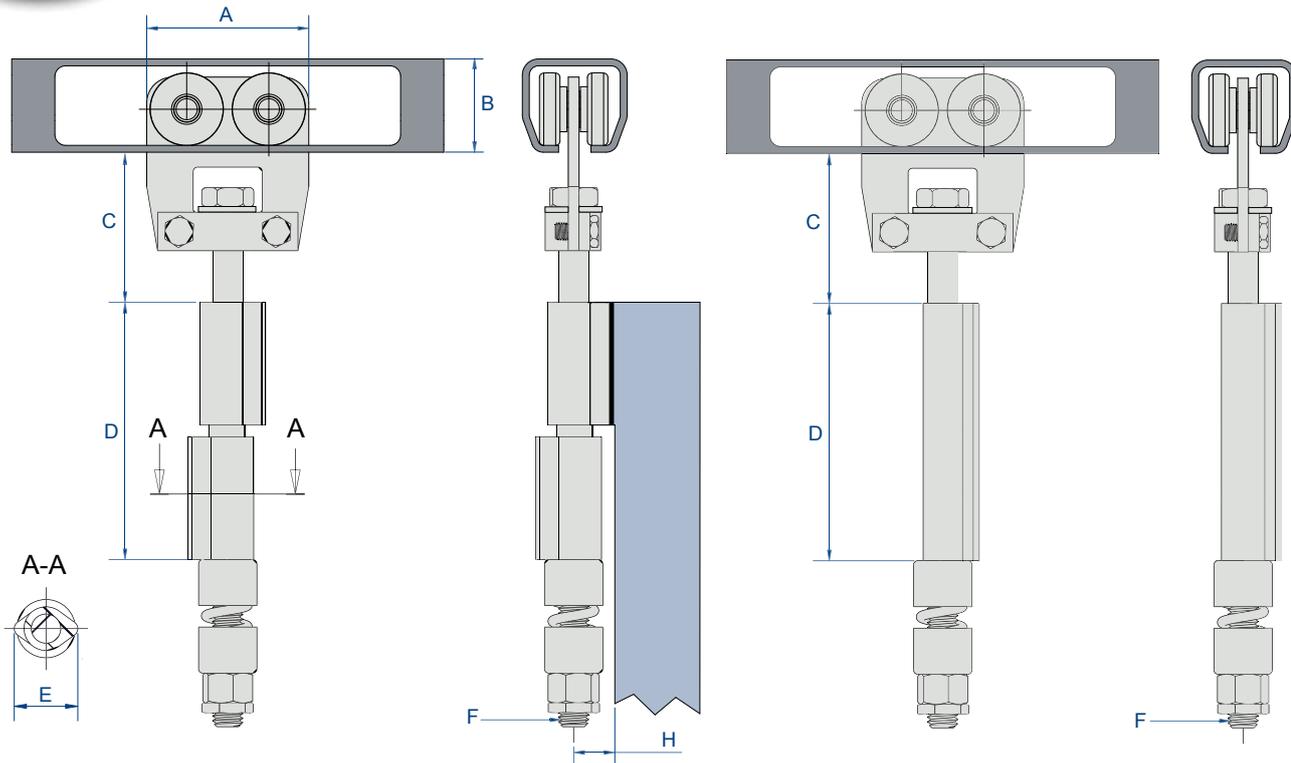
9362 SO	1	Intermediate hanger with hinge . Welding type (capacity: 400 kg)	2
9362 SOE	2	Offset end hanger mounted on a half hinge (capacity: 400 kg)	2
1108 SO	3	Intermediate bottom guide with hinge for U-profile 30 x 30 (Item Nr 1110)	
1108 SOE	4	Bottom guide with a half hinge for U-profile 30 x 30 (Item Nr 1110)	
1516 SO	5	Hinge - Welding type. H = 120 - axle 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.	

8

9



10



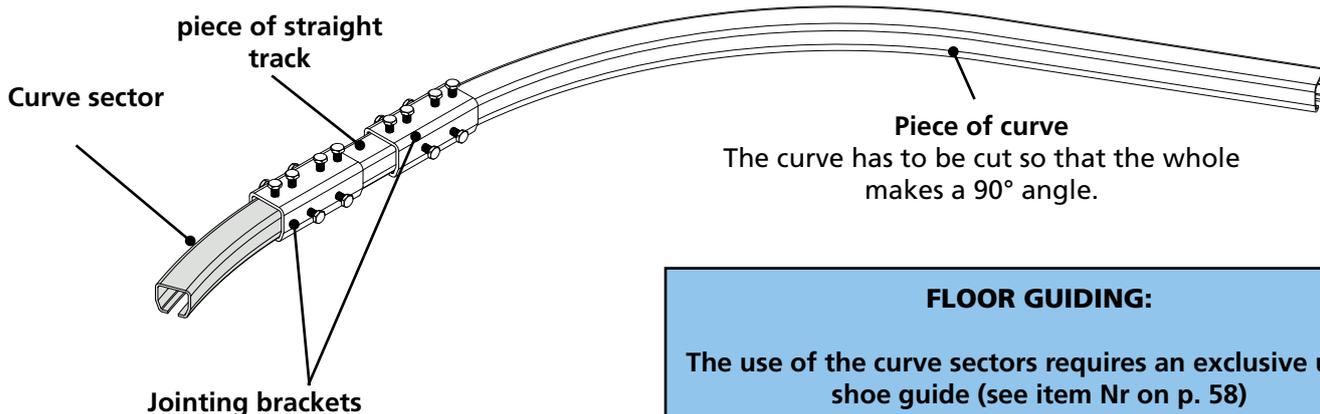
Intermediate hangers

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			



see mounting instructions on p. 24

## HANGERS - CAPACITY 25 to 40 Kg Track: 9010

Item Nr	Fig.	Description	
9611	1	Swivelling end hanger. Axle Ø M 10 - 2 steel wheels (capacity: 20 kg)	2
9613	2	Swivelling hanger. Axle 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, axle Ø 10, top fixing	10
3539	11	Angle steel for curve, sealing type (30 x 20) - L = 610 mm.	



## HANGERS - CAPACITY 40 to 75 Kg Track: 9030

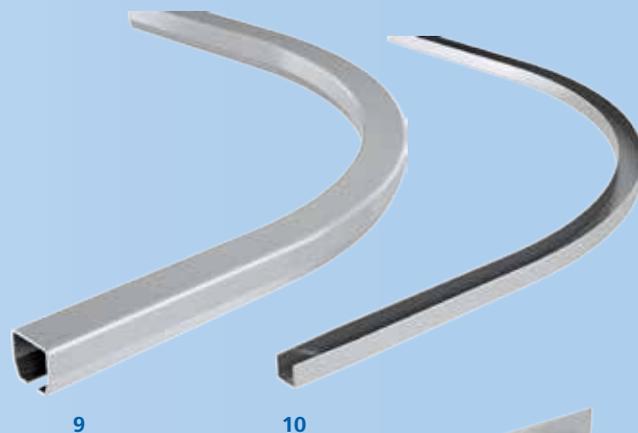
9631	1	Swivelling end hanger. Axle Ø M 12 - 2 steel wheels (capacity: 40 kg)	2
9633	2	Swivelling hanger. Axle Ø M 12- 4 steel wheels (capacity: 85 kg)	2
9634 EW	3	Angle plate with 2 holes Ø M 12	
9634 GW	4	Angle plate for offset hanger, hole Ø M 12	
1110 EFW1	5	Guide with olive Ø 24 , for U-profile 30 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, axle Ø 12, top fixing	10
5049	11	Angle steel for curve, sealing type (40 x 25) - L = 710 mm.	

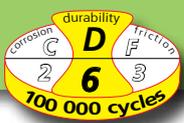
## HANGERS - CAPACITY 75 TO 150 Kg Track: 9040

9641/16	1	Swivelling end hanger. Axle Ø M 16 - 2 steel wheels (capacity: 80 kg)	2
9643/16	2	Swivelling hanger. Axle 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, axle Ø 12, top fixing	10
5049	11	Angle steel for curve, sealing type (40 x 25) - L = 710 mm..	

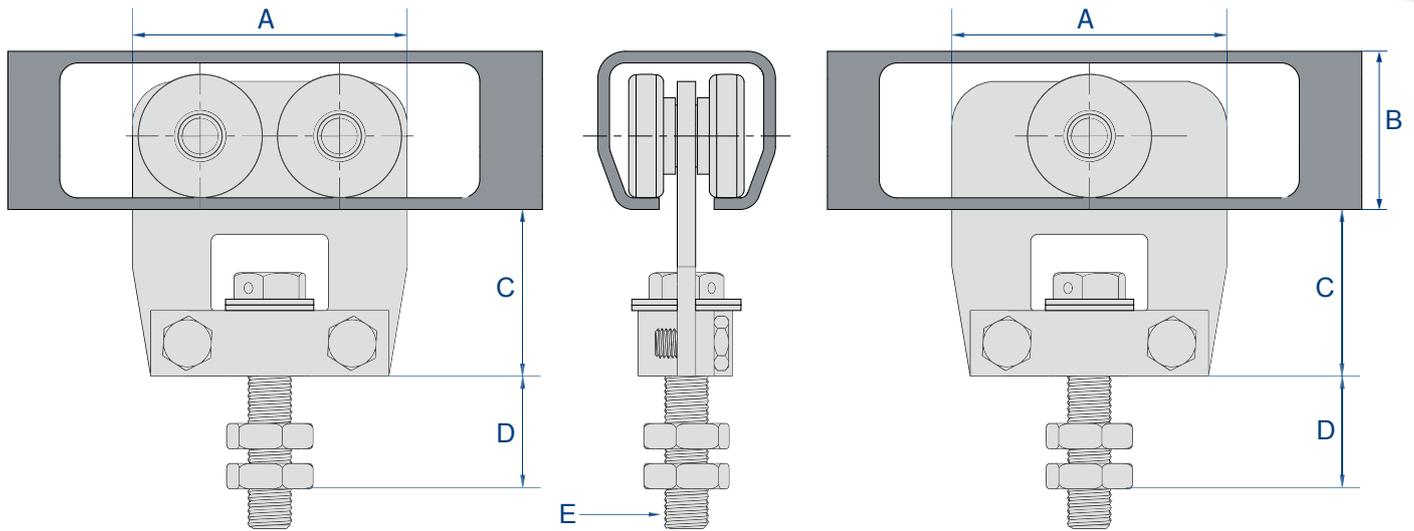
## HANGERS - CAPACITY 50 to 300 Kg Track: 9050

9651/20	1	Swivelling end hanger. Axle Ø M 20 - 2 steel wheels (capacity: 150 kg)	2
9653/20	2	Swivelling hanger. Axle 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, axle 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.	





# 9300 series with angle plates

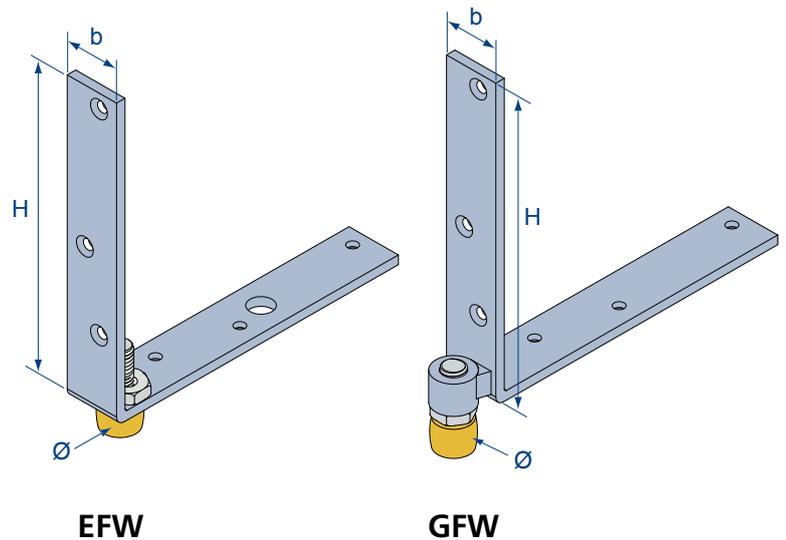
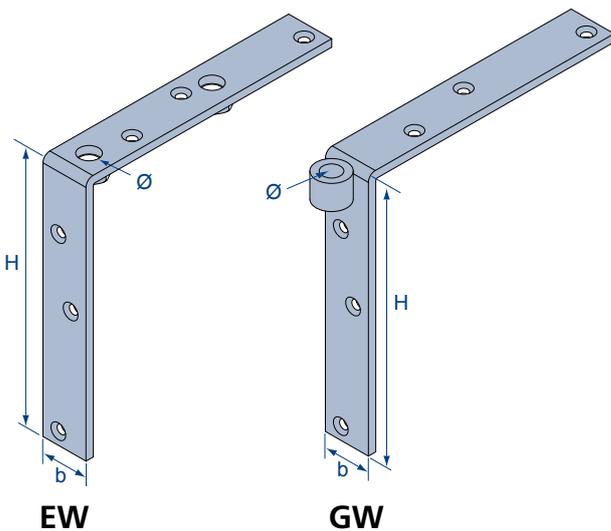


Item Nr	A	B	C	D max.	E
9613	50	28	34	33	M 10
9633	62	35	39	40	M 12
9643/16	75	43.5	45	37	M 16
9653/20	92	60	56	37	M 20

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

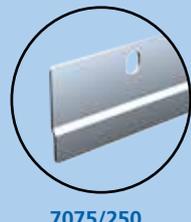
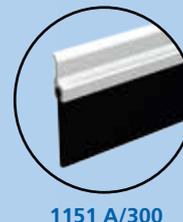
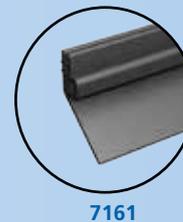
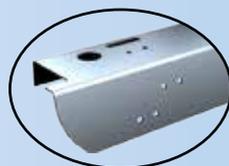
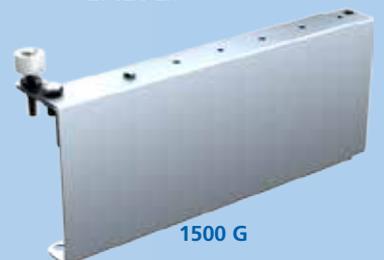
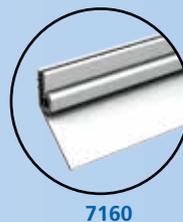
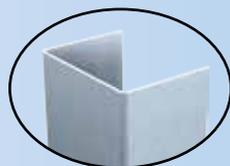
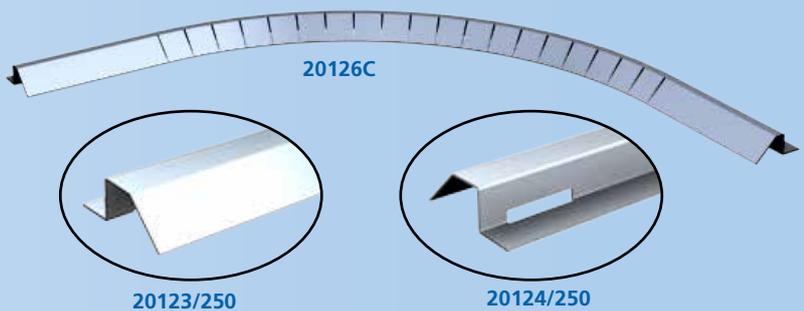
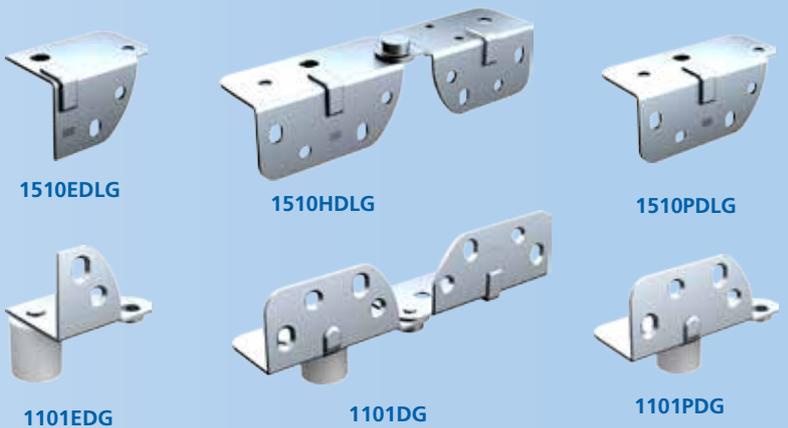
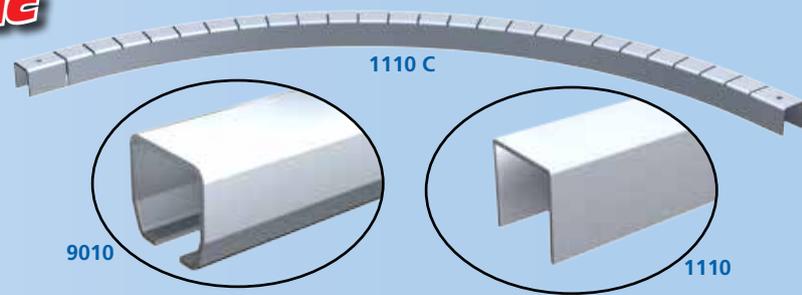
20123/250	Exterior 1/2 threshold - Length = 2.5 m
20124/250	Interior 1/2 threshold - Length = 2.5 m
20126 C	Variable radius threshold curve

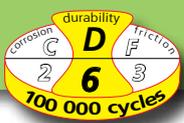
### SEALING

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 quoins up to 700 mm
1506 P	Hinge, side fixing - 6 mm axle
1292	White handle with 3 fasteners





**Safe:**

Accessories compatible with anti-fingering panels.

**Simple:**

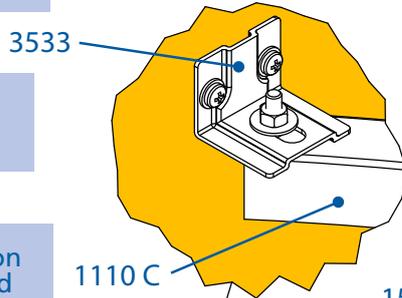
no intermediate hinges is requested on the panels

**Small quoin:**

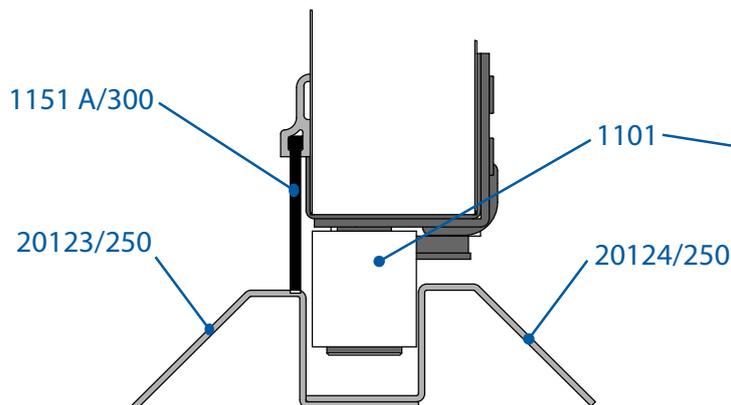
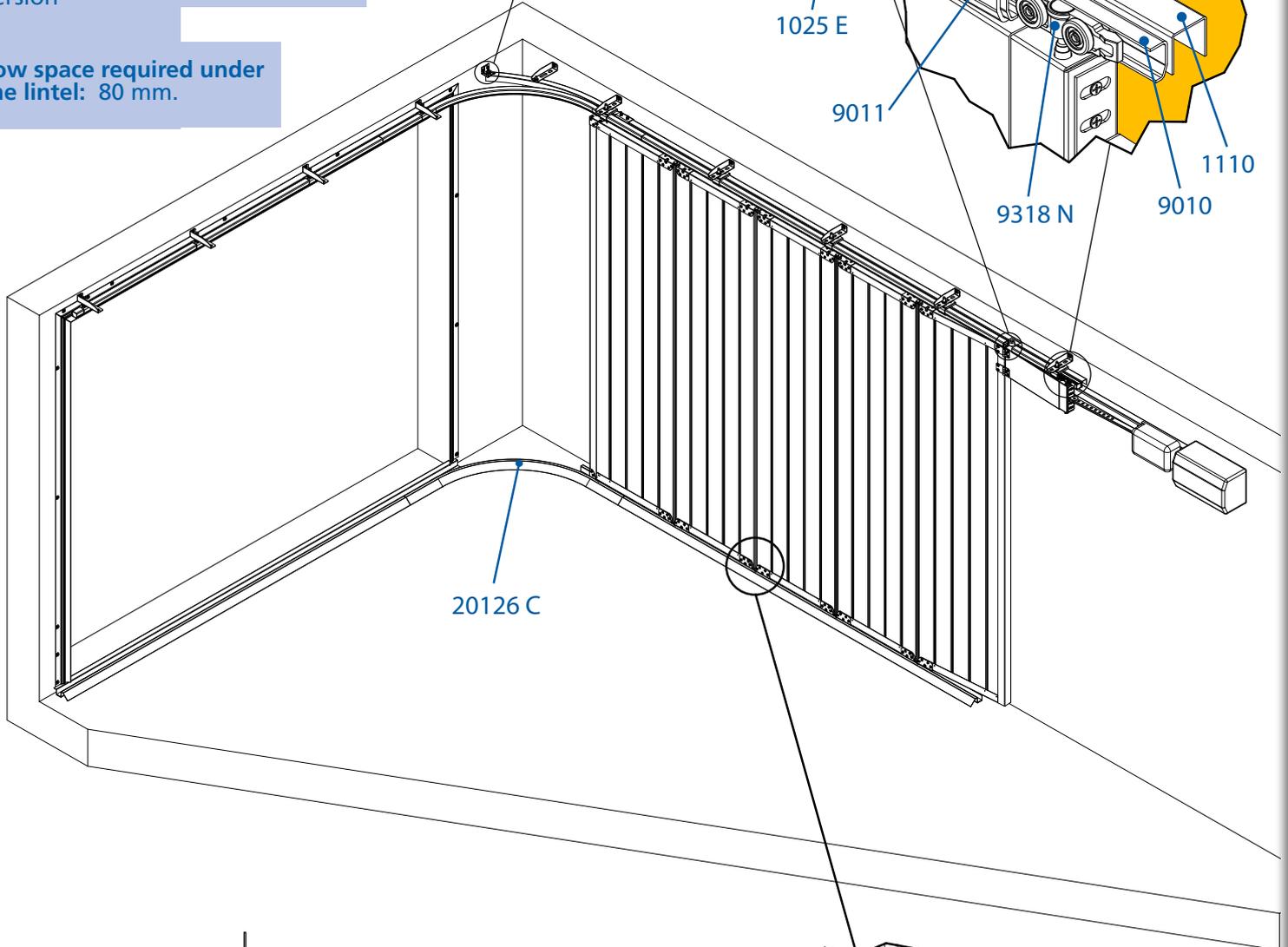
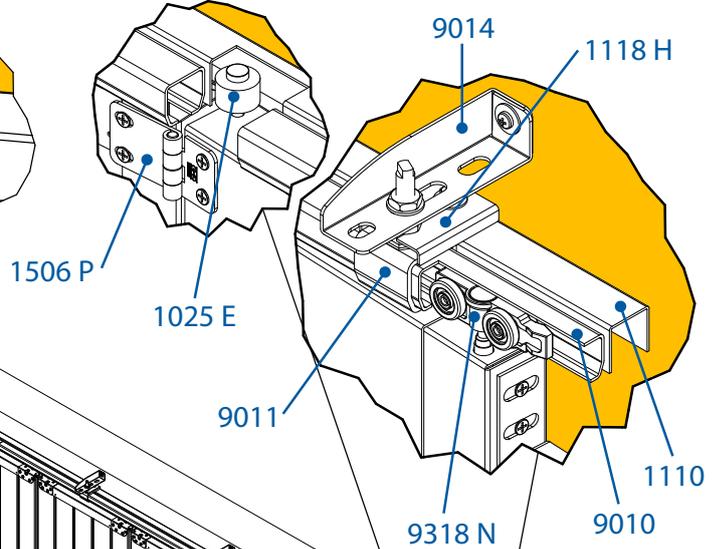
70 mm for the motorized version  
50 mm for the manual-operated version

Low space required under the lintel: 80 mm.

**Fixing of the curve end**



**Control arm**



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.

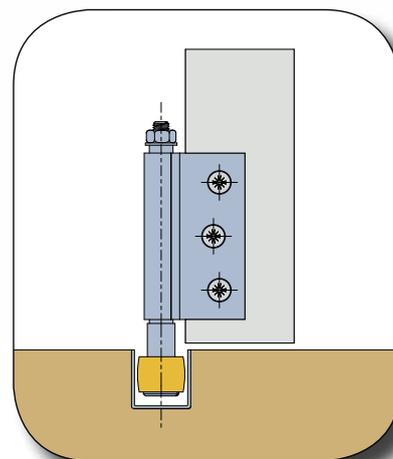
Place a complementary bracket on the push back side

The axle 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:



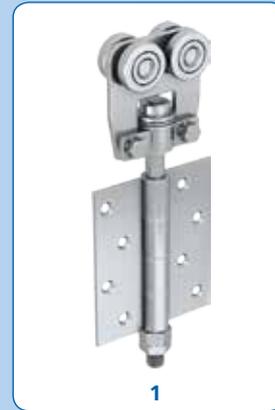
# ***Sliding systems for FOLDING doors with equal panels***

## ***9500 Series***



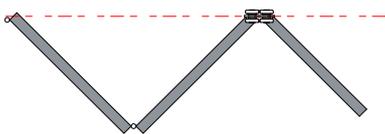
<b><i>With screwing hinges</i></b>	<b><i>36-37</i></b>
<b><i>With welding hinges</i></b>	<b><i>38-39</i></b>
<b><i>With angle plates</i></b>	<b><i>40-41</i></b>

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)	

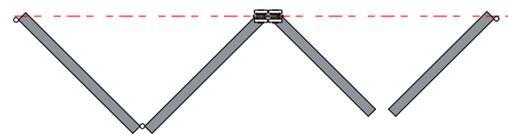


## EXAMPLES OF ASSEMBLY:

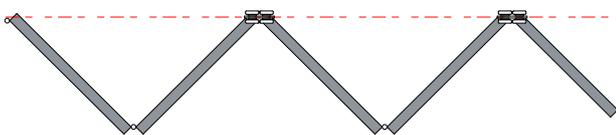
2 panels and 1 service door



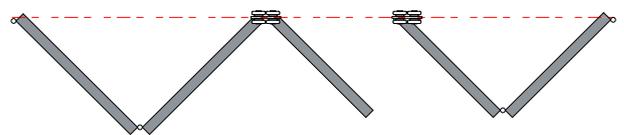
2 panels and 1 service door + 1 panel



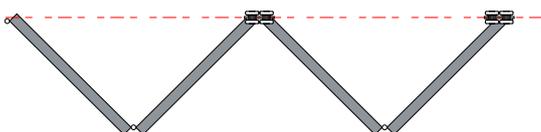
4 panels and 1 service door



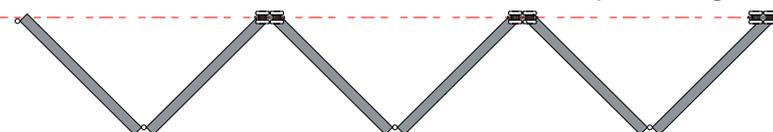
2 panels and 1 service door + 2 panels together

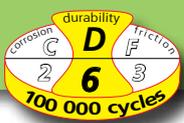


4 panels together

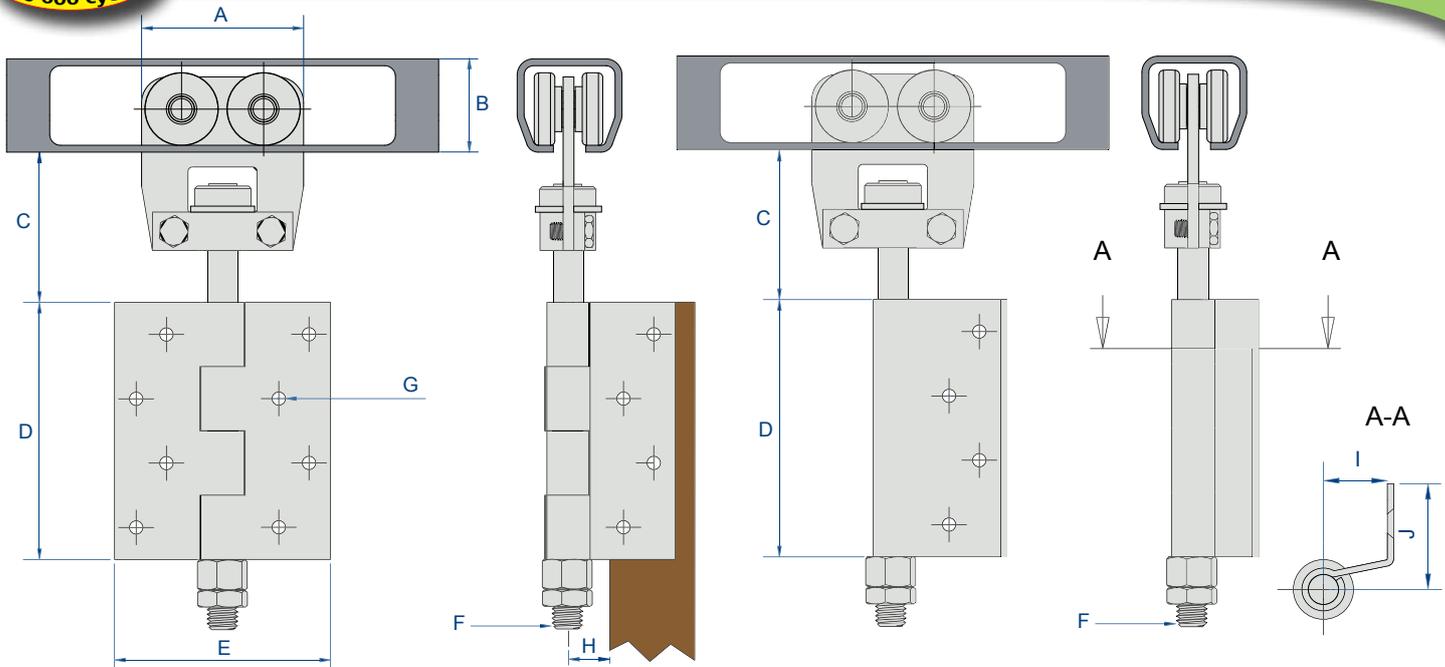


6 panels together





# 9500 Series screwing type



Intermediate hangers

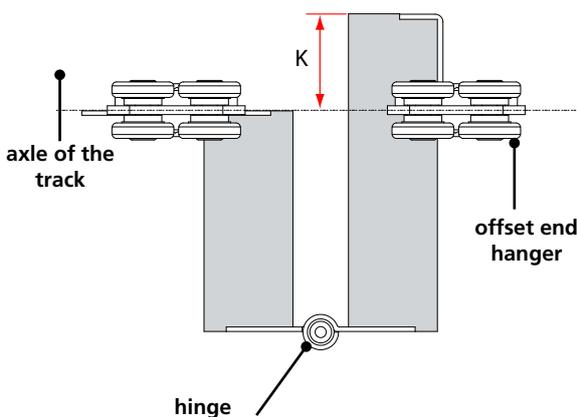
End hangers

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



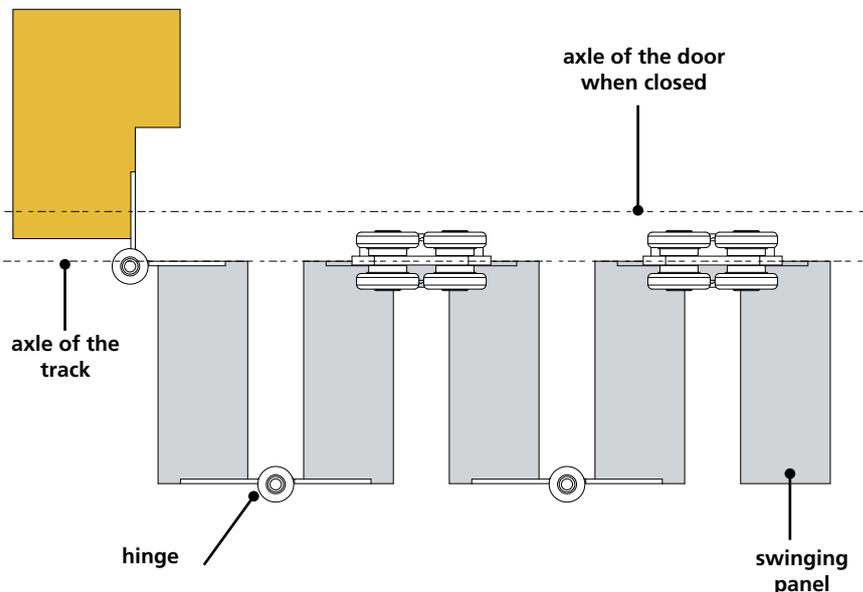
## CROSS SECTION, TOP VIEW:

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)	



## EXAMPLES OF ASSEMBLY:

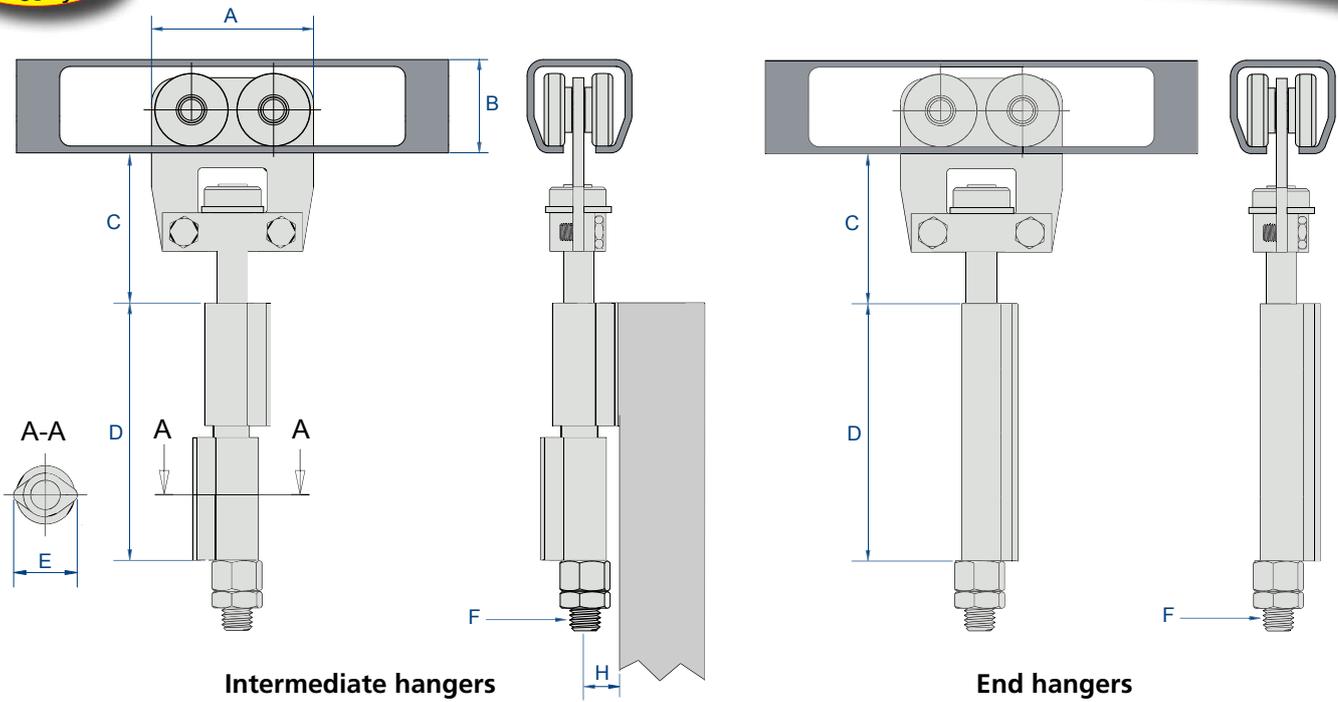
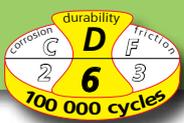
See on p. 36

**DID YOU KNOW ?**



### 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.

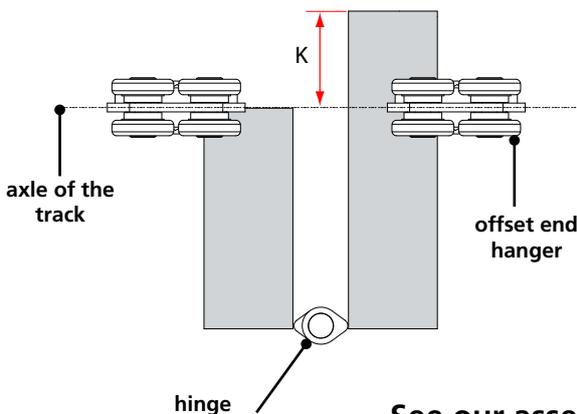


Item Nr	A	B	C		D	E	F	H
			Min.	Max.				
9512 SO	50	28	40	60	80	22	M 10	11
9512 SOE								
9532 SO	62	35	49	69	85	24	M 12	12
9532 SOE								
9542 SO	75	43.5	60	92	120	30	M 14	15
9542 SOE								
9552 SO	100	60	121	146	120	34	M 16	17
9552 SOE								
9562 SO	124	75	118	144	120	34	M 16	17
9562 SOE								

## 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

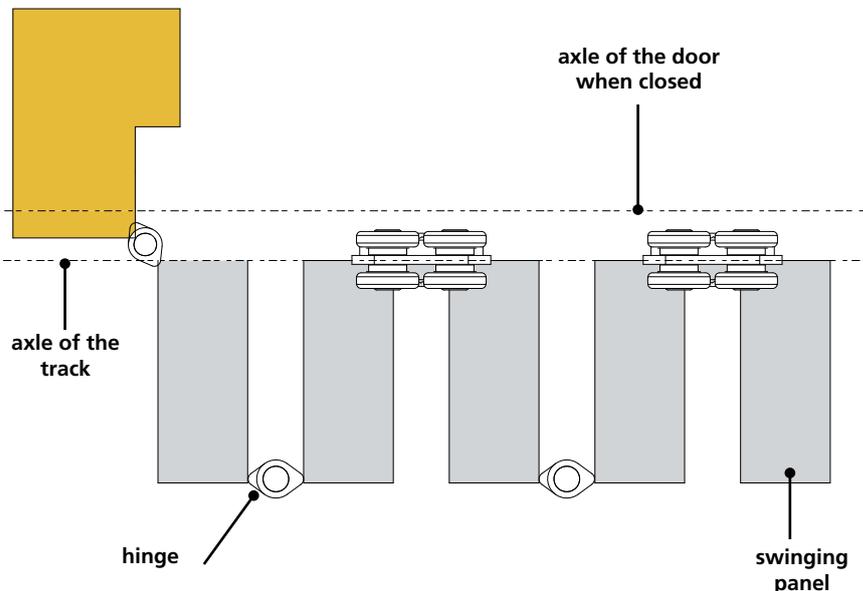


## CROSS SECTION, TOP VIEW:

**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 to 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 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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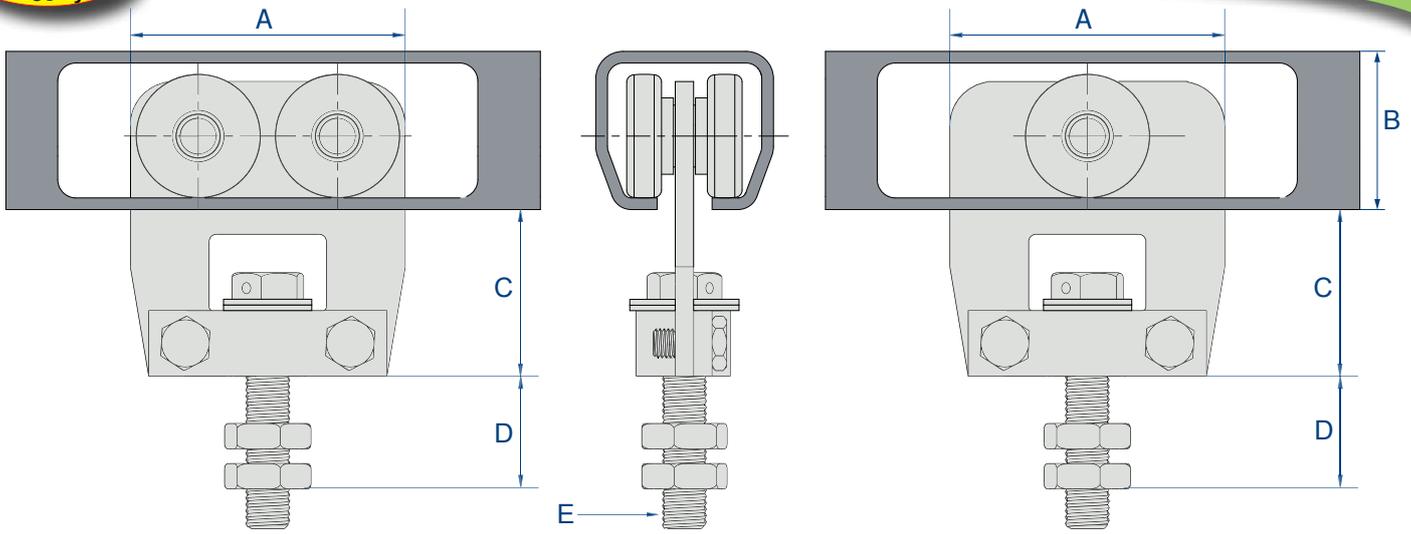
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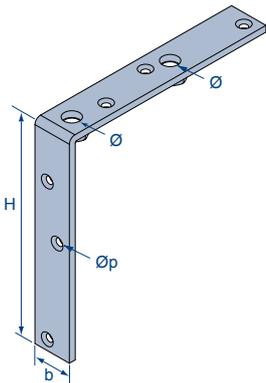


# 9500 Series angle plates

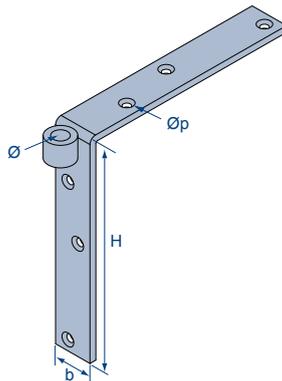


Item Nr	A	B	C	D Max.	Ø E
9613	50	28	34	33	M 10
9633	62	35	39	40	M 12
9643/16	75	43.5	45	47	M 16
9653/20	100	60	56	47	M 20

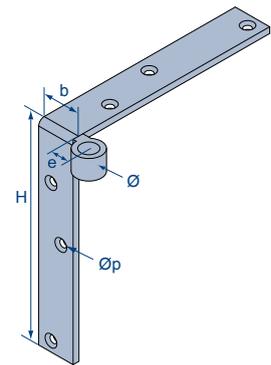
Item Nr	A	B	C	D Max.	Ø E
9611	50	28	34	33	M 10
9631	62	35	39	40	M 12
9641/16	75	43.5	45	47	M 16
9651/20	100	60	56	47	M 20



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

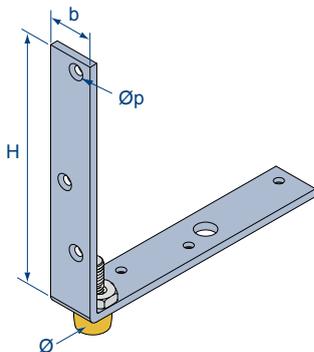


Item Nr	H	b	Ø	Øp
9614 GW	120	20	M 10	4.8
9634 GW	160	30	M 12	5.5
9644 GW	200	35	M 16	7
9654 GW	260	40	M 20	8

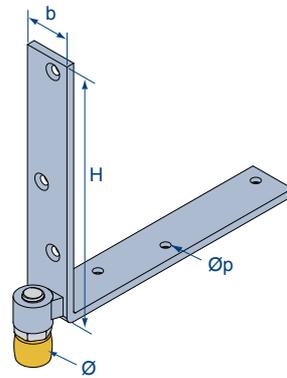


Item Nr	H	b	e	Ø	Øp
9614 HWR	120	20	12	M 10	4.8
9634 HWR	160	30	13	M 12	5.5
9644 HWR	200	35	16	M 16	7
9654 HWR	260	40	32	M 20	8

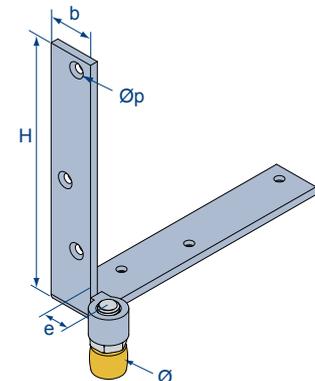
For the left versions: replace the R at the end of the Item Nr by a L



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 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	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.

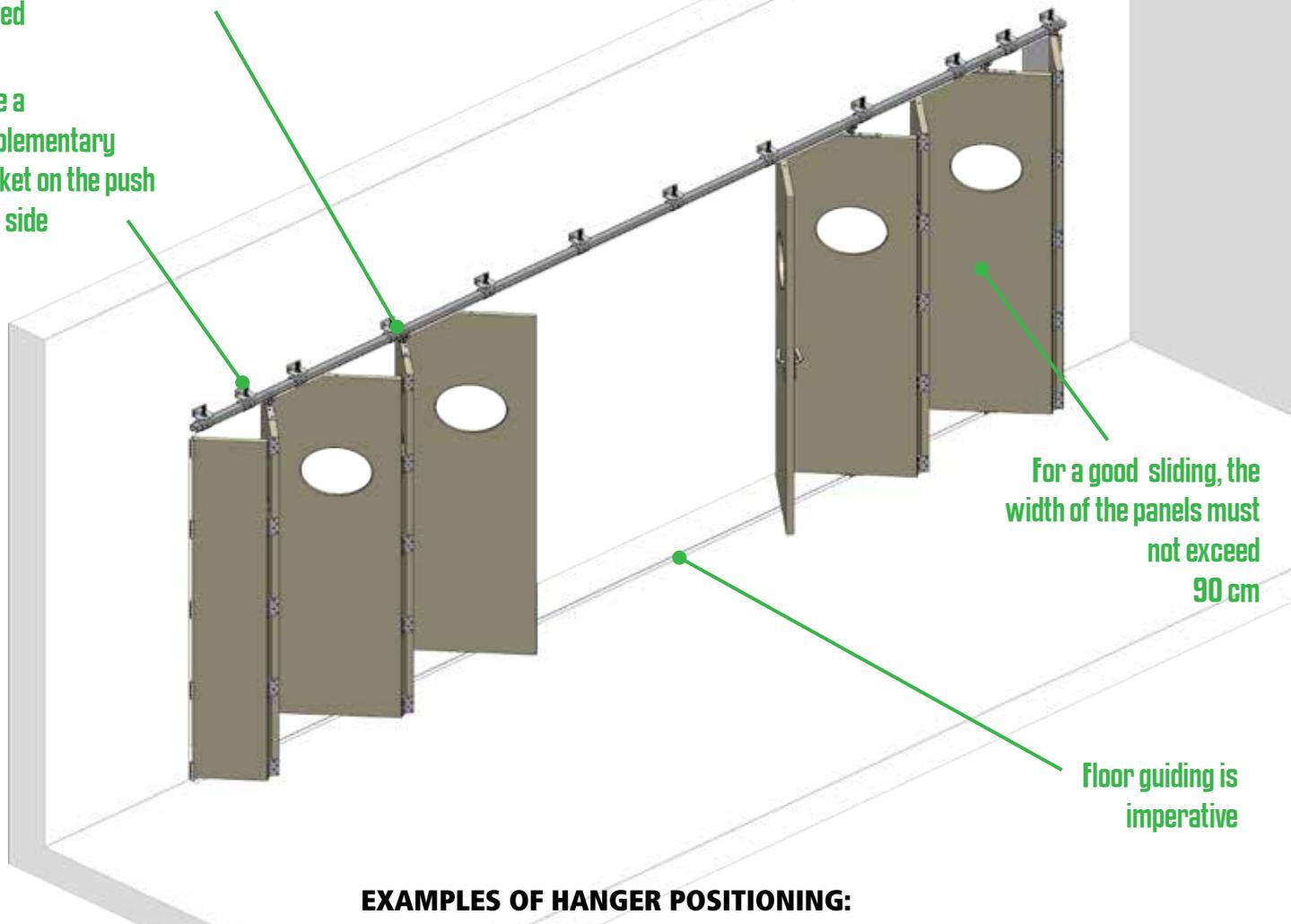
**TRACK:** 9010 to 9060

**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 axle of the upper hangers and of the bottom guides must be perfectly aligned

Place a complementary bracket on the push back side



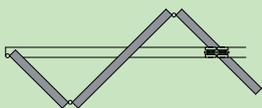
For a good sliding, the width of the panels must not exceed 90 cm

Floor guiding is imperative

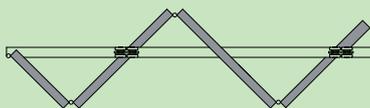
### EXAMPLES OF HANGER POSITIONING:

#### For doors without a folding panel:

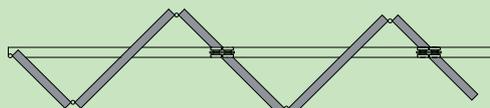
2 panels 1/2



3 panels 1/2



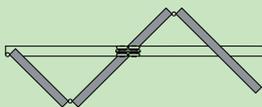
4 panels 1/2



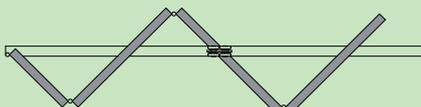
Fix the first hanger in the middle of the first panel starting without the side opposite to the frame, and then a hanger every second panel.

#### For doors with a folding panel:

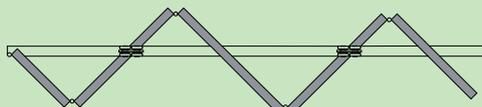
2 panels 1/2



3 panels 1/2



4 panels 1/2



Fix the first hanger in the middle of the first panel preceding 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
0036	3	Top-fixing screwing plate - Ø M10	
0037	6	Side-fixing screwing plate - Ø M10	
0031	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	Jointing 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
0056	3	Top-fixing screwing plate - Ø M12	
0051	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	Jointing 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
0066	4	Top-fixing screwing plate - Ø M14	
0061	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	Jointing 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
0086	4	Top-fixing screwing plate - Ø M16	
0081	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	Jointing 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
0086	4	Top-fixing screwing plate - Ø M16	
0081	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	Jointing bracket for U profile 50 x 60	



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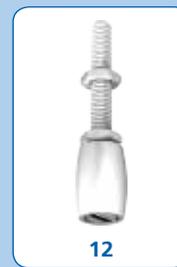
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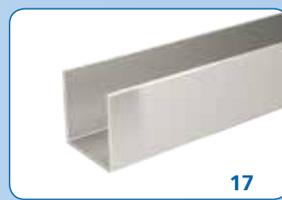
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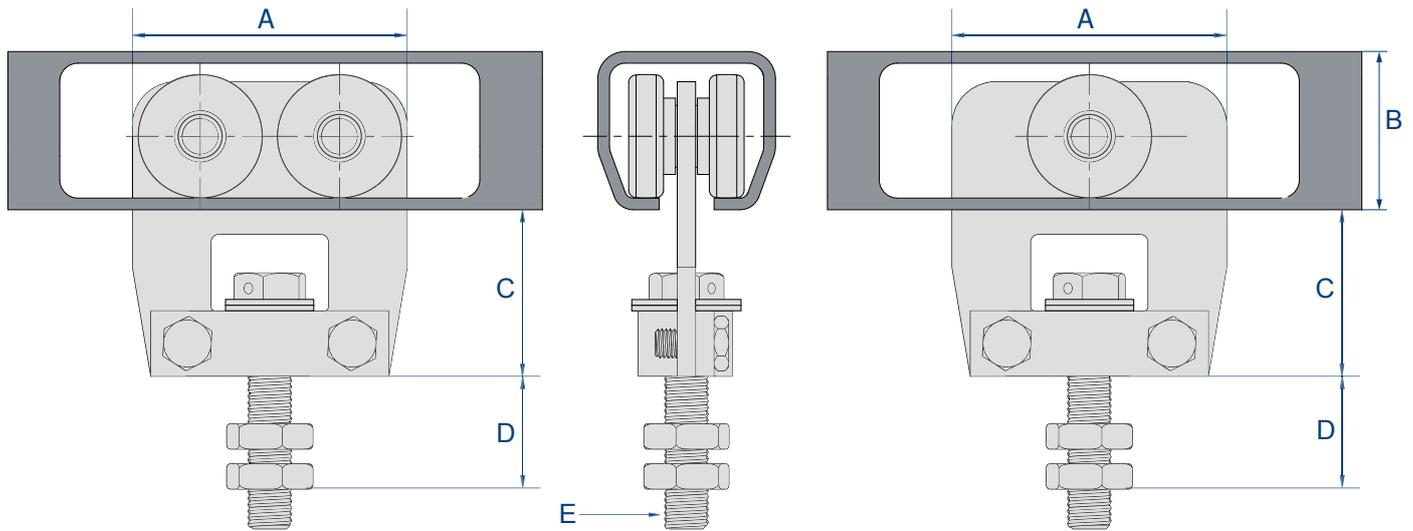
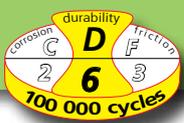
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Item Nr	A	B	C	D max.	Ø E
9613	50	28	34.5	33	M 10
9633	62	35	39	40	M 12
9643	75	43.5	45.5	37	M 14
9653	100	60	56	37	M 16
9663	124	75	59	37	M 16

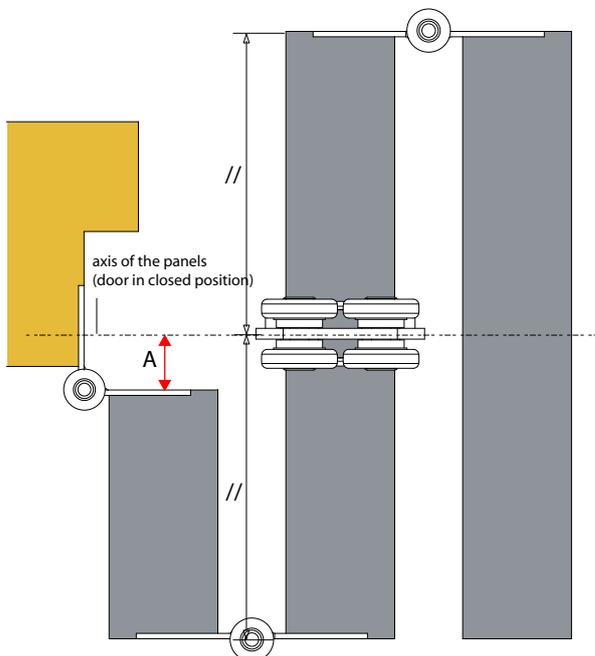
Item Nr	A	B	C	D max.	Ø E
9611	50	28	34.5	33	M 10
9631	62	35	39	40	M 12
9641	75	43.5	45.5	37	M 14
9651	100	60	56	37	M 16
9661	124	75	59	37	M 16

## IMPORTANT RECOMMENDATION:

A = distance between the middle of the thickness of the half-panel and the axle 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:

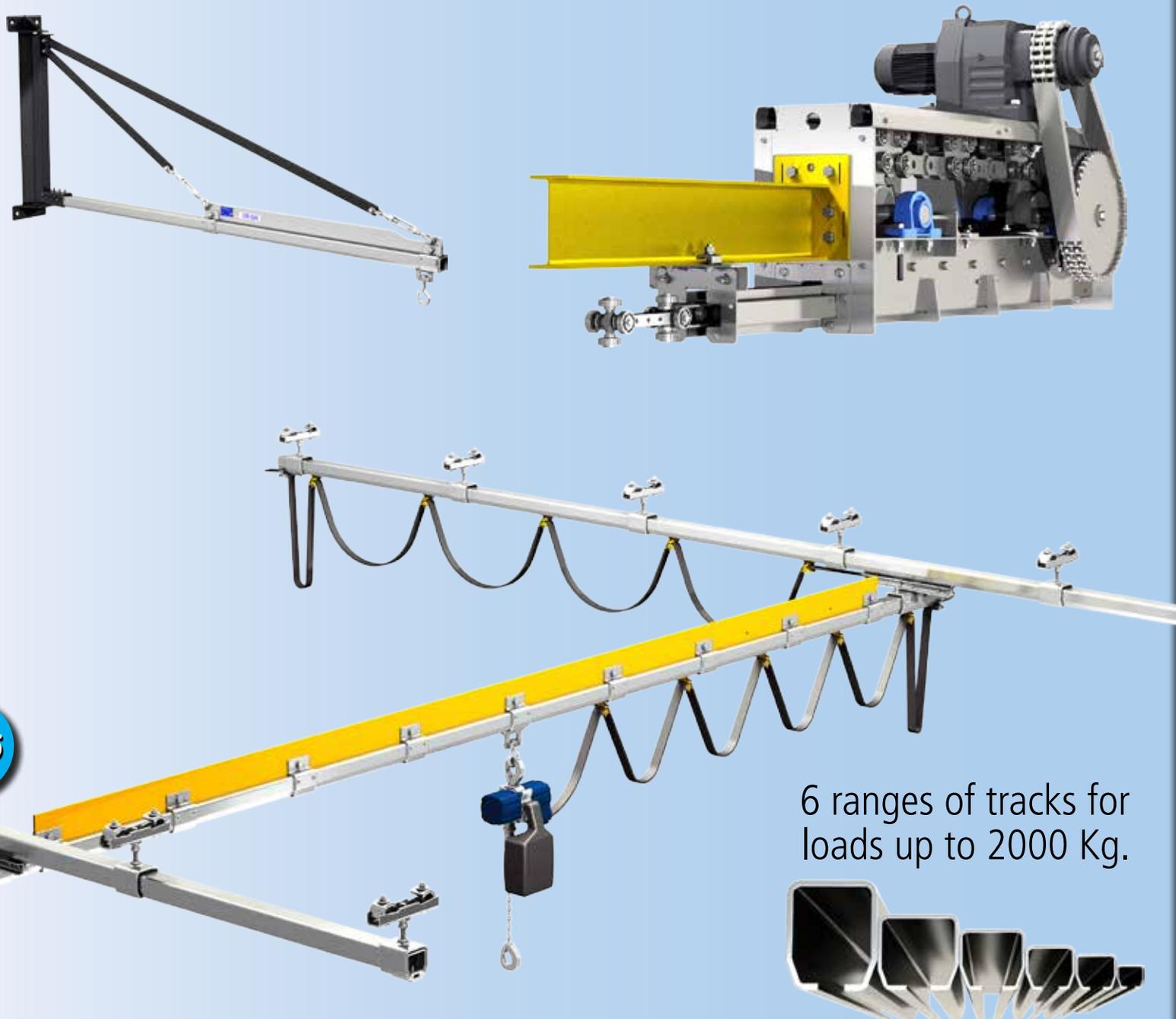
$$\text{Width of 1 panel} = \frac{2 \times \text{width of the opening} + 2 \times \text{the dimension A}}{2 \times \text{number of standard panels} + 1}$$

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

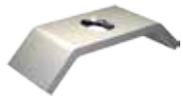
**SPECIAL ITEMS****46**

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.**



## 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		



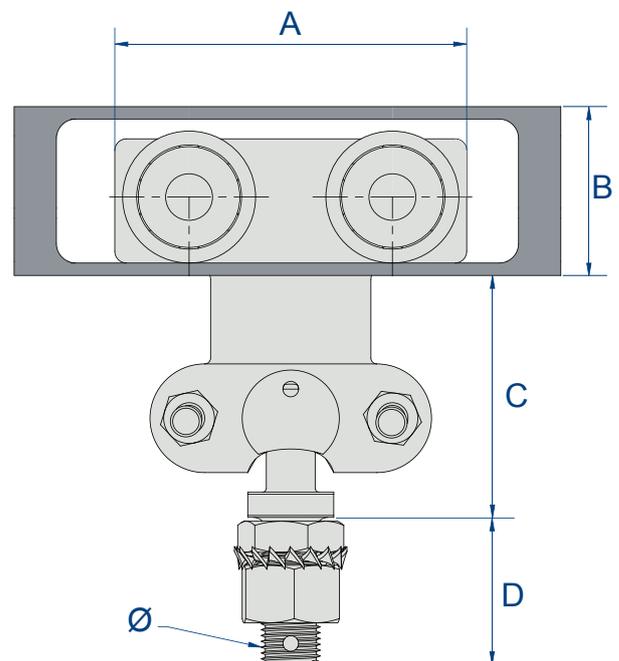
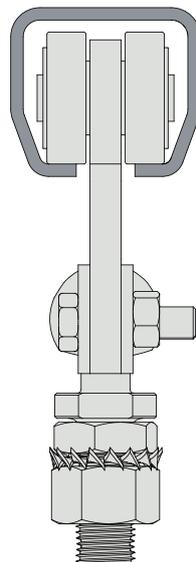
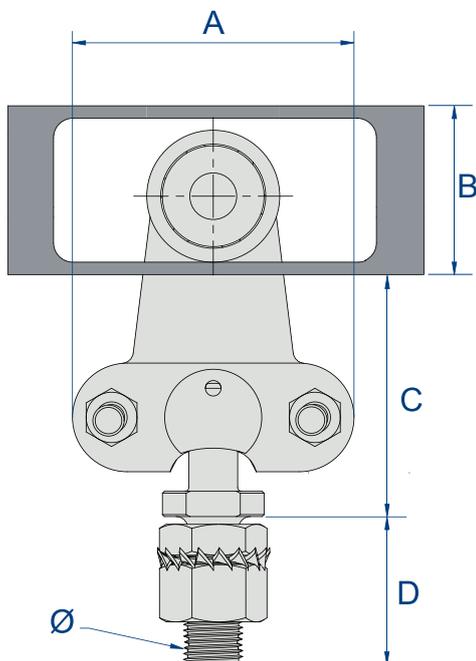
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Item Nr	A	B	C	D	Ø
9831 RT	68	35	71	32	M 12
9841 RT	72	43.5	82	41	M 16
9851 SRT	98	60	114	50	M 20
9861 SRT	120	75	132	65	M 24



2

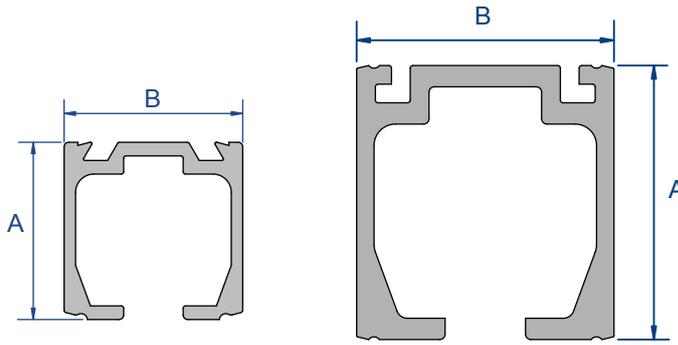
Item Nr	A	B	C	D	Ø
9832 RT	67	35	71	33	M 12
9842 RT	90	43.5	82	41	M 16
9852 SRT	112.5	60	114	50	M 20
9862 SRT	120	75	132	65	M 24



FOR DOORS OF 60 Kg			Track: 10108
Item Nr	Fig.	Description	
10100/600	1	Aluminium track 32.4 x 30.5 - 6 m long.	6
9212 N	3	Hanger with swanneck, 4 wheels mounted on ball bearings with Nylon binding - axle: Ø M10	2
9215 N	4	Ditto with removable collar - axle: Ø M10	2
0036	5	Screwing plate, top-fixing Ø M10	
0031	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
10300/600	1	Aluminium track 39 x 39 - 6 m long.	6
9232 N	3	Hanger with swanneck, 4 wheels mounted on ball bearings with Nylon binding - axle: Ø M12	2
9235 N	4	Ditto with removable collar - axle: Ø M12	2
0056	5	Screwing plate, top-fixing Ø M12	
0055	7	Welding plate, side-fixing Ø 13	
0051	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. (also available in 4m & 5m)	
9242 N	3	Hanger with swanneck, 4 wheels mounted on ball bearings with Nylon binding - axle: Ø M14	2
9245 N	4	Ditto with removable collar - axle: Ø M14	2
0066	6	Screwing plate, top-fixing Ø M14	
0065	7	Welding plate, side-fixing Ø 15	
0061	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. (also available in 4m & 5m)	
9252 N	3	Hanger with swanneck, 4 wheels mounted on ball bearings with Nylon binding - axle: Ø M16	2
9255 N	4	Ditto with removable collar - axle: Ø M16	2
0086	6	Screwing plate, top-fixing Ø M16	
0085	7	Welding plate, side-fixing Ø 17	
0081	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, 4 wheels mounted on ball bearings with Nylon binding - axle: Ø M16	2
9265 N	4	Ditto with removable collar - axle: Ø M16	2
0086	6	Screwing plate, top-fixing Ø M16	
0085	7	Welding plate, side-fixing Ø 17	
0081	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
10100	32.4	30.5
10300	39	39



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

Fig.	Dim.	10100/600	10300/600	10400/600	10500/600	10600/600
			10013 *	10033 *	10043 **	10053 **
	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		
10100/600	9010	9212 N	9215 N	30 kg/hanger
10300/600	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	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	Galvanised track 9040 - 3 m long	x 2
1110/300	17	U profile 30 x 30 - 3 m long	x 1

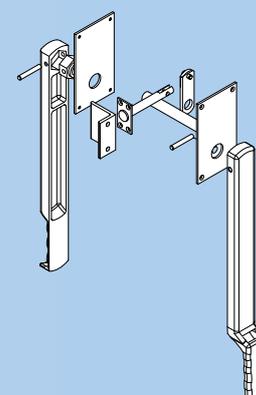
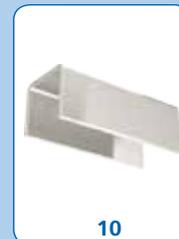
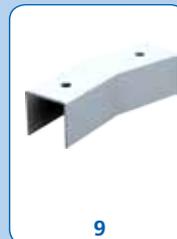
## FOR DOORS OF 400 KG MAX.

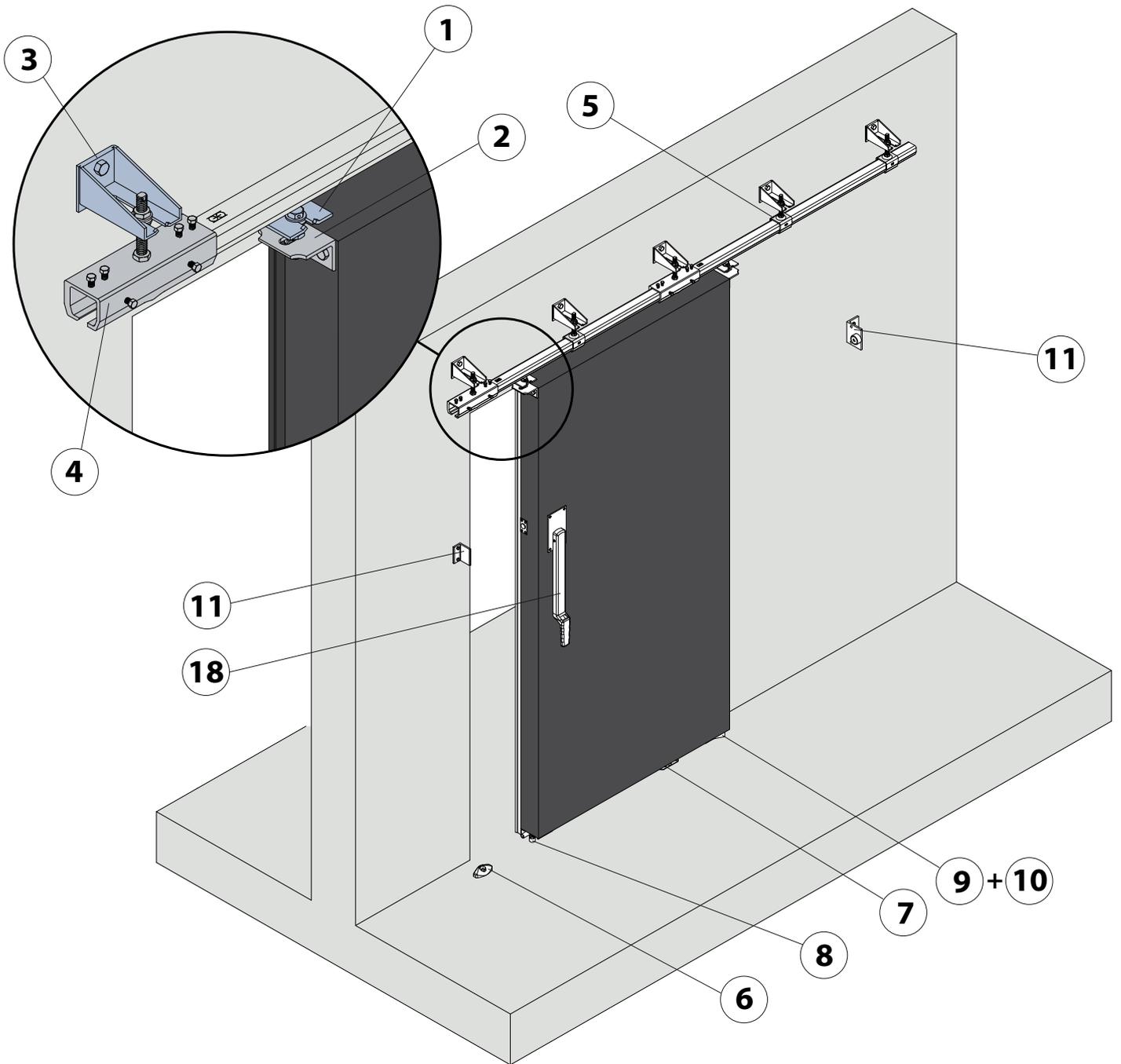
9251 SAS/1	SET OF FITTINGS FOR 1 DOOR, including:		
9251 S	1	Hanger with swanneck with steel wheels mounted on ball bearings - axle: Ø M16	x 2
9043	2	Angle plate, screwing type	x 2
9051 MDL	4	Inclination and bending bracket for track 9050	x 2
1012 N	6	Half shoe guide in Nylon, screwing type	x 1
1099	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		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 52)	

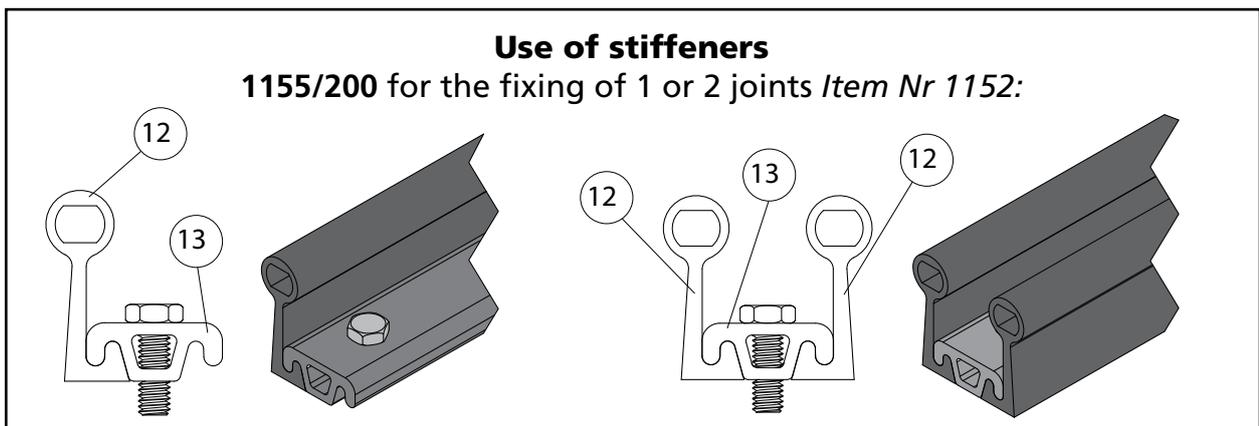
1291	18	Double handle, common to all versions	1
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### DIMENSIONAL STRESS:

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



## 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 C	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	

TRACK	9010	9030	9040	9050	9060 / 9070
Ornamental stop	9118	9138	9148	9158	
Track stop		9139	9149	9159	9169

see dimensions on p. 8



**Tubular tracks**



**Tubular track curve**



**U profile**



**U profile curve**



**Ornamental stop**



**Track stop**

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).

## 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.

## "MAGNESIUM ZINC" : THE MANTION ADVANTAGE

In the building industry, most products have a Z275 zinc protection. For optimal quality, all the Mantion profiles are coated with magnesium zinc (without chromium) in order to preserve all the qualities to all weather. Number of hours of resistance to salt spray and red rust: 800 h !!

## 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:

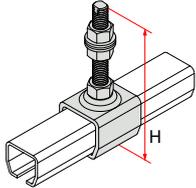
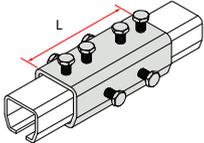
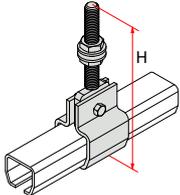
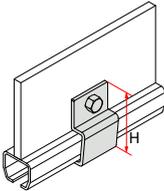
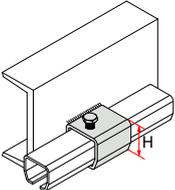
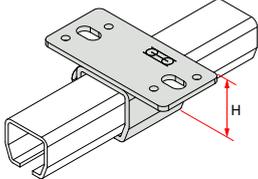
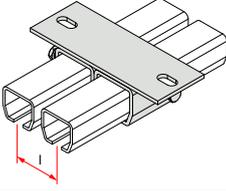
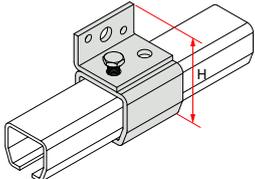
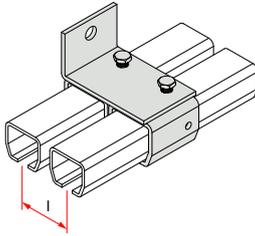
Mantion, which always focuses on the quality of its products, has one of the biggest test laboratories for sliding systems in Europe. 5 test stands enable Mantion to assay the endurance of all its sliding systems in order to comply with the requirements of the ISO 9001 standard.

## TRACKS AND CURVES IN SPECIAL LENGTHS:

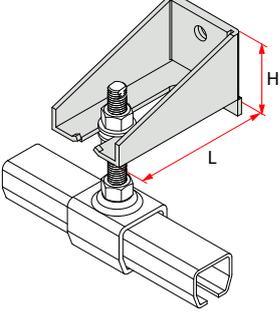
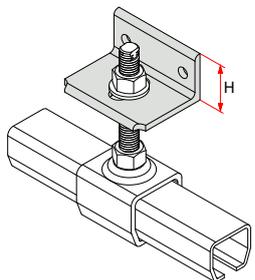
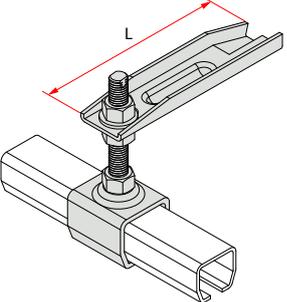
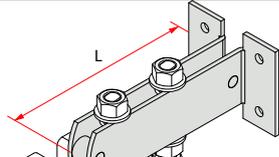
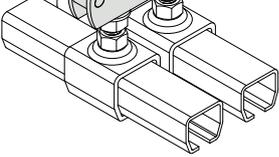
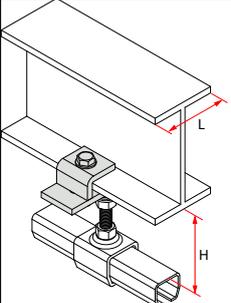
Mantion offers you the possibility to order tracks and special curves cut at the required length. Contact us.

## MANTION'S SERVICE on [www.mantion.com](http://www.mantion.com)

On [www.mantion.com](http://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	<b>9011 L</b> H = 131 M 10	<b>9031 L</b> H = 155 M 14	<b>9041 L</b> H = 164 M 14	<b>9051 L</b> H = 207 M 20	<b>9061 L</b> H = 222 M 20	<b>9071 L</b> H = 320 M 30	
	Jointing bracket	<b>9011 M</b> L = 90	<b>9031 M</b> L = 115	<b>9041 M</b> L = 135	<b>9051 M</b> L = 160	<b>9061 M</b> L = 205	<b>9071 M</b> L = 220	
	Clamping bracket with normal rod.		<b>9032</b> H = 189 M 14	<b>9042</b> H = 198 M 14	<b>9052</b> H = 249 M 20	<b>9062</b> H = 265 M 20	<b>9072</b> H = 390 M 30	
	Ditto without fixing rod	<b>9012 N</b> H = 65	<b>9032 N</b> H = 80	<b>9042 N</b> H = 94.5	<b>9052 N</b> H = 117	<b>9062 N</b> H = 140	<b>9072 N</b> H = 180	
	Bracket Welding type	<b>9018</b> H = 36	<b>9038</b> H = 43	<b>9048</b> H = 53	<b>9058</b> H = 79	<b>9068</b> H = 96	<b>9078</b> H = 134	
	Top-fixing bracket Screwing type	<b>9018 H</b> H = 39	<b>9038 H</b> H = 47	<b>9048 H</b> H = 59	<b>9058 H</b> H = 86	<b>9068 H</b> H = 106	<b>9078 H</b> H = 146	
	Ditto - double		<b>9038 H2</b> l = 50	<b>9048 H2</b> l = 60	<b>9058 H2</b> l = 85			
	Bracket Wall fixing	<b>9018 V</b> H = 61	<b>9038 V</b> H = 71	<b>9048 V</b> H = 93	<b>9058 V</b> H = 129	<b>9068 V</b> H = 156	<b>9078 V</b> H = 204	
	Ditto - double		<b>9038 V2</b> l = 50	<b>9048 V2</b> l = 60	<b>9058 V2</b> l = 85			

All accessories are white galvanised

		TRACK	Item Nr	H		L		Ø drilling
				Min.	Max.	Min	Max.	
 Wall fixing angle plate		9030	9046 CFC	60		35	60	Ø12.5
		9040	9046 CFC	60		35	60	Ø12.5
		9050	9056 CFC	60		40	65	Ø16.5
		9030	9046 CF	60		32	110	Ø12.5
		9040	9046 CF	60		32	110	Ø12.5
		9050	9056 CF	60		40	105	Ø16.5
		9060	9066	70		33	90	Ø20
		9070	9076	80		45	85	Ø21
		9030	9046 CFL	60		35	130	Ø12.5
		9040	9046 CFL	60		35	130	Ø12.5
9050	9056 CFL	60		40	135	Ø16.5		
9060	9066 L	70		33	150	Ø20		
 Angle plate - Screwing type		9010	9013	40		18	30	2x Ø6.5
		9030	9033	40		26	46	2x Ø9
		9040	9043	50		30	50	2x Ø11
		9050	8573 S	70		42	62	2x Ø12.5 + Ø16.5
		9060	8573 S	70		42	62	2x Ø12.5 + Ø16.5
 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	4x Ø6.5
		9030	6261	80		32	143	4x Ø8.5
		9040	6261	80		32	143	4x Ø8.5
		9050	8576	90		40	179	4x Ø10.5
		9060	8576 S	110		41	179	4x Ø10.5
 Adjustment plate - Screwing type		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	Pack.
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 up to 80 Kg	
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 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	10
1297	Handle on a 265 mm plate	10
1298	Handle made with buckled sheet - 245 mm	10

STOPS & BOLTS		
1301 TN	Catch stop, cataphoresis treated, screwing type. Standard version	10
1302	Catch stop, raw steel. Reinforced version	4
1310 N	Stopper in stainless steel «brush finish», Locking distance = 35 mm, height 140mm - width 40 mm	12
1311 N	Stopper in stainless steel «brush finish», Locking distance = 35 mm, height 160mm - width 30 mm	
1312 N	Stopper in ZAMAK, locking distance = 20mm, Height 135 mm - width 50 mm	
1314	Reinforced bolt with screwing plate Length: 300 mm - Ø 14 mm - adjustable nut	10
1314 E	Ditto with a narrow plate (23 mm) Length: 300 mm - Ø 14 mm - adjustable nut	
1314 EF	Fixation kit with insert for 1314E and 1316E	
1314 SO	Ditto, welding type - Length: 300 mm - Ø 14 mm	10
1314 GE	Keeper of bolt, mortising type for 1314 and 1314 SO	
1314 GP	Keeper of bolt for 1314 and 1314 SO	
1316	Reinforced bolt with screwing plates Length: 500 mm - Ø 16 mm - adjustable nut	10
1316 E	Ditto with a narrow plate (23 mm) Length: 500 mm - Ø 16 mm - adjustable nut	
1316 SO	Ditto welding type - Length: 500 mm - Ø 16 mm	10
1316 GE	Keeper of bolt, mortising type for 1316 and 1316 SO	
1316 GP	Keeper of bolt for 1316 and 1316 SO	
1316 B	Bolt with padlock holder, case in cast iron, cane and keeper in steel. Weight: 660 gr. - Ø 16 mm	10

SEALING BRUSH		
1150/105	Sealing brush, packed in individual plastic bags Length = 1.05 m. Total height = 35 mm - Height of the brush = 15 mm	10

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



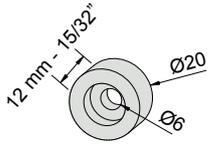
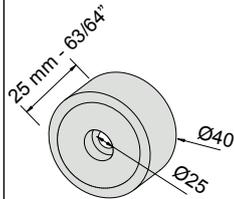
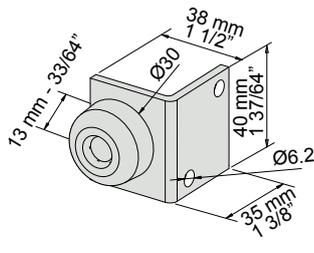
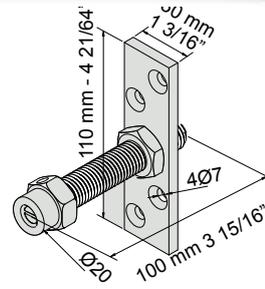
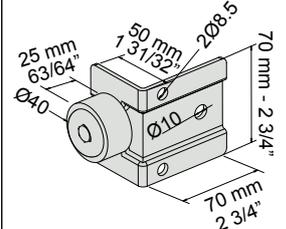
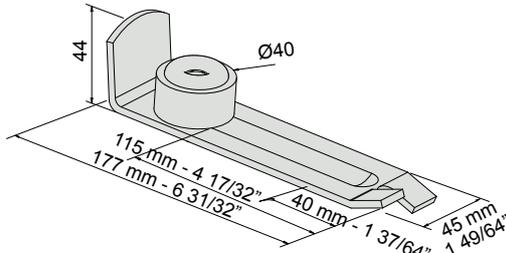
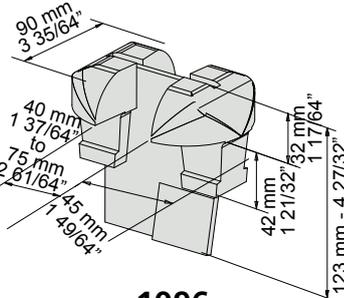
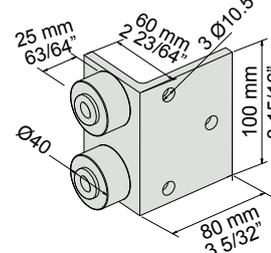
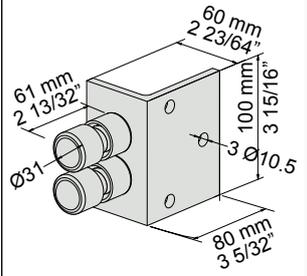
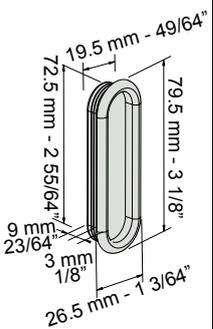
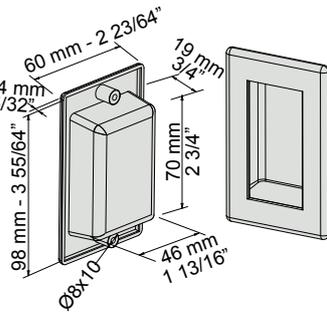
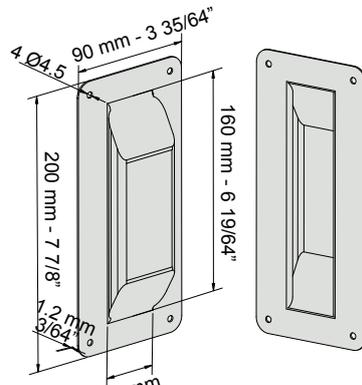
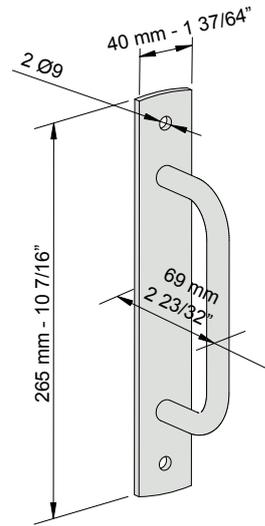
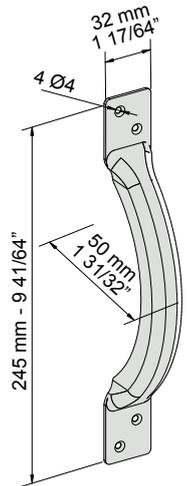
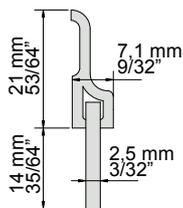
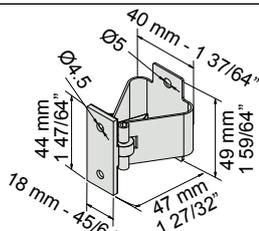
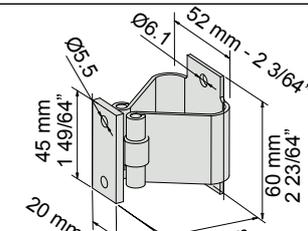
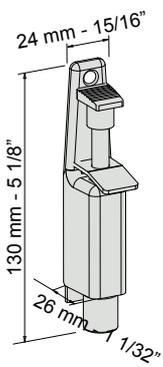
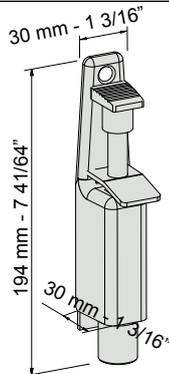
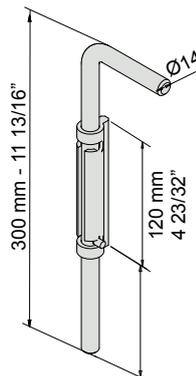
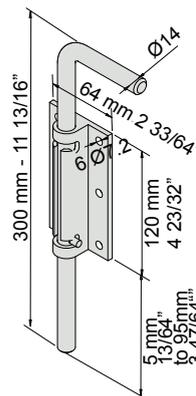
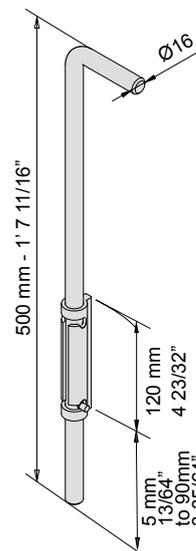
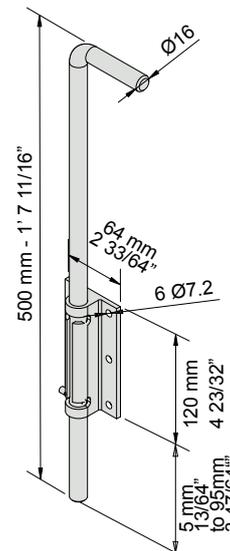
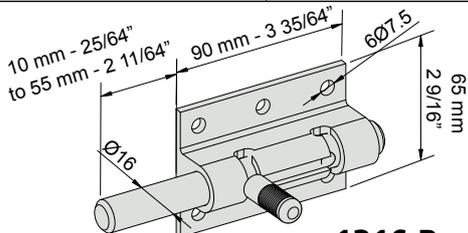
A sealing brush enables an efficient airtightness on the lateral and bottom parts of sliding doors.

1150/105

4090

4145 F

8145 F


**4023**

**2692**

**1086**

**1085**

**2091**

**1094**

**1096**

**2094**

**2095**

**1293**

**1296**

**1290**

**1297**

**1298**

**1150**

**1301 TN**

**1302**
**1297**
**1298**

**1308 N**

**1309 N**

**1314 SO**

**1314**

**1316 SO**

**1316**

**1316 B**

## BOTTOM GUIDES

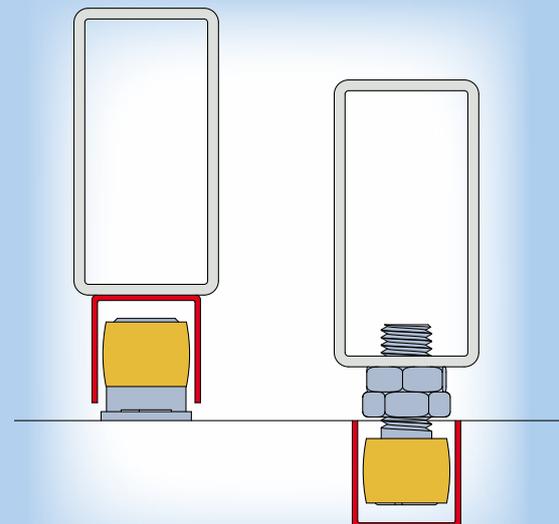
Item Nr	Description	
1090	Guide for vertical sealing with a zytel olive Ø 45 mm	10
1091	Guide for horizontal sealing with a zytel olive Ø 45 mm	4
1091 V	Adjustable guide with a zytel olive Ø 45 mm. Screwing type	4
1092	Guide for horizontal sealing with 2 zytel olives Ø 45 mm	6
1092 V	Adjustable guide with 2 zytel olives Ø 45 mm. Screwing type	6
1093	Zytel olive Ø 45 mm, height: 49.5 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	



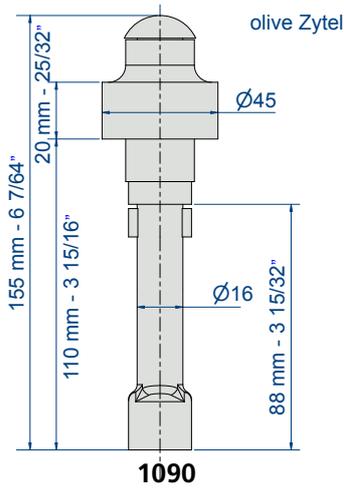
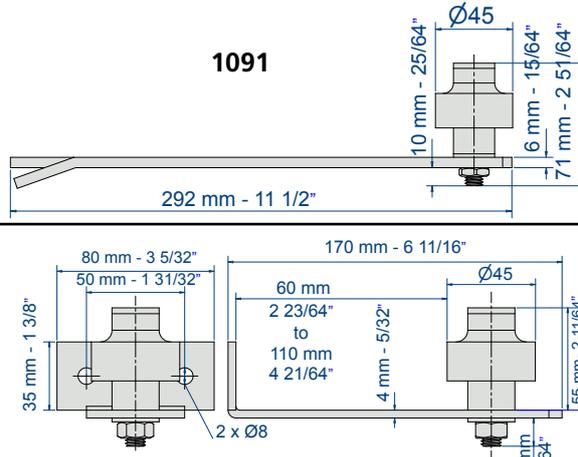
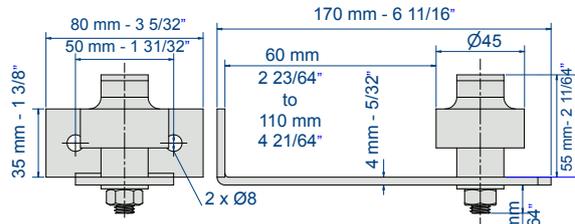
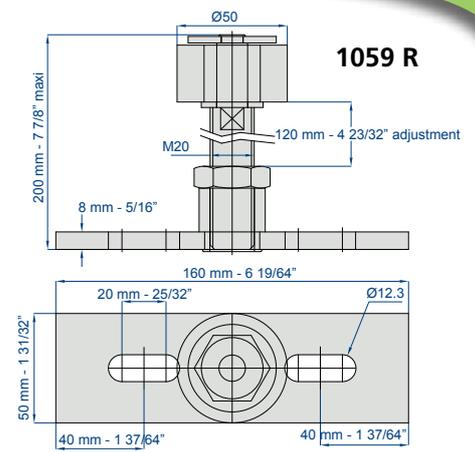
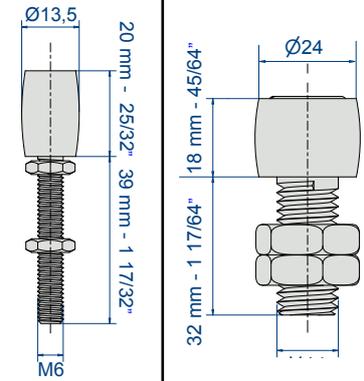
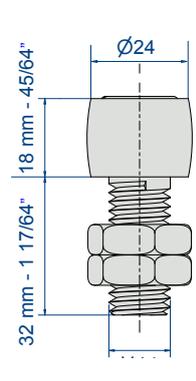
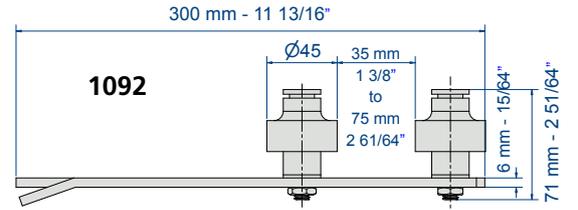
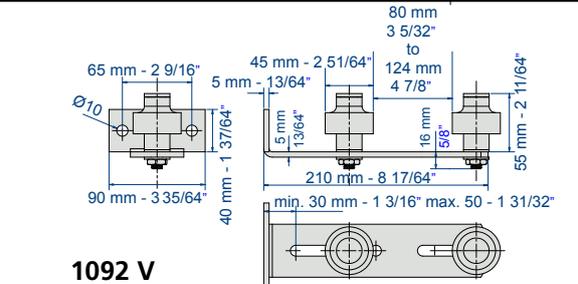
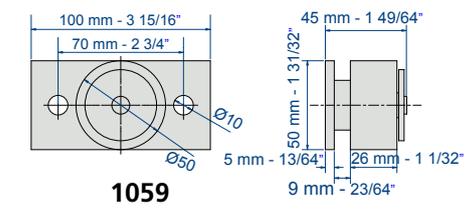
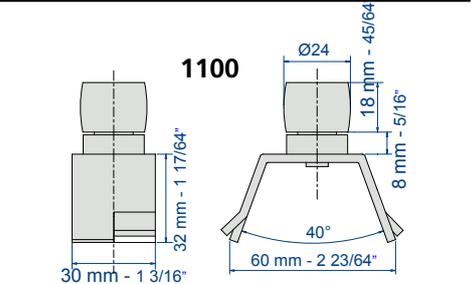
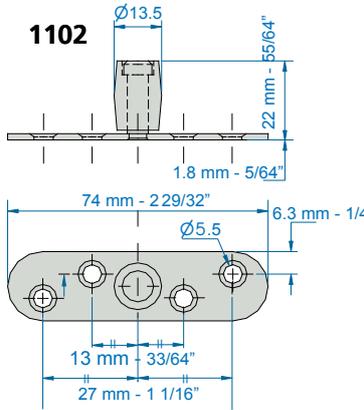
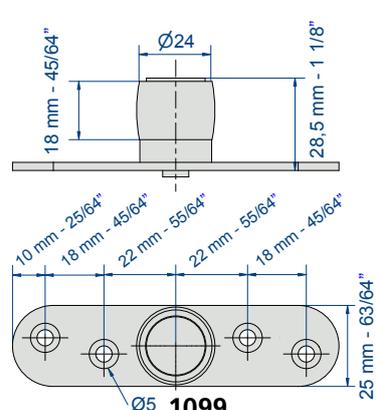
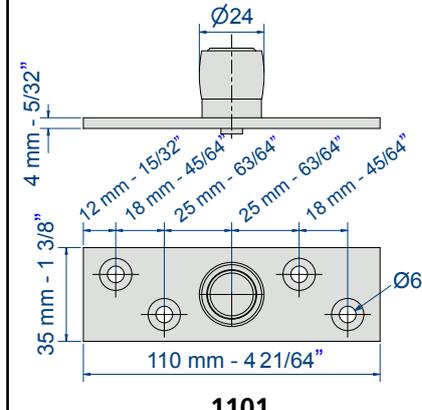
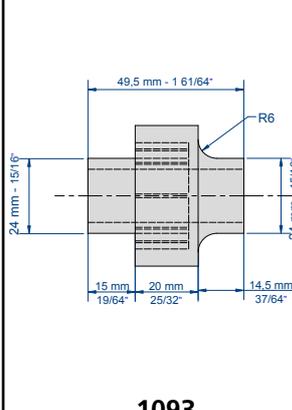
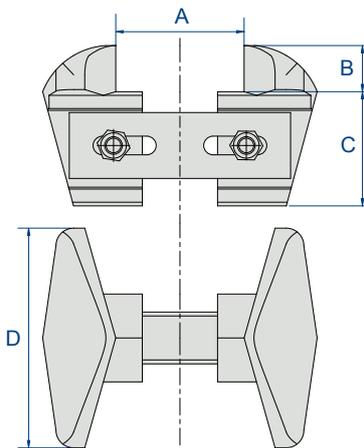
## HOW TO CHOOSE THE RIGHT GUIDE TO YOUR U-PROFILE?

### CHOICE OF THE GUIDE ACCORDING TO THE DOOR WEIGHT

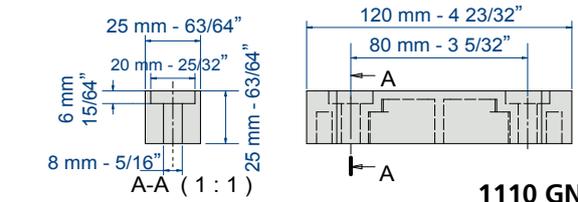
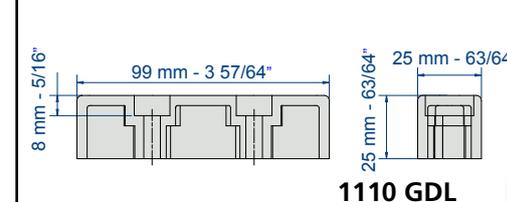
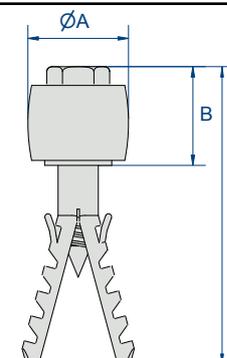
Door weight	U-profile	Recommended guides	
			
from 0 to 90 Kg	1109	1102 - 1109 DU	1088
from 90 to 180 Kg	1110	1099 - 1110 GN - 1110 DU	1089
from 180 to 400 Kg	1110	1101 - 1110 GN - 1110 DU	1089
from 400 to 900 Kg	1115	1059 - 1115 DU	1115 KW
from 900 to 2000 Kg	1115	1059	1115 KW
from 2000 to 3000 Kg	1115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



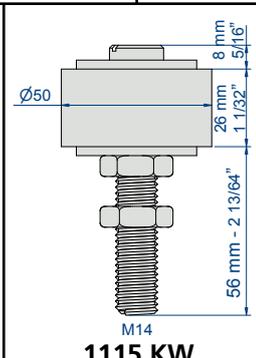
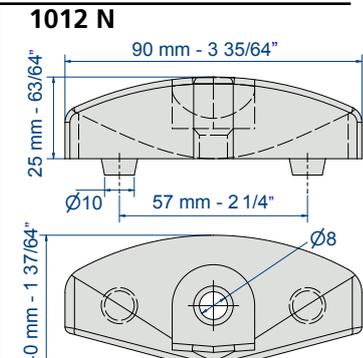
All U-profiles are available in 4 m, 5 m and 6 m length ( see on p. 52)


**1090**

**1091**

**1091 V**

**1059 R**

**1088**

**1089**

**1092**

**1092 V**

**1059**

**1100**

**1102**

**1099**

**1101**

**1093**


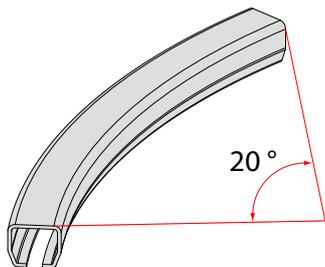
Ref.	A		B	C	D
	Min	Max			
1011	21	43	20	33	72
1014	27	70	22	54	100


**1110 GN**

**1110 GDL**


Ref.	ØA	B	C
1109DU	13.5	20	60
1110DU	24	18	72
1115DU	50	26	100

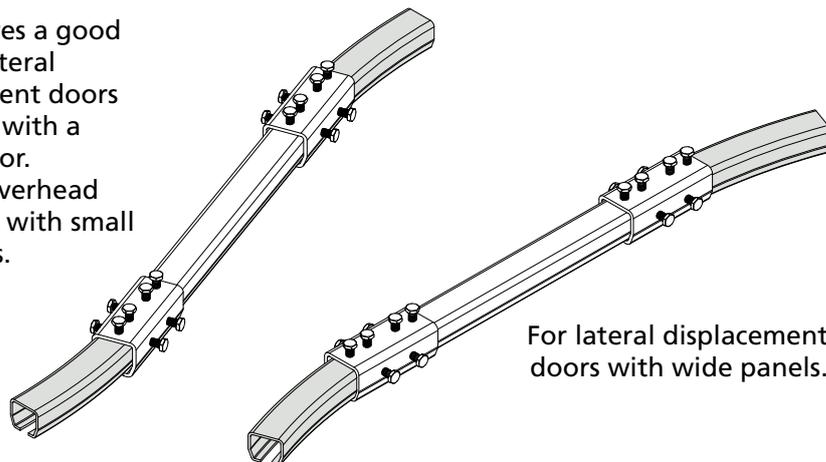

**1115 KW**

**1102 N**

## ASSEMBLY POSSIBILITIES OF THE CURVE SECTORS:

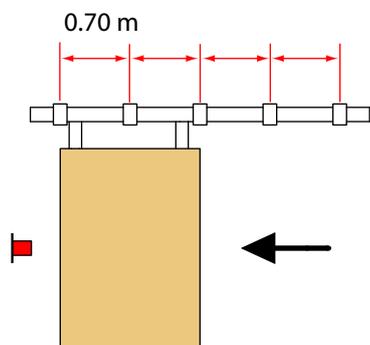


This ensures a good seal for lateral displacement doors equipped with a service door. Also for overhead conveyors with small deviations.

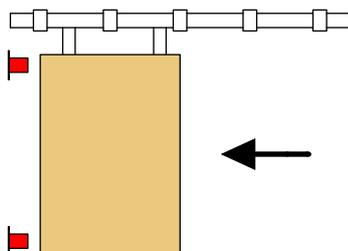
Curve sector		Radius
Track	Item Nr	
9010	9010 CS	500
9030	9030 CS	600
9040	9040 CS	600
9050	9050 CS	600
9060	9060 CS	800



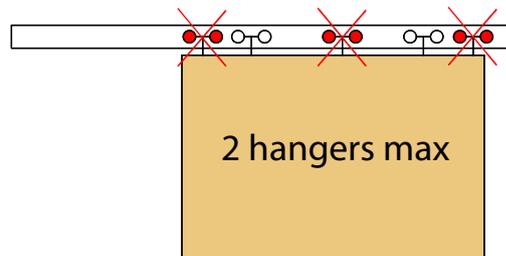
For lateral displacement doors with wide panels.



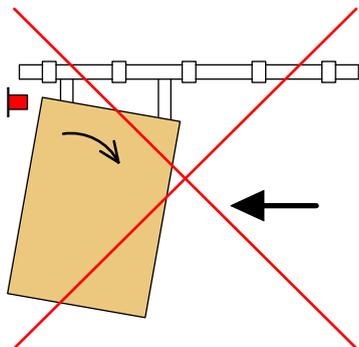
1 stop in the middle part



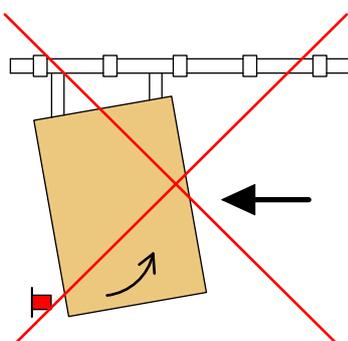
1 stop in the upper part  
1 stop in the lower part



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:

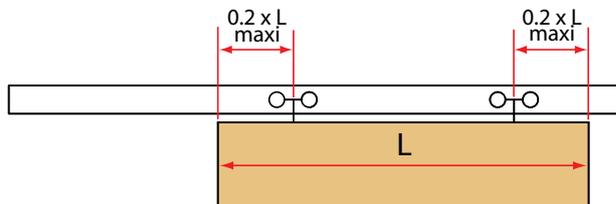
1 point: to be placed at mid-height of the door  
2 points: 1 stop at the upper part and 1 at the lower part.  
Other stop fixing positions are not recommended.

## 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.

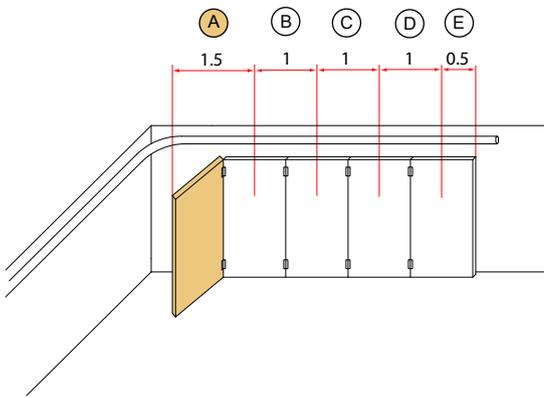
## POSITION OF THE HANGERS:

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:

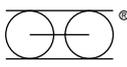
For any types of doors for which we do not offer aluminium tracks, we strongly recommend the use of galvanised profiles. Their dimensions depend on the hangers, selected according to the panels weight.



### 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.

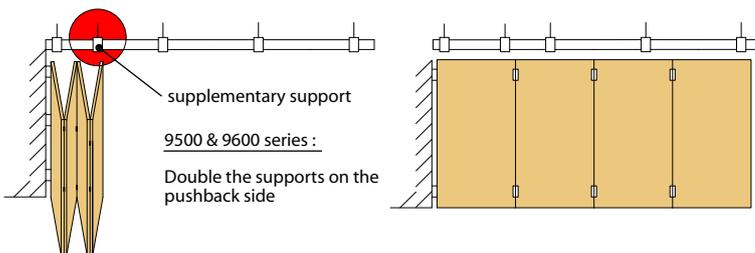
This means that for any lateral displacement door equipped with a service door, the capacity of each hanger will equal at least 1.5 times the weight of a panel.

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.

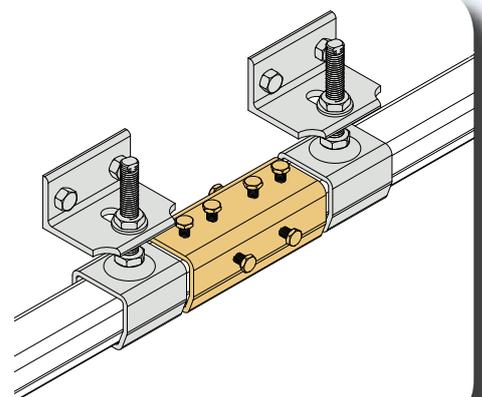
### SPECIAL CASE: 9500 and 9600 series



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	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
9159	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

## Our range for INTERIOR DOORS

112A

Sliding systems for:

- furniture doors
- wardrobe doors
- folding doors
- partition doors
- pocket doors



## Our range for GLASS DOORS

613A

Sliding systems for:

- partition doors
- pocket doors
- folding system for picture windows



## Our range for SHUTTERS

313A

Systems and motorizations for:

- sliding shutters
- folding shutters
- swinging shutters



## Our range for GATES

411A

Systems and motorizations for:

- canteliver gates
- bottom sliding gates
- gates mounted on pivots



## Our range for SPORTUB®

211A

Sliding systems for:

- straight sliding doors up to 2000 Kg
- lateral displacement doors
- folding doors with equal panels
- folding doors with half panels
- up and over doors



## 1. Scope of application:

Unless specific provisions are agreed in writing and signed by our company, these general terms and conditions, drawn up in French in their original version, which alone shall serve as proof, and taking precedence over any other foreign language version, shall apply to the supply of all products to the Client, whether catalogue products or special products, to all services provided and to the supply of tools. All orders shall entail unreserved acceptance of these general terms and conditions. These general terms and conditions of sale cancel and replace any previous terms and conditions and any documents exchanged between the parties prior to conclusion of any final agreement.

## 2. Scope of documents transmitted by the Client:

The terms and conditions of sale are the sole basis for any commercial transaction. The terms and conditions of purchase sent by the Client shall only apply if expressly accepted in writing by us. Plans and other specifications sent by the Client shall have contractual value and shall be binding on the Client.

## 3. Applicable Law - Jurisdiction:

These general terms and conditions are governed by French law. Any dispute resulting from the business relationship established between our company and the Client shall come under the sole jurisdiction of the Besançon Commercial Court (25000 France), even in cases of urgent application, third party proceedings and multiple defendants. We may however refer the case to any competent court in the Client's country if the latter's offices are not in France.

## 4. Offer - Price:

We reserve the right to make any amendments considered necessary, without notice, to our models, prices and catalogues, as these documents do not constitute an offer. Unless otherwise stipulated, our offers are valid for one month from the date of issue. After this period, the prices and delivery terms may be amended. We reserve the right to amend our prices at any time, especially with respect to fluctuations in the price of raw materials. If amendments are made, products for which an order has been accepted on the date of amendment shall be delivered at the price in force on the date of acceptance.

## 5. Orders:

Any order or order amendment must be sent by letter, fax or e-mail and shall only be deemed accepted after written confirmation from us. Acceptance of the order is subject to physical availability of products and raw materials. Clients who cancel all or part of an order, or who postpone the delivery date or amend the order without liability on our part, are required to compensate us for all the costs incurred on the date the cancellation or amendment notice from the Client is received, without prejudice to any damages. All orders with technical specifications are only valid once all the documents have been approved by us.

## 6. Order Forecasts:

If the Client provides us with order forecasts, we will use these forecasts to draw up our offer. We reserve the right to amend our offer and price if there is a significant shortfall in these order forecasts.

## 7. Materials and components supplied by the Client:

If raw materials and/or components are supplied by the Client, the Client will deliver them or have them delivered at its own cost and risk. The Client guarantees the quality and conformity of the raw materials or components it supplies, with the contractual specifications, laws, regulations and standard professional practice in force. The Client guarantees that it can deliver the materials and components to our Company and holds us harmless against any action brought by its own suppliers.

## 8. Tools:

If we are required to produce tools to comply with the requirements of the order, the tools will remain our own material and intellectual property. Sums paid by the Client in addition to the price of the parts shall constitute a contribution to the costs of the tools. We reserve the right to destroy or sell any tool not used for more than one year, informing the Client thereof. The Client may object, provided that it offers to purchase the tool in question within 30 days from our notification of our intentions.

## 9. Delivery:

Delivery takes place upon provision of the products at our premises, prior to loading, either to the Client or to the carrier appointed by the Client or failing that, chosen by us. We are authorised to make full or partial deliveries, according to product availability. Each partial delivery will be invoiced separately. If the products are not picked up or are refused on the agreed delivery date, we reserve the right to invoice the Client for the storage costs. Any storage risks beyond that date will be the Client's responsibility.

The delivery times will not run until the Client has fulfilled its obligations (payment of a deposit, sending plans, delivery of material, written confirmation of order etc.). Any amendment to the order during performance of the contract may extend the delivery times. If the Client fails to comply with the timings it has notified, the delivery times cannot be guaranteed. We will endeavour to comply with the delivery times notified upon acceptance of the order. Failure to meet delivery times may not under any circumstances justify the cancellation, amendment or postponement of the order, or other orders already confirmed.

## 10. Quantities delivered - Packaging

If the Client fails to comply with the minimum and/or indivisible packaging indicated in the price scale, we will deliver the number of products rounded up to the closest packaging figure published in the price scales and catalogues. In this case, the Client undertakes to pay the relevant invoice.

## 11. Transfer of risks:

Transfer of ownership shall take place on departure from the factory, unless specific contractual conditions or conditions are stated on the order confirmation.

Upon transfer of ownership as set out in the order confirmation, the Client shall be responsible for risks of lost or damaged products, and liable for any damage it might cause. With effect from the transfer of ownership, the Client shall be responsible for all product transport risks, and all instructions given by us to the carrier shall be considered as issued by the Client, the recipient.

## 12. Claims:

**12.1 Non-conformity:** The condition, conformity, lack of any visible defect, compliance with delivery times and quantities delivered must be inspected upon delivery by the Client, in the presence of the carrier or our agent. The costs and risks relating to inspection are the Client's responsibility. Any claims must be mentioned on the carrier's receipt, and must be confirmed with us by registered letter with return receipt within 48 hours of delivery. Failing that, the products will be deemed accepted without reservation and we shall not be held liable for any visible lack of conformity in the products or for missing products.

**12.2 Hidden defects:** Hidden defects must be notified by the Client, by letter, fax or e-mail, within thirty days of the date on which it detected or should have detected the hidden defect. No notifications shall be taken into account if they occur more than one year after installing the products, unless specific instructions to the contrary are stated in the catalogues and notices.

**12.3 Proof of non-conformity or hidden defects - Return of products:** The Client shall provide all evidence of the existence of defects or faults, and all inspections or checks carried out directly by the Client shall remain its responsibility. We reserve the right to carry out directly, or through the intermediary of our choice, any inspections, checks or controls on our premises, the Client's premises, or a third party's premises. Any product returns must be previously agreed in writing by us, and may only take place if accompanied by the references on the delivery note and invoice in question. The costs and risks of return are the Client's responsibility.

**12.4 Penalties:** In accordance with Article L. 442-6 8° of the French Commercial Code, a claim or dispute shall not authorise the Client to automatically deduct penalties or discounts from the amount of the invoice issued by us, or to suspend payment thereof.

Fixed penalties are not permitted. Only penalties legitimised by the existence of a loss and proportionate to the breach committed may, where appropriate, be accepted.

## 13. Warranty:

**13.1 Purpose of warranty:** We only guarantee the conformity of the Products delivered with the features described in our catalogues, the conformity of specific products with the specifications sent by the Client, with the plans and where appropriate with the initial approved samples, and the conformity of services performed according to standard professional practice and the Client's specifications, to the exclusion of any other warranty.

**13.2 Warranty limitations:** The warranty will not be effective if the products are modified by services other than our own, or if the product is installed using techniques other than those suggested by our various documents in force, or in the event of use and/or storage of products not compliant with their intended use, the conditions of use, the installation instructions, our documents, and the guidelines for use set out by us. The warranty will not be effective if the damage noted is due to incompatibility between our products and components not supplied by us, or if the products become non-compliant with the mandatory standards subsequent to product delivery, or in the event of force majeure, or normal wear and tear to the products, or damage to the products caused by the Client's negligence, lack of checks or tests, lack of monitoring or maintenance of a defect caused by a design totally or partially unrelated to our company.

Products made to the Client's specifications are not covered by a warranty. For catalogue products, the warranty is determined per product, according to use.

**13.3 Scope of warranty:** The warranty is limited to our choice of replacing the non-compliant or faulty products with identical or similar products, or issuing a credit note, to the exclusion of any other compensation of any kind and for any reason, in favour of the Client. The replaced products shall remain our property.

If we are required to act and the warranty is not effective, the Client will be invoiced for all carriage costs incurred by us, plus a penalty of 20% of the price including VAT of the invoice in question, for handling, repackaging and administration charges, without prejudice to any other compensation (transport and removal charges etc.).

**13.4 Duration or terms of the contractual warranty:** If the contractual warranty is set out in the Product catalogue, it shall run from the date of transfer of ownership. The duration or terms of the warranty are given in our catalogues and user notices. The Client undertakes to inform its own clients of the product warranty terms.

## 14. Intended use of Products:

The Client is responsible for the intended use of the Products ordered. It shall ensure they are suitable for the intended use.

## 15. Liability:

If our liability is established, it shall be limited to the direct material loss caused to the Client as a result of the faults attributable to us during performance of the order. We shall not be liable for compensating the consequences of faults committed by the Client or third parties relating to performance of the order. We shall not be liable for loss resulting from use of the technical documents, plans, materials, information or data issued by the Client or imposed by the latter. We shall not under any circumstances be liable for compensating any intangible or indirect loss such as operating losses, loss of profit, opportunity, commercial loss, production stoppage, loss of earnings. Our civil liability, all causes combined, with the exception of physical injury and serious misconduct, is limited to the maximum amount of deliveries collected in consideration for the defective service. The Client shall ensure that its insurers or third parties with whom it has contractual relations shall waive any recourse against us or our insurers beyond the limits and exclusions set out above.

## 16. Price - Payment terms:

Unless specifically agreed, the prices are understood as «Ex-Works» (EXW Incoterms 2000), exclusive of tax, including packaging costs, and excluding transport and insurance charges. Taxes, levies and other charges shall remain the Client's responsibility. The invoices are payable by any means of payment to our company's head office, within 30 days end of the month, from the date of dispatch. The discount conditions are detailed in our price conditions in force on the day of the order. The actual placing of funds in our company's account shall constitute payment.

## 17. Payment delays:

In the event of delayed payment, we reserve the right at any time to suspend any delivery and/or dispatch relating to the sale in question and/or any order in progress. In the event of delayed payment, the Client will be liable for a late payment penalty calculated by applying an interest rate equal to three times the legal interest rate in force to the sums due, plus a fixed payment of 40 euros for recovery costs. We may also demand immediate payment of all unpaid due sums, cancel the sale in question and/or any order in progress as of right, withholding any deposits paid and retaining the products, without prejudice to any action for damages. Any subsequent contracts may be subject, even after partial delivery, to payment in cash terms or provision of additional guarantees to those initially envisaged.

## 18. New Client - Changes to the Client's situation:

In the event of a new client or event affecting the situation of a Client and/or its parent company or subsidiary, increasing our Company's risk of being unpaid, we may make acceptance of the order and/or delivery of the Products subject to advance payment or issuing of guarantees.

## 19. Reservation of title:

We shall retain ownership of the products until full payment of the price in principal, interest, costs and ancillary charges. Payment shall take place upon actual collection of the price. Delivery of a draft or any other title creating an obligation to pay shall not constitute payment. In the event of resale, the Client shall assign to us all its debts over third party buyers from the resale. Products in stock are deemed to be unpaid products, and we may draw up an inventory of these products at any time. In the event of non-payment, the Client shall return the unpaid products at its own cost, risk and peril, following a formal notice sent by registered mail with return receipt. Clients may not under any circumstances pledge, give as security or grant sureties over unpaid products.

## 20. Intellectual property:

Delivery of products shall not under any circumstances entail transfer of the intellectual or industrial property rights relating thereto. The Client shall inform us immediately of any legal action brought against it concerning the intellectual or industrial property of the products, and shall not take any measures without prior written agreement from us, as we alone have the right to direct proceedings and to decide on the action to be taken. The Client shall hold us harmless against all actions, claims or complaints brought by a third party as a result of the breach of intellectual or industrial property rights, resulting from manufacture of a product based on specifications or technical documents provided by the Client.

## 21. Confidentiality:

Any technical document and any technical, commercial, financial or legal information concerning our company or relating to our products of any kind, whether specific or not, which the Client becomes aware of, is confidential and shall remain our exclusive property. These documents and this information may not under any circumstances be published or transmitted in any manner whatsoever, to any third party, without prior written agreement.

## 22. Force majeure:

In the event of force majeure recognised as such by case law or if one of the following events occurs, considered as coming under force majeure: shortage of raw materials, strike, blockade, lock-out, attack, suspension of transport, bad weather conditions, the defaulting party shall inform the other party in writing that it is not able to fulfil its obligations, as soon as the event occurs. The contract shall be suspended until the event in question ceases, for a period not exceeding six months, after which the contract may be terminated as of right by either party, by registered mail with return receipt.



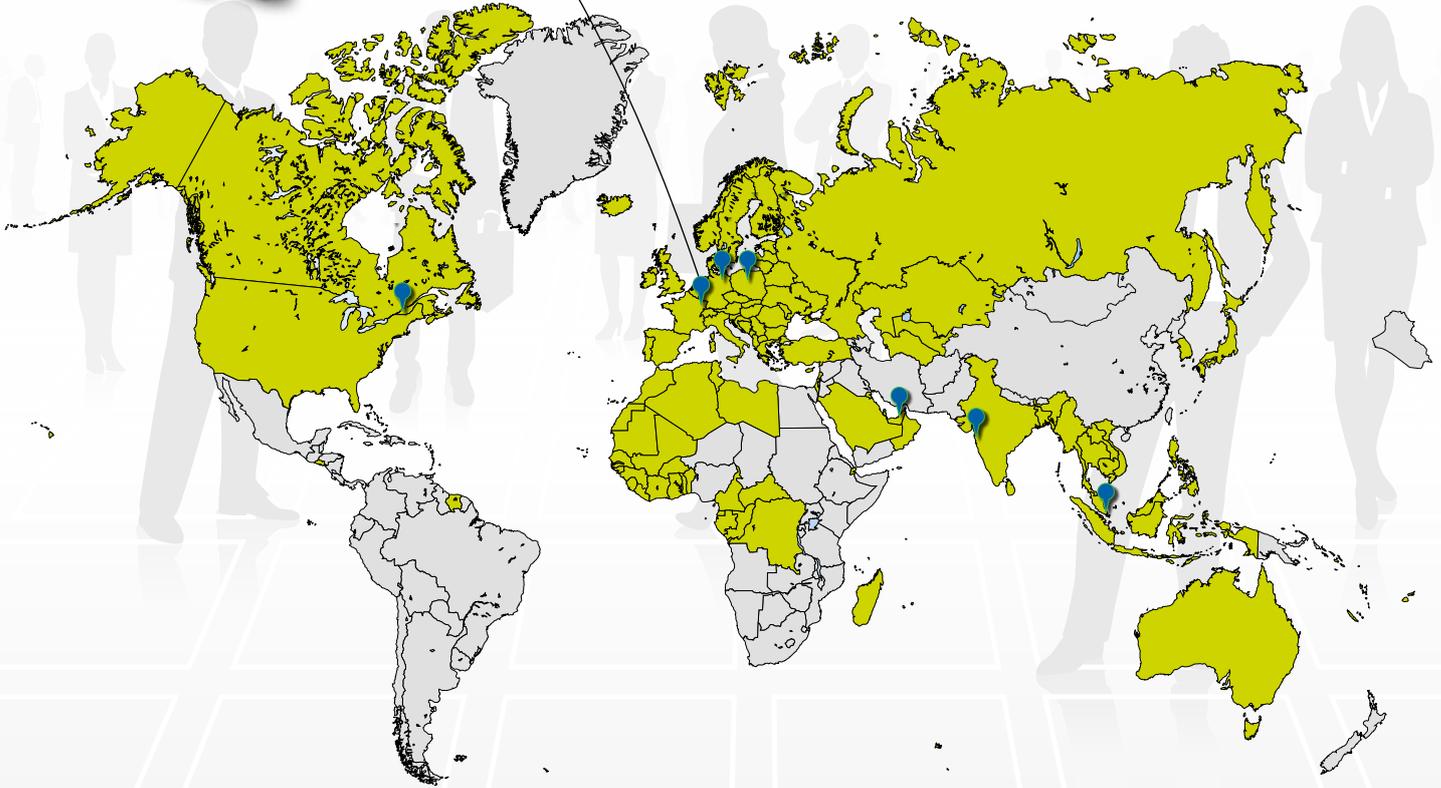
# MANTION

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