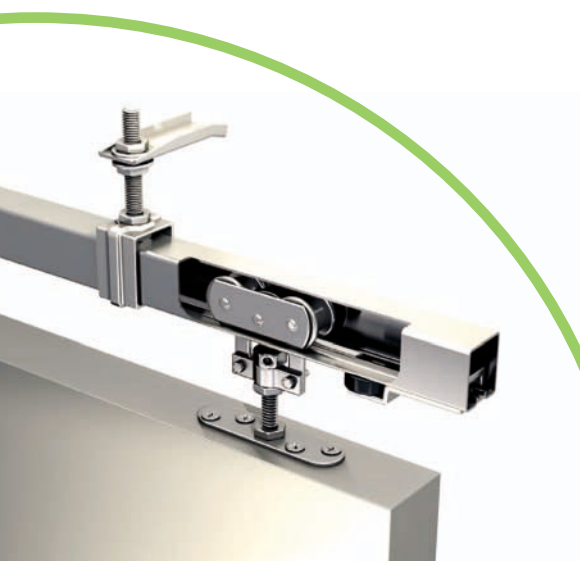




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**CATALOGUE  
SPORTUB**

**211A**



## *We offer you the widest range of fittings for sliding doors*

### ***MANTION** HAS AN INTERNATIONAL REPUTATION BASED ON :*

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

### ***THE MANTION** KNOW-HOW MEANS BEFORE ALL :*

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

### ***WITH MANTION**, YOU BENEFIT FROM A TOP QUALITY SERVICE :*

Salesmen who listen to your needs and  
advise you.

A strong technical aid : an engineering  
department and technical advisers at your  
disposal.

The study and the development of special  
products upon request.

Very short delivery time.

Very high quality products.

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

Fittings for sliding and folding doors.

Fittings for sectional doors.

Fittings for glass doors.

Fittings in stainless steel quality A2 and A4.

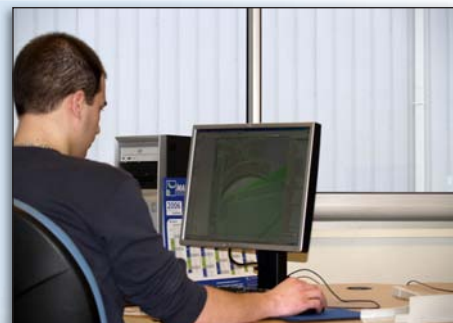
Since **MANTION** has always cared about bringing you the  
best services within its organization and quality for its  
products, it is now up to standard :

**ISO 9001 : V2008**

**ISO 14001 : V2004**







### TRACKS OF QUALITY

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



## A SAFETY INSURANCE REGARDING THE PERFORMANCE OF FITTINGS FOR SLIDING DOORS :

### Simple and efficient :

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

### What does the European standard EN 1527 indicate ?

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

Corrosion resistance (resistance to salt spray)

Durability (number of cycles)

Initial friction (initial max. force required to open and close the panels)

- 2 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

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

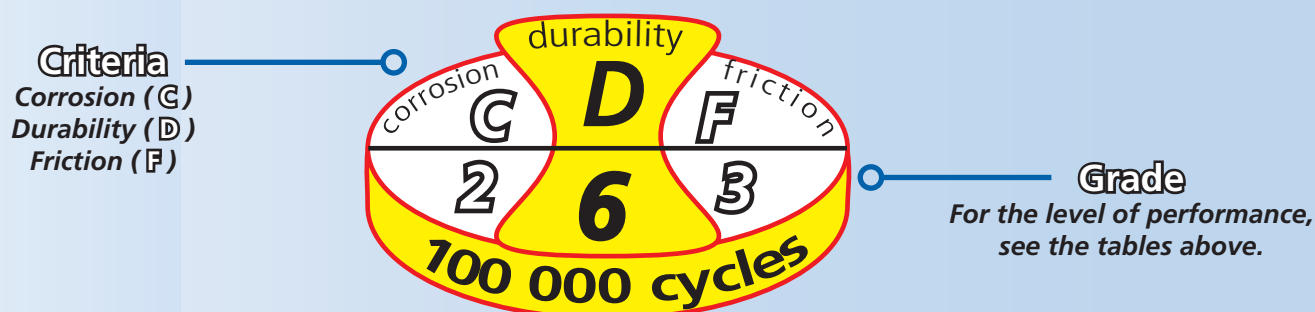
|                                 | grade 1 | grade 2 | grade 3 | grade 4 | grade 5 |
|---------------------------------|---------|---------|---------|---------|---------|
| <b>CORROSION RESISTANCE [C]</b> | 24 h*   | 48 h*   | 96 h*   | 240 h*  | 480 h*  |

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

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

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

|                       | grade 1  | grade 2  | grade 3   | grade 4   | grade 5   | grade 6    |
|-----------------------|----------|----------|-----------|-----------|-----------|------------|
| <b>DURABILITY [D]</b> | 2 500 c* | 5 000 c* | 10 000 c* | 25 000 c* | 50 000 c* | 100 000 c* |



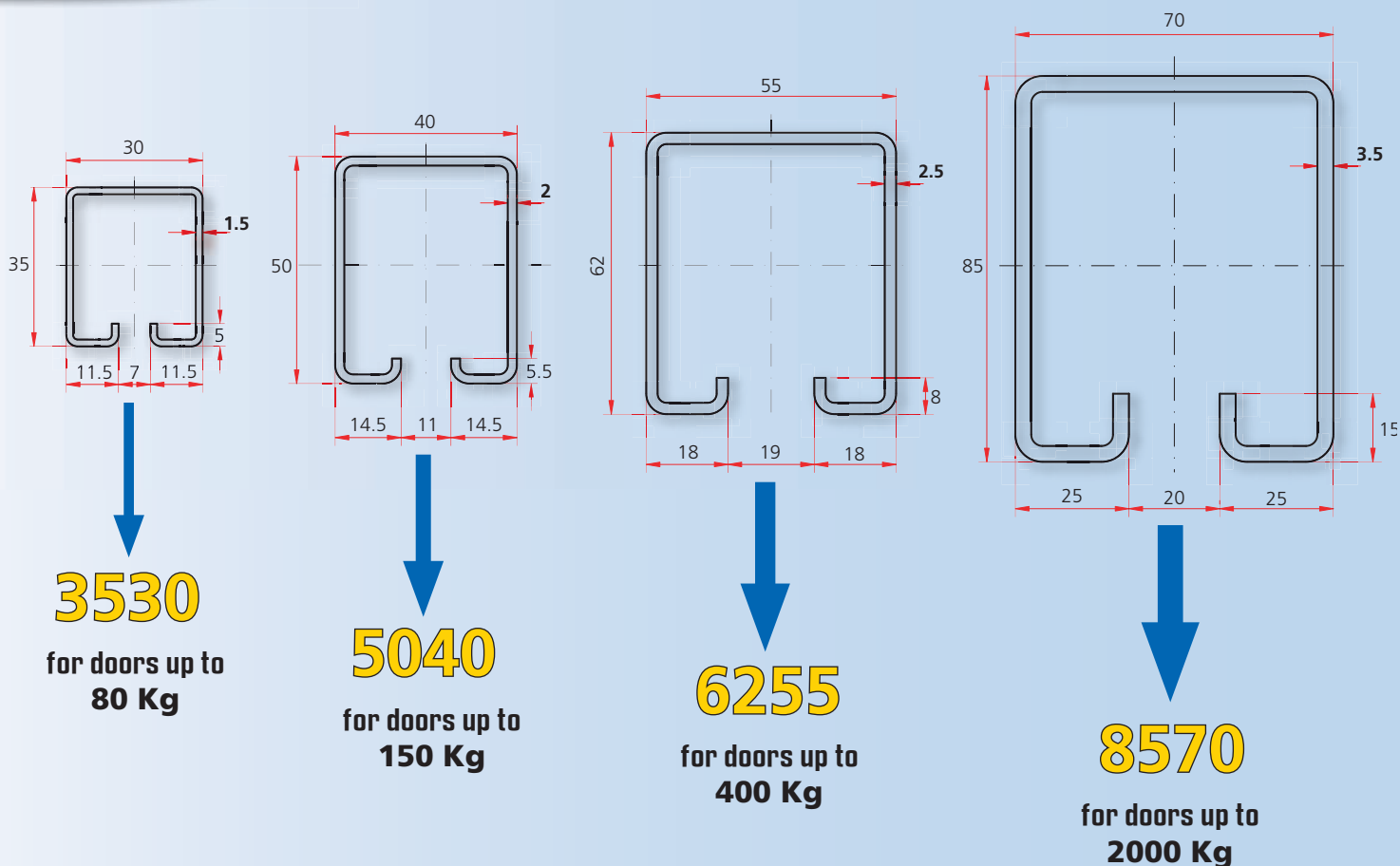
**Mantion certifies\* the performance of its fittings for sliding doors and gives you the guaranty of high quality products.**

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

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

|                                                                                     |                                                                                                                                                                               |           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|    | <b>200 &amp; 2200® Fittings for STRAIGHT sliding doors</b>                                                                                                                    | <b>6</b>  |
|                                                                                     | For doors up to 80 kg maxi.<br>For doors up to 150 kg maxi.<br>For doors up to 400 kg maxi.<br>For doors up to 1200 kg maxi.<br>For doors up to 2000 kg maxi.<br>SPORTUB sets |           |
|    | <b>300® Fittings for LATERAL sliding doors</b>                                                                                                                                | <b>20</b> |
|                                                                                     | With fixing type hinges<br>With welding type hinges                                                                                                                           |           |
|    | <b>500® Fittings for FOLDING doors with equal panels</b>                                                                                                                      | <b>26</b> |
|                                                                                     | With fixing type hinges<br>With welding type hinges                                                                                                                           |           |
|    | <b>600® Fittings for FOLDING doors with a half panel</b>                                                                                                                      | <b>32</b> |
|    | <b>4000® Fittings for UP AND OVER doors</b>                                                                                                                                   | <b>36</b> |
|                                                                                     | For residential use<br>For industrial use                                                                                                                                     |           |
|  | <b>GARLINE® Fittings for SECTIONAL doors (residential use)</b>                                                                                                                | <b>42</b> |
|  | <b>7000® Fittings for SECTIONAL doors (industrial use)</b>                                                                                                                    | <b>43</b> |
|  | <b>SPORT® Fittings for STRAIGHT sliding doors on a flat track</b>                                                                                                             | <b>50</b> |
|  | <b>BOB® Fittings for LATERAL sliding doors on a flat track</b>                                                                                                                | <b>54</b> |
|                                                                                     | BOB 50<br>BOB 100                                                                                                                                                             |           |
|  | <b>TRACKS &amp; ACCESSORIES</b>                                                                                                                                               | <b>60</b> |
|                                                                                     | Tracks & profiles<br>Fixing and jointing brackets<br>Fixing plates<br>Accessories<br>Guides                                                                                   |           |
|  | <b>HANDLING WITH MONORAILS</b>                                                                                                                                                | <b>66</b> |
|  | <b>INOX RANGE</b>                                                                                                                                                             | <b>68</b> |
|  | <b>THE MANTION RANGES</b>                                                                                                                                                     | <b>69</b> |
|  | <b>INDEX</b>                                                                                                                                                                  | <b>69</b> |





**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.

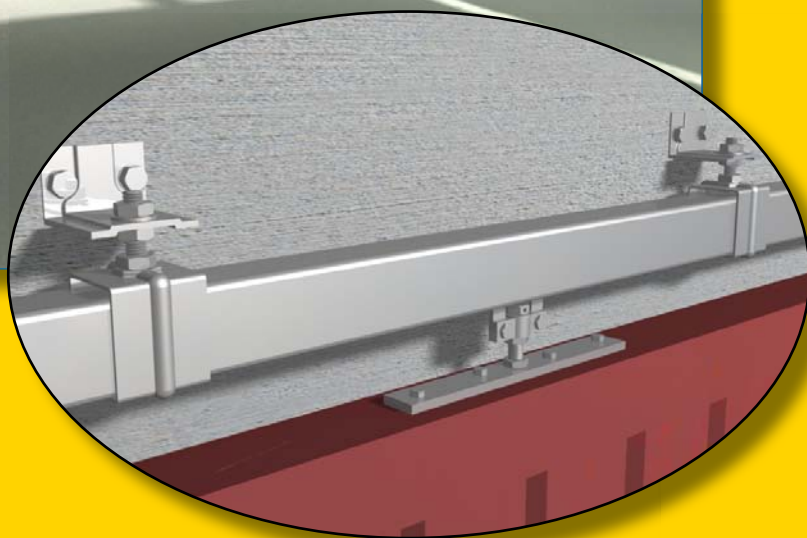
**Manton can therefore improve the reliability of its products and bring the best quality sliding systems on the market :**

- 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 track **8570** is made of steel of High Limit of Elasticity. This ensures better resistance and durability.



# ***Sliding systems for STRAIGHT SLIDING DOORS***

## ***200® & 2200® series***



|                                       |                     |
|---------------------------------------|---------------------|
| <b><i>For doors up to 80 kg</i></b>   | <b><i>8-9</i></b>   |
| <b><i>For doors up to 150 kg</i></b>  | <b><i>10-11</i></b> |
| <b><i>For doors up to 400 kg</i></b>  | <b><i>12-13</i></b> |
| <b><i>For doors up to 1200 kg</i></b> | <b><i>14-15</i></b> |
| <b><i>For doors up to 2000 kg</i></b> | <b><i>16-17</i></b> |
| <b><i>SPORTUB sets</i></b>            | <b><i>18-19</i></b> |

**CAPACITY/DOOR :** **80 kg**

**TRACK :** **3530**

**MOVEMENT :** **STRAIGHT**



### SLIDSOFT :

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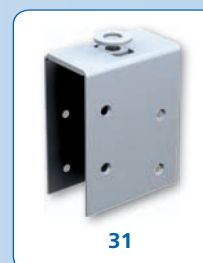
- Easy and long-lasting running
- **Stable system** : the hangers are designed to be constantly in contact with the track
- **All hangers** are electrolytically treated
- The 235 A and 235D hangers mounted on needle roller bearings are a unique Mantion system
- The hanger 2235 is mounted on ball bearings
- Hangers can be mounted in 2 different ways : on the side or on the top

| TRACKS   |                                         |       |
|----------|-----------------------------------------|-------|
| Item Nr  | Designation                             | Pack. |
| 3530/400 | Galvanised track 35 x 30 mm - 4 m long. | 4     |
| 3530/500 | Ditto 5 m long.                         | 4     |
| 3530/600 | Ditto 6 m long.                         | 4     |



### capacity per door

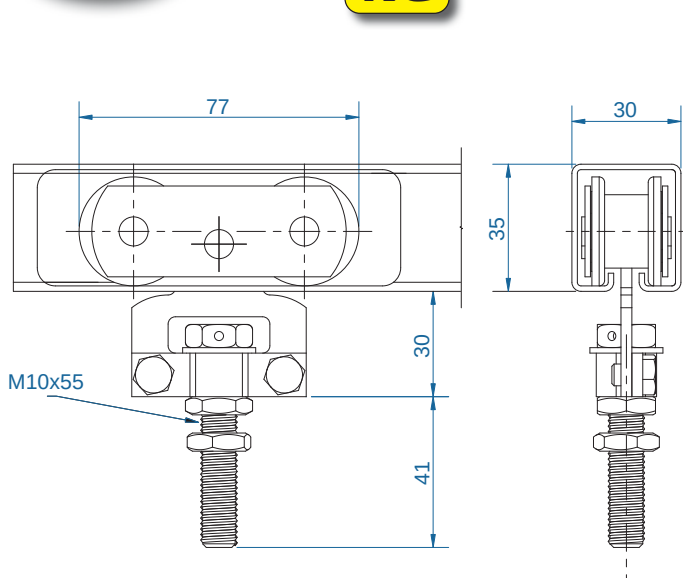
| HANGERS & PLATES |       |                                                                            |    |
|------------------|-------|----------------------------------------------------------------------------|----|
| 235 A            | 80 kg | Hanger, top fixing with 2 steel wheels mounted on needle roller bearings.  | 2  |
| 235 D            |       | Hanger, top fixing with 2 Delrin wheels mounted on needle roller bearings. | 2  |
| 2232             |       | Hanger with swan-neck, with 4 steel wheels mounted on ball bearings.       | 2  |
| 2235             |       | Hanger top fixing, with 4 steel wheels mounted on ball bearings.           | 2  |
| 36               |       | Top fixing plate, Ø M 10.                                                  | 10 |
| 36 W             |       | "U" plate for top fixing, Ø M 10.                                          | 40 |
| 37               |       | Angle plate for side fixing, Ø M 10.                                       |    |
| 31               |       | Adjustable APRON SET, 25 to 35 mm thickness.<br>Capacity : 40 Kg           |    |



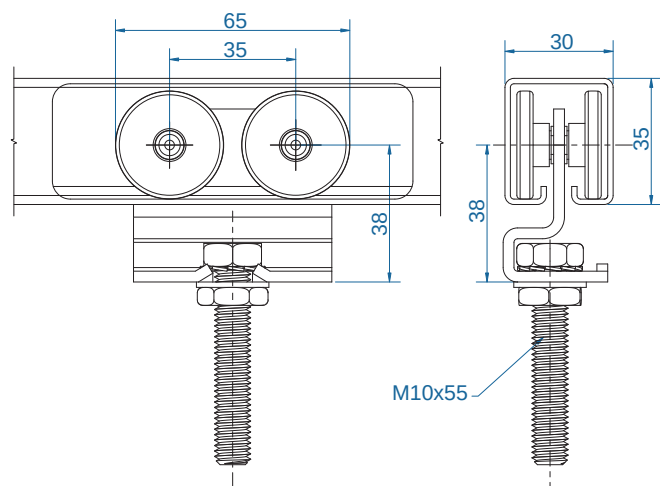
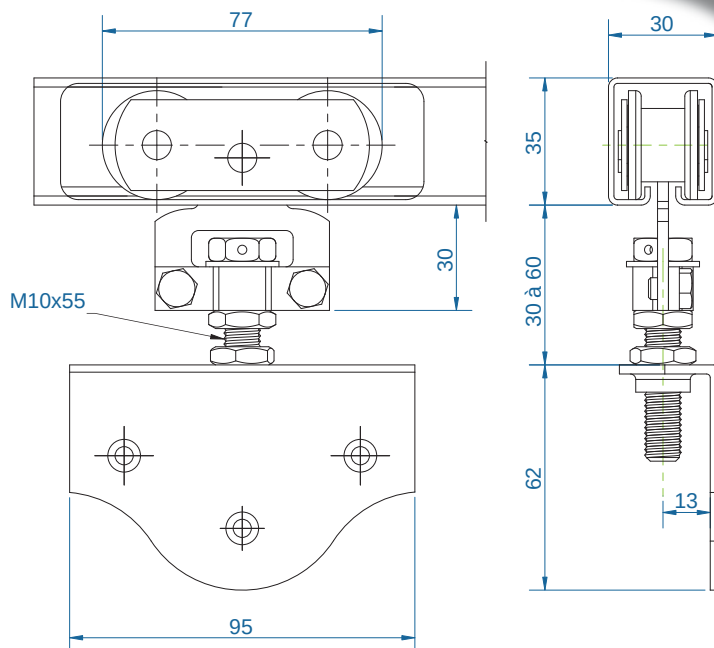
| GUIDES   |                                                                                                                                                   |    |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 1109/400 | U-profile 25 x 17 mm, galvanised - 4 meter long                                                                                                   | 4  |
| 1109/500 | Ditto 5 m long.                                                                                                                                   | 4  |
| 1109/600 | Ditto 6 m long.                                                                                                                                   | 4  |
| 1102     | Bottom guide with an olive mounted on a round ended screwing plate for U-profile 25 x 17 mm.<br>See dimensions and assembly instructions on p. 65 | 20 |



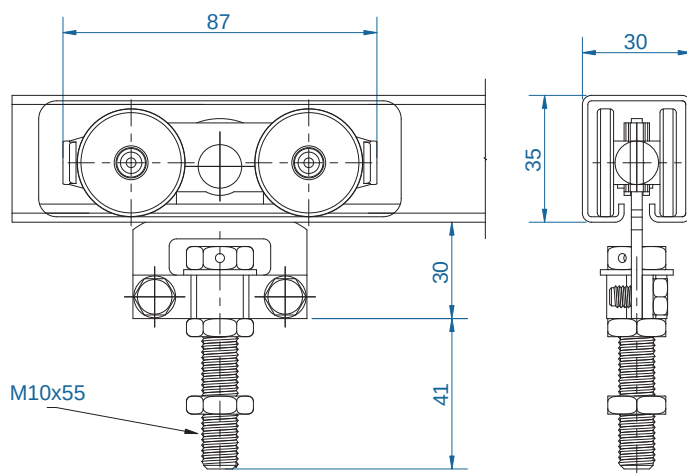




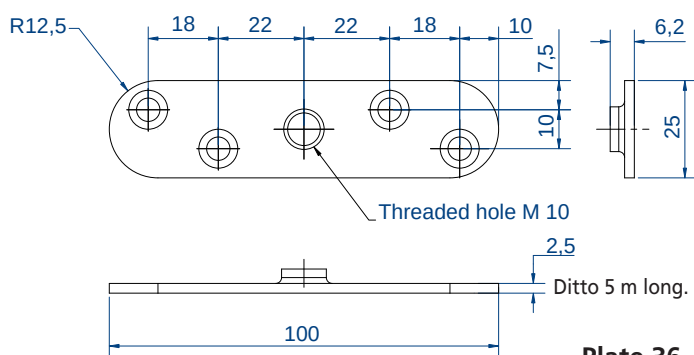
**Hangers 235 A & 235 D**



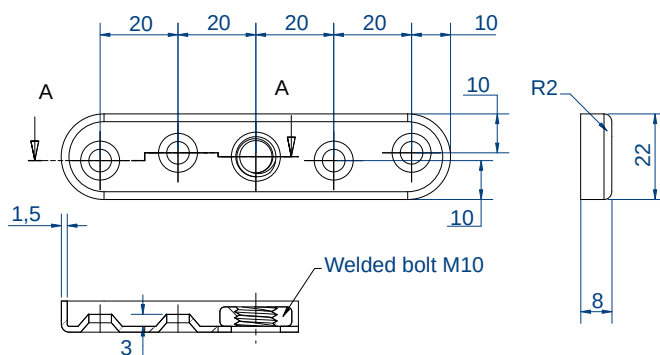
**Hanger 2232**



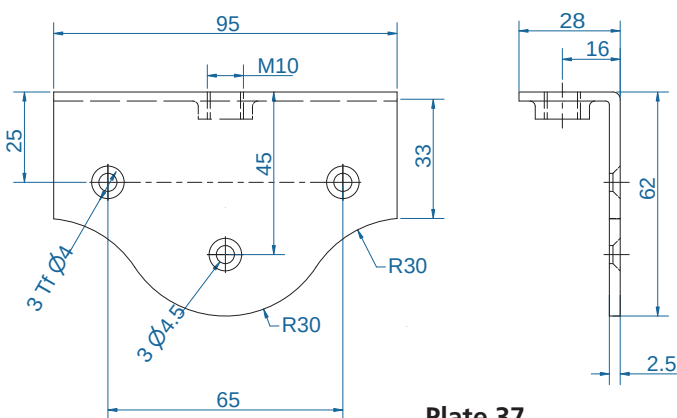
**Hanger 2235**



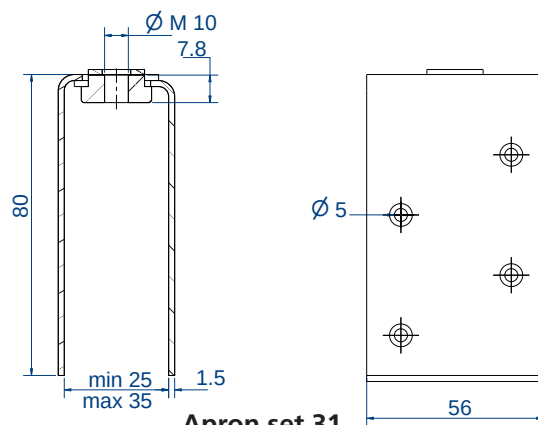
**Plate 36**



**Plate 36 W**



**Plate 37**



**Apron set 31**

**CAPACITY/DOOR :** **150 kg**

**TRACK :** **5040**

**MOVEMENT :** **STRAIGHT**



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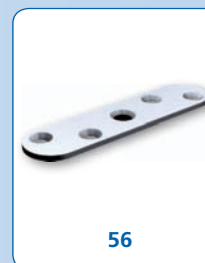
- Easy and long-lasting running
  - **Stable system** : the hangers are designed to be constantly in contact with the track
  - **All hangers** are electrolytically treated
  - A complete range of hangers : straight or with swan-neck, with 2 wheels mounted on needle roller bearings or 4 wheels mounted on ball bearings. Steel or Delrin wheels
- For special mounting : «L» version hangers with a long fixing bolt (70 mm longer than the normal version)

| TRACKS   |                                        |       |
|----------|----------------------------------------|-------|
| Item Nr  | Description                            | Pack. |
| 5040/400 | Galvanised track 50 x 40 mm - 4 m long |       |
| 5040/500 | Ditto 5 m long                         |       |
| 5040/600 | Ditto 6 m long                         |       |



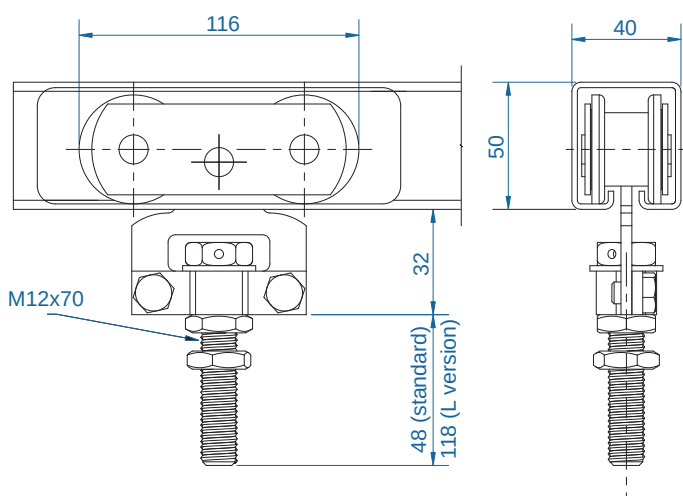
capacity per door

| HANGERS & PLATES |                                                                                                         |    |
|------------------|---------------------------------------------------------------------------------------------------------|----|
| 251 A            | Hanger side-fixing, with 2 steel wheels mounted on needle roller bearings                               | 2  |
| 251 D            | Hanger side-fixing with 2 Delrin wheels mounted on needle roller bearings                               | 2  |
| 255 A            | Hanger top-fixing, with 2 steel wheels mounted on needle roller bearings                                | 2  |
| 255 AL           | Ditto with long fixing bolt (118 mm).                                                                   | 2  |
| 255 D            | Hanger top fixing with fixing bolt and 2 Delrin wheels mounted on needle roller bearings                | 2  |
| 255 DL           | Ditto with long fixing bolt (118 mm).                                                                   | 2  |
| 2252             | Hanger with swan-neck, with 4 steel wheels mounted on ball bearings.                                    | 2  |
| 2255             | Hanger, top fixing, with 4 steel wheels mounted on ball bearings.                                       | 2  |
| 2255 L           | Ditto with long fixing bolt (118 mm).                                                                   | 2  |
| 55               | Welding type plate                                                                                      |    |
| 56               | Screwing type plate for top fixing, Ø M 12.                                                             | 10 |
| 56 W             | Screwing «U» plate, for top fixing, Ø M 12.                                                             | 10 |
| 51               | Adjustable apron set for panels from 40 to 50 mm thickness. Capacity : 75 kg. Top fixing, screwing type | 16 |

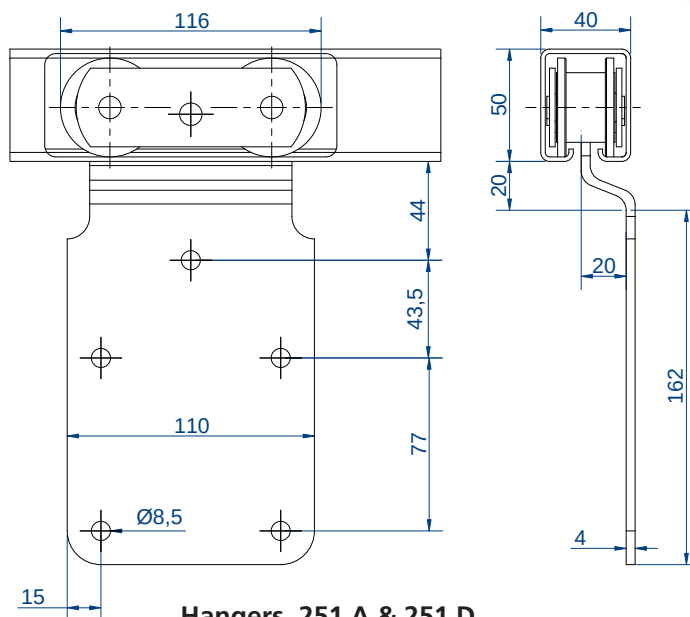


| GUIDES   |                                                                                                                                        |    |
|----------|----------------------------------------------------------------------------------------------------------------------------------------|----|
| 1110/400 | U-profile 30 x 30 mm, galvanised - 4 m long                                                                                            | 4  |
| 1110/500 | Ditto 5 m long                                                                                                                         | 4  |
| 1110/600 | Ditto 6 m long                                                                                                                         | 4  |
| 1099     | Bottom guide with olive on a round ended screwing plate, for U-profile 30 x 30 mm<br>See dimensions and assembly instructions on p. 65 | 10 |

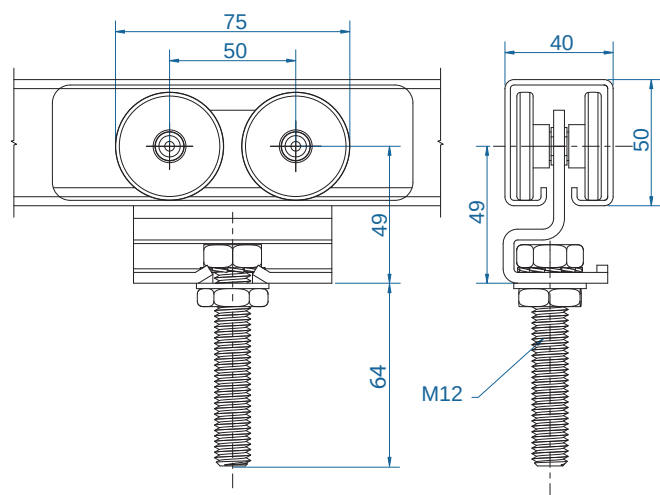




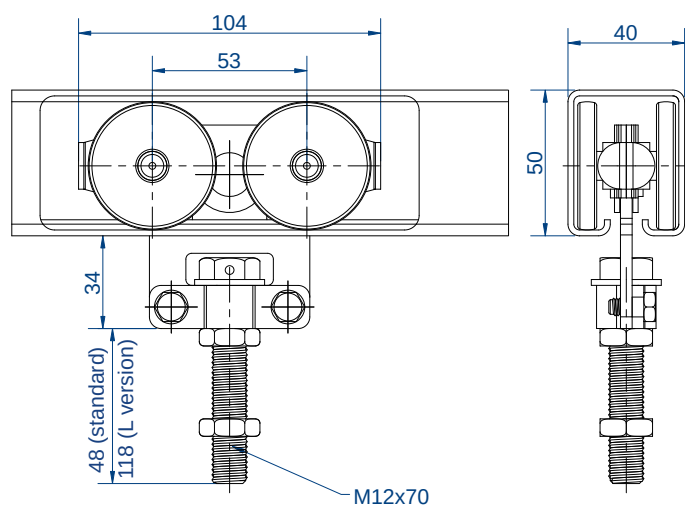
**Hangers 255 A & 255 D - 255 AL & 255 DL**



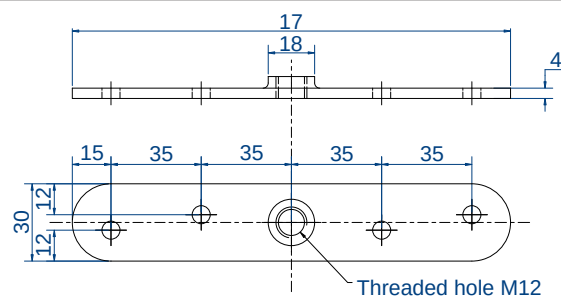
## Hangars 251 A & 251 D



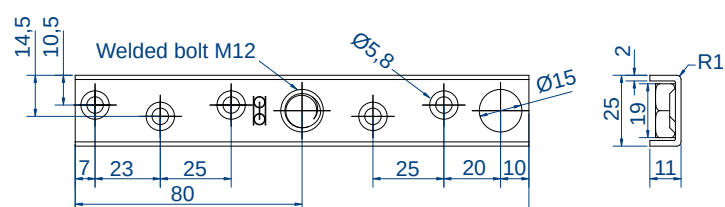
**Hanger 2252**



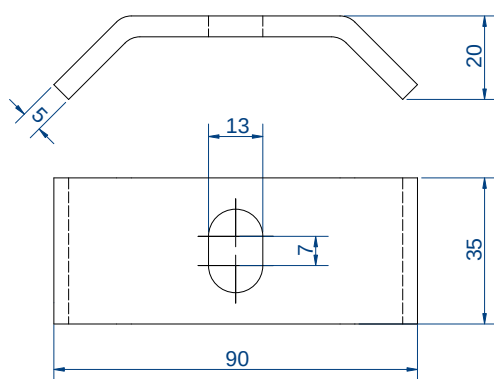
## Hanger 2255 & 2255 L



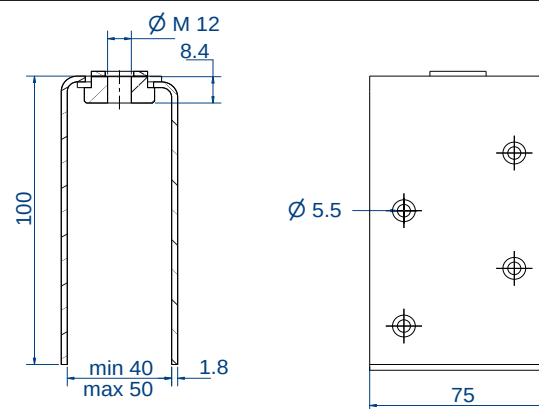
## Plate 56



### Plate 56 W



## Plate 55



**Apron set 51**



**CAPACITY/DOOR :** up to 400 kg

**TRACK :** 6255

**MOVEMENT :** STRAIGHT

- **2 types of tracks :** 20/10<sup>e</sup> and 25/10<sup>e</sup> thicknesses
- **Ingenious :** thanks to its offset bracket, the 261 hanger enables the centred mounting of doors of different thicknesses
- **The steel hangers with ball bearings (2265A) are suitable for fire doors**
- For special mounting : «L» version hangers with a long fixing bolt (70 mm longer than the normal version)



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| TRACKS     |                                                          |       |
|------------|----------------------------------------------------------|-------|
| Item Nr    | Description                                              | Pack. |
| 6255/400   | Galvanised track 62 x 55 mm, thickness 25/10<br>4 m long |       |
| 6255/500   | Ditto 5 m long                                           |       |
| 6255/600   | Ditto 6 m long                                           |       |
| 6255GE/600 | Galvanised track 62 x 55 mm, thickness 20/10<br>6 m long |       |



6255

Capacity per door : grade 6 (100 000 cycles) for the 6255 track (thickness 25/10)  
grade 3 ( 10 000 cycles) for the 6255 GE track (thickness 20/10)



## HANGERS & PLATES

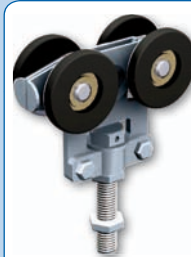
|         |        |                                                                                                                                                                              |    |
|---------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 261     | 300 kg | Hanger, side fixing, with wheels mounted on needle roller bearings. Removable plate, which enables 2 different positions and an adaptation to 2 different panel thicknesses. | 2  |
| 265     |        | Hanger top fixing, with 2 steel wheels mounted on needle roller bearings. Fixing bolt : 50 mm.                                                                               | 2  |
| 265 L   |        | Ditto with long fixing bolt (120 mm).                                                                                                                                        | 2  |
| 265 D   |        | Hanger top fixing, nylon + glass fiber wheels mounted on needle roller bearings.                                                                                             | 2  |
| 2262    | 400 kg | Hanger with swanneck, 4 nylon + glass fiber wheels with ball bearings.                                                                                                       | 2  |
| 2265    |        | Hanger, top fixing, 4 nylon +glass fiber wheels with ball bearings.                                                                                                          | 2  |
| 2265 L  |        | Ditto with long fixing bolt (120 mm).                                                                                                                                        | 2  |
| 2262 A  |        | Hanger, top fixing, 4 steel wheels with ball bearings.                                                                                                                       | 2  |
| 2265 A  | 400 kg | Hanger, side fixing, 4 steel wheels with ball bearings.                                                                                                                      | 2  |
| 2265 AL |        | Ditto with long fixing bolt (120 mm).                                                                                                                                        | 2  |
| 65      |        | Plate, welding type                                                                                                                                                          |    |
| 66      |        | Plate, screwing type for top fixing, Ø M 14.                                                                                                                                 | 10 |
| 61      |        | Adjustable apron set for panels from 50 à 65 mm thick.<br>Capacity : 150 kg. Top fixing, screwing type                                                                       |    |



261



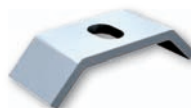
265



2265



2262



65



66



61

## GUIDES

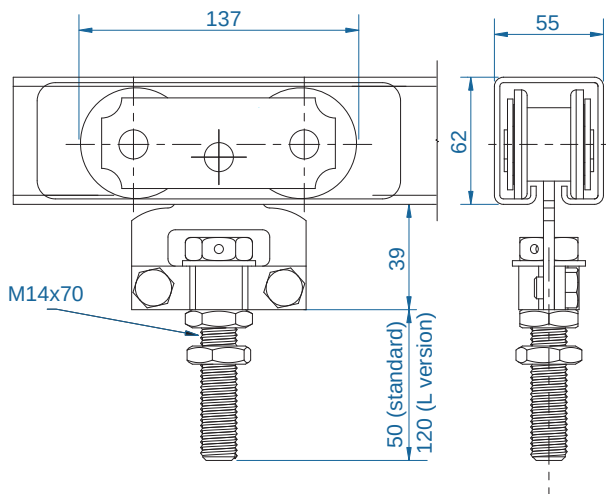
|          |                                                                                                                                                                 |    |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 1110/400 | U-profile 30 x 30 mm, galvanised. 4 m long                                                                                                                      | 4  |
| 1110/500 | Ditto 5 m long                                                                                                                                                  | 4  |
| 1110/600 | Ditto 6 m long                                                                                                                                                  | 4  |
| 1101     | Bottom guide with olive fixed on a screwing type reinforced plate (square ends) - For U-profile 30 x 30 mm<br>See dimensions and assembly instructions on p. 65 | 10 |



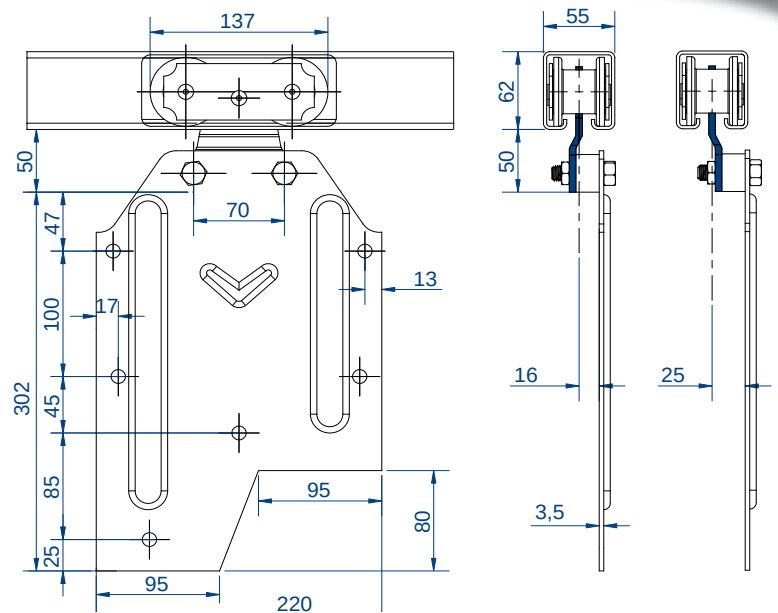
1101



1110

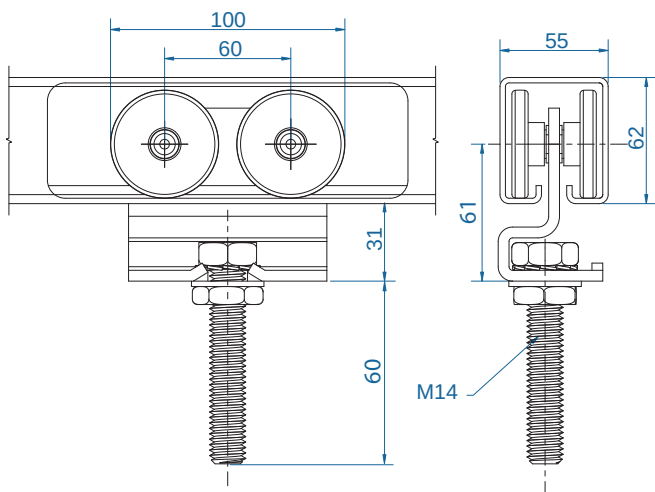


**Hangers 265 & 265 L**

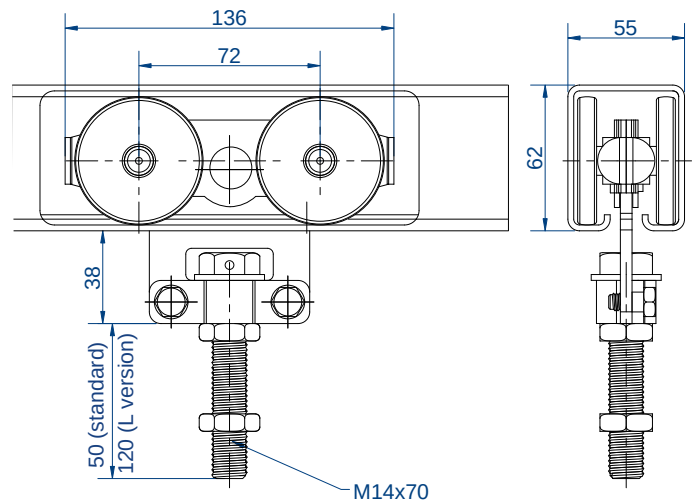


**Hanger 261**

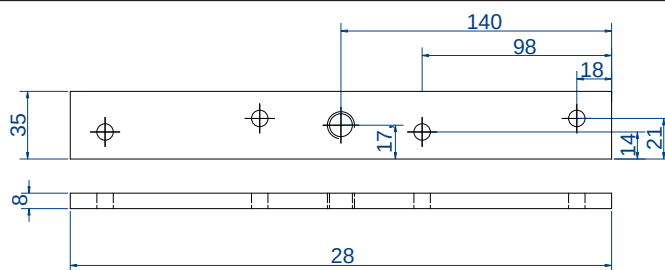
offset bracket - See information on p. 15



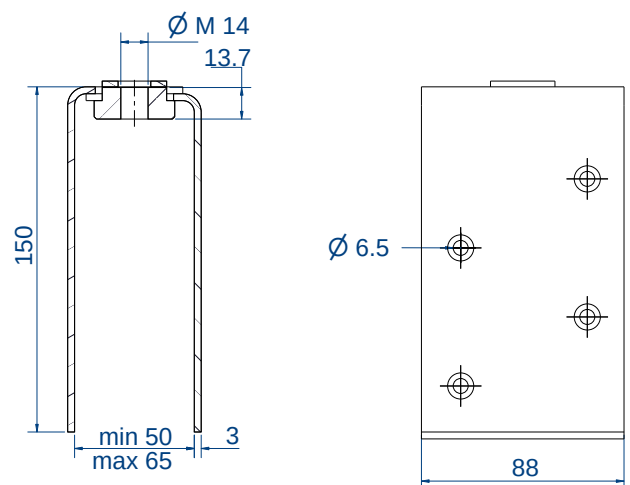
**Hangers 2262 & 2262 A**



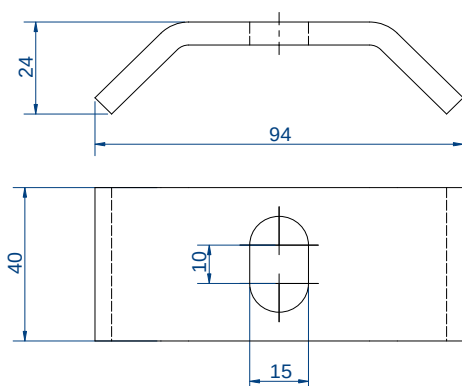
**Hangers 2265 - 2265 A & 2265 L - 2265 AL**



**Plate 66**



**Apron set 61**



**Plate 65**

**CAPACITY/DOOR :** up to 1200 kg

**TRACK :** 8570

**MOVEMENT :** STRAIGHT

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

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

capacity per door

| HANGERS & PLATES |         |                                                                                                                                                                              |    |
|------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 281              | 600 kg  | Hanger, side fixing, with wheels mounted on needle roller bearings. Removable flange, which enables 2 different positions and an adaptation to 2 different panel thicknesses | 2  |
| 281 S            | 1200 kg | Ditto with a bigger bore of the wheels and high precision needle roller bearings                                                                                             | 2  |
| 285              | 600 kg  | Hanger top fixing, with 2 steel wheels mounted on needle roller bearings. Fixing screw Ø M 16.                                                                               | 2  |
| 285 L            |         | Ditto with long fixing bolt (123 mm).                                                                                                                                        | 2  |
| 285 S            | 800 kg  | Hanger, top fixing with 2 steel wheels mounted on high precision needle roller bearings. Fixing bolt Ø M 20.                                                                 | 2  |
| 285 SL           |         | Ditto with long fixing bolt (133 mm).                                                                                                                                        | 2  |
| 2285             | 600 kg  | Hanger, top fixing, 4 wheels with ball bearings, nylon tyre and glass fiber. Fixing bolt Ø M 16.                                                                             | 2  |
| 2285 L           |         | Ditto with long fixing bolt (123 mm).                                                                                                                                        | 2  |
| 2285 A           | 800 kg  | Hanger, top fixing with carbonized steel wheels mounted on ball bearings. Fixing bolt Ø M 16.                                                                                | 2  |
| 2285 AL          |         | Ditto with long fixing bolt (123 mm).                                                                                                                                        | 2  |
| 2285 S           | 1200 kg | Hanger, top fixing with 4 wheels equipped with precision ball bearings. Recommended for FIRE DOORS and other HIGH QUALITY doors. Fixing bolt Ø M 20.                         | 2  |
| 2285 SL          |         | Ditto with long fixing bolt (133 mm).                                                                                                                                        | 2  |
| 85               |         | Plate, welding type Ø M 16.                                                                                                                                                  |    |
| 85 S             |         | Reinforced plate, welding type Ø M 20. See drawing on p. 17                                                                                                                  |    |
| 86               |         | Plate, screwing type for top fixing Ø M 16.                                                                                                                                  | 10 |
| 86 W             |         | «U» Plate, screwing type for top fixing, Ø M 16.                                                                                                                             | 10 |
| 86 S             |         | Plate, screwing type for top fixing. see drawing p. 17                                                                                                                       |    |
| 81               |         | Adjustable apron set for panels from 55 - 75 mm thickness - Side fixing, screwing type.                                                                                      |    |

| GUIDES   |                                                                                                                                                                                                  |   |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 1115/600 | U-profile 50 x 60 mm, galvanised. 6 m long                                                                                                                                                       |   |
| 1059     | Bottom guide with olive (equipped with needle roller bearings) fixed on a screwing type plate (with square ends) - For U-profile 50 x 60 mm<br>See dimensions and mounting instructions on p. 65 | 5 |



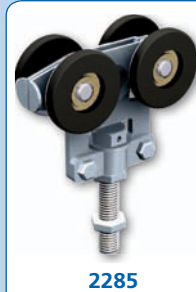
8570



281



285



2285



2285 A - 2285 S



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85



86



86 W



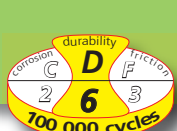
81



1059



1115

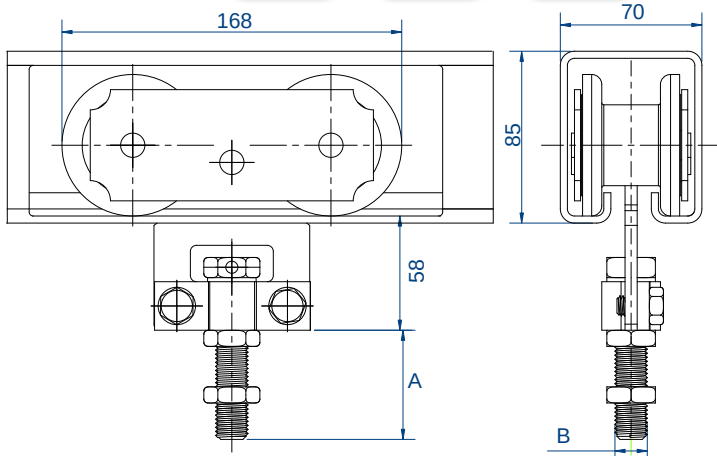


**600  
KG**

**800  
KG**

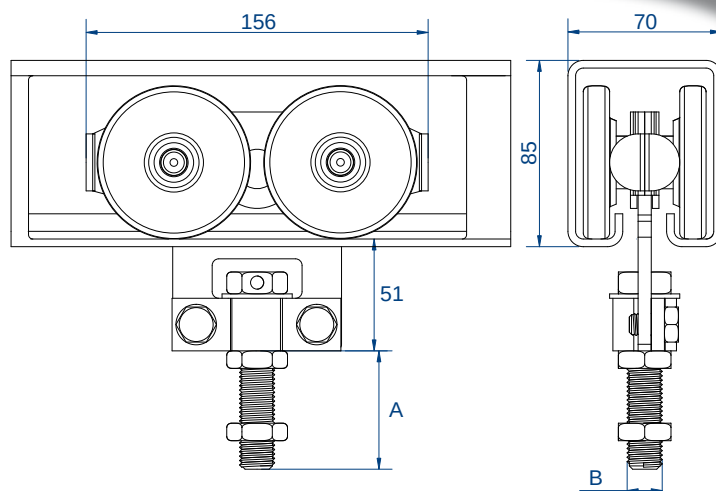
**1200  
KG**

# 200 & 2200 series



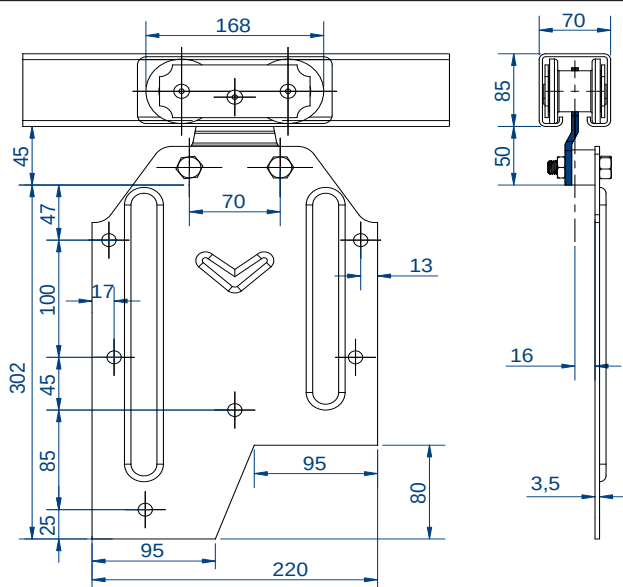
| Item Nr | A   | B    |
|---------|-----|------|
| 285     | 53  | M 16 |
| 285 S   | 63  | M 20 |
| 285 L   | 123 | M 16 |
| 285 SL  | 133 | M 20 |

**Hangers  
285 - 285 L  
&  
285 S - 285 SL**

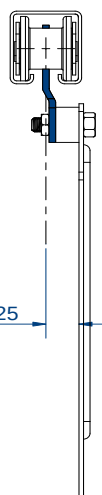


| Item Nr        | A   | B    |
|----------------|-----|------|
| 2285 2285 A    | 53  | M 16 |
| 2285 S         | 63  | M 20 |
| 2285 L 2285 AL | 123 | M 16 |
| 2285 SL        | 133 | M 20 |

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

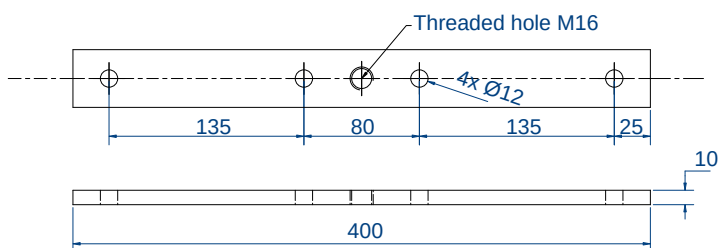


**Hangers 281 - 281 S**

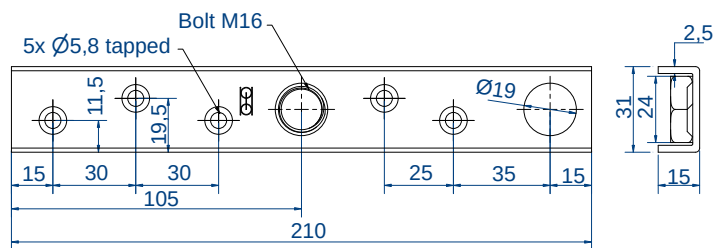


**Offset bracket**

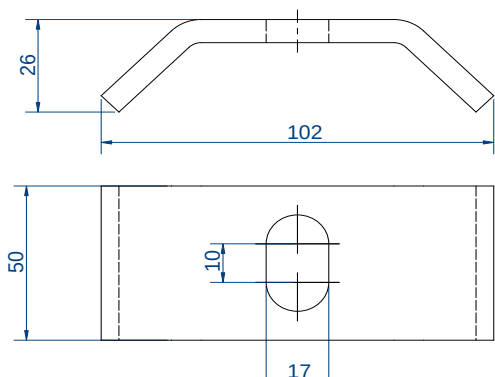
Removable flange, which enables 2 different positions and an adaptation to 2 different panel thicknesses. The door axis is very close to the track axis, this avoids a backbalance



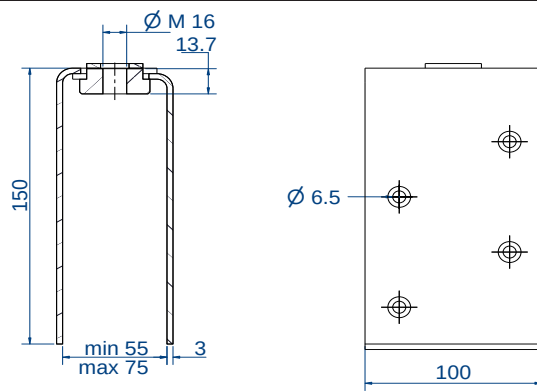
**Plate 86**



**Plate 86 W**



**Plate 85**



**Apron set 81**



**CAPACITY/DOOR :** up to 2000 kg

**TRACK:** 8570

**MOVEMENT :** STRAIGHT



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- «HLE» track : the track made of steel with «High Limit of Elasticity» enables heavy loads in safe conditions
- Hanger suitable for fire doors (2288S) with steel wheels and precision ball bearings
- For special mounting : the fixing bolt is 70 mm longer than the normal version (L version)
- For doors over 500 kg : the use of our brackets 8578 MC or 8578 ML is required (1 bracket every 0.50 m)

## TRACKS

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



8570

## DOUBLE HANGER "S" VERSION

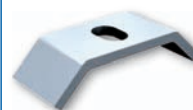
Capacity per door

### HANGERS & PLATES

|         |         |                                                                                                                                                         |   |
|---------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 288 S   | 2000 kg | Hanger, top fixing, with steel wheels mounted on needle roller bearings. Fixing bolt Ø M 20                                                             | 2 |
| 288 SL  |         | Ditto with long fixing bolt (133 mm)                                                                                                                    | 2 |
| 2288 S  |         | Hanger top fixing with 4 wheels equipped with high-precision ball bearings. Recommended for FIRE DOORS and other HIGH QUALITY doors. Fixing bolt Ø M 20 | 2 |
| 2288 SL |         | Ditto with long fixing bolt (133 mm)                                                                                                                    | 2 |
| 85 S    |         | Reinforced plate, welding type Ø M 20                                                                                                                   |   |
| 86 S    |         | Plate, screwing type for top fixing - Ø M 20<br>See drawing on p. 17.                                                                                   |   |



288 S - 288 SL



85 S



2288 S - 2288 SL



86 S

## GUIDES

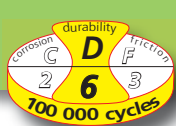
|          |                                                                                                                                                                                                 |   |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 1115/600 | U-profile 50 x 60 mm, galvanised - 6 m long                                                                                                                                                     |   |
| 1059     | Bottom guide with olive (equipped with needle roller bearings) fixed on a screwing type plate (with square ends). For U-profile 50 x 60 mm<br>See dimensions and mounting instructions on p. 65 | 5 |



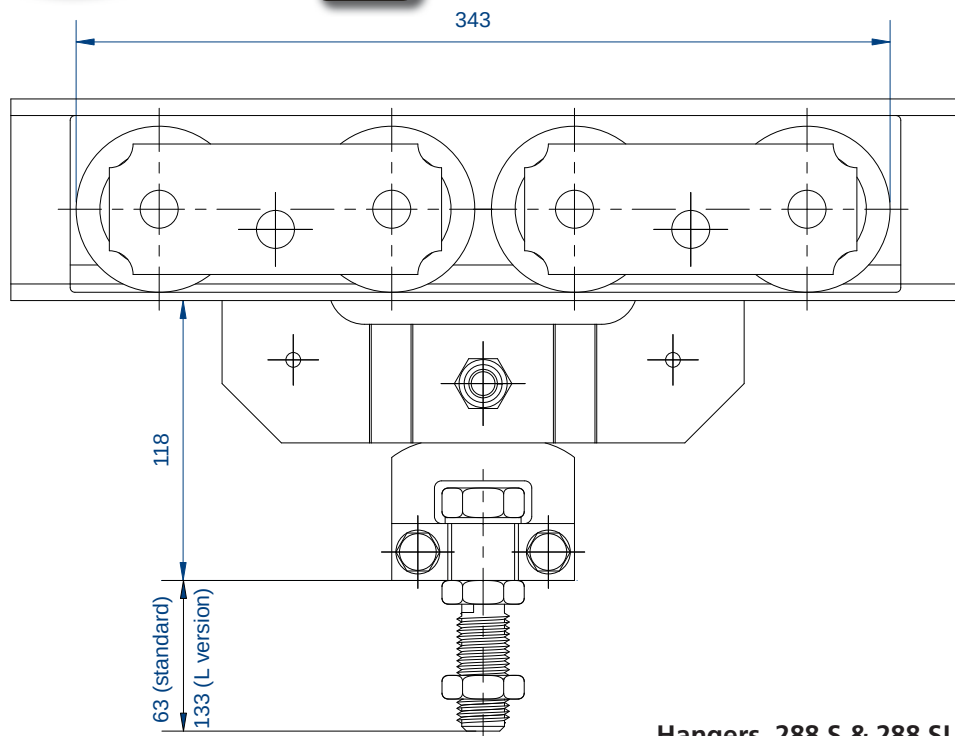
1059



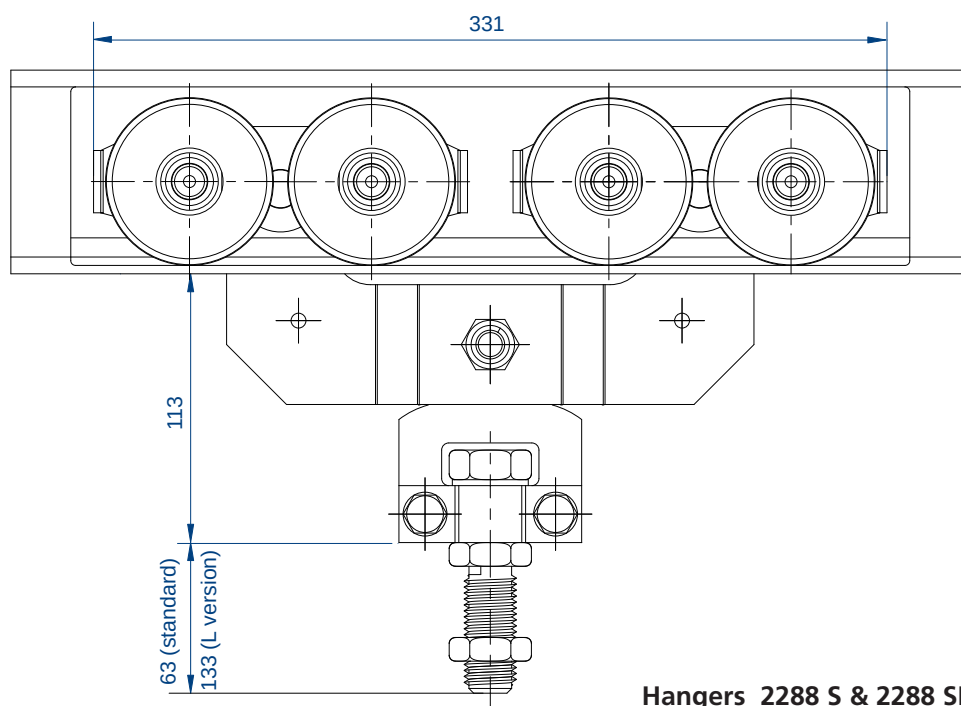
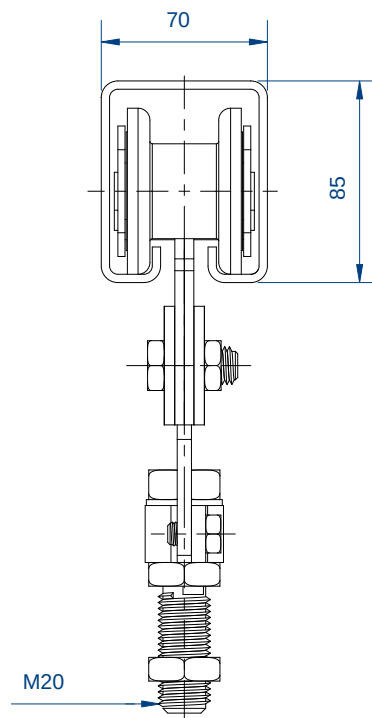
1115



# 200 & 2200 series



Hangers 288 S & 288 SL



Hangers 2288 S & 2288 SL

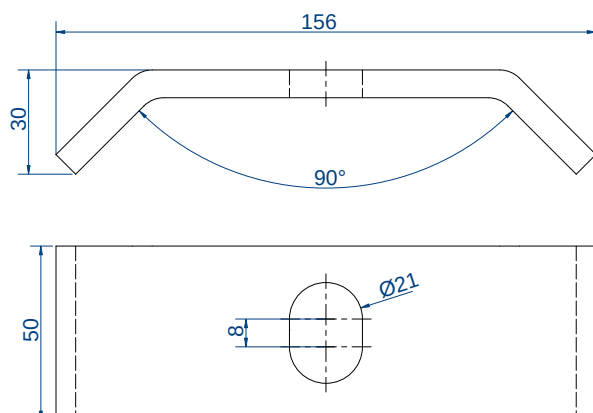
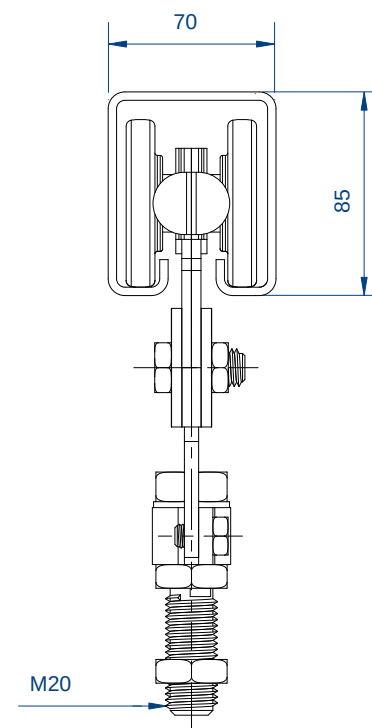


Plate 85 S

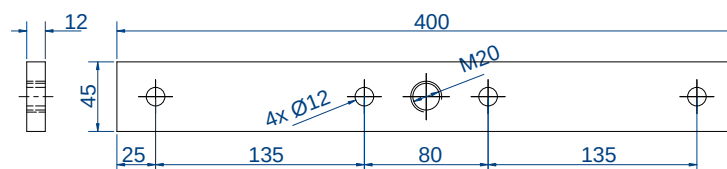


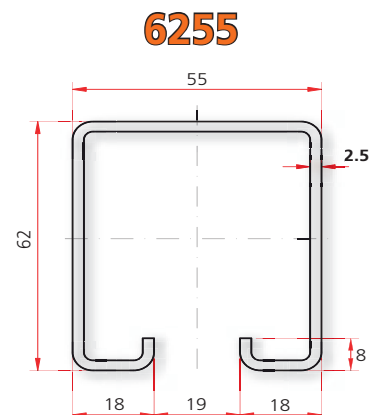
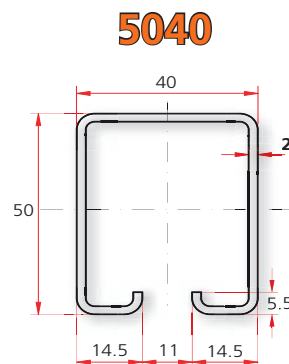
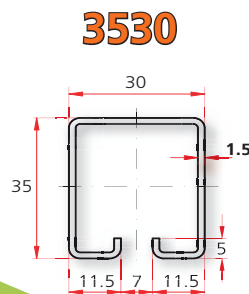
Plate 86 S

## Door accessories for straight sliding doors

- **all accessories in one set**
- **jointing brackets are included**
- **enables gain of time for the order preparation**
- **in accordance with the European standard EN 1527**



**the tracks in  
2m, 3m and 4m lengths  
make transport and  
mounting easier**



The Manton warranty applies also on this range (tracks + sets).

## SET for doors up to 80 kg

### Comprising:

- 2 hangers 235A (top fixing) equipped with 2 steel wheels mounted on needle roller bearings
- 2 plates 36, top fixing.
- 6 brackets 3531
- 1 jointing bracket 3531 MC
- 7 angle plates 3533
- 2 ornamental caps 3540
- 2 bottom guides 1102
- 2 stops 1086
- 1 handle 1298

**3530 GV**

**3530/200**

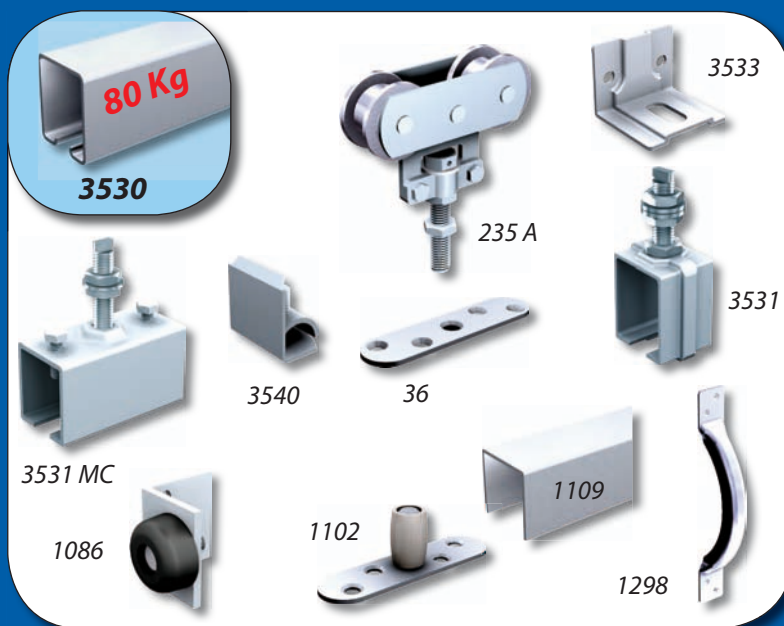
Track 3530. Length: 2 m.

**3530/300**

Track 3530. Length: 3 m.

**1109/200**

U-profile 1109. Length: 2 m.



## SET for doors up to 150 kg

### Comprising:

- 2 hangers 255A (top fixing) equipped with 2 steel wheels mounted on needle roller bearings
- 2 plates 56, top fixing
- 8 brackets 5041
- 1 jointing bracket 5041 MC
- 9 angles 5043
- 2 ornamental caps 5050
- 2 bottom guides 1099
- 2 stops 2091
- 1 handle 1298

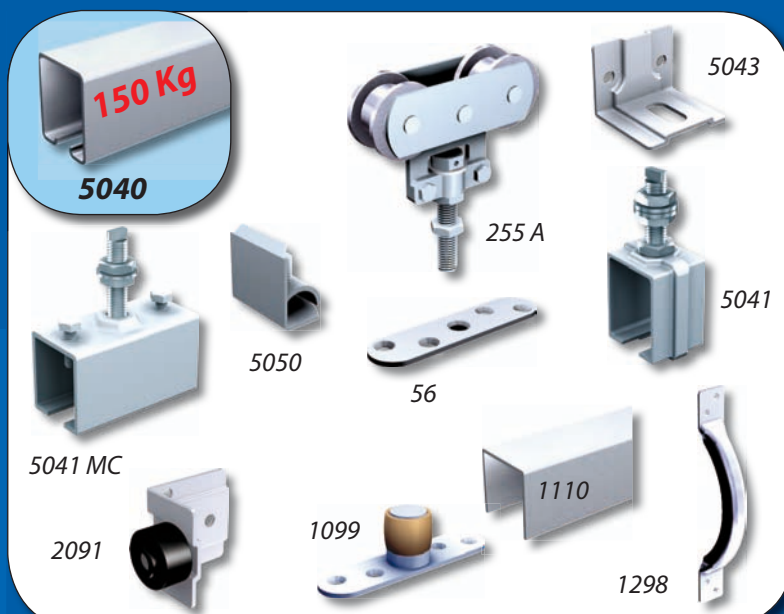
**5040 GV**

**5040/300**

Track 5040. Length: 3 m.

**1110/300**

U-profile 1110. Length: 3 m.



## SET for doors up to 300 kg

### Comprising.:

- 2 hangers 265A (top fixing) equipped with 2 steel wheels mounted on needle roller bearings
- 2 plates 66. Top fixing
- 12 brackets 6256
- 1 jointing bracket 6256 MC
- 13 angle plates 6258
- 2 ornamental caps 6265
- 2 bottom guides 1101
- 2 stops 2094
- 1 handle 1297

**6255 GV**

**6255/300**

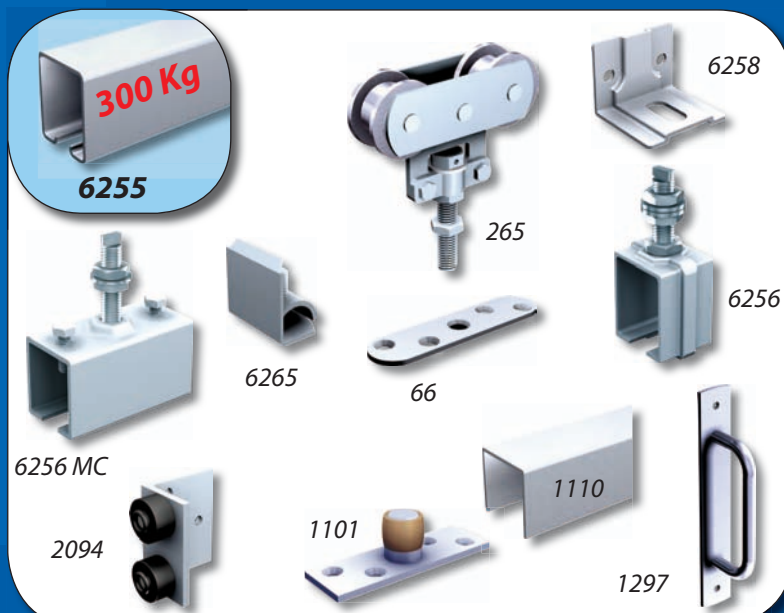
Track 6255. Length : 3 m.

**6255/400**

Track 6255. Length : 4 m.

**1110/400**

U-profile 1110. Length : 4 m.



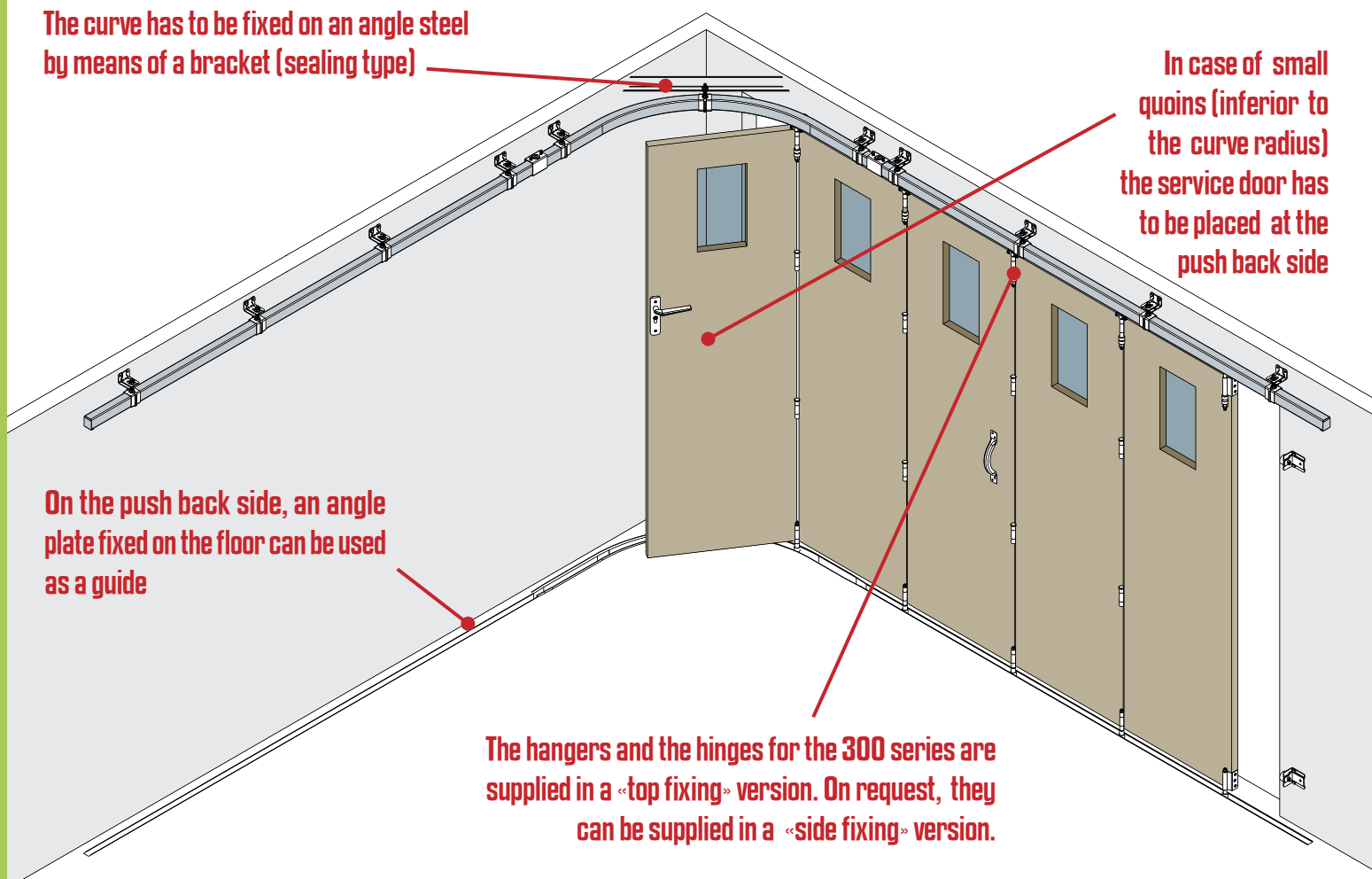


**CAPACITY / PANEL :** 200 kg max.

**TRACK :** 3530 to 8570

**MOVEMENT :** LATERAL

- These hangers are especially designed for lateral sliding doors with a tubular track
- Hangers with 4 different capacities corresponding to 4 different track sections



## HOW TO CHOOSE THE HANGER AND THE TRACK :

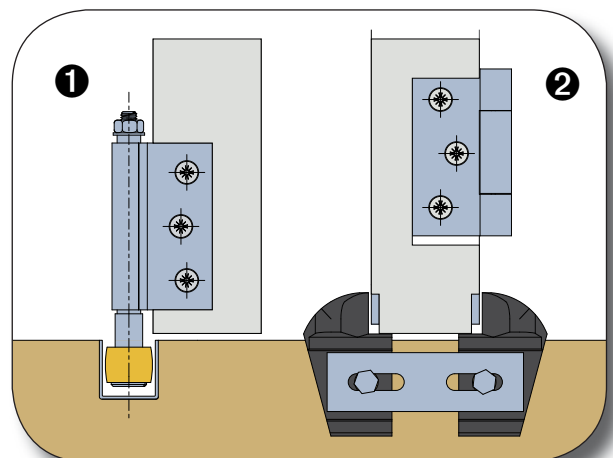
For a door without a service door : the weight of a single panel has to be taken into consideration.

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

## BOTTOM GUIDING :

- 1 with hinges : as many guides as hangers are required
- 2 with shoe guides : as many guides as hangers are required (one of them being a half shoe guide)

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



# ***Sliding systems for ROUND THE CORNER doors***

## ***300<sup>®</sup> series***



***With screwing type hinges***

***22-23***

***With welding type hinges***

***24-25***

| HANGERS : CAPACITY : 30 kg |      |                                                             | Track : 3530            |
|----------------------------|------|-------------------------------------------------------------|-------------------------|
| Item Nr                    | Fig. | Description                                                 | Pack.                   |
| 332                        | 1    | Intermediate hanger with hinge (capacity : 30 kg)           | 2                       |
| 332 E                      | 2    | Offset end hanger (capacity : 15 kg)                        | 2                       |
| 1104                       | 3    | Bottom guide with hinge for U-profile 25 x 17 (1109)        |                         |
| 1104 E                     | 4    | Offset bottom guide with hinge for U-profile 25 x 17 (1109) |                         |
| 1510 C                     | 5    | Hinge 80 x 60, axis Ø 10, top fixing                        | 10                      |
| 1109/400                   |      | U-profile 25 x 17, galvanized. 4 m long.                    | 4                       |
| 1109/500                   | 7    | Ditto 5 m long.                                             | 4                       |
| 1109/600                   |      | Ditto 6 m long.                                             | 4                       |
| 1109 M                     | 8    | Jointing bracket for U-profile (25 x 17) Item Nr. 1109      |                         |
| 3530 C                     | 9    | Galvanized curve - R : 500 mm                               | For panels up to 550 mm |
| 1109 C                     | 10   | U-curve galvanized, 25 x 17. R : 500 mm                     |                         |
| 3539                       | 11   | Angle steel (30 x 20), for curve. Sealing type 610 mm long. |                         |

| HANGERS : CAPACITY : 60 kg |      |                                                             | Track : 5040            |
|----------------------------|------|-------------------------------------------------------------|-------------------------|
| Item Nr                    | Fig. | Description                                                 | Pack.                   |
| 352                        | 1    | Intermediate hanger with hinge (capacity : 60 kg)           | 2                       |
| 352 E                      | 2    | Offset end hanger (capacity : 30 kg)                        | 2                       |
| 1105                       | 3    | Bottom guide with hinge for U-profile 30 x 30 (1110)        |                         |
| 1105 E                     | 4    | Offset bottom guide with hinge for U-profile 30 x 30 (1110) |                         |
| 1512 C                     | 5    | Hinge 85 x 85, axis Ø 12, top fixing                        | 10                      |
| 1110/400                   |      | U-profile 30 x 30, galvanized. 4 m long.                    | 4                       |
| 1110/500                   | 7    | Ditto 5 m long.                                             | 4                       |
| 1110/600                   |      | Ditto 6 m long.                                             | 4                       |
| 1110 M                     | 8    | Jointing bracket for U-profile 30 x 30 (1110)               |                         |
| 5040 C                     | 9    | Galvanized curve - R = 600 mm                               | For panels up to 650 mm |
| 1111 C                     | 10   | U-curve galvanized, 30 x 30. R = 600 mm                     |                         |
| 5049                       | 11   | Angle steel (40 x 25), for curve. Sealing type 710 mm long. |                         |

| HANGERS : CAPACITY 120 kg |      |                                                             | Track : 6255            |
|---------------------------|------|-------------------------------------------------------------|-------------------------|
| Item Nr                   | Fig. | Description                                                 | Pack.                   |
| 362                       | 1    | Intermediate hanger with hinge (capacity : 120 kg)          | 2                       |
| 362 E                     | 2    | Offset end hanger (capacity : 60 kg)                        | 2                       |
| 1106                      | 3    | Bottom guide with hinge for U-profile 30 x 30 (1110)        |                         |
| 1106 E                    | 4    | Offset bottom guide with hinge for U-profile 30 x 30 (1110) |                         |
| 1514 C                    | 6    | Hinge 120 x 100, axis Ø 14, top fixing                      | 6                       |
| 1110/400                  |      | U-profile 30 x 30, galvanized. 4 m long.                    | 4                       |
| 1110/500                  | 7    | Ditto 5 m long.                                             | 4                       |
| 1110/600                  |      | Ditto 6 m long.                                             | 4                       |
| 1110 M                    | 8    | Jointing bracket for U-profile 30 x 30 (1110)               |                         |
| 6255 C                    | 9    | Galvanized curve - R = 800 mm                               | For panels up to 900 mm |
| 1112 C                    | 10   | U-curve galvanized, 30 x 30. R = 800 mm                     |                         |
| 6264                      | 11   | Angle steel (50 x 30), for curve. Sealing type 870 mm long. |                         |

| HANGERS : CAPACITY : 200 kg |      |                                                              | Track : 8570             |
|-----------------------------|------|--------------------------------------------------------------|--------------------------|
| Item Nr                     | Fig. | Description                                                  | Pack.                    |
| 382                         | 1    | Intermediate hanger with hinge (capacity : 200 kg)           | 2                        |
| 382 E                       | 2    | Offset end hanger (capacity : 100 kg)                        | 2                        |
| 1108                        | 3    | Bottom guide with hinge for U-profile 30 x 30 (1110)         |                          |
| 1108 E                      | 4    | Guide du bas d'extrémité, déporté pour U 30 x 30 (1110)      |                          |
| 1516 C                      | 6    | Hinge 120 x 16, axis Ø 14, top fixing                        | 4                        |
| 1110/400                    |      | U-profile 30 x 30, galvanized. 4 m long.                     | 4                        |
| 1110/500                    | 7    | Ditto 5 m long.                                              | 4                        |
| 1110/600                    |      | Ditto 6 m long.                                              | 4                        |
| 1110 M                      | 8    | Jointing bracket for U-profile 30 x 30 (1110)                |                          |
| 8570 C                      | 9    | Galvanized curve - R = 1000.                                 | For panels up to 1100 mm |
| 1113 C                      | 10   | U-curve galvanized, 30 x 30. R = 1000.                       |                          |
| 8579                        | 11   | Angle steel (60 x 40), for curve. Sealing type 1030 mm long. |                          |

| GUIDANCE WITH SHOE GUIDE |      |                                                              |
|--------------------------|------|--------------------------------------------------------------|
| Item Nr                  | Fig. | Description                                                  |
| 1011                     | 12   | Cast iron shoe guide, sealing type. Adjustable (21 to 50 mm) |
| 1012                     | 13   | Half shoe guide in cast iron - Sealing type.                 |



1



2



3



4



5



6



7



8



9

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10



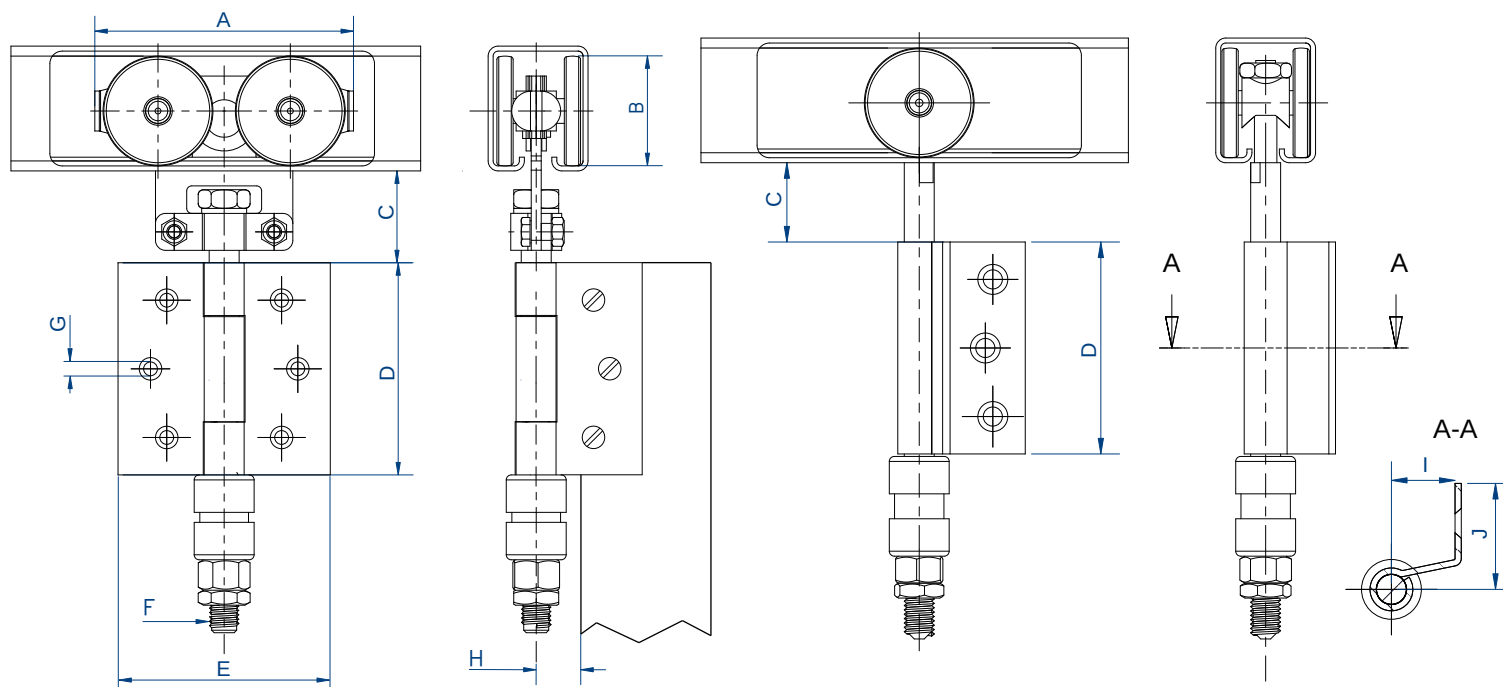
11



12



13



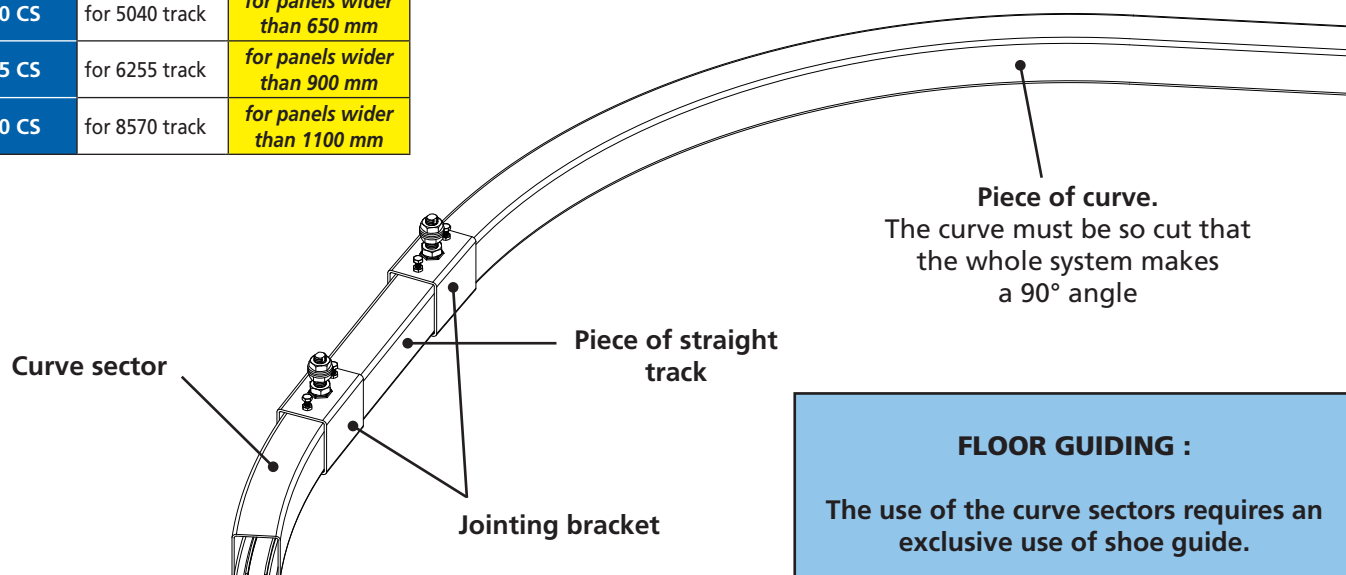
Intermediate hangers

End hangers

| Item Nr. | A   | B  | C    |      | D   | E   | F    | G | H  | I    | J  |
|----------|-----|----|------|------|-----|-----|------|---|----|------|----|
|          |     |    | Min. | Max. |     |     |      |   |    |      |    |
| 332      | 87  | 30 | 30   | 45   | 80  | 60  | M 10 | 5 | 11 | 15.2 | 30 |
| 352      | 104 | 44 | 35   | 55   | 85  | 85  | M 12 | 5 | 12 | 25.5 | 43 |
| 362      | 140 | 55 | 40   | 70   | 120 | 100 | M 14 | 6 | 15 | 25.5 | 50 |
| 382      | 158 | 70 | 55   | 85   | 120 | 100 | M 16 | 6 | 17 | 33   | 50 |

## USE OF CURVE SECTORS FOR *WIDE PANELS*

| CURVE SECTOR |                |                               |
|--------------|----------------|-------------------------------|
| 3530 CS      | for 3530 track | for panels wider than 550 mm  |
| 5040 CS      | for 5040 track | for panels wider than 650 mm  |
| 6255 CS      | for 6255 track | for panels wider than 900 mm  |
| 8570 CS      | for 8570 track | for panels wider than 1100 mm |



### FLOOR GUIDING :

The use of the curve sectors requires an exclusive use of shoe guide.



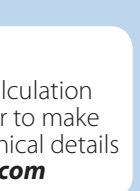
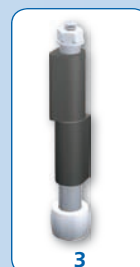
| HANGERS : CAPACITY : 30 Kg |      |                                                                | Track : 3530               |
|----------------------------|------|----------------------------------------------------------------|----------------------------|
| Item Nr                    | Fig. | Description                                                    | Pack.                      |
| 332 SO                     | 1    | Intermediate hanger with hinge (capacity : 30 kg)              | 2                          |
| 332 SOE                    | 2    | End hanger with a 1/2 hinge (capacity 15 kg)                   | 2                          |
| 1104 SO                    | 3    | Bottom guide with hinge for U-profile 25 x 17 (1109)           |                            |
| 1104 SOE                   | 4    | End bottom guide, on 1/2 hinge for U-profile 1109              |                            |
| 1510 SO                    | 5    | Welding hinge, Height : 80, axle Ø 10                          | 4                          |
| 1109/400                   |      | U-profile 25 x 17, galvanized - 4 m long                       | 4                          |
| 1109/500                   | 6    | Ditto - 5 m long                                               | 4                          |
| 1109/600                   |      | Ditto - 6 m long                                               | 4                          |
| 1109 M                     | 7    | Jointing bracket for U-profile 25 x 17(1109)                   |                            |
| 3530 C                     | 8    | Galvanized curve 35 x 30 - Radius = 500                        | For panels<br>up to 500 mm |
| 1109 C                     | 9    | Galvanized U-curve 25 x 17 - Radius = 500                      |                            |
| 3539                       | 11   | Angle steel, welding type (30 x 20) for curve.<br>610 mm long. |                            |

| HANGERS : CAPACITY : 60 Kg |      |                                                                | Track : 5040               |
|----------------------------|------|----------------------------------------------------------------|----------------------------|
| Item Nr                    | Fig. | Description                                                    | Pack.                      |
| 352 SO                     | 1    | Intermediate hanger with hinge (capacity : 60 kg)              | 2                          |
| 352 SOE                    | 2    | End hanger with a 1/2 hinge (capacity : 30 kg)                 | 2                          |
| 1105 SO                    | 3    | Bottom guide with hinge for U-profile 30 x 30 (1110)           |                            |
| 1105 SOE                   | 4    | End bottom guide, on 1/2 hinge for U-profile 1110              |                            |
| 1512 SO                    | 5    | Welding hinge, Height : 85, axle Ø 12                          | 4                          |
| 1110/400                   |      | U-profile 30 x 30, galvanised - 4 m long                       | 4                          |
| 1110/500                   | 6    | Ditto - 5 m long                                               | 4                          |
| 1110/600                   |      | Ditto - 6 m long                                               | 4                          |
| 1110 M                     | 7    | Jointing bracket for U-profile 30 x 30 (1110)                  |                            |
| 5040 C                     | 8    | Galvanised curve 50 x 40 - Radius = 600                        | For panels<br>up to 650 mm |
| 1111 C                     | 9    | Galvanised U-curve 30 x 30 - Radius = 600                      |                            |
| 5049                       | 11   | Angle steel (30 x 20), for curve. Sealing type<br>710 mm long. |                            |

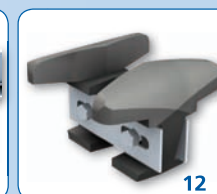
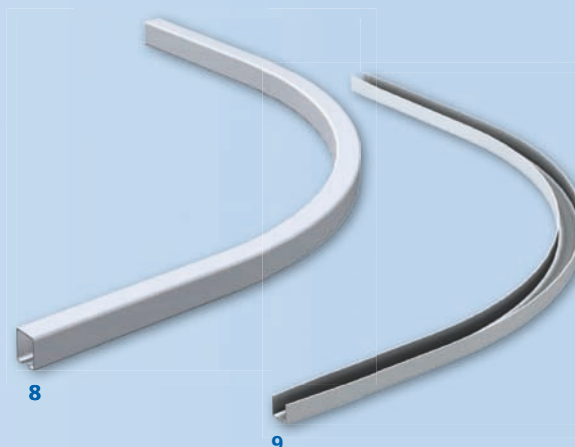
| HANGERS : CAPACITY : 120 Kg |      |                                                                | Track : 6255               |
|-----------------------------|------|----------------------------------------------------------------|----------------------------|
| Item Nr                     | Fig. | Description                                                    | Pack.                      |
| 362 SO                      | 1    | Intermediate hanger with hinge (capacity : 120 kg)             | 2                          |
| 362 SOE                     | 2    | End hanger with a 1/2 hinge (capacity : 60 kg)                 | 2                          |
| 1106 SO                     | 3    | Bottom guide with hinge for U-profile 30 x 30 (1110)           |                            |
| 1106 SOE                    | 4    | End bottom guide, on 1/2 hinge for U-profile 1110              |                            |
| 1514 SO                     | 5    | Welding hinge, Height : 120, axle Ø 14                         | 4                          |
| 1110/400                    |      | U-profile 30 x 30, galvanised - 4 m long                       | 4                          |
| 1110/500                    | 6    | Ditto - 5 m long                                               | 4                          |
| 1110/600                    |      | Ditto - 6 m long                                               | 4                          |
| 1110 M                      | 7    | Jointing bracket for U-profile 30 x 30 (1110)                  |                            |
| 6255 C                      | 8    | Galvanised curve 62 x 55 - Radius : 800                        | For panels<br>up to 900 mm |
| 1112 C                      | 9    | Galvanised U-curve 30 x 30 - Radius : 800                      |                            |
| 6264                        | 11   | Angle steel (50 x 30), for curve. Sealing type<br>870 mm long. |                            |

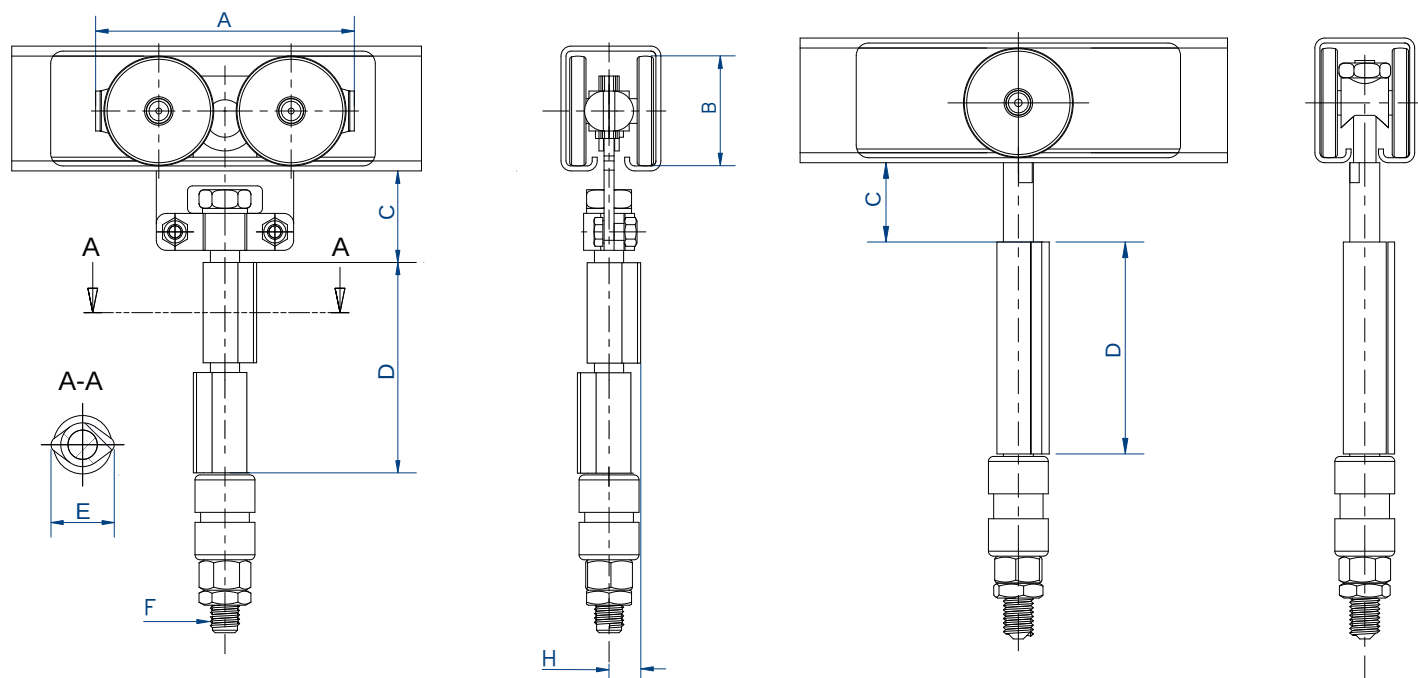
| HANGERS : CAPACITY : 200 Kg |      |                                                                   | Track : 8570                |
|-----------------------------|------|-------------------------------------------------------------------|-----------------------------|
| Item Nr                     | Fig. | Description                                                       | Pack.                       |
| 382 SO                      | 1    | Intermediate hanger with hinge (capacity : 200 kg)                | 2                           |
| 382 SOE                     | 2    | End hanger with a 1/2 hinge (capacity : 100 kg)                   | 2                           |
| 1108 SO                     | 3    | Bottom guide with hinge for U-profile 30 x 30 (1110)              |                             |
| 1108 SOE                    | 4    | End bottom guide, on 1/2 hinge for U-profile 1110                 |                             |
| 1516 SO                     | 5    | Welding hinge, Height : 120, axle Ø 16                            | 4                           |
| 1110/400                    |      | U-profile 30 x 30, galvanized - 4 m long                          | 4                           |
| 1110/500                    | 6    | Ditto - 5 m long                                                  | 4                           |
| 1110/600                    |      | Ditto - 6 m long                                                  | 4                           |
| 1110 M                      | 7    | Jointing bracket for U-profile 30 x 30 (1110)                     |                             |
| 8570 C                      | 8    | Galvanised curve 85 x 70 - Radius : 1000                          | For panels<br>up to 1100 mm |
| 1113 C                      | 9    | Galvanised U-curve 30 x 30 - Radius : 1000                        |                             |
| 8579                        | 11   | Angle steel (60 x 40), for curve. Sealing type -<br>1030 mm long. |                             |

| GUIDANCE WITH SHOE GUIDE |      |                                                              |
|--------------------------|------|--------------------------------------------------------------|
| Item Nr                  | Fig. | Description                                                  |
| 1011                     | 12   | Cast iron shoe guide, sealing type. Adjustable (21 to 50 mm) |
| 1012                     | 13   | Half shoe guide in cast iron - Sealing type.                 |



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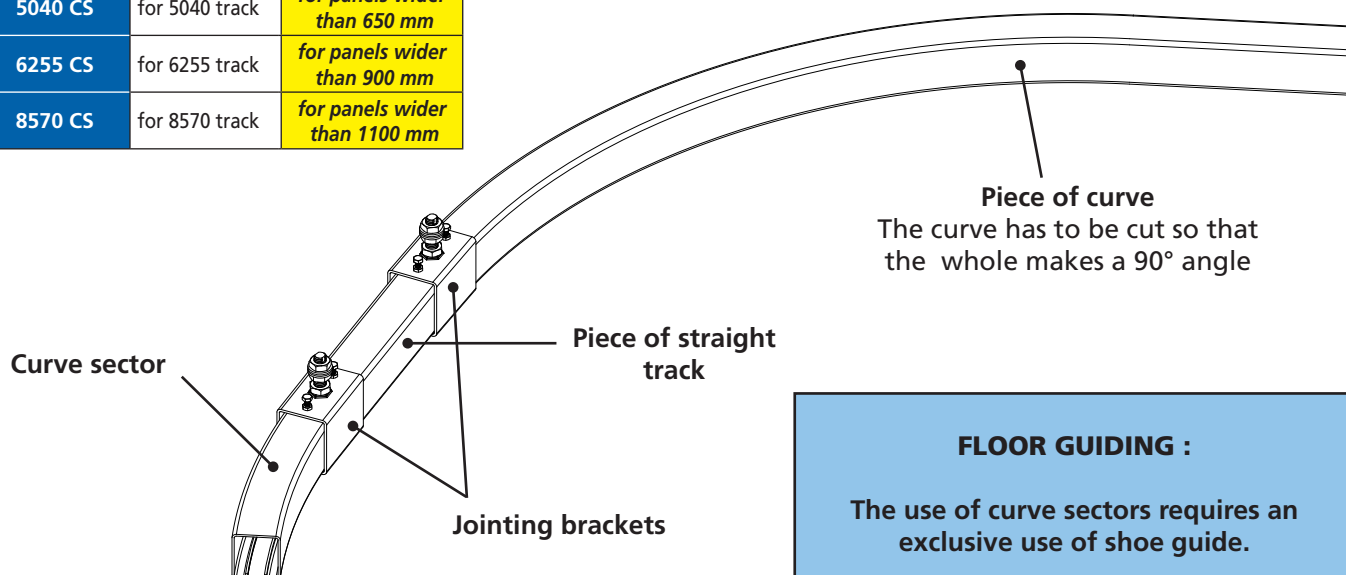
Intermediate hangers

End hangers

| Item Nr | A   | B  | C    |      | D   | E  | F    | H  |
|---------|-----|----|------|------|-----|----|------|----|
|         |     |    | Min. | Max. |     |    |      |    |
| 332 SO  | 87  | 30 | 30   | 45   | 80  | 22 | M 10 | 11 |
| 352 SO  | 104 | 44 | 35   | 55   | 85  | 24 | M 12 | 12 |
| 362 SO  | 140 | 55 | 40   | 70   | 120 | 30 | M 14 | 15 |
| 382 SO  | 158 | 70 | 55   | 85   | 120 | 34 | M 16 | 17 |

## USE OF CURVES SECTORS FOR WIDE PANELS

| CURVE SECTORS |                |                               |
|---------------|----------------|-------------------------------|
| 3530 CS       | for 3530 track | for panels wider than 550 mm  |
| 5040 CS       | for 5040 track | for panels wider than 650 mm  |
| 6255 CS       | for 6255 track | for panels wider than 900 mm  |
| 8570 CS       | for 8570 track | for panels wider than 1100 mm |



See assembly instructions on p. 20

CAPACITY / PANEL : up to 150 kg

TRACK : 3530 to 8570

MOVEMENT : STRAIGHT FOLDING

- A complete range :
  - 4 systems up to 150 kg / panel
  - for panels up to 0.90 m width
  - screwing or welding versions
- **Solution** which combines a wide opening with a service door
- **Reduced space needed when open**

The hangers and hinges of this 500 Series are supplied for a top-fixing. They can be supplied for a side-fixing on request.

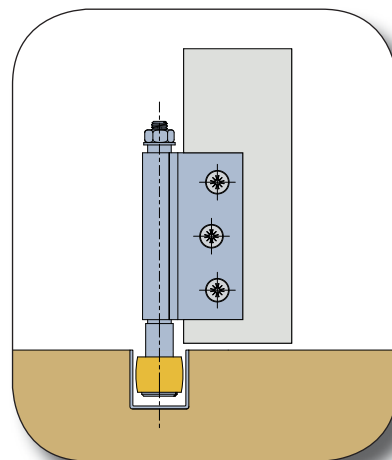
Place a complementary bracket on the push back side and use brackets 8578MC or brackets 8578ML for doors over 500 kg

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

Floor guiding is imperative

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

#### FLOOR GUIDING :



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

## ***500® Series***



***With screwing type hinges***

***28-29***

***With welding type hinges***

***30-31***





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## FOR PANELS UP TO 20 KG Track : 3530

| Item Nr  | Fig. | Description                                              | Pack. |
|----------|------|----------------------------------------------------------|-------|
| 532      | 1    | Intermediate hanger, mounted on a hinge (capacity 40 kg) | 2     |
| 532 E    | 2    | Off-center end hanger (capacity 20 kg)                   | 2     |
| 1104     | 3    | Bottom guide on a hinge for U profile 25 x 17 (1109)     |       |
| 1104 E   | 4    | Off-center bottom end guide for U profile 25 x 17 (1109) |       |
| 1510 C   | 5    | Hinge 80 x 60, with a Ø 10 axle, top-fixing              | 10    |
| 1109/400 |      | Galvanised U-profile 25 x 17 - 4 m long                  | 4     |
| 1109/500 | 7    | Ditto - 5 m long                                         | 4     |
| 1109/600 |      | Ditto - 6 m long                                         | 4     |
| 1109 M   | 8    | Jointing bracket for U profile 25 x 17 (1109)            |       |

## FOR PANELS UP TO 38 KG Track : 5040

|          |   |                                                          |    |
|----------|---|----------------------------------------------------------|----|
| 552      | 1 | Intermediate hanger, mounted on a hinge (capacity 75 kg) | 2  |
| 552 E    | 2 | Off-center end hanger (capacity 37 kg)                   | 2  |
| 1105     | 3 | Bottom guide on a hinge for U profile 30 x 30 (1110)     |    |
| 1105 E   | 4 | Off-center bottom end guide for U profile 30 x 30 (1110) |    |
| 1512 C   | 5 | Hinge 85 x 85, with a Ø 12 axle, top-fixing              | 10 |
| 1110/400 |   | Galvanised U-profile 30 x 30 - 4 m long                  | 4  |
| 1110/500 | 7 | Ditto - 5 m long                                         | 4  |
| 1110/600 |   | Ditto - 6 m long                                         | 4  |
| 1110 M   | 8 | Jointing bracket for U profile 30 x 30 (1110)            |    |

## FOR PANELS UP TO 75 KG Track : 6255

|          |   |                                                           |   |
|----------|---|-----------------------------------------------------------|---|
| 562      | 1 | Intermediate hanger, mounted on a hinge (capacity 150 kg) | 2 |
| 562 E    | 2 | Off-center end hanger (capacity 75 kg)                    | 2 |
| 1106     | 3 | Bottom guide on a hinge for U-profile 30 x 30 (1110)      |   |
| 1106 E   | 4 | Off-center bottom end guide for U-profile 30 x 30 (1110)  |   |
| 1514 C   | 6 | Hinge 120 x 100, with a Ø 14 axle, top-fixing             | 6 |
| 1110/400 |   | Galvanised U profile 30 x 30 - 4 m long                   | 4 |
| 1110/500 | 7 | Ditto - 5 m long                                          | 4 |
| 1110/600 |   | Ditto - 6 m long                                          | 4 |
| 1110 M   | 8 | Jointing bracket for U-profile 30 x 30 (1110)             |   |

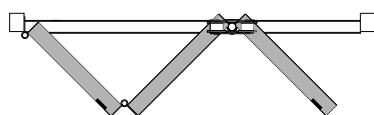
## FOR PANELS UP TO 150 KG Track : 8570

|          |   |                                                           |   |
|----------|---|-----------------------------------------------------------|---|
| 582      | 1 | Intermediate hanger, mounted on a hinge (capacity 300 kg) | 2 |
| 582 E    | 2 | Off-center end hanger (capacity 150 kg)                   | 2 |
| 1114     | 3 | Bottom guide on a hinge for U-profile 50 x 60 (1115)      |   |
| 1114 E   | 4 | Off-center bottom end guide for U-profile 50 x 60 (1115)  |   |
| 1516 C   | 6 | Hinge 120 x 100, 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 (1115)             |   |

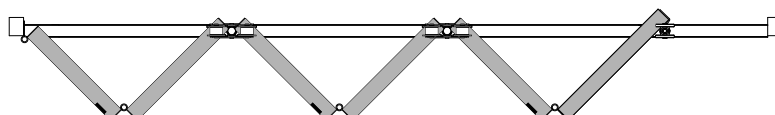


## EXAMPLES OF ASSEMBLY :

2 panels and 1 service door



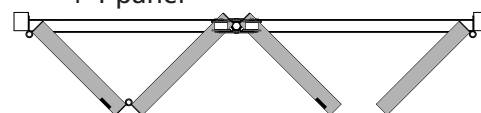
6 panels together



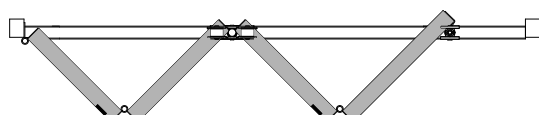
2 panels and 1 service door  
+ 2 panels together



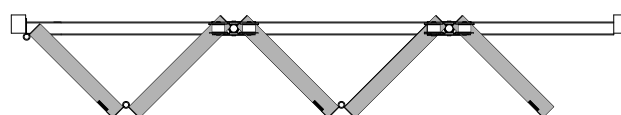
2 panels and 1 service door  
+ 1 panel

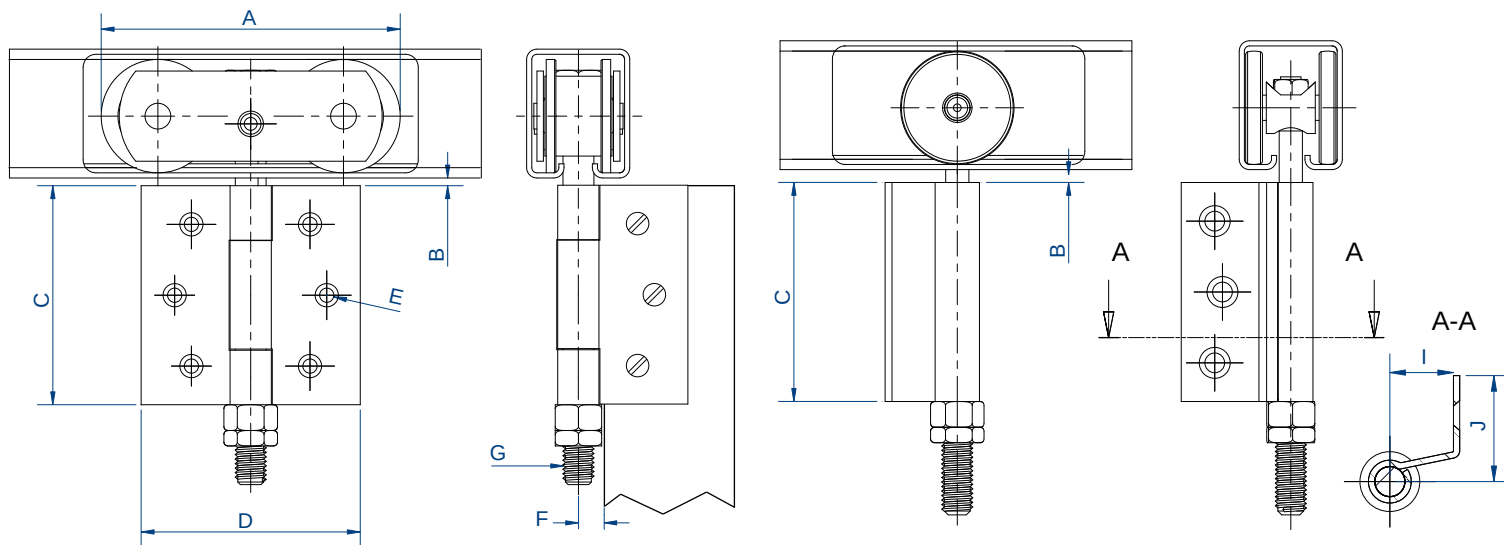


4 panels together



4 panels and 1 service door





Intermediate hangers

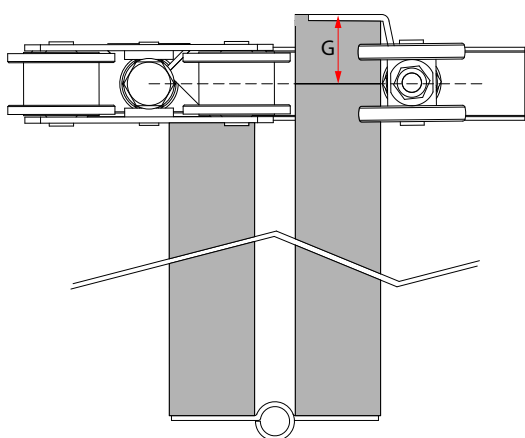
End hangers

| Item Nr | A   | B    |      | C   | D   | E | F  | G   | I    | J    |
|---------|-----|------|------|-----|-----|---|----|-----|------|------|
|         |     | Min. | Max. |     |     |   |    |     |      |      |
| 532     | 77  | 6    | 15   | 80  | 60  | 5 | 11 | M10 | 15   | 30   |
| 552     | 116 | 5    | 15   | 85  | 85  | 5 | 12 | M12 | 25.5 | 42.5 |
| 562     | 137 | 5    | 17   | 120 | 100 | 6 | 13 | M14 | 25.5 | 50   |
| 582     | 168 | 5    | 17   | 120 | 100 | 6 | 13 | M16 | 33   | 50   |

## USE OF END HANGERS :

They must be fixed on to the end panels. The width of the end panels must be equal to the width of the other panels, increased by the G dimension.

| Item Nr | G    |
|---------|------|
| 532 E   | 17   |
| 552 E   | 28   |
| 562 E   | 28.5 |
| 582 E   | 37   |



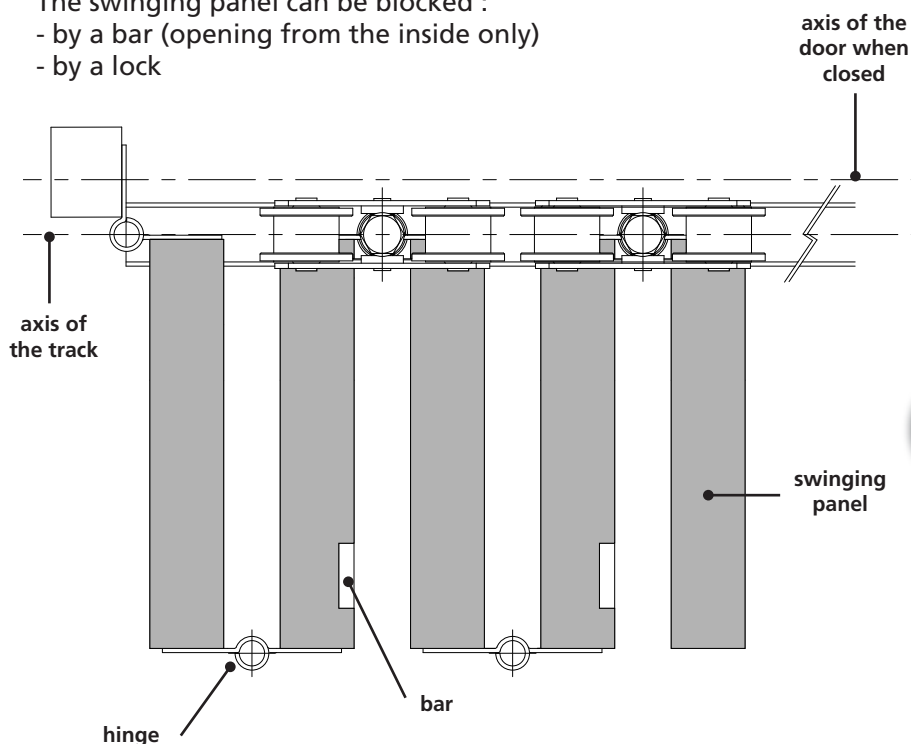
## CROSS SECTION, TOP VIEW :

**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 500 series.

The swinging panel can be blocked :

- by a bar (opening from the inside only)
- by a lock



See our assembly recommendations on p. 26



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| FOR PANELS UP TO 20 KG |      |                                                                      | Track : 3530 |
|------------------------|------|----------------------------------------------------------------------|--------------|
| Item Nr                | Fig. | Description                                                          | Pack.        |
| 532 SO                 | 1    | Intermediate hanger, mounted on a hinge (capacity 40 kg)             | 2            |
| 532 SOE                | 2    | End hanger mounted on a 1/2 hinge (capacity 20 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 (1109) |              |
| 1510 SO                | 5    | Hinge, welding type<br>Height : 80 mm - Ø 10 mm axle                 | 4            |
| 1109/400               | 6    | Galvanized U profile 25 x 17 - 4 m long                              | 4            |
| 1109/500               |      | Ditto - 5 m long                                                     | 4            |
| 1109/600               |      | Ditto - 6 m long                                                     | 4            |
| 1109 M                 | 7    | Jointing bracket for U profile 25 x 17 (item No. 1109)               |              |

| FOR PANELS UP TO 38 KG |      |                                                                      | Track : 5040 |
|------------------------|------|----------------------------------------------------------------------|--------------|
| Item Nr                | Fig. | Description                                                          | Pack.        |
| 552 SO                 | 1    | Intermediate hanger, mounted on a hinge (capacity 75 kg)             | 2            |
| 552 SOE                | 2    | End hanger mounted on a 1/2 hinge (capacity 37 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 (1110) |              |
| 1512 SO                | 5    | Hinge, welding type<br>Height : 85 mm - Ø 12 mm axle                 | 4            |
| 1110/400               | 6    | Galvanised U profile 30 x 30 - 4 m long                              | 4            |
| 1110/500               |      | Ditto - 5 m long                                                     | 4            |
| 1110/600               |      | Ditto - 6 m long                                                     | 4            |
| 1110 M                 | 7    | Jointing bracket for U-profile 30 x 30 (1110)                        |              |

| FOR PANELS UP TO 75 KG |      |                                                                      | Track : 6255 |
|------------------------|------|----------------------------------------------------------------------|--------------|
| Item Nr                | Fig. | Description                                                          | Pack.        |
| 562 SO                 | 1    | Intermediate hanger, mounted on a hinge (capacity 150 kg)            | 2            |
| 562 SOE                | 2    | End hanger mounted on a 1/2 hinge (capacity 75 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 (1110) |              |
| 1514 SO                | 5    | Hinge, welding type<br>Height : 120 mm - Ø 14 mm axle                | 4            |
| 1110/400               | 6    | Galvanised U-profile 30 x 30 - 4 m long                              | 4            |
| 1110/500               |      | Ditto - 5 m long                                                     | 4            |
| 1110/600               |      | Ditto - 6 m long                                                     | 4            |
| 1110 M                 | 7    | Jointing bracket for U-profile 30 x 30 (1110)                        |              |

| FOR PANELS UP TO 150 KG |      |                                                                               | Track : 8570 |
|-------------------------|------|-------------------------------------------------------------------------------|--------------|
| Item Nr                 | Fig. | Description                                                                   | Pack.        |
| 582 SO                  | 1    | Intermediate hanger, mounted on a hinge (capacity 300 kg)                     | 2            |
| 582 SOE                 | 2    | End hanger mounted on a 1/2 hinge (capacity 150 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 (item No. 1115) |              |
| 1516 SO                 | 5    | Hinge, welding type<br>Height : 120 mm - Ø 16 mm axle                         | 4            |
| 1115/600                | 6    | Galvanised U profile 50 x 60 - 6 m long                                       |              |
| 1115 M                  | 7    | Jointing bracket for U-profile 50 x 60 (1115)                                 |              |



1



2



3



4



5



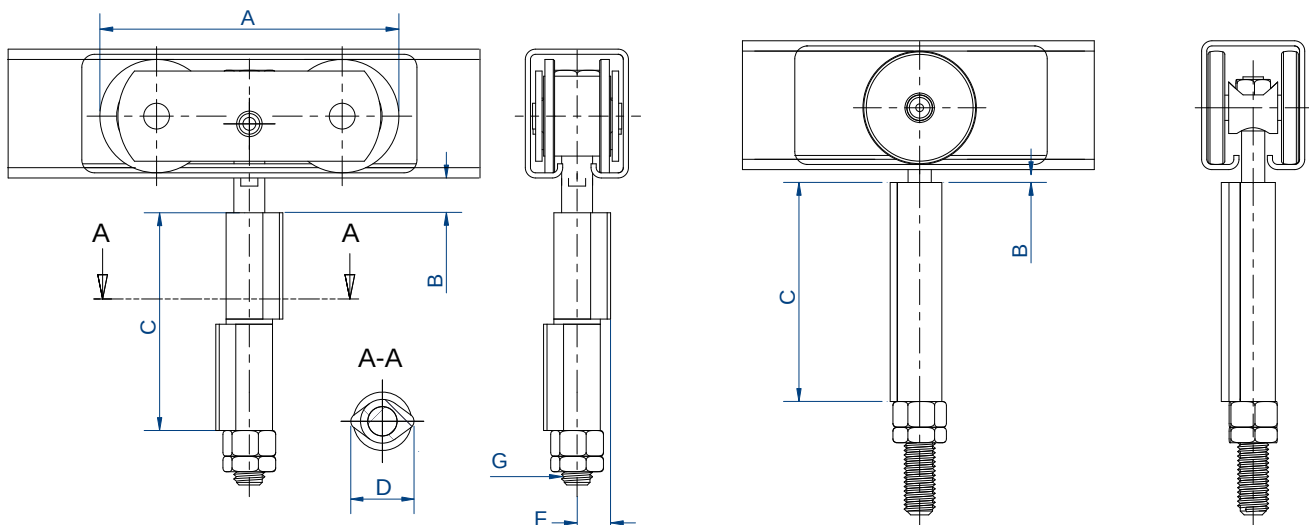
6



7

## EXAMPLES OF ASSEMBLY :

See on previous page



Intermediate hangers

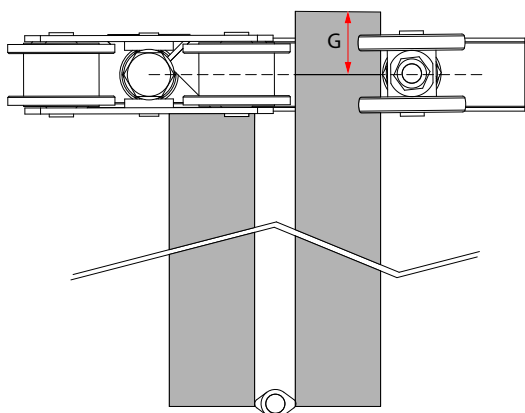
End hangers

| Item Nr | A   | B    |      | C   | D  | F  | G   |
|---------|-----|------|------|-----|----|----|-----|
|         |     | Mini | Maxi |     |    |    |     |
| 532 SO  | 77  | 6    | 15   | 80  | 22 | 11 | M10 |
| 552 SO  | 116 | 5    | 15   | 85  | 26 | 12 | M12 |
| 562 SO  | 137 | 5    | 17   | 120 | 30 | 13 | M14 |
| 582 SO  | 168 | 5    | 17   | 120 | 34 | 13 | M16 |

## DOOR WITHOUT SERVICE DOOR :

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

| Item Nr | G    |
|---------|------|
| 532 SOE | 17   |
| 552 SOE | 28   |
| 562 SOE | 28.5 |
| 582 SOE | 37   |



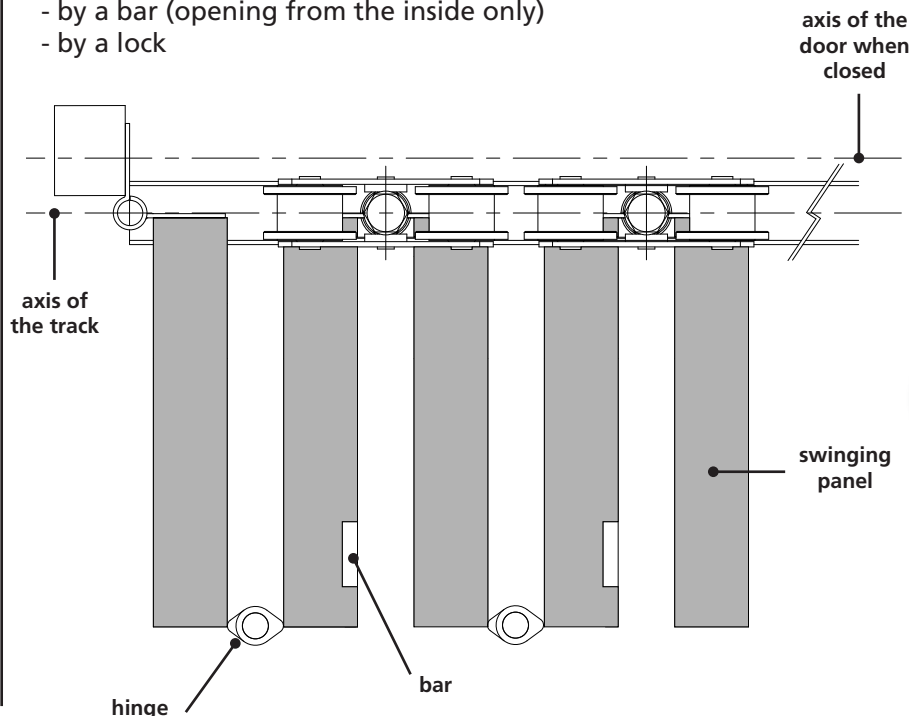
## CROSS SECTION, TOP VIEW :

**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 500 Series.

The swinging panel can be blocked :

- by a bar (opening from the inside only)
- by a lock



See our assembly recommendations on p. 26



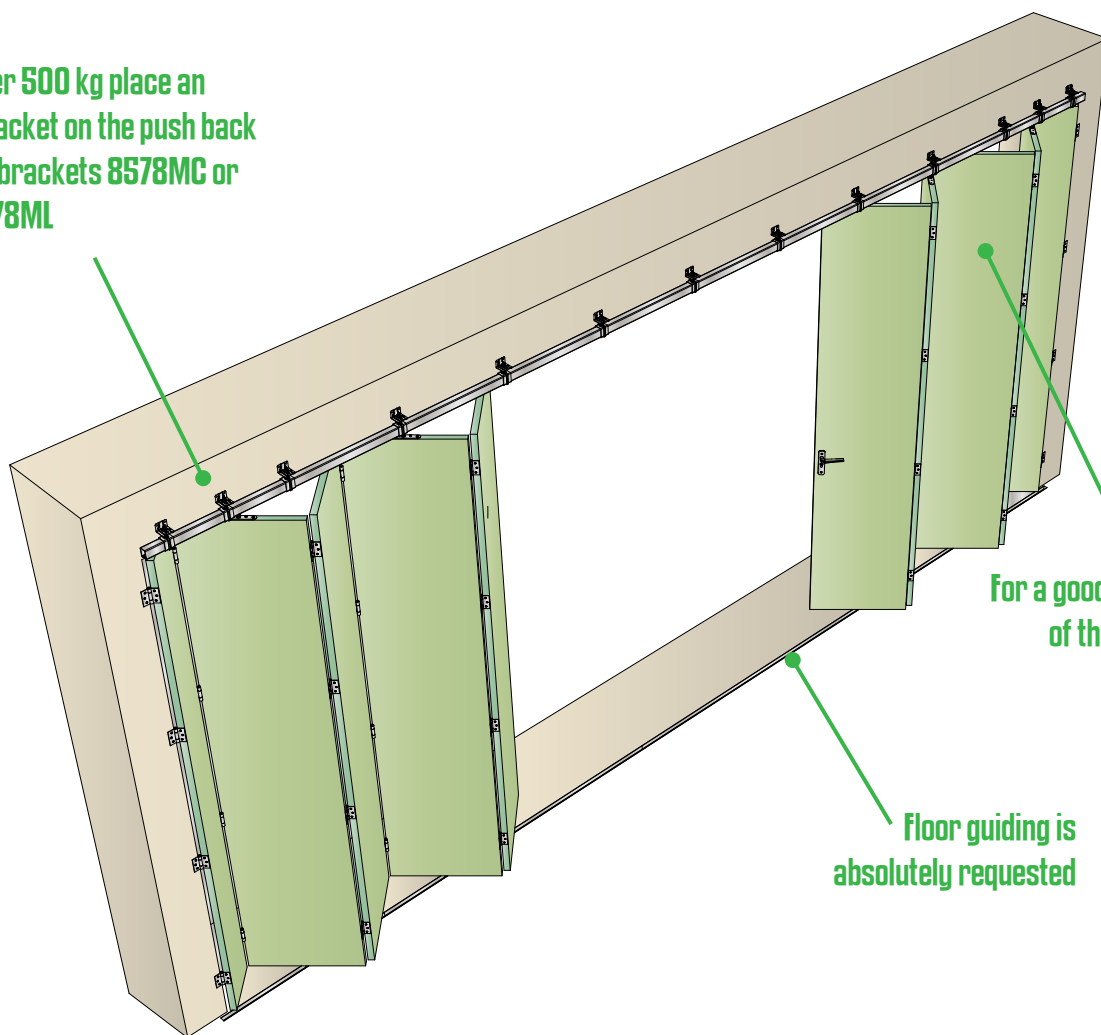
CAPACITY / PANEL : up to 300 kg

TRACK : from 2525 to 8570

MOVEMENT : FOLDING

- Complete range :
  - 5 systems : up to 150 kg / panel
  - max panel width : 0.90 m
  - 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...)

For doors over 500 kg place an additional bracket on the push back side and use brackets 8578MC or brackets 8578ML

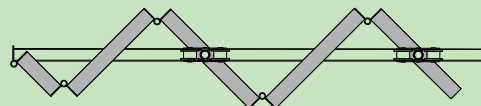
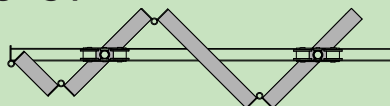
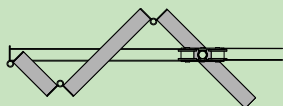


For a good sliding, the width of the panels must not exceed 90 cm

Floor guiding is absolutely requested

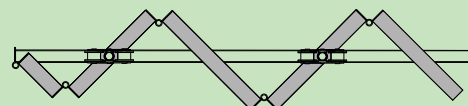
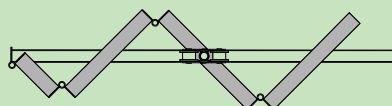
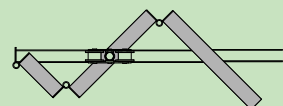
### EXAMPLES OF HANGER POSITIONING :

#### For doors without swinging panel :



Fix the first hanger in the middle of the first panel starting with the side opposite to the frame, and then a hanger every second panel.

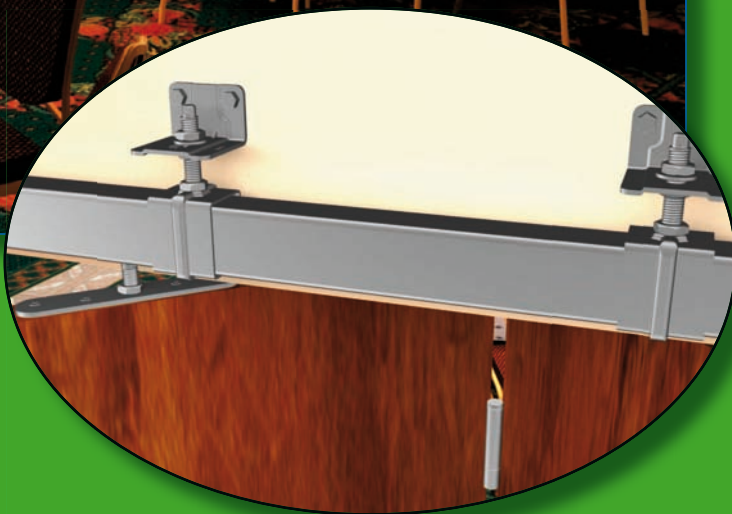
#### For doors with swinging panel :



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

# ***Sliding systems for CONCERTINA FOLDING doors with one half panel***

## ***600® Series***



| HANGERS : CAPACITY 30 Kg |      |                                                                     | Track : 2525 |
|--------------------------|------|---------------------------------------------------------------------|--------------|
| Item Nr                  | Fig. | Description                                                         | Pack.        |
| 623                      | 1    | Swivelling hanger with adjustable height, nylon wheels, Ø M8 screw  | 2            |
| 26                       | 3    | Top-fixing screwing plate Ø M8                                      |              |
| 21                       | 5    | Side-fixing screwing plate Ø M8                                     |              |
| 1504 C3                  | 8    | Top-fixing screwing hinge 80 x 45, Ø 4 mm axle                      | 25           |
| 1088                     | 12   | Bottom guide without plate for U profile 25 x 17 (item No. 1109)    | 10           |
| 1102                     | 14   | Bottom guide on screwing plate for U profile 25 x 17 (item No.1109) | 20           |
| 1109/400                 |      | Galvanised U-profile 25 x 17 - 4 m long                             | 4            |
| 1109/500                 | 17   | Ditto - 5 m long                                                    | 4            |
| 1109/600                 |      | Ditto - 6 m long                                                    | 4            |
| 1109 M                   | 18   | Jointing bracket for U-profile 25 x 17 (item No. 1109)              |              |

| HANGERS : CAPACITY 40 Kg |      |                                                                      | Track : 3530 |
|--------------------------|------|----------------------------------------------------------------------|--------------|
| Item Nr                  | Fig. | Description                                                          | Pack.        |
| 633 A                    | 2    | Swivelling hanger with adjustable height, steel wheels, Ø M10 screw  | 2            |
| 633 D                    |      | Swivelling hanger with adjustable height, Delrin wheels, Ø M10 screw | 2            |
| 36                       | 3    | Top-fixing screwing plate Ø M10                                      |              |
| 37                       | 6    | Side-fixing screwing plate for thin panels, Ø M10                    |              |
| 31                       | 7    | Adjustable apron set for 25 to 35 mm panels (see dimensions on p. 9) |              |
| 1510 C                   | 9    | Screwing hinge 80 x 60, Ø 10, top-fixing                             | 10           |
| 1510 SO                  | 11   | Welding hinge - Height : 80 mm - Axle : Ø 10 mm                      | 4            |
| 1088                     | 12   | Bottom guide without plate for U-profile 25 x 17 (1109)              | 10           |
| 1102                     | 14   | Bottom guide on screwing plate for U-profile 25 x 17 (1109)          | 20           |
| 1109/400                 |      | Galvanised U profile 25 x 17 - 4 m long                              | 4            |
| 1109/500                 | 17   | Ditto - 5 m long                                                     | 4            |
| 1109/600                 |      | Ditto - 6 m long                                                     | 4            |
| 1109 M                   | 18   | Jointing bracket for U profile 25 x 17 (1109)                        |              |

| HANGERS : CAPACITY 75 Kg |      |                                                                       | Track : 5040 |
|--------------------------|------|-----------------------------------------------------------------------|--------------|
| Item Nr                  | Fig. | Description                                                           | Pack.        |
| 653 A                    | 2    | Swivelling hanger with adjustable height, steel wheels, Ø M12 screw   | 2            |
| 653 D                    |      | Swivelling hanger with adjustable height, Delrin wheels, Ø M12 screw  | 2            |
| 56                       | 3    | Top-fixing screwing plate Ø M12                                       |              |
| 51                       | 7    | Adjustable apron set for 40 to 50 mm panels (see dimensions on p. 11) |              |
| 1510 C                   | 9    | Screwing hinge 80 x 60, Ø 10, top-fixing                              |              |
| 1512 C                   |      | Screwing hinge 85 x 85, Ø 12, top-fixing, for wood of 35              | 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)               | 10           |
| 1099                     | 15   | Bottom guide on screwing plate for U-profile 30 x 30 (1110)           | 10           |
| 1110/400                 |      | Galvanised U profile 30 x 30 - 4 m long                               | 4            |
| 1110/500                 | 17   | Ditto - 5 m long                                                      | 4            |
| 1110/600                 |      | Ditto - 6 m long                                                      | 4            |
| 1110 M                   | 18   | Jointing bracket for U-profile 30 x 30 (1110)                         |              |

| HANGERS : CAPACITY 150 Kg |      |                                                                        | Track : 6255 |
|---------------------------|------|------------------------------------------------------------------------|--------------|
| Item Nr                   | Fig. | Description                                                            | Pack.        |
| 663                       | 2    | Swivelling hanger with adjustable height, steel wheels, Ø M14 screw    | 2            |
| 66                        | 4    | Top-fixing screwing plate Ø M14                                        |              |
| 61                        | 7    | Adjustable apron set for 50 to 65 mm panels (see dimensions on p. 13)  |              |
| 1512 C                    | 9    | Screwing hinge 85 x 85, Ø 12, top-fixing for wood of 35                | 10           |
| 1514 C                    | 10   | Screwing hinge 120 x 100, Ø 14, top-fixing for wood 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)                | 10           |
| 1101                      | 15   | Reinforced bottom guide on screwing plate for U-profile 30 x 30 (1110) | 10           |
| 1110/400                  |      | Galvanised U-profile 30 x 30 - 4 m long                                | 4            |
| 1110/500                  | 17   | Ditto - 5 m long                                                       | 4            |
| 1110/600                  |      | Ditto - 6 m long                                                       | 4            |
| 1110 M                    | 18   | Jointing bracket for U-profile 30 x 30 (1110)                          |              |

| HANGERS : CAPACITY 300 Kg |      |                                                                       | Track : 8570 |
|---------------------------|------|-----------------------------------------------------------------------|--------------|
| Item Nr                   | Fig. | Description                                                           | Pack.        |
| 683                       | 2    | Swivelling hanger with adjustable height, steel wheels, Ø M16 screw   | 2            |
| 86                        | 4    | Top-fixing screwing plate Ø M16                                       |              |
| 81                        | 7    | Adjustable apron set for 55 to 75 mm panels (see dimensions on p. 15) |              |
| 1516 C                    | 10   | Screwing hinge 120 x 100, axle Ø 16, 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 (1115)                         |              |



1



2



3



4



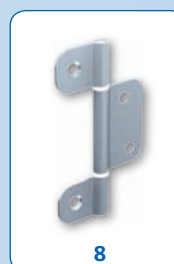
5



6



7



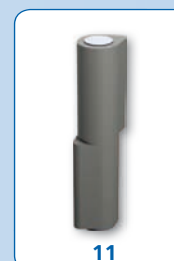
8



9



10



11



12



13



14



15



16

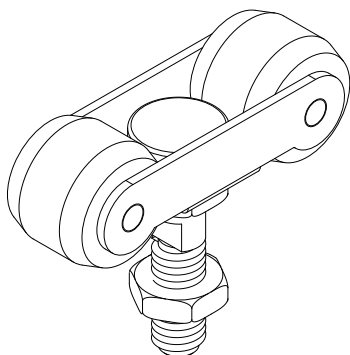


17



18

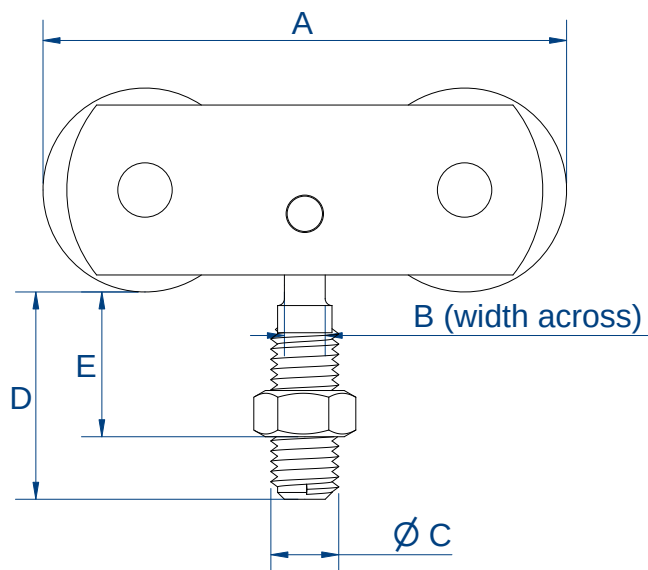
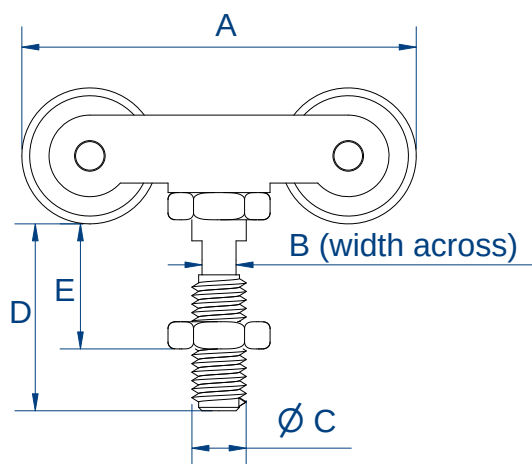
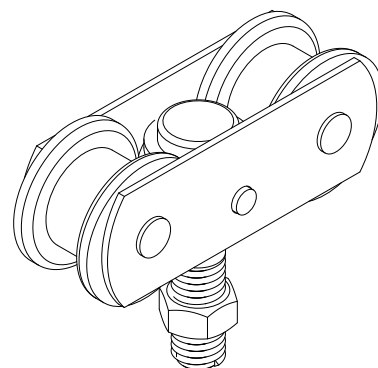
Hanger 623



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| Item Nr | A   | B  | C    | D  | E min | E max |
|---------|-----|----|------|----|-------|-------|
| 623     | 55  | 5  | M 8  | 25 | 5     | 17    |
| 633     | 77  | 8  | M 10 | 28 | 8     | 18    |
| 653     | 116 | 10 | M 12 | 47 | 12    | 35    |
| 663     | 137 | 12 | M 14 | 59 | 14    | 45    |
| 683     | 168 | 14 | M 16 | 71 | 16    | 55    |

Hangers 633 to 683

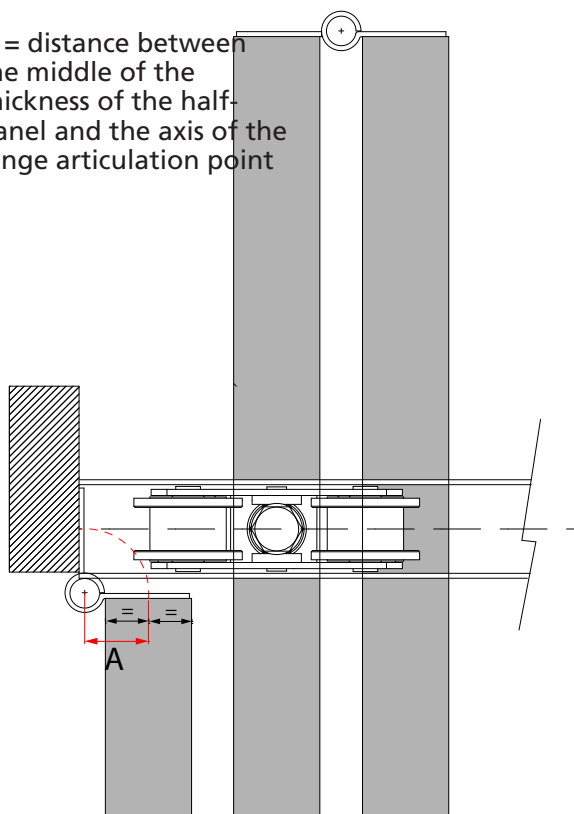


## IMPORTANT RECOMMENDATION :

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

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

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



## PANEL WIDTH :

### Opening on the right and on the left :

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

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

### Opening on one side only :

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

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

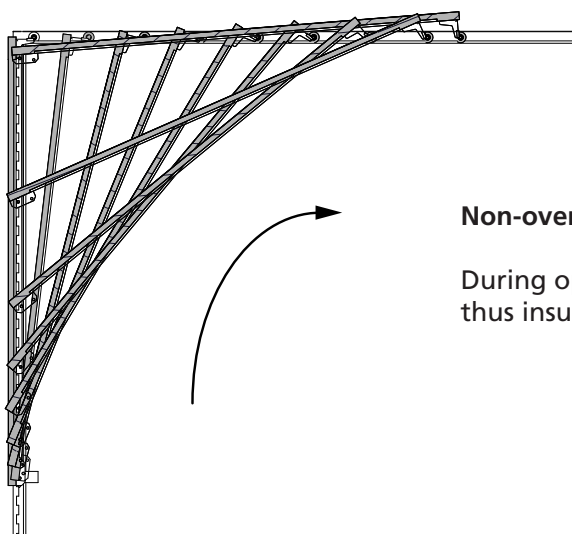
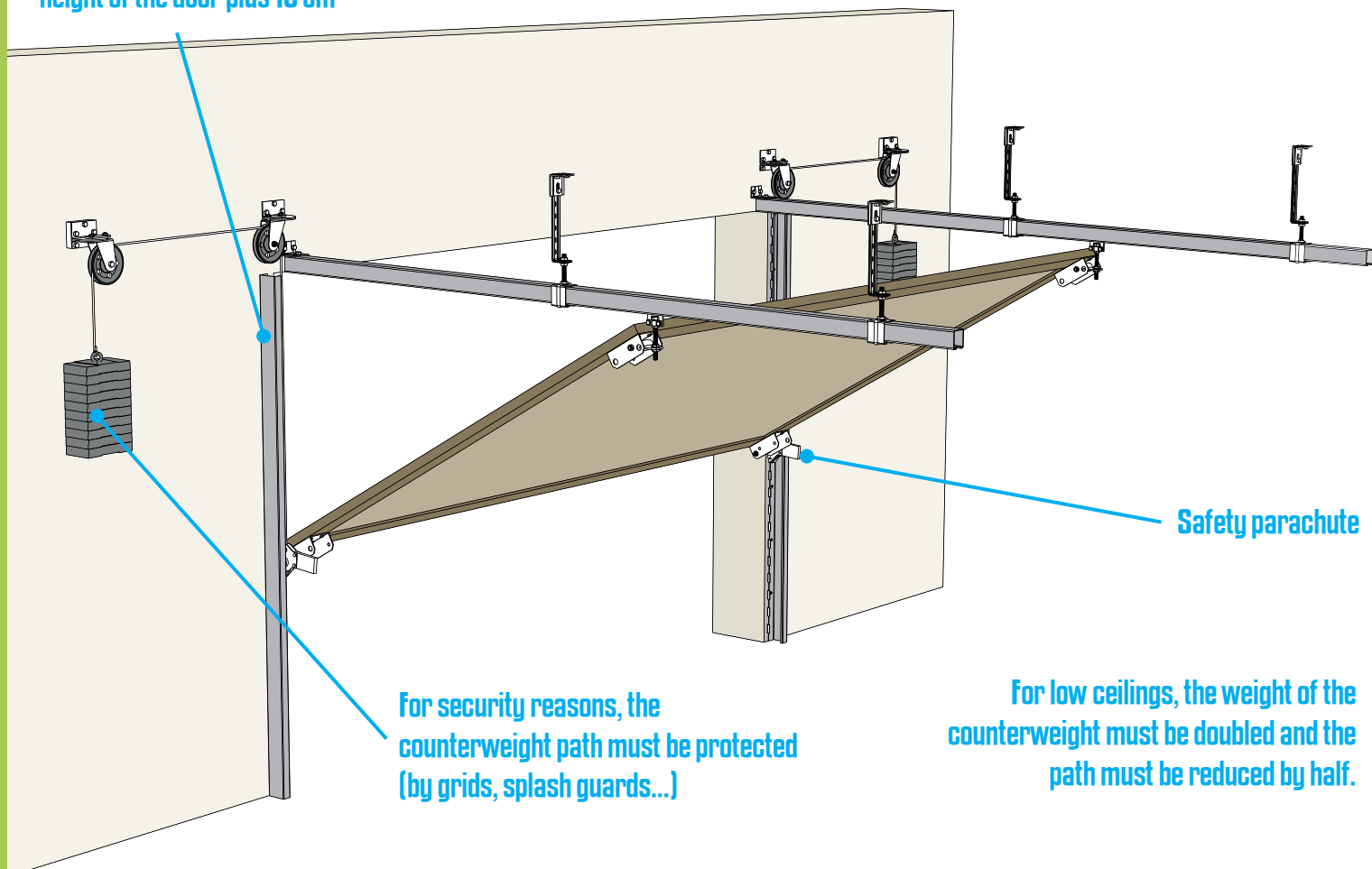


**CAPACITY / DOOR :** up to 450 kg

**MOVEMENT :** UP & OVER

- Easy to install
- **Balancing with counterweight** : easy to install and avoid all risks of disadjustment
- **Safety** : integrated parachute system (slide and parachute hanger)
- A range adapted to doors of wide dimensions (up to 450 Kg)
- All our doors can be motorised

The length of each vertical track should be equal to the height of the door plus 10 cm



# ***Sliding systems for UP & OVER doors***

## ***4000® Series***



***For residential doors***

***38-39***

***For industrial doors***

***40-41***

**CAPACITY / DOOR :** up to 100 kg

**TRACK :** 7050

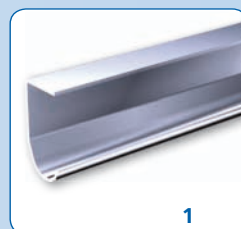
**MOVEMENT :** UP & OVER



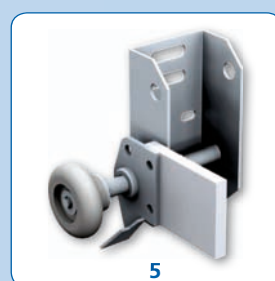
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See our assembly instructions on p. 36

| TRACKS & SLIDERS |      |                                                                                                                                         |      | Track : 7050 |
|------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------|------|--------------|
| Item Nr          | Fig. | Description                                                                                                                             | Pack |              |
| 7050 P/250       | 1    | Galvanized track - 2.50 m long - thickness 20/10 - drilled every 0.50 m with square holes for square head screws of 6<br>Height : 53 mm |      |              |
| 4050 CP          | 2    | Set of 2 curves - To be used in case of automatic door to a perfect running                                                             |      |              |
| 7056             | 3    | Notched slide - 2.63 m long                                                                                                             |      |              |



| HANGERS & GUIDES |   |                                                                  |   |
|------------------|---|------------------------------------------------------------------|---|
| 4450             | 4 | Hanger with Delrin wheels and adjustable bracket                 | 2 |
| 4451 D           | 5 | Guide with Delrin wheel and safety parachute. For the right side |   |
| 4451 G           |   | Ditto - For the left side                                        |   |



| ACCESSORIES |   |                                                                                                        |                                                         |
|-------------|---|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| 4090        | 6 | Adjustable pulley with nylon wheel - Ø ext. 90 mm<br>groove Ø : 75 mm for cables of Ø max. 4 mm        | 2                                                       |
| 8145 F      | 7 | Deflection pulley with cast iron wheel. Ø ext. 145 mm -<br>groove Ø : 120 mm for cables of Ø max. 6 mm |                                                         |
| 7102        | 8 | Counterweight in cast iron 2 Kg                                                                        | To calculate the<br>counterweights, please see<br>below |
| 7105        |   | Counterweight in cast iron 5 Kg                                                                        |                                                         |
| 7153        | 9 | Standard plate for the fixing of the horizontal track<br>Length = 115 mm                               |                                                         |
| 7153 L      |   | Ditto in long version - Length = 160 mm                                                                |                                                         |



| KIT  |                                                                                                                                                           |  |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 4001 | Kit including :<br>2 hangers ref. 4450<br>1 guide ref. 4451 D<br>1 guide ref. 4451 G<br>4 pulleys ref. 4090<br>2 plates ref. 7153<br>2 plates ref. 7153 L |  |



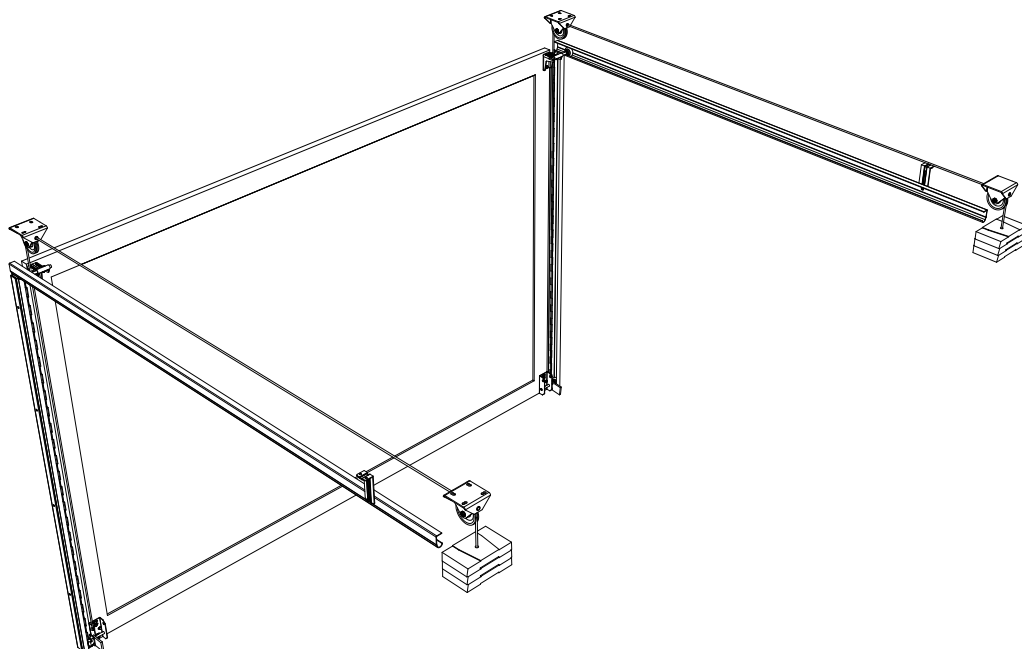
## HOW TO CALCULATE THE COUNTERWEIGHTS :

With swivelling pulleys, balancing counterweights can be placed anywhere, their travel being in general equal to the height of the door.

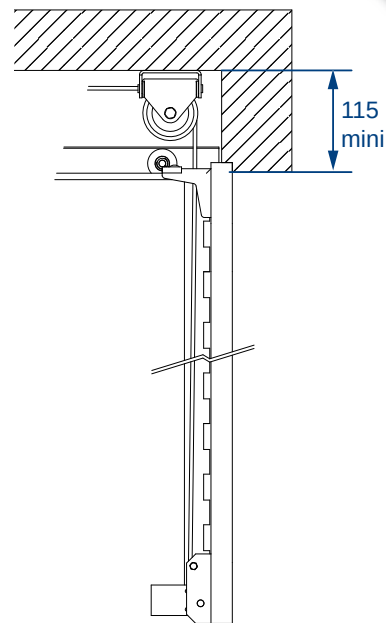
Two possibilities :

- With adjustable pulley :  
It is necessary to elevate the end pulley or to arrange a pit in the ground depending of the path (the pit must be equal to the height of the door).  
The balancing mass must be lightly over the half-weight of the door.
- With adjustable pulleys + deflection pulleys :  
Use additionnal pulleys ref. 8145 F. Then the balancing mass must be doubled but the path is reduced by half.

## MANUAL USE :

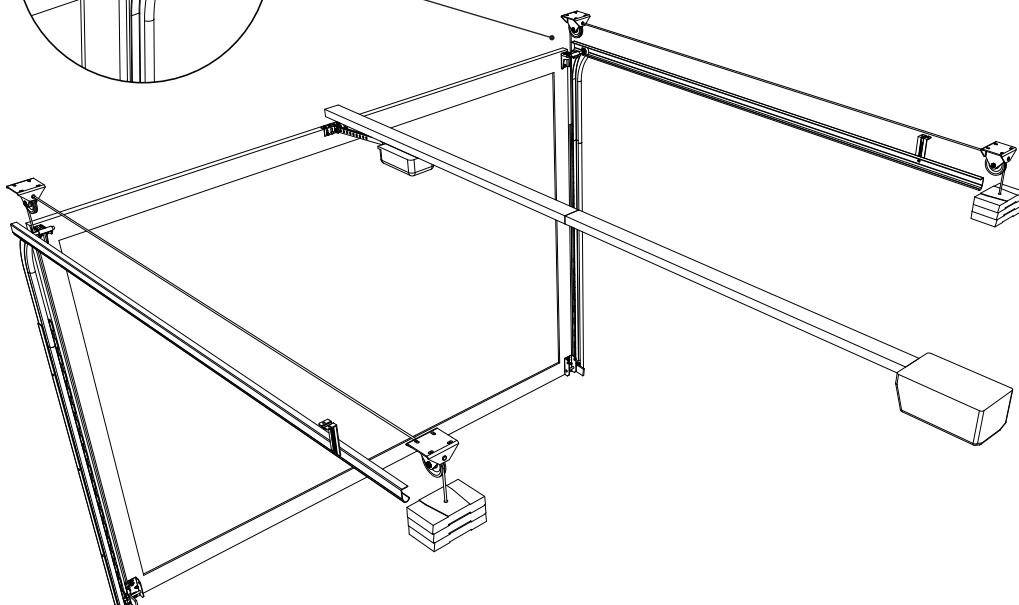
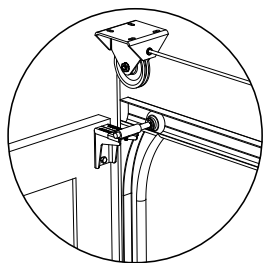


Manual operating up & over door, standard range

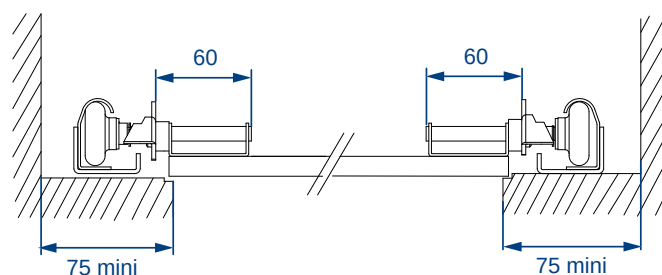


Vertical section representing the assembling of the bottom guides and hangers.

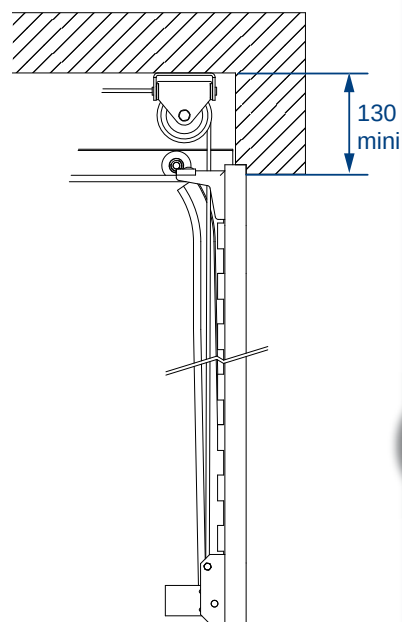
## AUTOMATIC OPERATION :



The curves are essential for a perfect running.  
Maximal height : 2.3 m. Do not use a lock with automatic operation



Horizontal section representing the assembling of the slides and the vertical tracks, as well as the bottom guides.



Vertical section, representing the assembling of the bottom guides and hangers.



CAPACITY / DOOR : up to 450 kg

TRACK : 5040 - 6255 - 8570

MOVEMENT : UP &amp; OVER



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see our assembly recommendations on p. 36

## capacity per door

| TRACKS  |      |                                                                                              |       |  |
|---------|------|----------------------------------------------------------------------------------------------|-------|--|
| Item Nr | Fig. | Description                                                                                  | Pack. |  |
| 5040    | 1    | up to 200 kg<br>Galvanised track 50 x 40 mm<br>Available in 4 m, 5 m and 6 m length          |       |  |
| 6255    |      | from 200 kg to 350 kg<br>Galvanised track 62 x 55 mm<br>Available in 4 m, 5 m and 6 m length |       |  |
| 8570    |      | from 350 kg to 450 kg<br>Galvanised track 85 x 70 mm<br>Available in 4m, 5 m and 6 m length  |       |  |

| SLIDES, HANGERS & GUIDES |        |      |      |                                                |
|--------------------------|--------|------|------|------------------------------------------------|
| 5040                     | 6255   | 8570 | Fig. | Description                                    |
| 4357                     | -      |      | 2    | Notched slide - 3 m long                       |
| -                        | 4272   |      |      | Notched slide - 2 m long                       |
| 4540                     | 4655   | 4870 | 3    | Hanger                                         |
| 4541 D                   | 4656 D |      | 4    | Guide with safety parachute for the right side |
| 4541 G                   | 4656 G |      |      | Ditto for the left side                        |

| ACCESSORIES |   |                                                                                                   |                                                   |  |
|-------------|---|---------------------------------------------------------------------------------------------------|---------------------------------------------------|--|
| 4145 F      | 5 | Adjustable pulley with cast iron wheel. Ø ext. 145 mm - groove Ø 120 mm for cables of Ø max. 6 mm |                                                   |  |
| 8145 F      | 6 | Deflection pulley with cast iron wheel. Ø ext. 145 mm - groove Ø 120 mm for cables of Ø max. 6 mm |                                                   |  |
| 7102        | 7 | Counterweight in cast iron 2 Kg                                                                   | To calculate the counterweights, please see below |  |
| 7105        |   | Counterweight in cast iron 5 Kg                                                                   |                                                   |  |

| KIT for doors up to 200 kg (track 5040) |                                                                                                                                                                                                                                                 |  |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 4002                                    | Kit including :<br>2 hangers ref. 4540<br>1 guide ref. 4541 D<br>1 guide ref. 4541 G<br>4 sheaves ref. 4145 F<br>2 angle plates ref. 5043 (see on p. 58)<br>4 top-fixing plates ref. 5044 (see on p. 58)<br>4 brackets ref. 5041 (see on p. 57) |  |

## HOW TO CALCULATE THE COUNTERWEIGHTS :

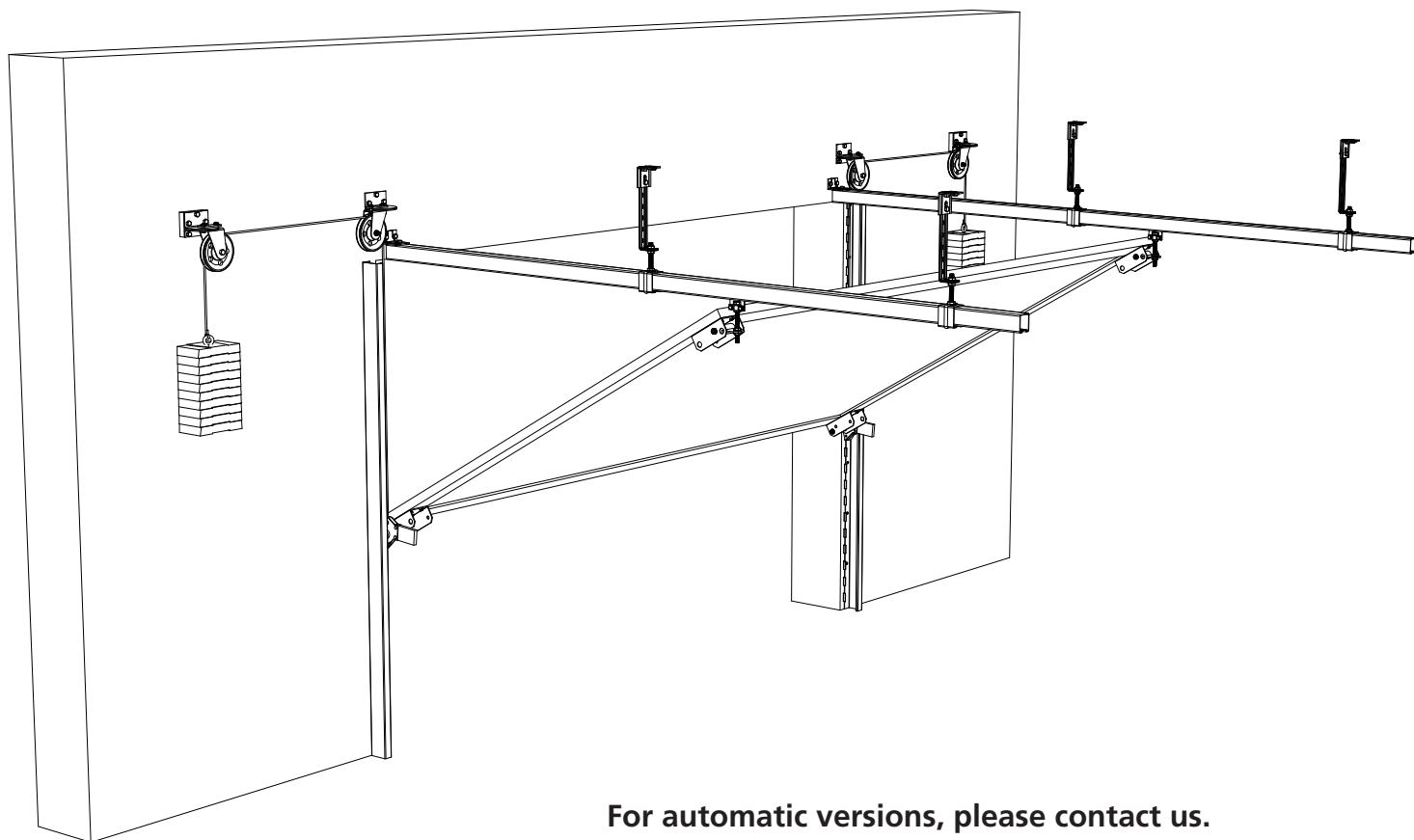
With swivelling pulleys, balancing counterweights can be placed anywhere, their path being in general equal to the height of the door.

Two possibilities :

- With swivelling pulleys :  
It is necessary to elevate the end pulley, or to arrange a pit in the ground depending of the path (the pit must be equal to the height of the door).  
The balancing mass must be lightly over the half-weight of the door.
- With swivelling pulleys + deflection pulleys :  
Use additionnal pulleys ref. 8145 F. The balancing mass must then be doubled but the travel is reduced by half.



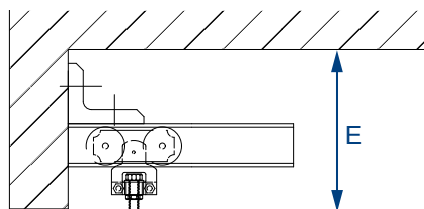
## MANUAL USE :



For automatic versions, please contact us.

## ASSEMBLY DETAILS FOR HANGERS :

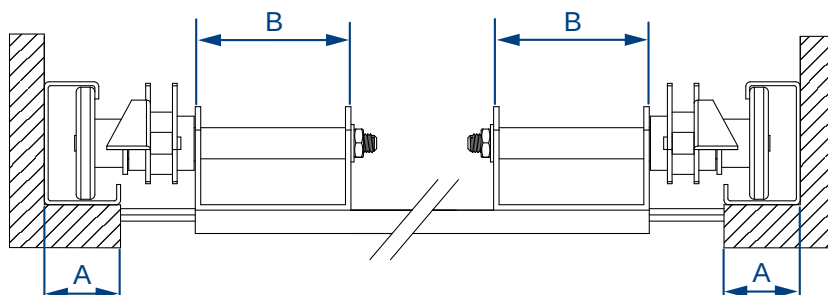
Vertical section representing the assembly of the bottom guides and hangers.



| Track | E min |
|-------|-------|
| 5040  | 170   |
| 6255  | 210   |
| 8570  | 245   |

## ASSEMBLY DETAILS FOR GUIDES :

Horizontal section representing the assembly of the bottom guides and of the slides



| Guide | min. quoin A | Width of the fixing bracket B |
|-------|--------------|-------------------------------|
| 4541  | 60           | 60                            |
| 4656  | 80           | 100                           |

**CAPACITY / PANEL :** up to 20 kg (residential use)**CAPACITY / PANEL :** up to 50 kg (industrial use)**MOVEMENT :** SECTIONAL

- A range for residential use which combines :
  - good design
  - easy assembly
  - safety
- An industrial range which ensures reliability and solidity
- All our doors can be motorised

## ***GARLINE® SERIES***

### ***Sectional doors for residential use***

***Items sold separately******44-45******Complete kits******46-47***

# ***Sliding systems for SECTIONAL doors***

## ***7000® SERIES Sectional doors for industrial use***



***Items sold separately***

***48-49***



\* Auto : automatic door

\*Manu : manual operated door

## COMPOSITION FOR A DOOR

| Item Nr      | Fig. | Description                                     | Auto | Manual* |
|--------------|------|-------------------------------------------------|------|---------|
| 7067VG/240   | 1    | Set of vertical slides                          |      |         |
| 7067HG/240   | 2    | Set of horizontal slides                        |      |         |
| 7078         | 3    | Set of junction plates                          |      |         |
| 7075/250     | 4    | Horizontal joint holder - L : 2.5 m             |      |         |
| 7160/250     | 5    | White outer joint - L : 2.5 m                   |      |         |
| 7161/250     |      | Black outer joint- L : 2.5 m                    |      |         |
| 1110 BPS/600 | 6    | Lower joint-profile (black and white) - L : 6 m |      |         |
| 1111 BPS/600 |      | Lower joint-profile (Black) - L : 6 m           |      |         |
| 7100R1       | 7    | Balancing spring                                |      |         |
| 7061/200     | 8    | Set of 2 outer joints                           |      |         |

## SPECIFIC PARTS FOR THE GALVANISED VERSION

|        |    |                             |  |  |
|--------|----|-----------------------------|--|--|
| 7063 G | 9  | Set of intermediate hangers |  |  |
| 7092G  | 10 | Set of upper hangers        |  |  |
| 7093 G | 11 | Set of upper hangers        |  |  |
| 7068 G | 12 | Set of parachute hangers    |  |  |

## SPECIFIC PARTS FOR THE WHITE LACQUERED VERSION

|        |    |                             |  |  |
|--------|----|-----------------------------|--|--|
| 7063 B | 9  | Set of intermediate hangers |  |  |
| 7064 B | 10 | Set of upper hangers        |  |  |
| 7065 B | 11 | Set of upper hangers        |  |  |
| 7068 B | 12 | Set of parachute hangers    |  |  |

## ACCESSORIES

|          |    |                                                                 |  |  |
|----------|----|-----------------------------------------------------------------|--|--|
| 7072     | 13 | Set of deflection sheaves                                       |  |  |
|          | 14 | Set of tension bolt for springs M10x200 with ring and springnut |  |  |
|          |    | Screws and assembly instructions                                |  |  |
|          |    | Set of end pieces for horizontal slides                         |  |  |
| 7074 R1  | 16 | Spring cover (7100R1).                                          |  |  |
| 7153     | 17 | Angle plate - Screwing type                                     |  |  |
| 1718     | 18 | Profile 40 x 6 - L : 1 m                                        |  |  |
| 7200/240 | 19 | Panel end piece, galvanised - L = 2.4 m                         |  |  |
| 7201/240 |    | Dito white lacquered.                                           |  |  |
| 7200/A50 | 20 | End piece for «APCO» panels - galvanised L = 500 mm             |  |  |
| 7201/A50 |    | Dito white lacquered.                                           |  |  |
| 7200/A61 |    | End pieces for «APCO» panels - galvanised L = 610 mm            |  |  |
| 7201/A61 |    | Dito white lacquered.                                           |  |  |
| 7200/B50 | 20 | End pieces for «BREMET» panels - galvanised L = 500 mm          |  |  |
| 7201/B50 |    | Dito white lacquered.                                           |  |  |
| 7200/B61 |    | End pieces for «BREMET» panels - galvanised L = 610 mm          |  |  |
| 7201/B61 |    | Dito white lacquered.                                           |  |  |
| 7069/240 | 21 | Back jointing link                                              |  |  |
| 7069/100 |    | Extension for back jointing link                                |  |  |
| 1299     | 22 | Double handle, black color                                      |  |  |



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

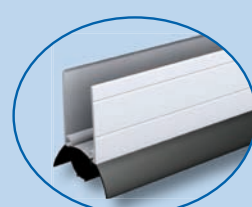


Fig. 6



Fig. 7

Fig. 16



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13

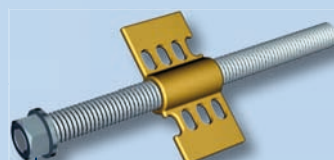


Fig. 14



Fig. 17



Fig. 18

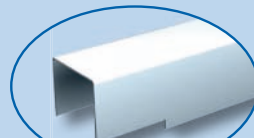


Fig. 19



Fig. 20



Fig. 21

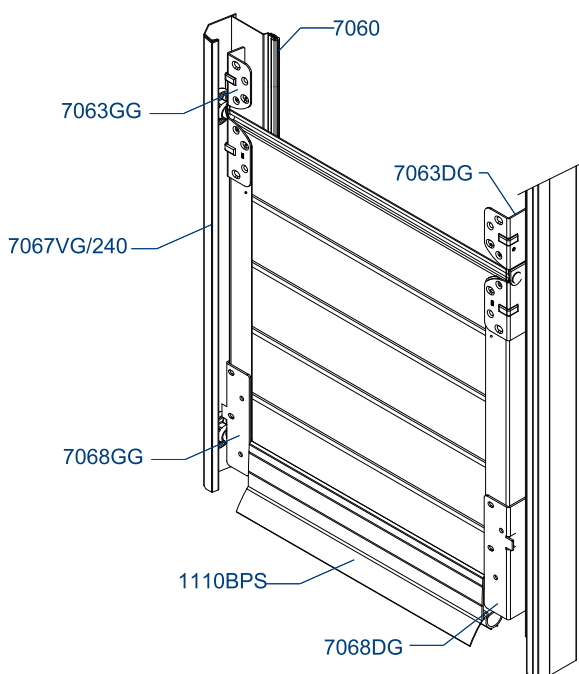
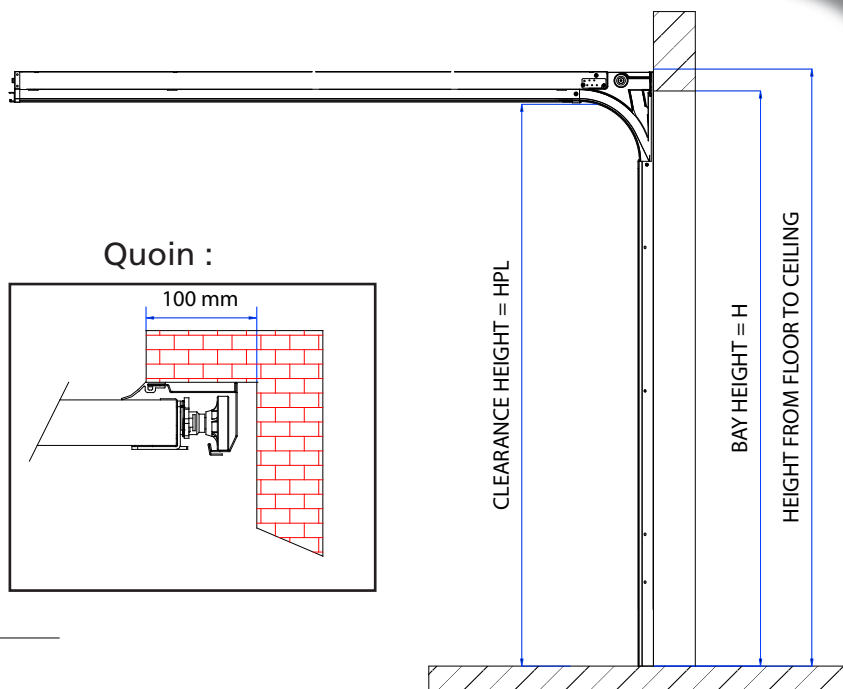
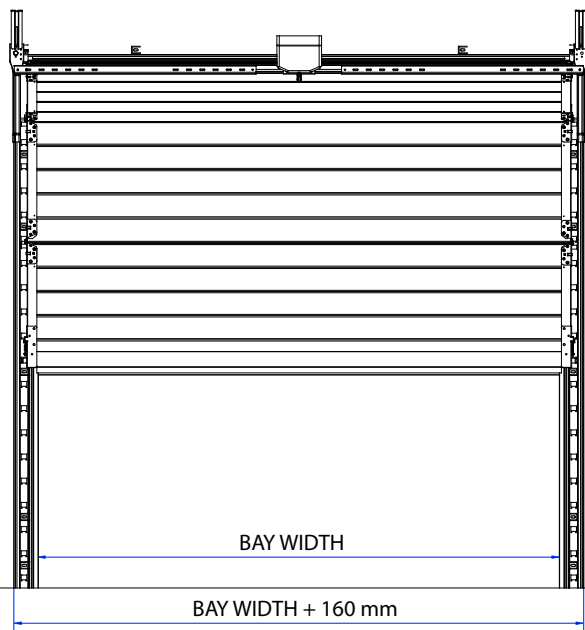


Fig. 22



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| Max. bay height | Opening width | Ceiling height | Passage height | Quoin |
|-----------------|---------------|----------------|----------------|-------|
| 2000            | 2400          | 2140           | 2000           | 100   |
| 2125            | 2500          | 2260           | 2125           | 100   |

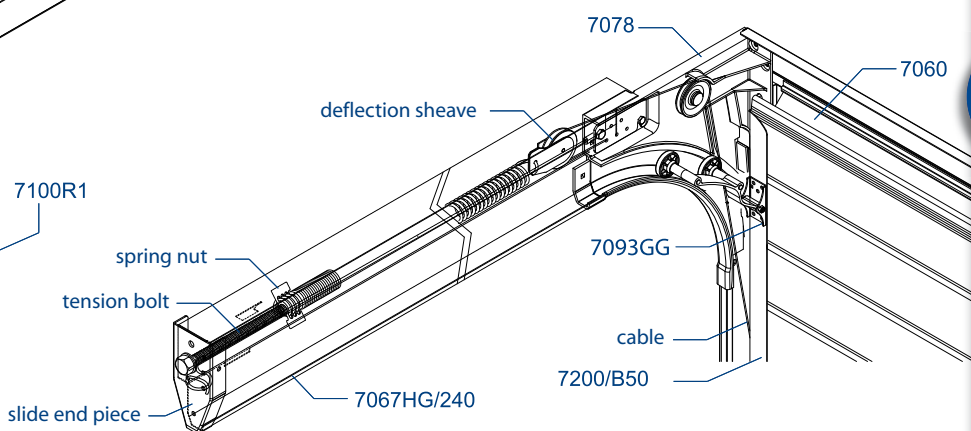
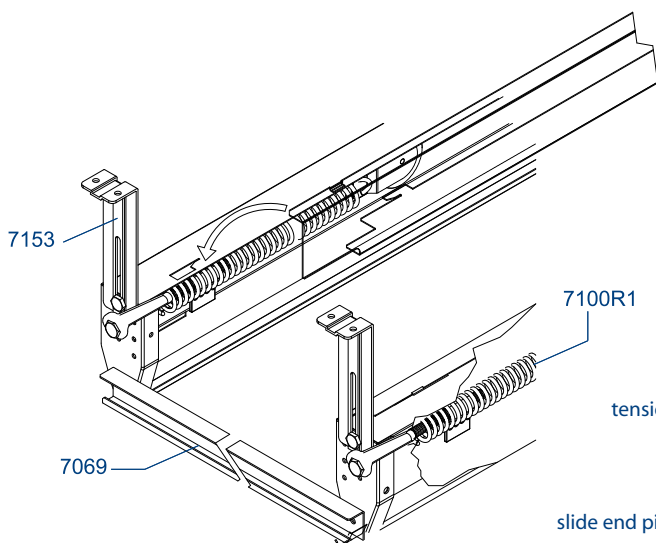
**Standardized** : suitable for panels (with a finger-pinch protection device) of 40 mm thickness and for doors of 2.4 to 2.5 m width and of 2 to 2.125 m height.

**Secure** : meets the requirements of the European standard EN12604 (parachute, guard case, finger-pinch protection device...).

**Easy to install** : small quantity of parts to assemble. Without central hinge on the panels.

**Aesthetic system** in 2 different versions : galvanised or white lacquered steel. Complete protection of the spring.

**Simple and accurate system** : balancing adjustment by means of screws



# KITS for AUTOMATIC doors (supplied with or without motorization) GARLINE® series



**Made  
in  
France!**



40 mm double skinned panels  
White color (RAL 9016)  
2 different versions :  
ribbed or «panel-design»  
assembled with end caps  
White lacquered hardware (RAL 9016)

Horizontal pre-mounted slides  
with pre-adjusted balancing  
system (draw spring) located  
in a guard case

Maximal protection and safety thanks to a  
fall-proof device

## PERFORMANCE DATA ACCORDING TO STANDARD EN 13241-1

|                           |                 |
|---------------------------|-----------------|
| Thermal insulation factor | $U = 0.5W/m^2K$ |
| Airtightness              | grade 2         |
| Watertightness            | grade 2         |
| Wind resistance           | grade 5         |



## Each kit includes :

4 double skinned panels of 40 mm mounted with end caps (RAL 9016) - horizontal and vertical slides - set of junction plates - set of hangers - pre-adjusted and pre-assembled balancing system (draw spring) - 1 double handle in black color - vertical and horizontal joints and joint-holders - back jointing link and profile for the fixing of horizontal slides to the ceiling- screws and assembly instructions

## Sectional door KIT (supplied without motorization)

### with ribbed panels

| Item Nr     | Bay dimensions              |
|-------------|-----------------------------|
| 7071P/K2024 | Width = 2400 / Height= 2000 |
| 7071P/K2025 | Width = 2500 / Height= 2000 |
| 7071P/K2026 | Width = 2625 / Height= 2000 |
| 7071P/K2027 | Width = 2750 / Height= 2000 |
| 7071P/K2030 | Width = 3000 / Height= 2000 |
| 7071P/K2124 | Width = 2400 / Height= 2125 |
| 7071P/K2125 | Width = 2500 / Height= 2125 |
| 7071P/K2126 | Width = 2625 / Height= 2125 |
| 7071P/K2127 | Width = 2750 / Height= 2125 |
| 7071P/K2130 | Width = 3000 / Height= 2125 |



### «panel-design» panels

| Item Nr     | Bay dimensions              |
|-------------|-----------------------------|
| 7081P/K2024 | Width = 2400 / Height= 2000 |
| 7081P/K2025 | Width = 2500 / Height= 2000 |
| 7081P/K2026 | Width = 2625 / Height= 2000 |
| 7081P/K2027 | Width = 2750 / Height= 2000 |
| 7081P/K2030 | Width = 3000 / Height= 2000 |
| 7081P/K2124 | Width = 2400 / Height= 2125 |
| 7081P/K2125 | Width = 2500 / Height= 2125 |
| 7081P/K2126 | Width = 2625 / Height= 2125 |
| 7081P/K2127 | Width = 2750 / Height= 2125 |
| 7081P/K2130 | Width = 3000 / Height= 2125 |

Ready to assembly complete kits for sectional doors - Supplied with white panels (RAL 9016) - *without motorization*

## Sectional door KIT (supplied with motorization)

### with ribbed panels

| Item Nr     | Bay dimensions              |
|-------------|-----------------------------|
| 7171P/K2024 | Width = 2400 / Height= 2000 |
| 7171P/K2025 | Width = 2500 / Height= 2000 |
| 7171P/K2026 | Width = 2625 / Height= 2000 |
| 7171P/K2027 | Width = 2750 / Height= 2000 |
| 7171P/K2030 | Width = 3000 / Height= 2000 |
| 7171P/K2124 | Width = 2400 / Height= 2125 |
| 7171P/K2125 | Width = 2500 / Height= 2125 |
| 7171P/K2126 | Width = 2625 / Height= 2125 |
| 7171P/K2127 | Width = 2750 / Height= 2125 |
| 7171P/K2130 | Width = 3000 / Height= 2125 |



### with «panel-design» panels

| Item Nr     | Bay dimensions              |
|-------------|-----------------------------|
| 7181P/K2024 | Width = 2400 / Height= 2000 |
| 7181P/K2025 | Width = 2500 / Height= 2000 |
| 7181P/K2026 | Width = 2625 / Height= 2000 |
| 7181P/K2027 | Width = 2750 / Height= 2000 |
| 7181P/K2030 | Width = 3000 / Height= 2000 |
| 7181P/K2124 | Width = 2400 / Height= 2125 |
| 7181P/K2125 | Width = 2500 / Height= 2125 |
| 7181P/K2126 | Width = 2625 / Height= 2125 |
| 7181P/K2127 | Width = 2750 / Height= 2125 |
| 7181P/K2130 | Width = 3000 / Height= 2125 |

Ready-to-assemble complete kits for sectional doors - Supplied with white sandwich panels (RAL 9016) - *with motorization*

The motorized kit comes with the motor pack shown opposite packed in a palett-box.



The motorization pack includes :  
1 operator GA 201  
1 remote control



**CAPACITY / PANEL :** up to 50 kg

For industrial doors (panels up to 30 kg and 50 kg)

**MOVEMENT :** SECTIONAL

capacity per panel

## TRACKS, CURVES AND SLIDES

| Item Nr    |            | Fig. | Description                                                                                                                       | Pack. |
|------------|------------|------|-----------------------------------------------------------------------------------------------------------------------------------|-------|
| 30 kg      | 50 kg      |      |                                                                                                                                   |       |
| 7050/600   | -          | 1    | Track, Length : 6 m - Thickness : 20/10<br>Height : 53 mm                                                                         |       |
| 7050 P/250 | -          |      | Track, Length : 2.50 m. Thickness : 20/10 . Drilled every 0.50 m with square holes for square neck screws 6 x 6<br>Height : 53 mm |       |
| -          | 7080/600   |      | Track, Length : 6 m - Thickness : 25/10<br>Height : 80 mm                                                                         |       |
| -          | 7080 P/250 |      | Track : 2.50 m - Thickness : 25/10. Drilled every 0.50 m with square holes for square neck screws 6 x 6<br>Height : 80 mm         |       |
| 7050 C     | -          | 2    | Curve for track 7050<br>Radius : 250 mm                                                                                           |       |
| 7050 CP    | -          |      | Ditto drilled for jointing                                                                                                        |       |
| 7051 C     | -          |      | Curve for track 7050<br>Radius : 400 mm                                                                                           |       |
| 7051 CP    | -          |      | Ditto drilled for jointing                                                                                                        |       |
| -          | 7080 C     |      | Curve for track 7080<br>Radius : 400 mm                                                                                           |       |
| -          | 7080 CP    |      | Ditto drilled for jointing                                                                                                        |       |
| -          | 7081 C     |      | Curve for track 7080<br>Radius : 550 mm                                                                                           |       |
| -          | 7081 CP    |      | Ditto drilled for jointing                                                                                                        |       |
| 7056       | -          | 3    | Moulded notched slide, drilled - Length : 2.63 m                                                                                  |       |
| -          | 7086       |      |                                                                                                                                   |       |

## HANGERS

| 30 kg            | 50 kg            | Fig. | Description                                                                                   |  |
|------------------|------------------|------|-----------------------------------------------------------------------------------------------|--|
|                  |                  |      |                                                                                               |  |
| 7053             | 7083             | 4    | Standard nylon roller mounted on needle roller bearings. Axle length = 95 mm - Ø axle = 11 mm |  |
| 7053 L           | 7083 L           |      | Ditto on a long axle (155 mm)                                                                 |  |
| 7054             |                  | 5    | Bracket for rollers 7053 and 7083<br>Adjustable from 10 to 87 mm                              |  |
| 7055             |                  | 6    | Long bracket for rollers 7053 et 7083<br>Adjustable from 85 to 137 mm                         |  |
| 4451 D<br>4451 G |                  | 7    | Parachute guide for right side (D)                                                            |  |
|                  | 7088 D<br>7088 G | 8    | For left side (G)                                                                             |  |

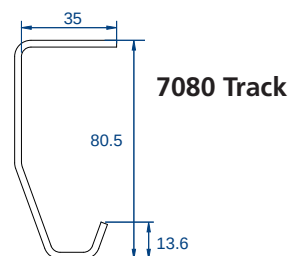
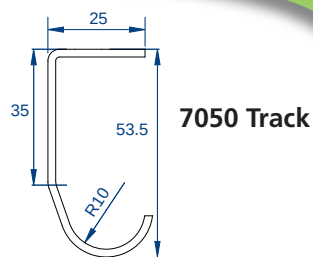
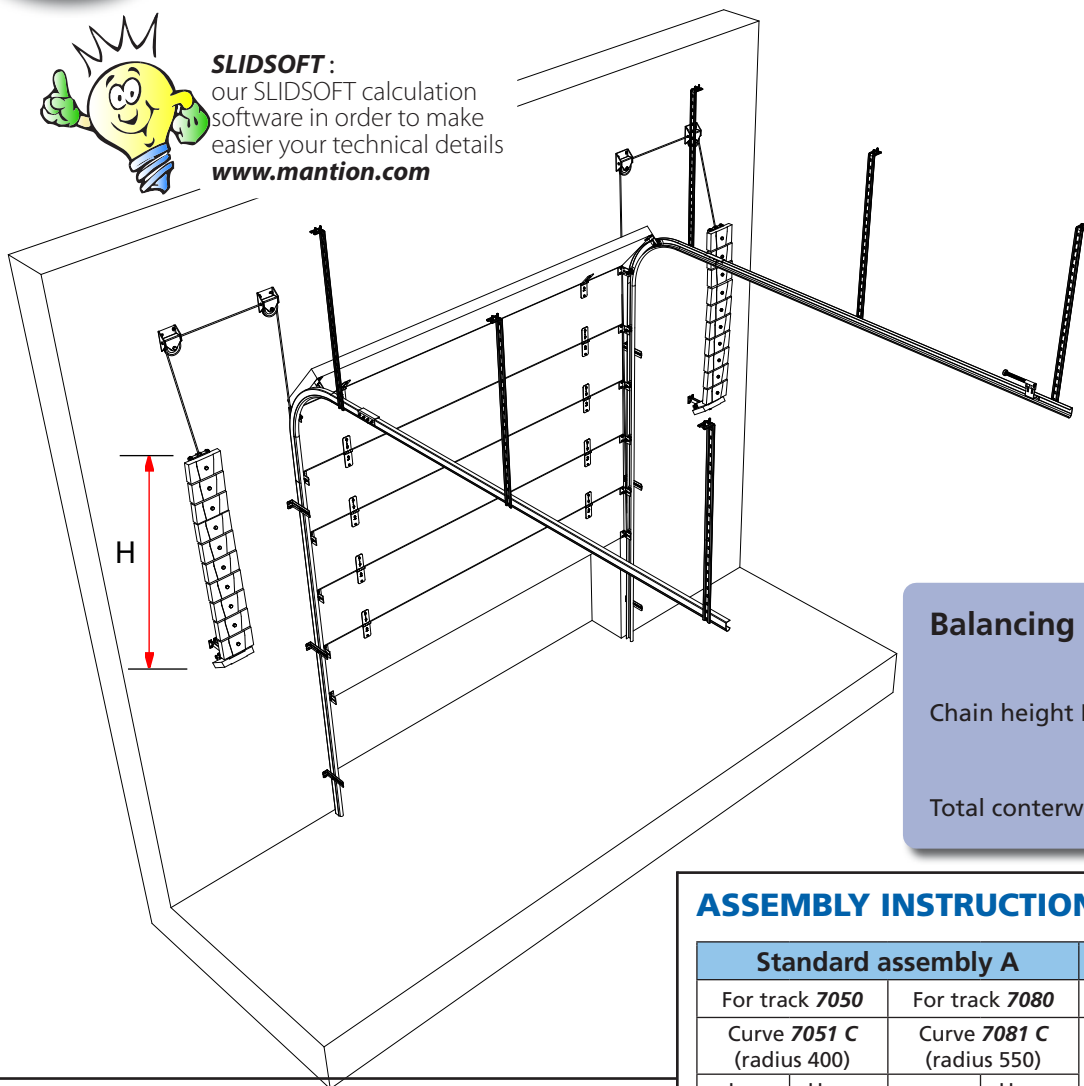
## ACCESSORIES

| 30 kg    | 50 kg   | Fig. | Description                                                     |                                           |
|----------|---------|------|-----------------------------------------------------------------|-------------------------------------------|
|          |         |      |                                                                 |                                           |
| 7100     |         | 9    | Balancing chain link (8 pcs per meter)                          |                                           |
| 7110     |         | 10   | Jointing axle for chain link 7100                               |                                           |
| 7102     |         | 11   | Counterweight in cast iron 2 kg                                 | Weight of the counterweight = door weight |
| 7105     |         |      | Counterweight in cast iron 5 kg                                 |                                           |
| 7151     |         | 12   | Plate for the jointing of the track and the curve               |                                           |
| 7153     |         | 13   | Plate for the horizontal fixing of the track - Standard version |                                           |
| 7153 L   |         |      | Ditto long version                                              |                                           |
| 4090     | 4145 F  | 14   | Swinging pulley - see on p. 63                                  | 2                                         |
| 1087     |         | 15   | Spring stop - Adjustable height                                 |                                           |
| 1508 PS  |         | 16   | Adjustable hinge - Side fixing 50 x 65 mm, axle Ø 8             | 25                                        |
| 1508 PSE |         | 17   | Adjustable hinge - Side fixing 50 x 200 mm, axle Ø 8            | 10                                        |
|          | 1510 P  | 18   | Hinge - Side fixing 80 x 60 mm, axle Ø 10                       | 10                                        |
|          | 1510 PS | 19   | Adjustable hinge - Side fixing 50 x 200 mm, axle Ø 10           | 10                                        |
| 6261     |         | 20   | Adjustable bracket                                              |                                           |





**SLIDSOFT :**  
our SLIDSOFT calculation  
software in order to make  
easier your technical details  
[www.mantion.com](http://www.mantion.com)

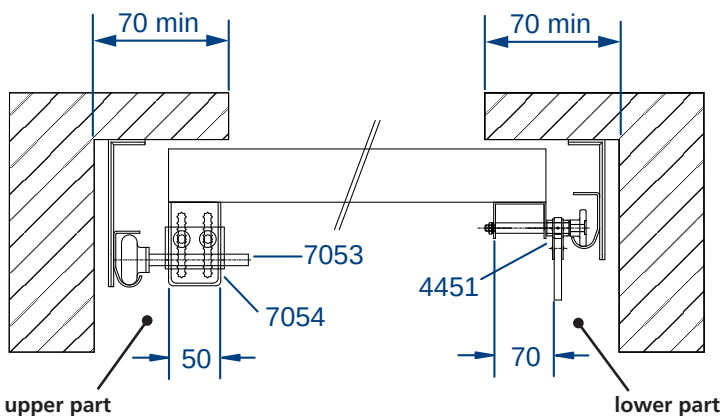


## Balancing :

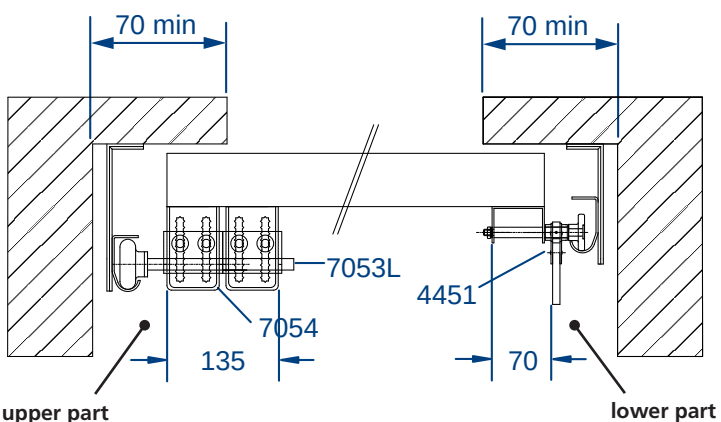
$$\text{Chain height } H = \frac{\text{Door height}}{2}$$

Total counterweight weight = door weight

## DOOR EQUIPPED WITH SINGLE BRACKETS :

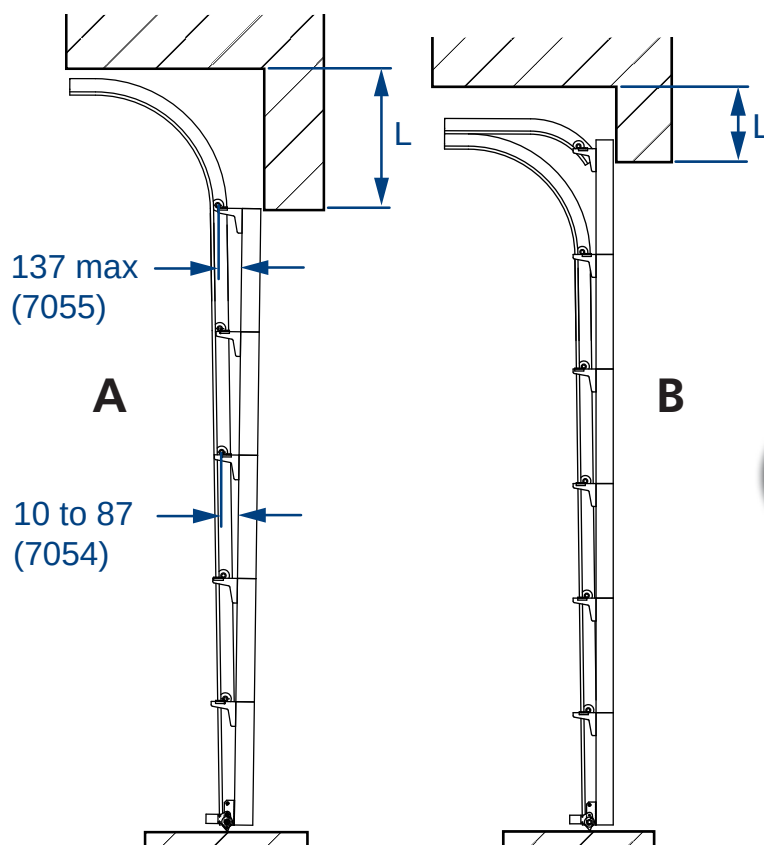


## DOOR EQUIPPED WITH DOUBLE BRACKETS :



## ASSEMBLY INSTRUCTIONS :

| Standard assembly A       |               |                           |               | Standard assembly B         |                             |
|---------------------------|---------------|---------------------------|---------------|-----------------------------|-----------------------------|
| For track 7050            |               | For track 7080            |               | For track 7050              | For track 7080              |
| Curve 7051 C (radius 400) |               | Curve 7081 C (radius 550) |               | Curve 7050 C (radius 250)   | Curve 7080 C (radius 400)   |
| L = min.                  | Upper bracket | L = min.                  | Upper bracket | + Curve 7051 C (radius 400) | + Curve 7081 C (radius 550) |
| 400                       | 7054          | 490                       | 7054          | + L : 200 min.              | + L : 300 min.              |
| 350                       | 7055          | 460                       | 7055          |                             |                             |

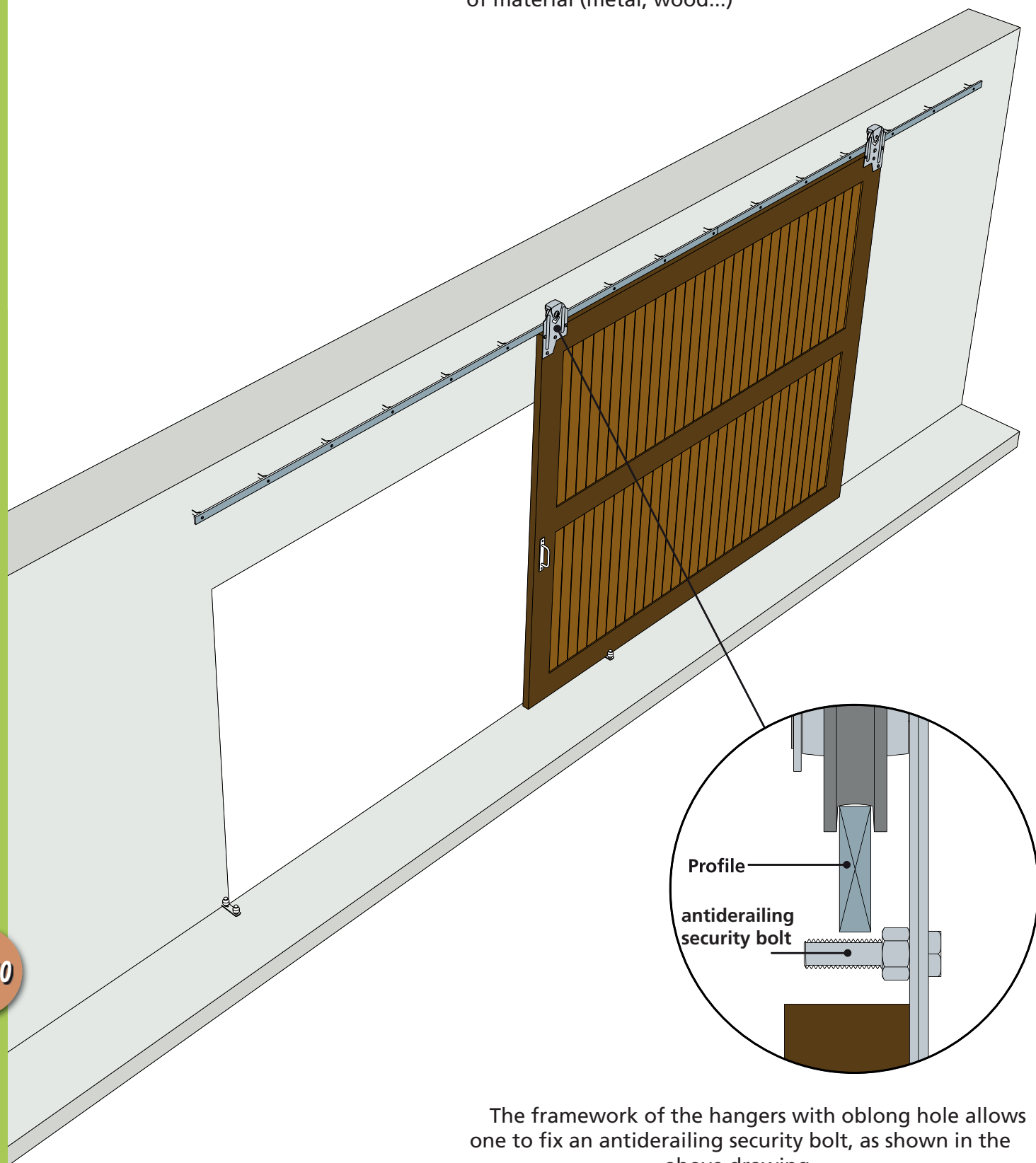


CAPACITY / DOOR : up to 700 kg

TRACK : FLAT TRACK

MOVEMENT : STRAIGHT

- **Simple** : the easiest sliding system to assemble. Maintenance free.
- **Durability** : long lasting running and easy working.
- **Security** : most hangers are equipped with an efficient antiderailing system.
- **Economic** : the simplicity of this system makes it economic.
- **Adaptability** : the hangers are compatible with any kind of material (metal, wood...)



The framework of the hangers with oblong hole allows one to fix an antiderailing security bolt, as shown in the above drawing.



# ***Systems for straight sliding doors on a FLAT TRACK***

## ***SPORT Series®***





**CAPACITY / DOOR :** up to 700 kg

**TRACK :** FLAT TRACK

**MOVEMENT :** STRAIGHT

capacity per door

required flat track section

## HANGERS

|             |        |         |                                                                                          |    |
|-------------|--------|---------|------------------------------------------------------------------------------------------|----|
| 42          | 40 kg  | 35 x 6  | Side fixing hanger - with ZYTEL roller mounted on needle roller bearings                 | 2  |
| 15          | 40 kg  | 35 x 6  | Side fixing hanger - with ZYTEL roller mounted on needle roller bearings                 | 2  |
| 17          | 80 kg  | 50 x 6  | Side fixing hanger - with ZYTEL roller mounted on needle roller bearings                 | 2  |
| ROC 1 A     | 130 kg | 50 x 10 | Side fixing hanger - with ZYTEL roller mounted on needle roller bearings                 | 2  |
| ROC 1 F     | 130 kg | 50 x 10 | Side fixing hanger - with ZYTEL roller mounted on needle roller bearings                 | 2  |
| ROC 2 A     | 200 kg | 50 x 10 | Side fixing hanger - with delrin hub and steel flange mounted on needle roller bearings  | 2  |
| ROC 2 F     | 200 kg | 50 x 10 | Side fixing hanger - with cast iron roller mounted on needle roller bearings             | 2  |
| SPORT 250 A | 250 kg | 50 x 12 | Side fixing hanger - with nylon hub and steel flanges, mounted on needle roller bearings | 2  |
| SPORT 250 F | 250 kg | 50 x 12 | Side fixing hanger - with cast iron roller mounted on needle roller bearings             | 12 |
| SPORT 400   | 400 kg | 50 x 12 | Side fixing hanger - with cast iron roller mounted on needle roller bearings             | 8  |
| SPORT 700   | 700 kg | 50 x 12 | Side fixing hanger - with cast iron roller mounted on precision ball bearings            | 4  |

## FLOOR GUIDING

|        |                                                     |   |
|--------|-----------------------------------------------------|---|
| 1091   | Horizontal sealing guide with 1 ZYTEL olive         | 4 |
| 1091 V | Adjustable guide with 1 olive ZYTEL - Screwing type | 4 |
| 1092   | Horizontal sealing guide with 2 ZYTEL olives        | 6 |
| 1092 V | Adjustable guide with 1 olive ZYTEL - Screwing type | 6 |

## ACCESSORIES

|      |                                          |    |
|------|------------------------------------------|----|
| 1734 | Plate for flat track fixing              |    |
| 1297 | Handle on a 265 mm plate                 | 10 |
| 1298 | Handle with end fasteners - 245 mm long. | 10 |

## SINGLE WHEELS FOR HANGERS

|        |                                                                                 |   |
|--------|---------------------------------------------------------------------------------|---|
| 1002 A | Steel wheel Ø 82 mm for hangers ROC 1 A, ROC 2 A, SPORT 250 A                   | 4 |
| 1002 F | Cast iron wheel Ø 82 mm for hangers ROC 1 F, ROC 2 F, SPORT 250 F               | 4 |
| 1004   | Cast iron wheel Ø 108 mm for hanger SPORT 400 mounted on needle roller bearings | 6 |
| 1005   | Cast iron wheel Ø 108 mm for hanger SPORT 700 mounted on ball bearings          | 6 |



42



17



15



ROC



SPORT



1091



1091 V



1092



1092 V



1734



1297



1298



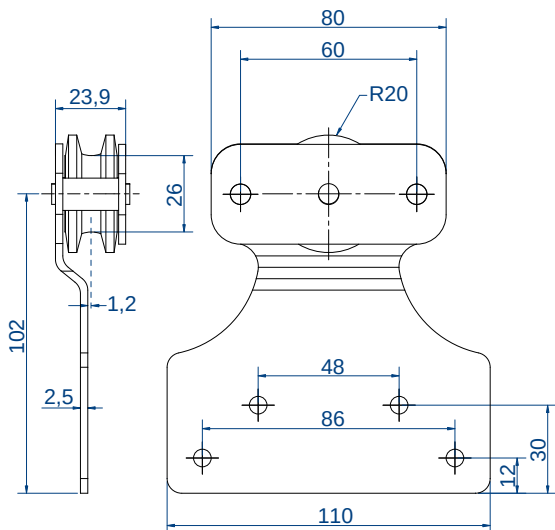
1002 A



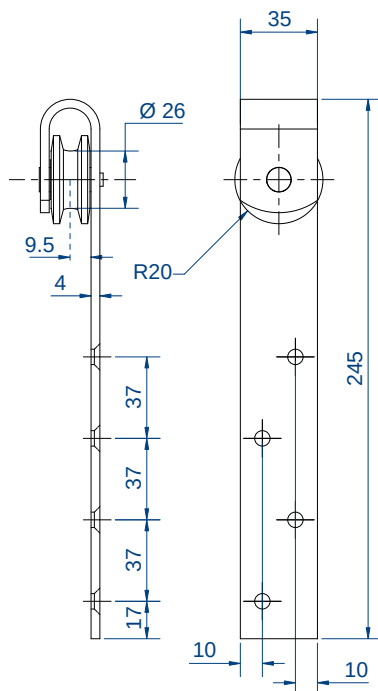
1002 F - 1004



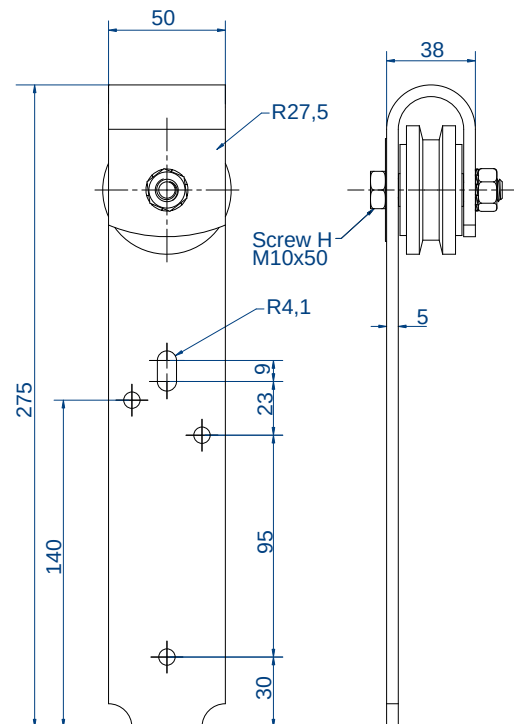
1005



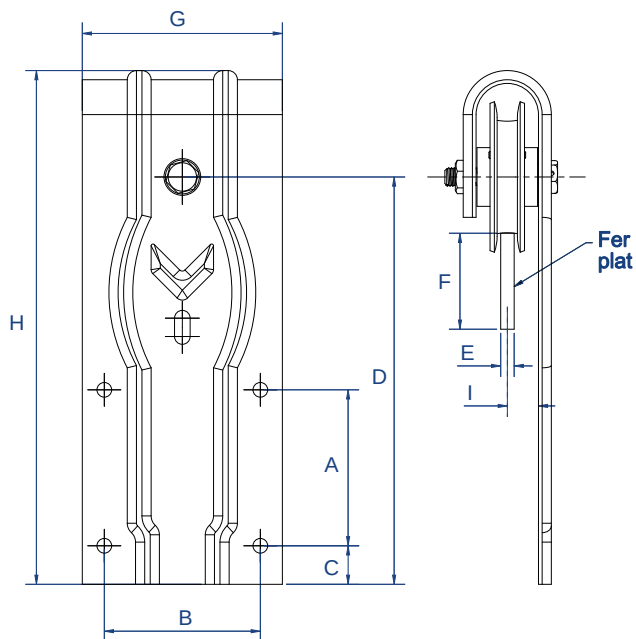
Hanger 42



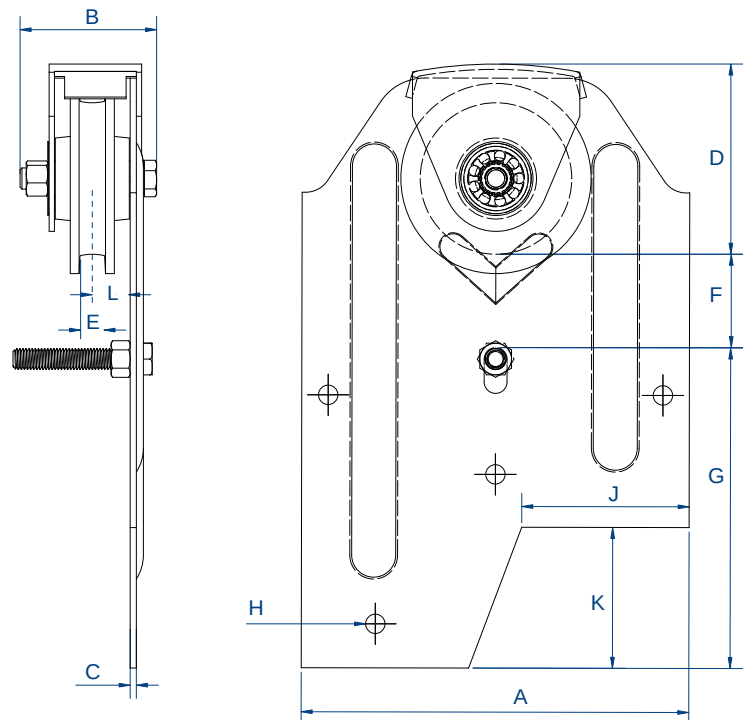
Hanger 15



Hanger 17



Hangers ROC 1A & ROC 2A - ROC 1F & ROC 2 F



Hangers 250 A & 250 F - 400 & 700

| Item Nr | A  | B   | C    | D   | E  | F  | G   | H   |
|---------|----|-----|------|-----|----|----|-----|-----|
| ROC 1A  | 85 | 85  | 21   | 222 | 10 | 50 | 109 | 280 |
| ROC 1F  | 85 | 85  | 21   | 222 | 10 | 50 | 109 | 280 |
| ROC 2A  | 90 | 118 | 28.5 | 252 | 10 | 50 | 146 | 310 |
| ROC 2F  | 90 | 118 | 28.5 | 252 | 10 | 50 | 146 | 310 |

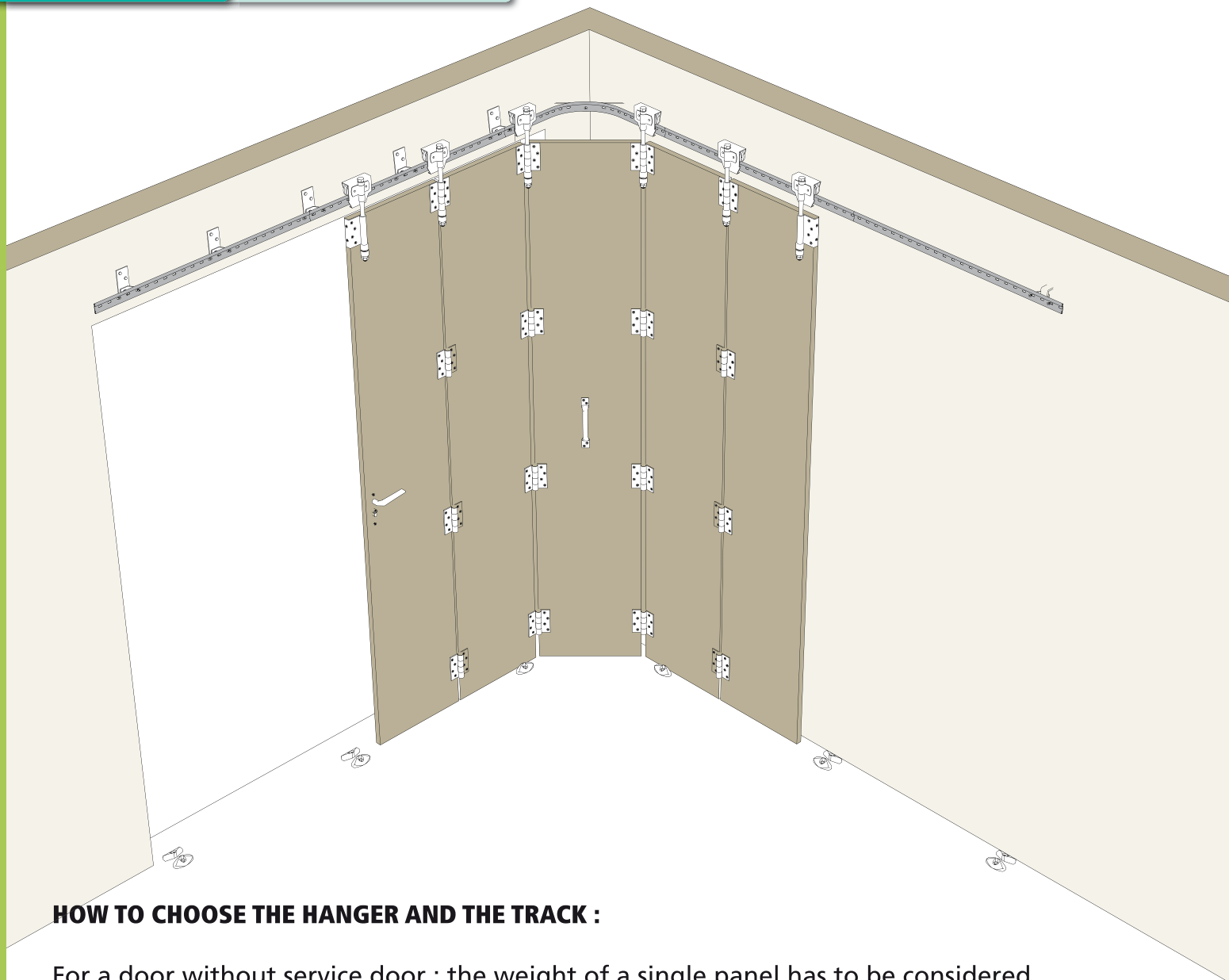
| Item Nr | A   | B  | C   | D    | E  | F  | G     | H   | J  | K  |
|---------|-----|----|-----|------|----|----|-------|-----|----|----|
| 250 A   | 200 | 60 | 3   | 83.5 | 10 | 50 | 166.5 | 8.5 | 75 | 80 |
| 250 F   | 200 | 60 | 3   | 85   | 10 | 50 | 165   | 8.5 | 85 | 80 |
| 400     | 220 | 75 | 3.5 | 105  | 12 | 50 | 180   | 11  | 95 | 80 |
| 700     | 220 | 75 | 4   | 105  | 12 | 50 | 180   | 11  | 95 | 80 |

CAPACITY / PANEL : up to 100 kg

TRACK : PROFILE (BOB 50)  
FLAT TRACK (BOB 100)

MOVEMENT : LATERAL

- **Ingenious** : the spring of the hanger enables a steady load distribution
- **Easy to install**
- **Possibility of installing a service door**



### HOW TO CHOOSE THE HANGER AND THE TRACK :

For a door without service door : the weight of a single panel has to be considered

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

Hangers are supplied with side-fixing hinges

### ON REQUEST :

BOB 50 can be supplied with the hinges 1512 CR (top-fixing, rounded ends), 1512 C (top-fixing) or 1512 SO (welding type)

BOB 100 can be supplied with the hinges 1516 C (top-fixing) or 1516 SO (welding type)

In all cases, the hinges fixed on the panels and those fixed under the hangers must be identical to those equipping the hangers.

# ***Systems for ROUND THE CORNER doors sliding on a flat track***

## ***BOB Series***



**BOB 50**

**56-57**

**BOB 100**

**58-59**



**CAPACITY/ PANEL :** up to 50 kg

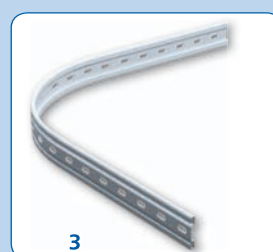
**TRACK :** profile 40 x6

**MOVEMENT :** LATERAL

| PROFILES |      |                                                                       |       |
|----------|------|-----------------------------------------------------------------------|-------|
| Item Nr  | Fig. | Description                                                           | Pack. |
| 1716     | 1    | Profile. Section 40 x 6 mm in galvanised steel , drilled.<br>2 m long | 5     |
| 1717     |      | Ditto 1.50 m long                                                     | 5     |
| 1718     |      | Ditto 1 m long                                                        | 5     |



| CURVES & SEALING BARS |   |                                                                                   |                        |   |
|-----------------------|---|-----------------------------------------------------------------------------------|------------------------|---|
| 1701                  | 2 | Galvanised flat track curve - 40 x 6 mm section<br>Radius : 350 mm                | For max. 400 mm panels | 5 |
| 1702                  |   | Galvanised flat track curve - 40 x 6 mm section<br>Radius : 500 mm                | For max. 550 mm panels | 5 |
| 1721                  | 3 | Galvanised profiled curve - 40 x 6 mm section<br>Radius : 350 mm                  | For max. 350 mm panels | 5 |
| 1722                  |   | Galvanised profiled curve - 40 x 6 mm section<br>Radius : 500 mm                  | For max. 550 mm panels | 5 |
| 1722 L                |   | Galvanised profiled curve - 40 x 6 mm section<br>Radius : 600 mm                  | For max. 700 mm panels | 5 |
| 1710                  | 4 | Sealing bar - 25 x 4 mm section and 485 mm length<br>For curves 1701 et 1721      |                        | 5 |
| 1711                  |   | Sealing bar - 30 x 6 mm section and 620 mm length<br>For curves 1702 and 1722     |                        | 5 |
| 1760                  |   | Sealing bar - 35 x 5 mm section and 720 mm length<br>For curves 1702 L and 1722 L |                        | 5 |

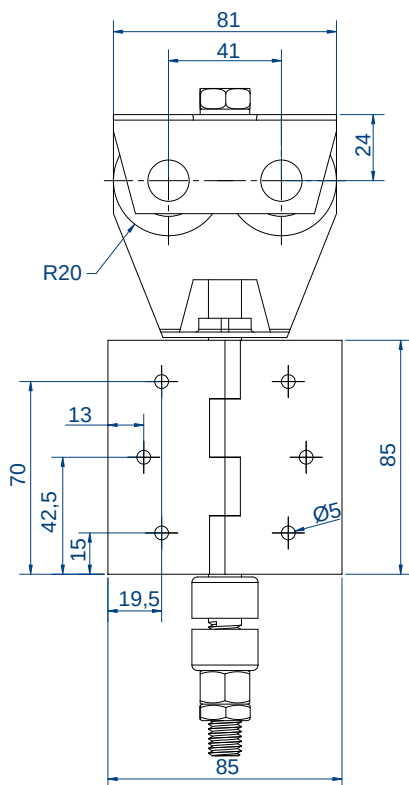


| HANGERS  |   |                                                                            |
|----------|---|----------------------------------------------------------------------------|
| BOB 50   | 5 | Side-fixing hanger with polyamide wheels mounted on needle roller bearings |
| BOB 50 E | 6 | End hanger with polyamide wheels mounted on needle roller bearings         |

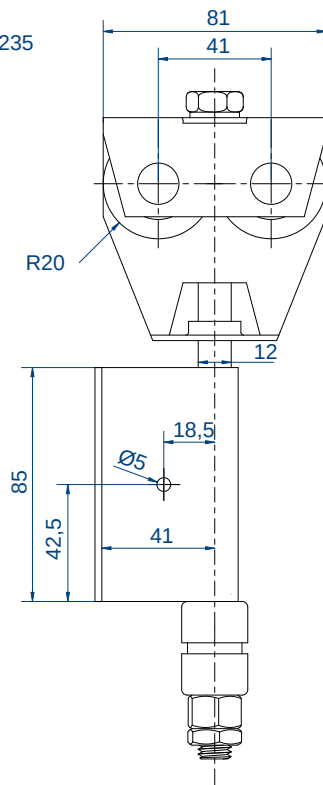
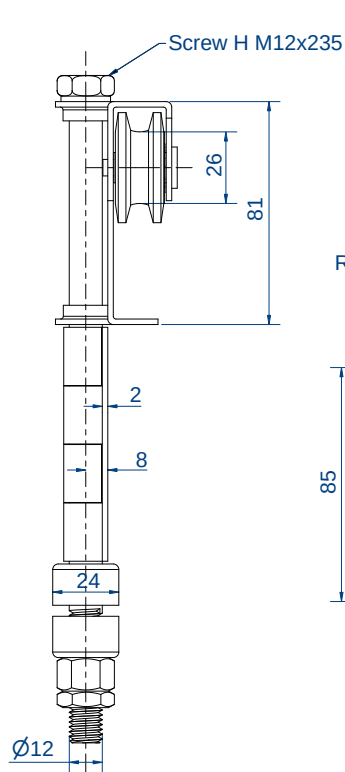


| ACCESSORIES |    |                                                                                     |                                                       |
|-------------|----|-------------------------------------------------------------------------------------|-------------------------------------------------------|
| 1512 P      | 7  | Top-fixing hinge 85 x 85 mm, spindle Ø 12 mm                                        | 10                                                    |
| 1512 CR     | 8  | Side-fixing hinge 85 x 60 mm, riveting or screwing type                             | 10                                                    |
| 1703        | 9  | Bracket screwing type for track of 40 x 6 mm section                                | For a fixing on the track, use 6 x 16 screws and nuts |
| 1704        | 10 | Ditto - sealing type                                                                |                                                       |
| 1011        | 11 | Cast iron shoe guide, adjustable from 21 to 50 mm                                   | 10                                                    |
| 1012        | 12 | Half shoe guide in cast iron                                                        | 4                                                     |
| 1012 N      | 13 | Half shoe guide in full nylon, screwing type                                        | 20                                                    |
| 1709        | 14 | Jointing plate for track elements in flat iron or for profiles of 40 x 6 mm section |                                                       |
| 1301 TN     | 15 | Catch stop, cataphoresis treated                                                    |                                                       |

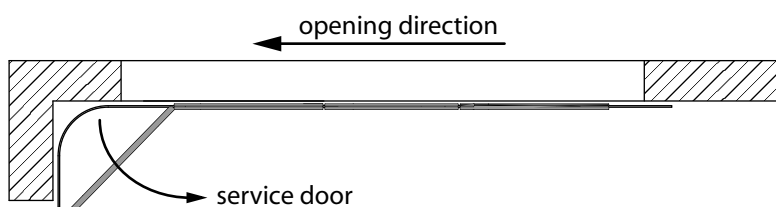
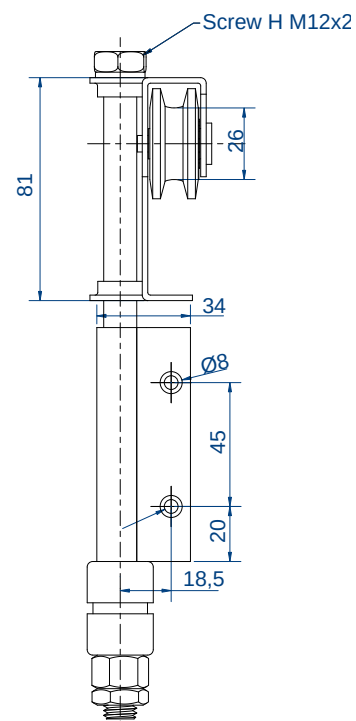




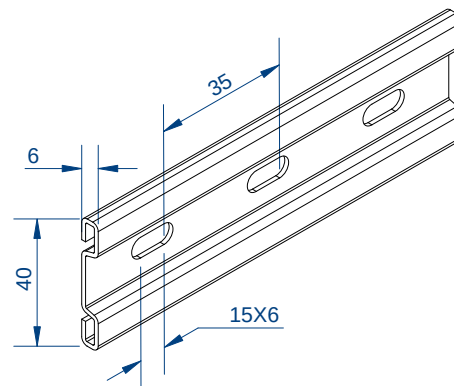
### Intermediate hangers



## End hangers

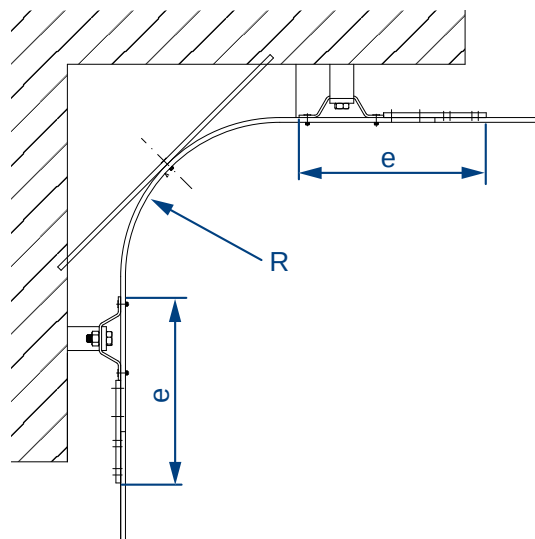


In case of openings with small quoins, the service door shall be placed on the push back side.



## CURVES & SEALING BARS :

| Item Nr | Description                               | Radius R | Max. panel width | Dim. e | Sealing bar |
|---------|-------------------------------------------|----------|------------------|--------|-------------|
| 1701    | Flat iron (cold drawn steel)<br>40 x 6 mm | 350      | 400              | 180    | 1710        |
| 1702    | Flat iron (cold drawn steel)<br>40 x 6 mm | 500      | 550              | 180    | 1711        |
| 1721    | Flat iron 40 x 6 mm                       | 350      | 400              | 180    | 1710        |
| 1722    | Flat iron 40 x 6 mm                       | 500      | 550              | 180    | 1711        |
| 1722 L  | Flat iron 40 x 6 mm                       | 600      | 700              | 222    | 1760        |



**CAPACITY / PANEL :** up to 100 kg**TRACK :** flat iron 50 x 6 (cold drawn steel)**MOVEMENT :** LATERAL**CURVE & SEALING BAR**

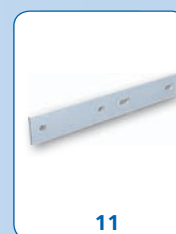
| Item Nr | Fig. | Description                                                         | Pack. |
|---------|------|---------------------------------------------------------------------|-------|
| 1751    | 1    | Galvanised flat track curve<br>50 x 6 mm section - Radius : 600 mm  | 2     |
| 1760    | 2    | Sealing bar - 35 x 5 mm section and 720 mm length<br>For curve 1751 | 2     |

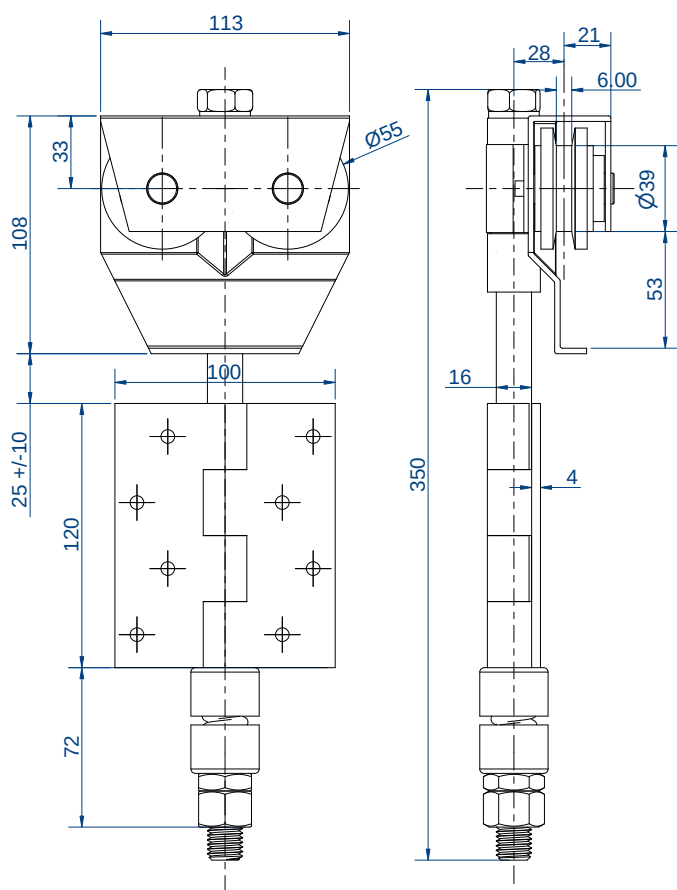
**HANGERS**

|           |   |                                                                            |  |
|-----------|---|----------------------------------------------------------------------------|--|
| BOB 100   | 3 | Side-fixing hanger with polyamide wheels mounted on needle roller bearings |  |
| BOB 100 E | 4 | End hanger with polyamide wheels mounted on needle roller bearings         |  |

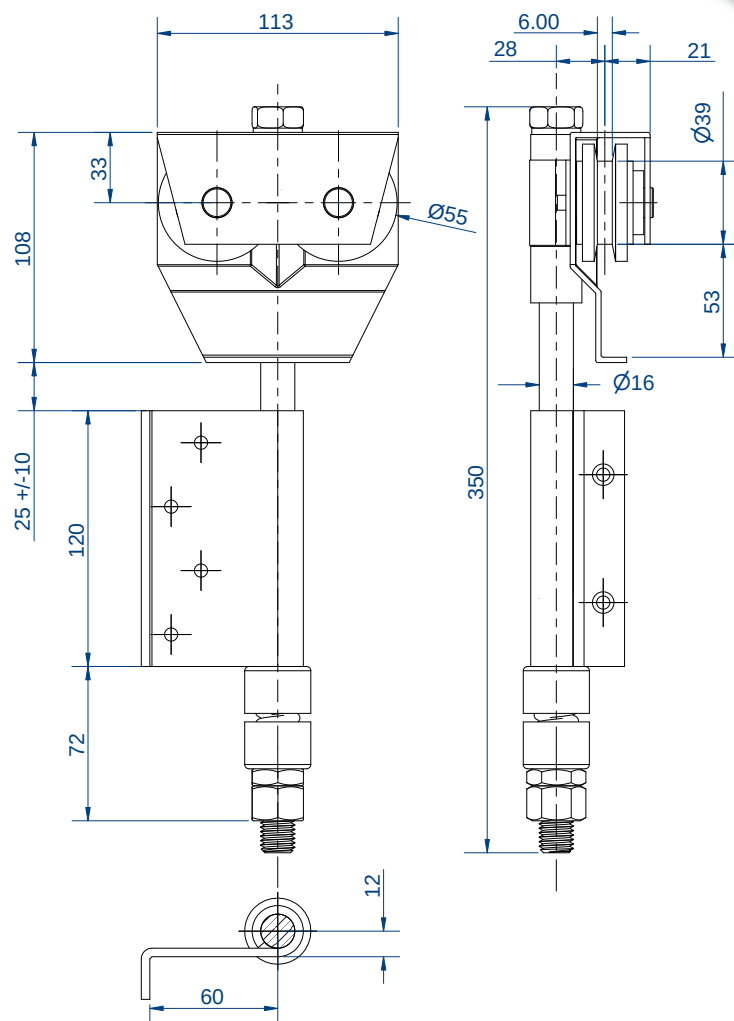
**ACCESSORIES**

|        |    |                                                                    |                                                          |
|--------|----|--------------------------------------------------------------------|----------------------------------------------------------|
| 1516 P | 5  | Top-fixing hinge 120 x 100 mm, spindle Ø 16 mm                     | 4                                                        |
| 1752   | 6  | Bracket screwing type for track of 50 x 6 mm section               | For a fixing on the track, use TF 6 x 16 screws and nuts |
| 1753   | 7  | Ditto sealing type                                                 |                                                          |
| 1014   | 8  | Cast iron shoe guide, adjustable from 32 to 70 mm                  | 4                                                        |
| 1015   | 9  | Half shoe guide in cast iron                                       |                                                          |
| 1012 N | 10 | Half shoe guide in full nylon, screwing type                       | 20                                                       |
| 1709   | 11 | Joining plate for track elements in flat iron of 50 x 6 mm section |                                                          |
| 1302   | 12 | Catch stop, reinforced version                                     | 4                                                        |

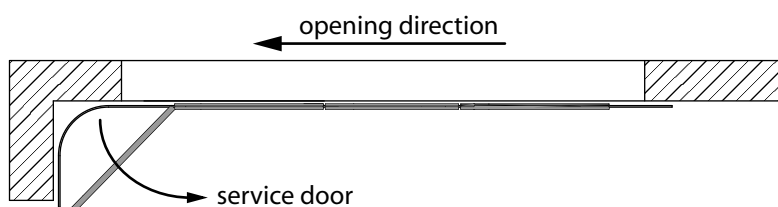




Intermediate hangers



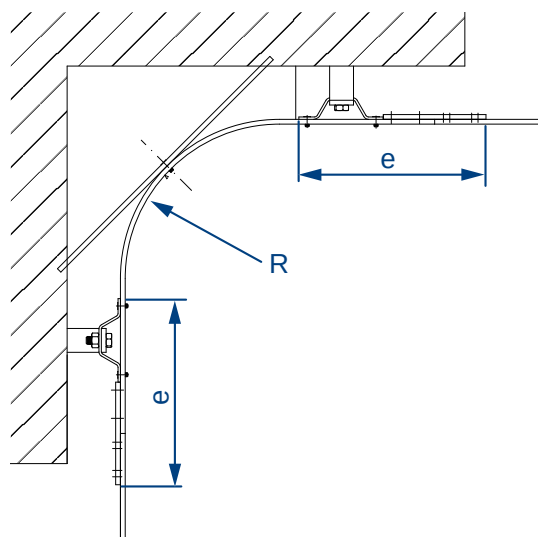
End hangers



For openings with low quoins, the service door is placed on the push back side.

## CURVE & SEALING BAR :

| Item Nr | Description                            | Radius R | Max. panel width | Dim. e | Sealing bar |
|---------|----------------------------------------|----------|------------------|--------|-------------|
| 1751    | Flat iron (cold drawn steel) 50 x 6 mm | 600      | 700              | 222    | 1760        |





## TUBULAR TRACKS

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

## CURVES FOR TUBULAR TRACK

|        |                                                          |  |
|--------|----------------------------------------------------------|--|
| 3530 C | Curve for galvanised track 35 x 30 mm, Radius = 500 mm.  |  |
| 5040 C | Curve for galvanised track 50 x 40 mm, Radius = 600 mm.  |  |
| 6255 C | Curve for galvanised track 62 x 55 mm, Radius = 800 mm.  |  |
| 8570 C | Curve for galvanised track 85 x 70 mm, Radius = 1000 mm. |  |

## GUIDING PROFILES

|          |                                                     |   |
|----------|-----------------------------------------------------|---|
| 1109/400 | 1109<br>Galvanised U profile 25 x 17 mm - 4 m long. | 4 |
| 1109/500 |                                                     | 4 |
| 1109/600 |                                                     | 4 |
| 1110/400 | 1110<br>Galvanised U profile 30 x 30 mm - 4 m long. | 4 |
| 1110/500 |                                                     | 4 |
| 1110/600 |                                                     | 4 |
| 1115/600 | 1115<br>Galvanised U profile 50 x 60 mm - 6 m long. |   |

## GUIDING CURVES

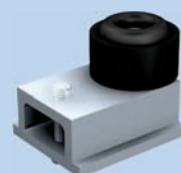
|        |                                                              |  |
|--------|--------------------------------------------------------------|--|
| 1109 C | Galvanised curve for U profile 25 x 17 mm, Radius = 500 mm.  |  |
| 1111 C | Galvanised curve for U profile 30 x 30 mm, Radius = 600 mm.  |  |
| 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. |  |

| RAIL          | 3530 | 5040 | 6255 | 8570 |
|---------------|------|------|------|------|
| Butée de rail | 1098 | 1098 | 2098 | 2098 |

see dimensions on p. 6



1098



2098

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

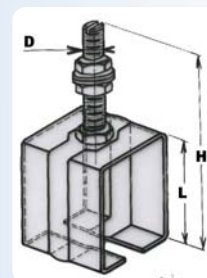
Check the dimensions and particularly the opening dimension. If this dimension is not correct, adjust the track by narrowing or widening its sides.

Joining two tracks can weaken an installation : it is essential to use jointing brackets (see on p.61) in order to insure perfect assembly, without track disalignment. Welding has to be excluded.

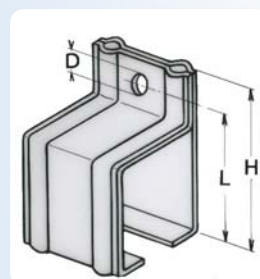
Before the use of the doors, it is recommended that the inside of the tracks be correctly cleaned and greased with bodied oil. To avoid any faulty sliding of the door, it is necessary to grease the inside of the tracks at least every 6 months.



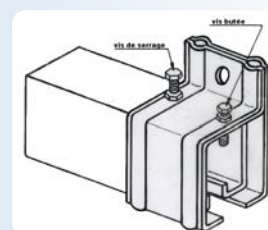
|    | Track section :                                                     | 25 x 25 | 35 x 30 | 50 x 40 | 62 x 55 | 85 x 70  | 85 x 70  |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------|---------|---------|---------|----------|----------|
|                                                                                    | Description                                                         | Item Nr |         |         |         |          |          |
|    | Fixing bracket with normal rod                                      | 2521    | 3531    | 5041    | 6256    | 8571     | 8578 MC* |
|                                                                                    | Fixing bracket with long rod                                        | 2521 L  | 3531 L  | 5041 L  | 6256 L  | 8571 L   | 8578 ML* |
|    | Wall-fixing bracket                                                 |         | 3631    | 5141    | 6356    | -        | -        |
|    | Top-fixing bracket, screwing type                                   |         | 3634    | 5144    | 6359    | -        | -        |
|    | Joining bracket                                                     | 2521 M  | 3531 M  | 5041 M  | 6256 M  | 8578 M*  | 8578 M*  |
|   | Joining bracket with short rod                                      | 2521 MC | 3531 MC | 5041 MC | 6256 MC | 8578 MC* | 8578 MC* |
|                                                                                    | Joining bracket with long rod                                       | 2521 ML | 3531 ML | 5041 ML | 6256 ML | 8578 ML* | 8578 ML* |
|  | Wall-fixing bracket (can also be used as end bracket)               |         | 3631 M  | 5141 M  | 6356 M  | -        | -        |
|  | Top-fixing bracket, screwing type (can also be used as end bracket) |         | 3634 M  | 5144 M  | 6359 M  | -        | -        |
| All these accessories are white galvanised                                         |                                                                     |         |         |         |         |          |          |



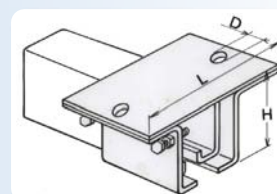
Fixing bracket



Wall-fixing bracket



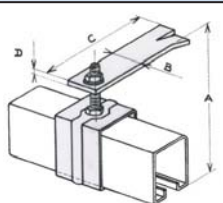
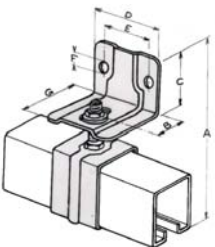
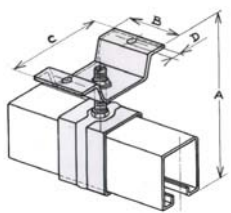
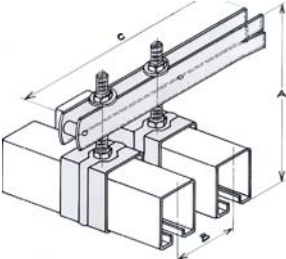
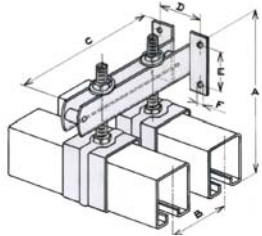
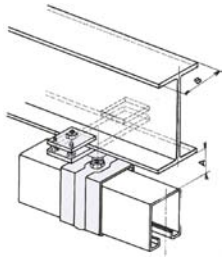
Use of the joining bracket as end bracket



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

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

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

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

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

- The capacity of the hanger must be determined by the door weight
- For the bottom guiding, please refer to our instructions (see on p. 60 and 61).
- The end stops must be placed at mid-height of the door
- For the track 5040 and upwards, stops with rubber buffers have to be used



## 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<br>Height : 75 mm - Width : 20 mm          | 10 |
| 1296   | Handle in ABS, mortising type<br>Height : 70 mm - Width : 46 mm          | 10 |
| 1290   | Handle made with buckled sheet 15/10°<br>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, cathoporesis treated, screwing type. Standard version                                    | 10 |
| 1302    | Catch stop, raw steel. Reinforced version                                                            | 4  |
| 1308 N  | Nickel plated stop - For small wooden or metal door<br>Height : 128 mm                               | 10 |
| 1310 N  | Stopper in stainless steel «brush finish»,<br>Locking distance = 35 mm, height 140mm - width 40 mm   | 12 |
| 1311 N  | Stopper in stainless steel «brush finish»,<br>Locking distance = 35 mm, height 160mm - width 30 mm   |    |
| 1312 N  | Stopper in ZAMAK, locking distance = 20mm,<br>Height 135 mm - width 50 mm                            |    |
| 1314    | Reinforced bolt with screwing type<br>Length : 300 mm - Ø 14 mm                                      | 10 |
| 1314 E  | Reinforced cane bolt with screwing plate Height 300 mm<br>Rod diameter 14 mm adjustable nut          |    |
| 1314 EF | Fixation kit with insert for 1314E and 1316F                                                         |    |
| 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.<br>Length : 500 mm - Ø 16 mm                                   | 10 |
| 1316 E  | Reinforced cane bolt with screwing plate<br>Height 500 mm rod diameter 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<br>in steel. Weight : 660 gr. - Ø 16 mm | 10 |

## SEALING BRUSH

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

## PULLEYS

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



4023



2692



1086



1085



1094 / 1095



1096



2091



2094



2095



1293



1296



1290



1297



1298



1301 TN  
/ 1302



1308 N



1310 N



1311 N



1312 N



1314  
1316



1314 E  
1316 E



1314 SO  
1316 SO



1314 GE  
1316 GE



1314 GP  
1316 GP



1316 B



1150/105

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



4090



4145 F

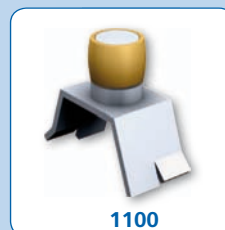
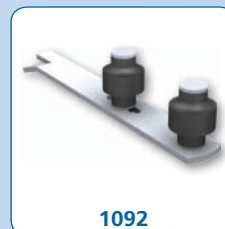
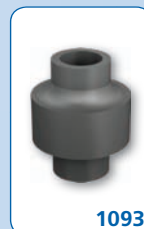
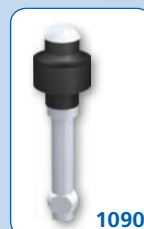


8145 F



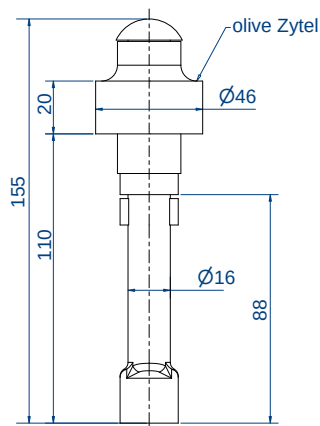
## BOTTOM GUIDES

|         |                                                                                                                        |    |
|---------|------------------------------------------------------------------------------------------------------------------------|----|
| 1090    | Guide for vertical sealing, with a zytel olive                                                                         | 10 |
| 1091    | Guide for horizontal sealing with a zytel olive                                                                        | 4  |
| 1091 V  | Adjustable guide, with a zytel olive. Screwing type                                                                    | 4  |
| 1092    | Adjustable guide for horizontal sealing with 2 zytel olives                                                            | 6  |
| 1092 V  | Adjustable guide with 2 zytel olives, screwing type                                                                    | 6  |
| 1093    | Zytel olive Ø 46 mm, Height : 45 mm, for an axle of 16 mm Ø                                                            | 10 |
| 1088    | Bottom olive guide, without plate - For U 25 x 17 mm                                                                   | 10 |
| 1089    | Ditto for U-profile 30 x 30 mm                                                                                         | 10 |
| 1100    | Bottom guide on a sealing plate - For U-profile 30 x 30 mm                                                             |    |
| 1102    | Bottom guide with olive fixed on a round-ended plate<br>Screwing type - For U-profile 25 x 17 mm                       | 20 |
| 1099    | Ditto for U-profile 30 x 30 mm                                                                                         | 10 |
| 1101    | Bottom guide with olive, on a reinforced plate<br>Screwing type - For U-profile 30 x 30 mm                             | 10 |
| 1059    | Bottom guide with olive (with needle roller bearings) on a reinforced plate. Screwing type<br>For U-profile 50 x 60 mm | 5  |
| 1011    | Adjustable shoe-guide in cast iron (21 to 50 mm)<br>for standard doors                                                 | 10 |
| 1014    | Adjustable shoe-guide in cast iron (32 to 70 mm)<br>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 | Nylon guide, screwing type, for U-profile 30 x 30 mm                                                                   | 8  |

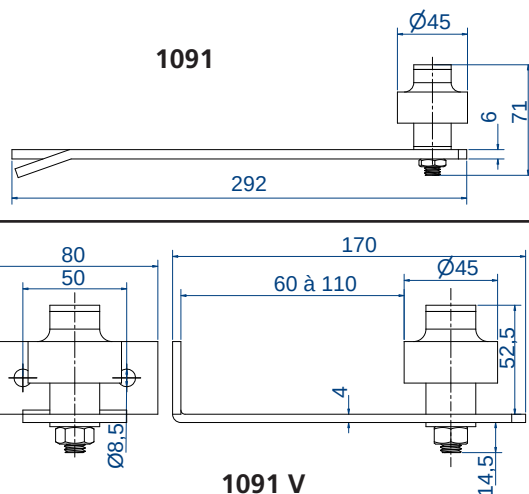


## UPPER GUIDES

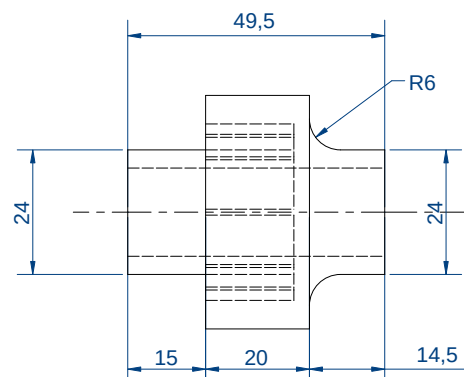
|        |                                                                                                                                                      |  |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1052   | Adjustable upper guide with 2 olives mounted on needle roller bearings, for bottom sliding doors - Sealing type<br>Height of the olive = 30 mm       |  |
| 1052 L | Long adjustable upper guide with 2 olives mounted on needle roller bearings, for bottom sliding doors - Sealing type<br>Height of the olive = 65 mm  |  |
| 1053   | Adjustable upper guide with 2 olives mounted on needle roller bearings, for bottom sliding doors - Screwing type<br>Height of the olive = 30 mm      |  |
| 1053 L | Long adjustable upper guide with 2 olives mounted on needle roller bearings, for bottom sliding doors - Screwing type<br>Height of the olive = 65 mm |  |



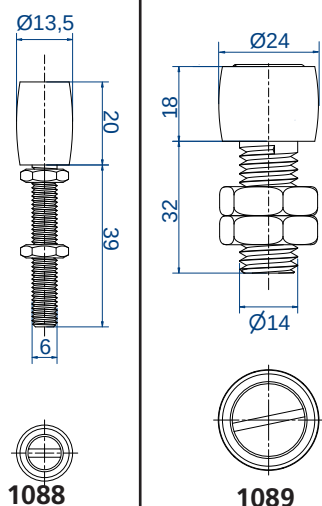
**1090**



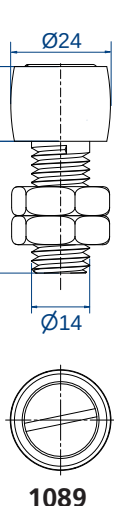
**1091 V**



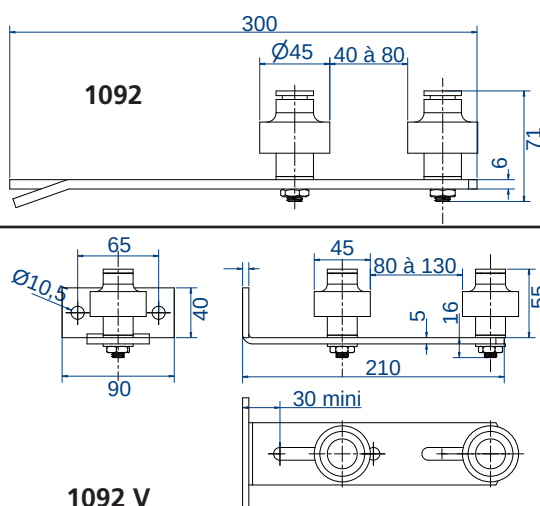
**1093**



**1088**

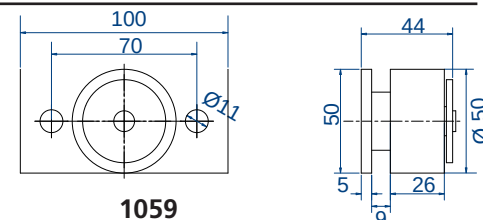


**1089**

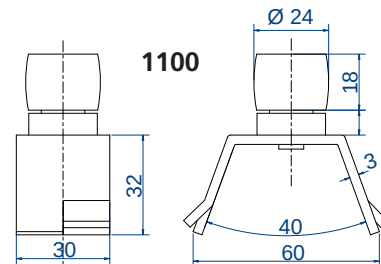


**1092**

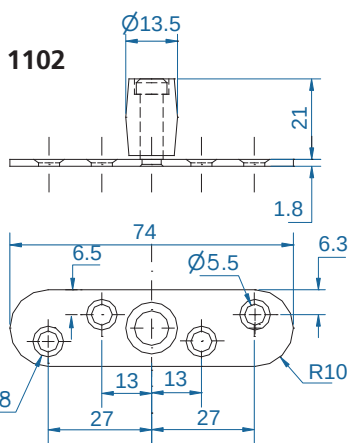
**1092 V**



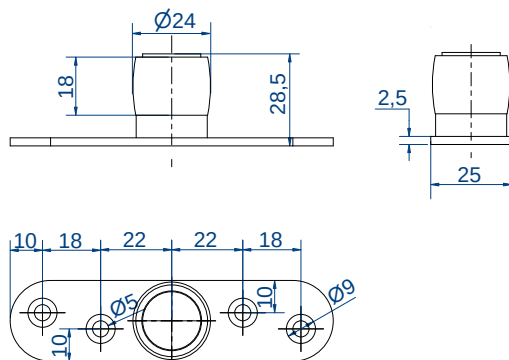
**1059**



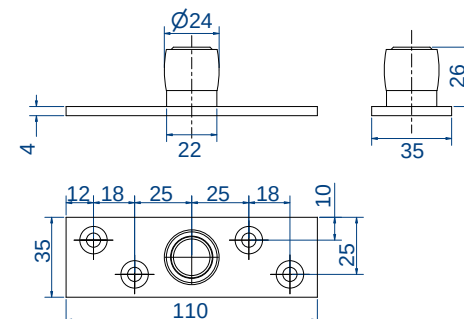
**1100**



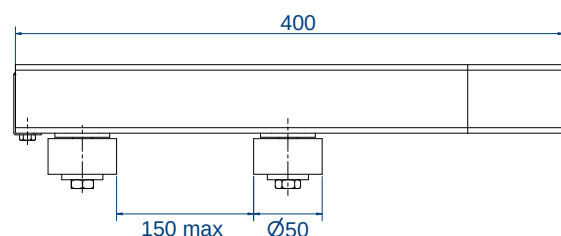
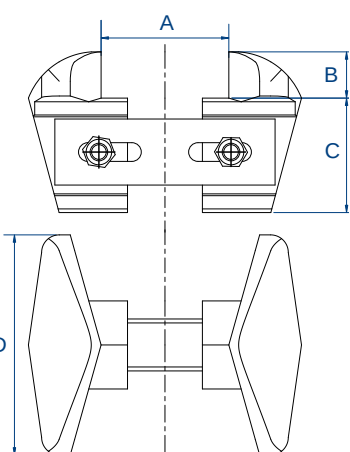
**1102**



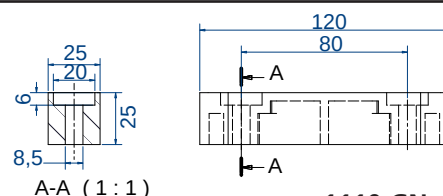
**1099**



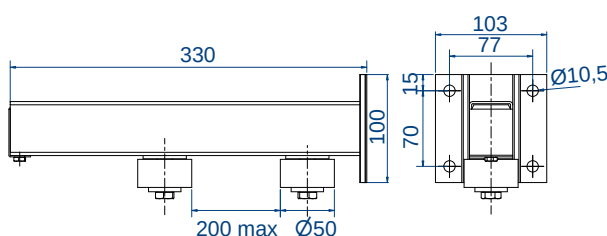
**1101**



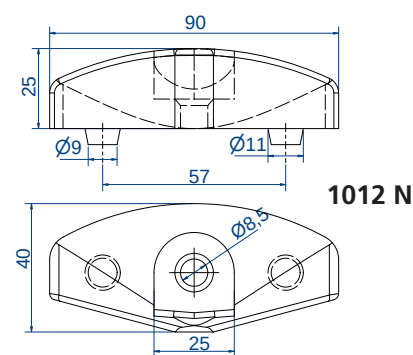
**1052**



**1110 GN**



**1053**



**1012 N**

| Item Nr | A   |     | B  | C  | D   |
|---------|-----|-----|----|----|-----|
|         | Min | Max |    |    |     |
| 1011    | 21  | 50  | 20 | 33 | 72  |
| 1014    | 32  | 70  | 22 | 54 | 108 |

Tracks and accessories : see on p. 60 - 65

### 2 WHEEL TROLLEYS

| Item Nr. | Description                                                                                                       | Capacity/<br>trolley | For<br>track |
|----------|-------------------------------------------------------------------------------------------------------------------|----------------------|--------------|
| 731 R    | Trolley with steel wheels mounted on self-lubricating bronze ring and STAINLESS STEEL smooth axle                 | 5 Kg                 | 3530         |
| 751 R    | Trolley with steel wheels mounted on self-lubricating bronze ring and STAINLESS STEEL smooth axle                 | 20 Kg                | 5040         |
| 731      | Trolley with self-orientable Nylon wheels mounted on smooth axle                                                  | 5 Kg                 | 3530         |
| 751      | Trolley with self-orientable Nylon wheels mounted on self-lubricating bronze ring and STAINLESS STEEL smooth axle | 20 Kg                | 5040         |
| 761      | Trolley with self-orientable Nylon wheels mounted on self-lubricating bronze ring and STAINLESS STEEL smooth axle | 40 Kg                | 6255         |
| 2731     | Trolley with self-orientable steel wheels mounted on ball bearings                                                | 5 Kg                 | 3530         |
| 2751     | Trolley with self-orientable steel wheels mounted on ball bearings                                                | 20 Kg                | 5040         |
| 2761 A   | Trolley with self-orientable steel wheels mounted on ball bearings                                                | 40 Kg                | 6255         |
| 2761     | Trolley with self-orientable wheels mounted on nylon and glass fiber overmoulded ball bearings                    | 60 Kg                | 6255         |



731R - 751 R



731



751 - 761



2731 - 2751  
2761A



2761

### 4 WHEEL TROLLEYS

| Item Nr | Description                                                                                       | Capacity/<br>trolley | For<br>track |
|---------|---------------------------------------------------------------------------------------------------|----------------------|--------------|
| 732     | Trolley with self-orientable Nylon wheels mounted on smooth axle                                  | 10 Kg                | 3530         |
| 752     | Trolley with steel wheels mounted on self-lubricating bronze ring and STAINLESS STEEL smooth axle | 40 Kg                | 5040         |
| 762     | Trolley with steel wheels mounted on self-lubricating bronze ring and STAINLESS STEEL smooth axle | 80 Kg                | 6255         |
| 2732    | Trolley with self-orientable steel wheels mounted on ball bearings                                | 25 Kg                | 3530         |
| 2752    | Trolley with self-orientable steel wheels mounted on ball bearings                                | 60 Kg                | 5040         |
| 2762 A  | Trolley with self-orientable wheels mounted on nylon and glass fiber overmoulded ball bearings    | 150 Kg               | 6255         |
| 2762    | Trolley with self-orientable wheels mounted on nylon and glass fiber overmoulded ball bearings    | 125 Kg               | 6255         |



732



752 - 762



2732 - 2752 - 2762A



2762

### 4 WHEEL TROLLEYS for hook or ring

| Item Nr | Description                                                                                       | Capacity/<br>trolley | For<br>track |
|---------|---------------------------------------------------------------------------------------------------|----------------------|--------------|
| 832     | Trolley with self-orientable Nylon wheels mounted on smooth axle                                  | 10 Kg                | 3530         |
| 852     | Trolley with steel wheels mounted on self-lubricating bronze ring and STAINLESS STEEL smooth axle | 40 Kg                | 5040         |
| 862     | Trolley with steel wheels mounted on self-lubricating bronze ring and STAINLESS STEEL smooth axle | 80 Kg                | 6255         |
| 2832    | Trolley with self-orientable steel wheels mounted on ball bearings                                | 25 Kg                | 3530         |
| 2852    | Trolley with self-orientable steel wheels mounted on ball bearings                                | 60 Kg                | 5040         |
| 2862 A  | Trolley with self-orientable wheels mounted on nylon and glass fiber overmoulded ball bearings    | 150 Kg               | 6255         |
| 2862    | Trolley with self-orientable wheels mounted on nylon and glass fiber overmoulded ball bearings    | 125 Kg               | 6255         |



832



852 - 862



2832 - 2852 - 2862A



2862

For further information about our complete range,  
visit our website: **[www.mantion.com](http://www.mantion.com)**  
or ask for our catalog 711 handling systems

## FLAT CABLE TROLLEYS

| LEADING TROLLEYS*                |                                                                                                                  |                      |              |
|----------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------|--------------|
| Item nr                          | Description                                                                                                      | Capacity/<br>trolley | For<br>track |
| 2433 P                           | Leading trolley equipped with Nylon wheels mounted on ball bearings - Cable dim.: 45 x 20 max.                   | 25 Kg                | 3530         |
| 2453 P                           | Leading trolley equipped with Nylon wheels mounted on ball bearings - Cable dim.: 70 x 20 max.                   | 50 Kg                | 5040         |
| TROLLEY WITH OSCILLATING SUPPORT |                                                                                                                  |                      |              |
| 2432 P                           | Trolley with oscillating support equipped with Nylon wheels mounted on ball bearings<br>Cable dim.: 45 x 20 max. | 25 Kg                | 3530         |
| 2452 P                           | Trolley with oscillating support equipped with Nylon wheels mounted on ball bearings<br>Cable dim.: 45 x 20 max. | 50 Kg                | 5040         |
| FIXED END SUSPENSIONS            |                                                                                                                  |                      |              |
| 9434 PS                          | Suspension fixe d'extrémité pour câbles 70 x 20 maxi                                                             | 25 Kg                | 3530         |
| 9434 PS                          | Suspension fixe d'extrémité pour câbles 70 x 20 maxi                                                             | 50 Kg                | 5040         |



2433P - 2453P



2432P - 2452P



9434 PS

## ROUND CABLE TROLLEYS

| LEADING TROLLEYS*                |                                                                                                          |                      |              |
|----------------------------------|----------------------------------------------------------------------------------------------------------|----------------------|--------------|
| Item Nr                          | Description                                                                                              | Capacité/<br>trolley | For<br>track |
| 2433 R                           | Leading trolley equipped with Nylon wheels mounted on ball bearings - Cable: Ø 10 to 25                  | 15 Kg                | 3530         |
| 2453 R                           | Leading trolley equipped with Nylon wheels mounted on ball bearings - Cable: Ø 10 to 25                  | 20 Kg                | 5040         |
| TROLLEY WITH OSCILLATING SUPPORT |                                                                                                          |                      |              |
| 2432 R                           | Trolley with oscillating support equipped with Nylon wheels mounted on ball bearings - Cable: Ø 10 to 25 | 15 Kg                | 3530         |
| 2452 R                           | Trolley with oscillating support equipped with Nylon wheels mounted on ball bearings - Cable: Ø 10 to 25 | 20 Kg                | 5040         |
| FIXED END SUSPENSIONS            |                                                                                                          |                      |              |
| 9434 R                           | Fixed end suspension for cable Ø 10 to 25                                                                | 15 Kg                | 3530         |
| 9434 R                           | Fixed end suspension for cable Ø 10 to 25                                                                | 20 Kg                | 5040         |



2433R - 2453R



2432R - 2452R



9434 R

| BOX TROLLEY* |                                                             |                      |              |
|--------------|-------------------------------------------------------------|----------------------|--------------|
| Item Nr      | Description                                                 | Capacity/<br>trolley | For<br>track |
| 2436         | Trolley equipped with Nylon wheels mounted on ball bearings | 25 Kg                | 3530         |
| 2456         | Trolley equipped with Nylon wheels mounted on ball bearings | 50 Kg                | 5040         |



2436 - 2456

\*The cable fixing is designed with a patented articulation allowing the cable to oscillate in a pendular movement. This avoids a premature wear of the wheels.

| RINGS   |                                      |          |
|---------|--------------------------------------|----------|
| Item Nr | Description                          | Capacity |
| 8321    | Steel ring Ø 10 - interior Ø : 15 mm | 25 Kg    |
| 8521    | Steel ring Ø 12 - interior Ø : 18 mm | 60       |
| 8821    | Steel ring Ø 22 - interior Ø : 14 mm | 300      |

| HOOKS   |                                                   |          |
|---------|---------------------------------------------------|----------|
| Item Nr | Description                                       | Capacity |
| 8322    | Steel hook Ø 10 - Passage 13 mm                   | 25 Kg    |
| 8522    | Steel hook Ø 12 - Passage 18 mm                   | 60 Kg    |
| 8622    | Steel hook Ø 14 - Passage 18 mm with safety catch | 150 Kg   |



8321 - 8521 - 8821



8322\* - 8522\* - 8622

\* without safety catch



# HERCULE® STAINLESS STEEL RANGE

**CAPACITY/DOOR :** up to 400 kg

**TRACK :** 9010-9030-9040

**MOVEMENT :** STRAIGHT

Track and accessories completely made of 100 % stainless steel  
2 different grades :

➤ A2 (304L) : for food industry...

➤ A4 (316L) : for sliding doors in a highly aggressive environment :  
sea environment, chemical industry, hospitals, nuclear industry, ...

| FOR DOORS UP TO 60 KG |            | Track 9010 X |                                                             |  |
|-----------------------|------------|--------------|-------------------------------------------------------------|--|
| Item Nr               |            | Fig.         | Description                                                 |  |
| STEEL A2              | STEEL A4   |              |                                                             |  |
| 9010 XA2/6            | 9010 XA4/6 | 1            | Track 28x30 - L : 6 m                                       |  |
| 9011 XA2              | 9011 XA4   | 5            | Adjustable bracket                                          |  |
| 9013 XA2              | 9013 XA4   | 3            | Angle plate, screwing type                                  |  |
| 9018 XA2              | 9018 XA4   | 7            | Bracket, welding type                                       |  |
| 9018 HXA2             | 9018 HXA4  | 4            | Soffit fixing bracket                                       |  |
| 9018 VXA2             | 9018 VXA4  | 2            | Wall fixing bracket                                         |  |
| 9011 MXA2             | 9011 MXA4  | 6            | Jointing bracket                                            |  |
| 9118 XA2              | 9118 XA4   | 13           | Ornamental stop                                             |  |
| 99212 XA2             | 99212 XA4  | 9            | Hanger with Delrin wheels, smooth axle and M10 fixing screw |  |
| 36XA2                 | 36 XA4     | 10           | Plate (M10 drilling)                                        |  |
| 1110 XA2/6            | 1110 XA4/6 | 14           | U-channel 30x30 - L : 6 m                                   |  |
| 1110 GN               |            | 15           | Nylon guide for U-channel 30x30                             |  |

| FOR DOORS UP TO 200 KG |            | Track 9030 X |                                                                                                                           |  |
|------------------------|------------|--------------|---------------------------------------------------------------------------------------------------------------------------|--|
| Item Nr                |            | Fig.         | Description                                                                                                               |  |
| STEEL A2               | STEEL A4   |              |                                                                                                                           |  |
| 9030 XA2/6             | 9030 XA4/6 | 1            | Track 35x40 - L : 6 m                                                                                                     |  |
| 9031 XA2               | 9031 XA4   | 5            | Adjustable bracket                                                                                                        |  |
| 9033 XA2               | 9033 XA4   | 3            | Angle plate, screwing type                                                                                                |  |
| 9038 XA2               | 9038 XA4   | 7            | Bracket, welding type                                                                                                     |  |
| 9038 HXA2              | 9038 HXA4  | 4            | Soffit fixing bracket                                                                                                     |  |
| 9038 VXA2              | 9038 VXA4  | 2            | Wall fixing bracket                                                                                                       |  |
| 9031 MXA2              | 9031 MXA4  | 6            | Jointing bracket                                                                                                          |  |
| 9139 XA2               | 9139 XA4   | 12           | Stop                                                                                                                      |  |
| 99232 XA2              | 99232 XA4  | 9            | Hanger (Delrin wheels, smooth axle, M12 fixing screw) - For doors up to 100 kg                                            |  |
| 9232 XSA2              | 9232 XSA4  | 8            | Hanger with stainless steel wheels mounted on stainless steel ball bearings and M12 fixing screw - For doors up to 200 kg |  |
| 56 XA2                 | 56 XA4     | 10           | Plate (M12 drilling)                                                                                                      |  |
| 1110 XA2/6             | 1110 XA4/6 | 14           | U-channel 30x30 - L : 6 m                                                                                                 |  |
| 1110 GN                |            | 15           | Nylon guide for U-channel 30x30                                                                                           |  |

| FOR DOORS UP TO 400 KG |            | Track 9040 X |                                                                                                  |  |
|------------------------|------------|--------------|--------------------------------------------------------------------------------------------------|--|
| Item Nr                |            | Fig.         | Description                                                                                      |  |
| STEEL A2               | STEEL A4   |              |                                                                                                  |  |
| 9040 XA2/6             | 9040 XA4/6 | 1            | Track 43,5 x 48,5 - L : 6 m                                                                      |  |
| 9041 XA2               | 9041 XA4   | 5            | Adjustable bracket                                                                               |  |
| 9043 XA2               | 9043 XA4   | 3            | Angle plate                                                                                      |  |
| 9048 XA2               | 9048 XA4   | 7            | Bracket, welding type                                                                            |  |
| 9048 HXA2              | 9048 HXA4  | 4            | Soffit fixing bracket                                                                            |  |
| 9048 VXA2              | 9048 VXA4  | 2            | Wall fixing bracket                                                                              |  |
| 9041 MXA2              | 9041 MXA4  | 6            | Bracket                                                                                          |  |
| 9149 XA2               | 9149 XA4   | 12           | Stop                                                                                             |  |
| 9242 XSA2              | 9242 XSA4  | 8            | Hanger with stainless steel wheels mounted on stainless steel ball bearings and M14 fixing screw |  |
| 66 XA2                 | 66 XA4     | 11           | Plate (M14 drilling)                                                                             |  |
| 1110 XA2/6             | 1110 XA4/6 | 14           | U-channel 30x30 - L : 6 m                                                                        |  |
| 1110 GN                |            | 15           | Nylon guide for U-channel 30x30                                                                  |  |

## HANDLE

|        |    |                                          |  |
|--------|----|------------------------------------------|--|
| 1290 X | 16 | Finger pull handle in A2 stainless steel |  |
|--------|----|------------------------------------------|--|



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12

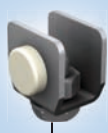


Fig. 13

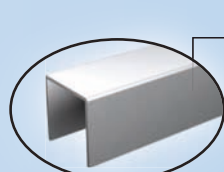


Fig. 14

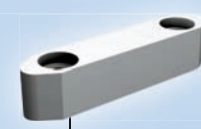


Fig. 15



Fig. 16

## Ask our documentation on:

### The GARAGE DOORS RANGE :

- UP AND OVER DOORS
- SECTIONAL DOORS

### The GATES series :

- CANTELIVER GATES, hangers, fittings and tracks for steel and aluminium gates
- BOTTOM SLIDING GATES, hangers, wheels (in cast iron, steel and stainless steel) and profiles
- GATES MOUNTED ON PIVOTS, pivots and hinges
- ACCESSORIES

### THE MINISPORT® RANGE :

- MINITUB, sliders and accessories for light doors up to 6 kg (aluminium track).
- PICO accessories for doors up to 25 kg (PVC track) and up to 55 kg (aluminium track).
- MEDIUM, fittings for light doors up to 14 kg and for curtains up to 4 kg max/hanger.
- TUBEL, fittings for doors up to 38 kg (aluminium or steel tracks).
- CADETTE-SUPERCADETTE, fittings for doors up to 60 kg (steel track).
- OLYMPIC, fittings for doors up to 50 kg on a differential telescopic gear
- SAF, fittings for doors up to 120 kg (aluminium track).
- 5300, fittings for folding doors up to 15 kg
- 1300, «MANTION» shutter stays

### The GLASS DOORS RANGE :

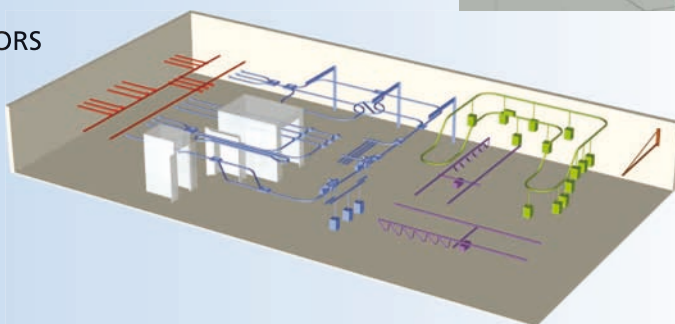
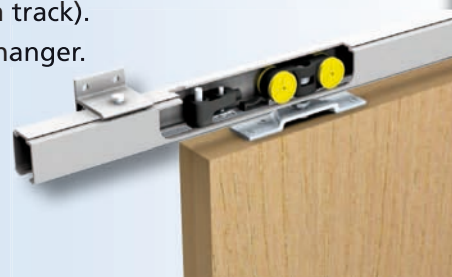
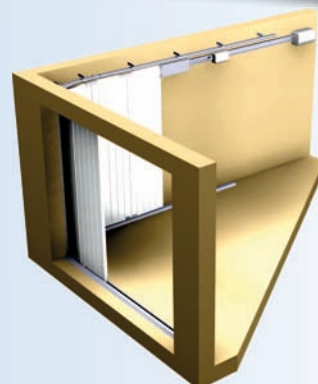
- SAFGLASS PENTURE 80 & 120, straight sliding system.
- SAFGLASS PINCE 80, straight sliding system.
- SAFGLASS DESIGN 80 & 120, sliding system with visible hangers.

### The HANDLING series :

- TROLLEYS and LOAD CARRIERS
- CURVES, SWITCHES, ELEVATING STATIONS and CONVEYORS
- OVERHEAD CRANES, CABLE CARRIERS and JIBS
- ALUMINIUM AND STEEL TRACKS
- FIXING ACCESSORIES

### The HERCULE® series :

- 9200, fittings for straight SLIDING doors up to 3000 kg
- 9300, fittings for ANGLE sliding doors
- 9500, fittings for FOLDING doors with equal leaves
- 9600, fittings for FOLDING doors with a half leaf
- STAINLESS STEEL PRODUCTS
- AIRSTOP, fittings for airtight doors up to 400 kg.
- ALUMINIUM and STEEL TRACKS
- FIXING ACCESSORIES
- BRAKETS



|          |                 |             |
|----------|-----------------|-------------|
| 0015     | Hanger          | 52          |
| 0017     | Hanger          | 52          |
| 0021     | Plate           | 34          |
| 0026     | Plate           | 34          |
| 0031     | Apron set       | 8-34        |
| 0036     | Plate           | 8-34        |
| 0037     | Plate           | 8-34        |
| 0042     | Hanger          | 52          |
| 0051     | Apron set       | 10-34       |
| 0055     | Plate           | 10          |
| 0056     | Plate           | 10-34       |
| 0061     | Apron set       | 12-34       |
| 0065     | Plate           | 12          |
| 0066     | Plate           | 12-34       |
| 0081     | Apron set       | 14-34       |
| 0085     | Plate           | 14-16       |
| 0086     | Plate           | 14-34       |
| 0261     | Hanger          | 12          |
| 0265     | Hanger          | 12          |
| 0281     | Hanger          | 14          |
| 0285     | Hanger          | 14          |
| 0332     | Hanger          | 22          |
| 0352     | Hanger          | 22          |
| 0362     | Hanger          | 22          |
| 0382     | Hanger          | 22          |
| 0532     | Hanger          | 28          |
| 0552     | Hanger          | 28          |
| 0562     | Hanger          | 28          |
| 0582     | Hanger          | 28          |
| 0623     | Hanger          | 34-35       |
| 0663     | Hanger          | 34          |
| 0683     | Hanger          | 34          |
| 1002 A   | Wheel           | 52          |
| 1002 F   | Wheel           | 52          |
| 1004     | Wheel           | 52          |
| 1005     | Wheel           | 52          |
| 1011     | Shoe guide      | 22-24-56-64 |
| 1012     | Half-shoe guide | 22-24-56-64 |
| 1012 N   | Half-shoe guide | 56-58-64    |
| 1014     | Shoe guide      | 58-64       |
| 1015     | Half-shoe guide | 58-64       |
| 1052     | Guide           | 64          |
| 1052 L   | Guide           | 64          |
| 1053     | Guide           | 64          |
| 1053 L   | Guide           | 64          |
| 1059     | Lower guide     | 14-16-34-64 |
| 1085     | Stop            | 63          |
| 1086     | Stop            | 63          |
| 1087     | Stop            | 48          |
| 1088     | Lower guide     | 34-64       |
| 1089     | Lower guide     | 34-64       |
| 1090     | Guide           | 64          |
| 1091     | Guide           | 52-64       |
| 1091 V   | Guide           | 52-64       |
| 1092     | Guide           | 52-64       |
| 1092 V   | Guide           | 52-64       |
| 1093     | Olive           | 64          |
| 1094     | Stop            | 63          |
| 1095     | Stop            | 63          |
| 1096     | Stop            | 63          |
| 1098     | Stop            | 60          |
| 1099     | Bottom guide    | 10-34-64    |
| 1100     | Guide           | 64          |
| 1101     | Bottom guide    | 12-34-64    |
| 1102     | Bottom guide    | 8-34-64     |
| 1104     | Bottom guide    | 22-28       |
| 1104 E   | Bottom guide    | 22-28       |
| 1104 SO  | Bottom guide    | 24-30       |
| 1104 SOE | Bottom guide    | 24-30       |
| 1105     | Bottom guide    | 22-28       |
| 1105 E   | Bottom guide    | 22-28       |
| 1105 SO  | Bottom guide    | 24-30       |
| 1105 SOE | Bottom guide    | 24-30       |

|              |                 |                            |
|--------------|-----------------|----------------------------|
| 1106         | Bottom guide    | 22-28                      |
| 1106 E       | Bottom guide    | 22-28                      |
| 1106 SO      | Bottom guide    | 24-30                      |
| 1106 SOE     | Bottom guide    | 24-30                      |
| 1108         | Bottom guide    | 22                         |
| 1108 E       | Bottom guide    | 22                         |
| 1108 SO      | Bottom guide    | 24                         |
| 1108 SOE     | Bottom guide    | 24                         |
| 1109 C       | Curve           | 22-24-60                   |
| 1109 M       | Bracket         | 22-24-28-30-34             |
| 1109/200     | Profil          | 16                         |
| 1109/400     | Profil          | 8-22-24-28-30-34-60        |
| 1109/500     | Profil          | 8-22-24-28-30-34-60        |
| 1109/600     | Profil          | 8-22-24-28-30-34-60        |
| 1110 BPS/600 | Profil          | 44                         |
| 1110 GN      | Guide           | 64                         |
| 1110 M       | Bracket         | 22-24-28-34                |
| 1110/300     | Profil          | 16                         |
| 1110/400     | Profil          | 10-12-16-22-24-28-30-34-60 |
| 1110/500     | Profil          | 10-12-22-24-28-30-34-60    |
| 1110/600     | Profil          | 10-12-22-24-28-30-34-60    |
| 1111 BPS/600 | Profil          | 44                         |
| 1111 C       | Curve           | 22-24-60                   |
| 1112 C       | Curve           | 22-24-60                   |
| 1113 C       | Curve           | 22-24-60                   |
| 1114         | Bottom guide    | 28                         |
| 1114 E       | Bottom guide    | 28                         |
| 1114 SO      | Bottom guide    | 30                         |
| 1114 SOE     | Bottom guide    | 30                         |
| 1115 M       | Bracket         | 28-30-34                   |
| 1115/600     | Profil          | 14-16-28-30-34-60          |
| 1150/105     | Dustproof brush | 63                         |
| 1290         | Handle          | 63                         |
| 1290 X       | Handle          | 63                         |
| 1293         | Handle          | 63                         |
| 1296         | Handle          | 63                         |
| 1297         | Handle          | 52-63                      |
| 1298         | Handle          | 52-63                      |
| 1299         | Handle          | 44                         |
| 1301 TN      | Catch stop      | 56-63                      |
| 1302         | Catch stop      | 58-63                      |
| 1308 N       | Stop            | 63                         |
| 1310 N       | Stop            | 63                         |
| 1311 N       | Stop            | 63                         |
| 1314         | Bolt            | 63                         |
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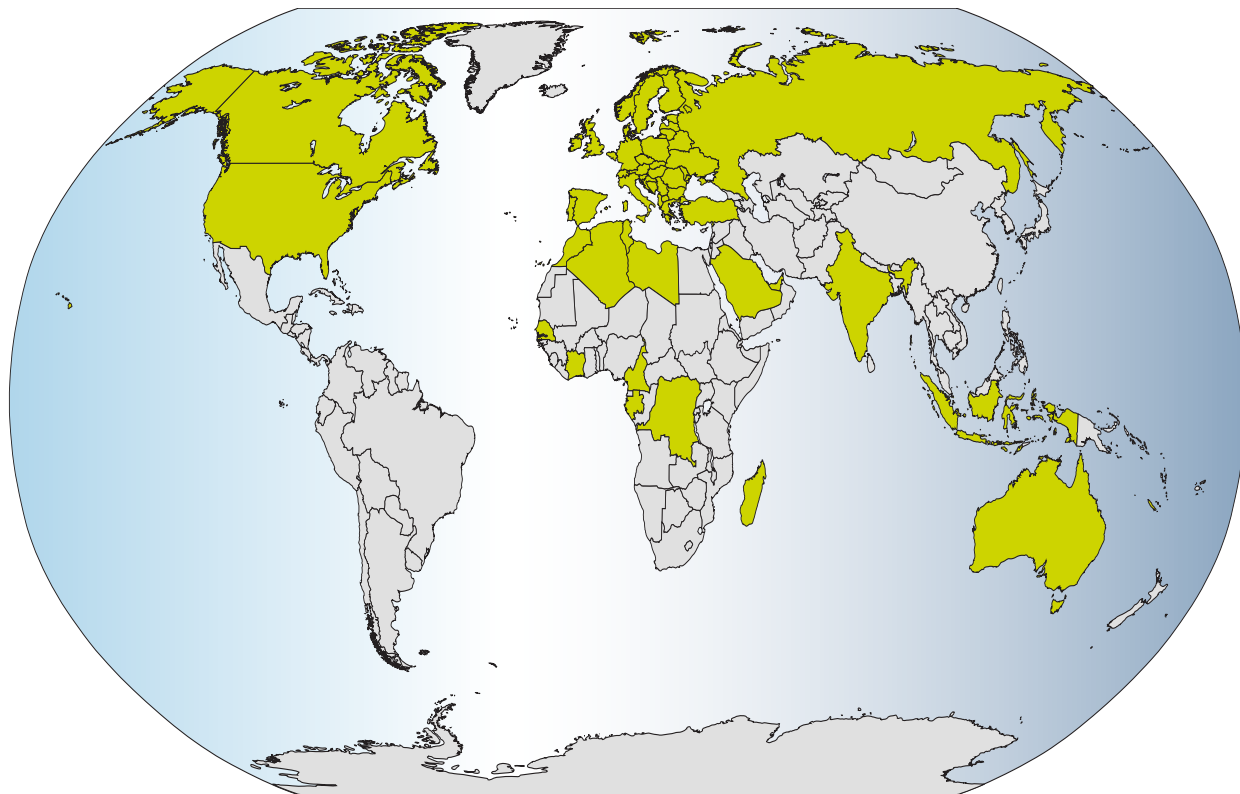
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# MANTION

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