

| FERMETURE COUPE-FEU |



Installation manual **PS60**

Sectional door

Inside installation



www.flema.be

2024

**Flema**
FIRE PREVENTION PRODUCTS

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P.S. : The installation instructions for the motorization and/or the control box is supplied with the box with the motor/control box.

Our fire-resistant doors are safety doors.

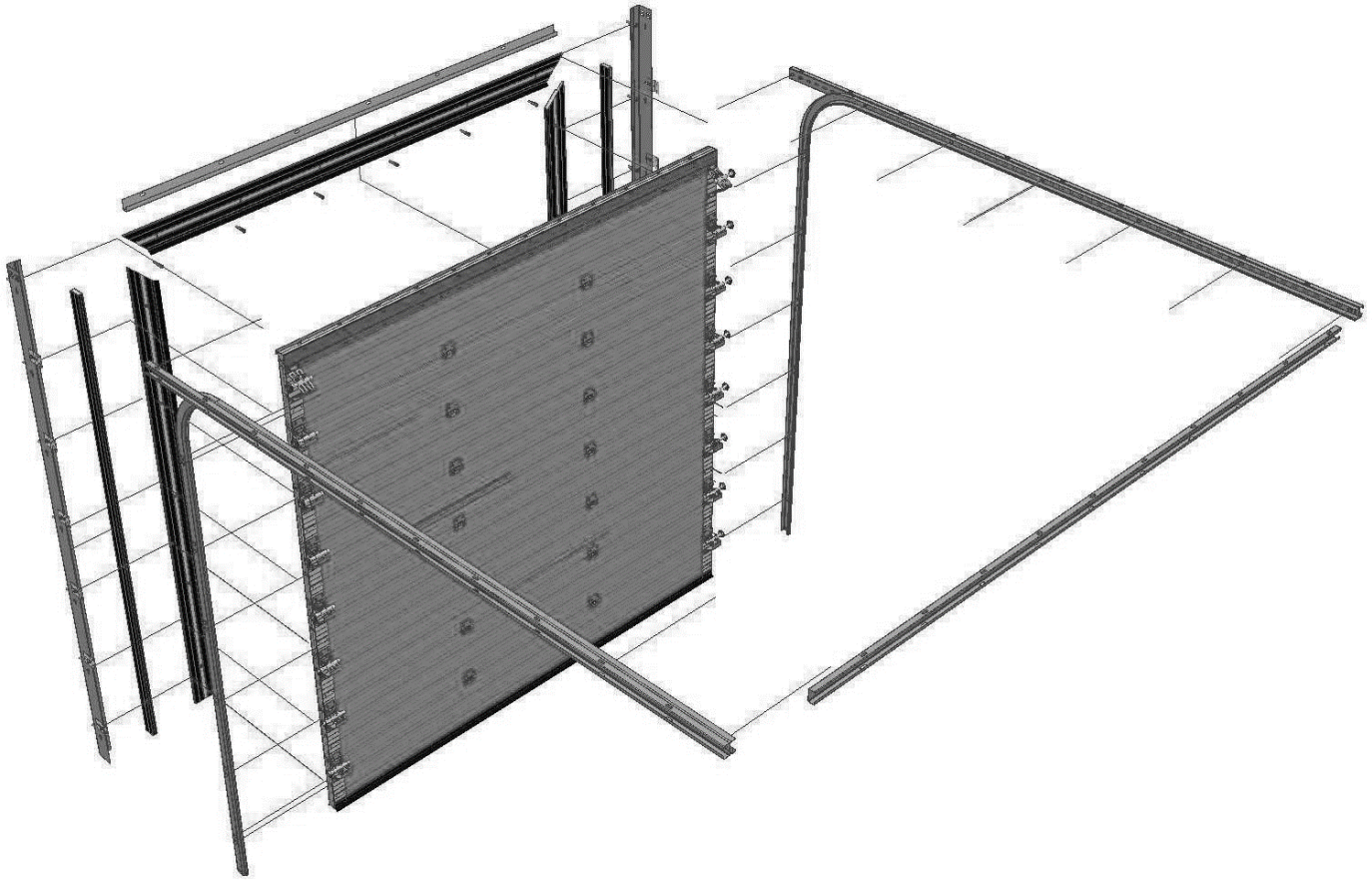
That is why we remind you the importance of an annual maintenance and a monthly check of the automatic closure in case of a fire alarm.

Our MFZ control boxes are equipped with 2x12V emergency batteries. To ensure that the door always closes in case of fire, the batteries must be replaced every 2 years max.

As a reminder, a round sticker is supplied with the control box on which you can indicate the expected replacement date.

Sectional door

PS60



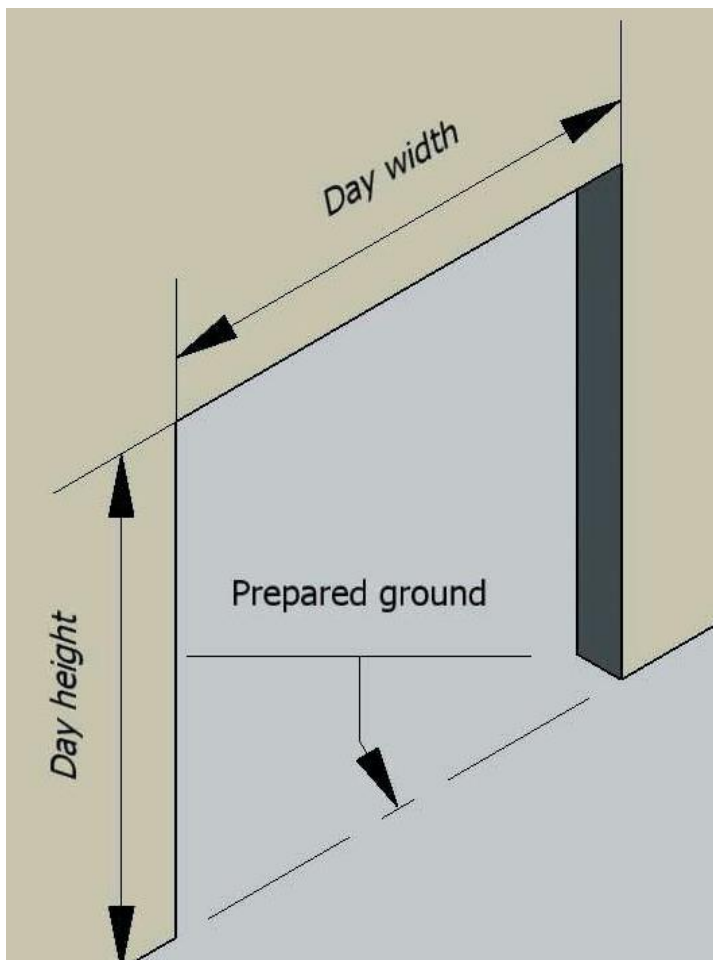
A / Installation of the door without drive

1 °

MEASUREMENTS

The day height and width must be measured as shown in the drawing below (drawing 1).

The floor tolerance is +/- 4mm. This is designed to retain the fire break properties.



→ Before you start fitting, it is important to check the measurements of the worksite against the measurements as ordered.

Drawing 1

2 °

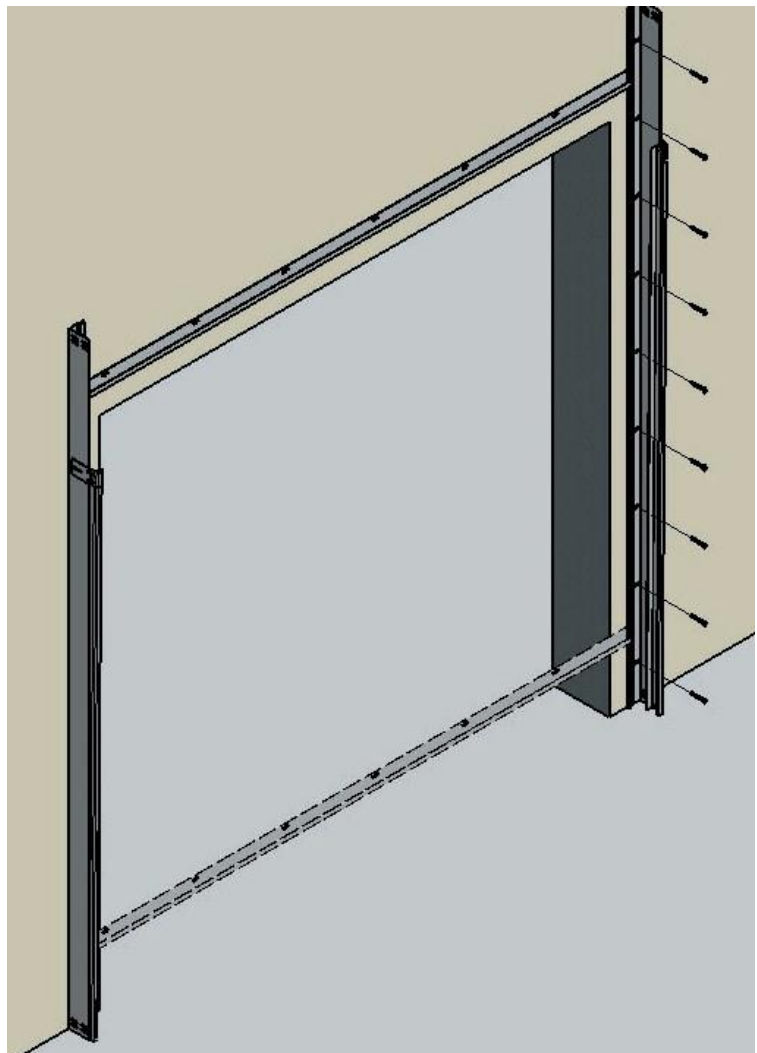
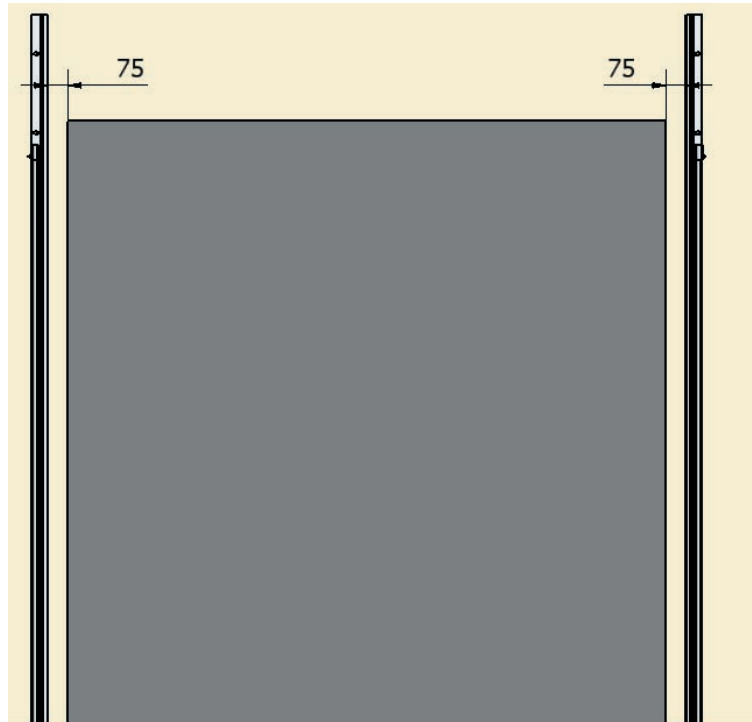
VERTICAL GUIDES

In theory, the guides are placed back of 75mm compared to the opening day in order to place then the frame (drawing 2).

Place the horizontal angle of lintel (ref 6201) along the opening in order to obtain the right spacing between the angles (drawing 3).

→ The vertical guides must be fitted level because the whole door system depends upon it.

Drawing 2



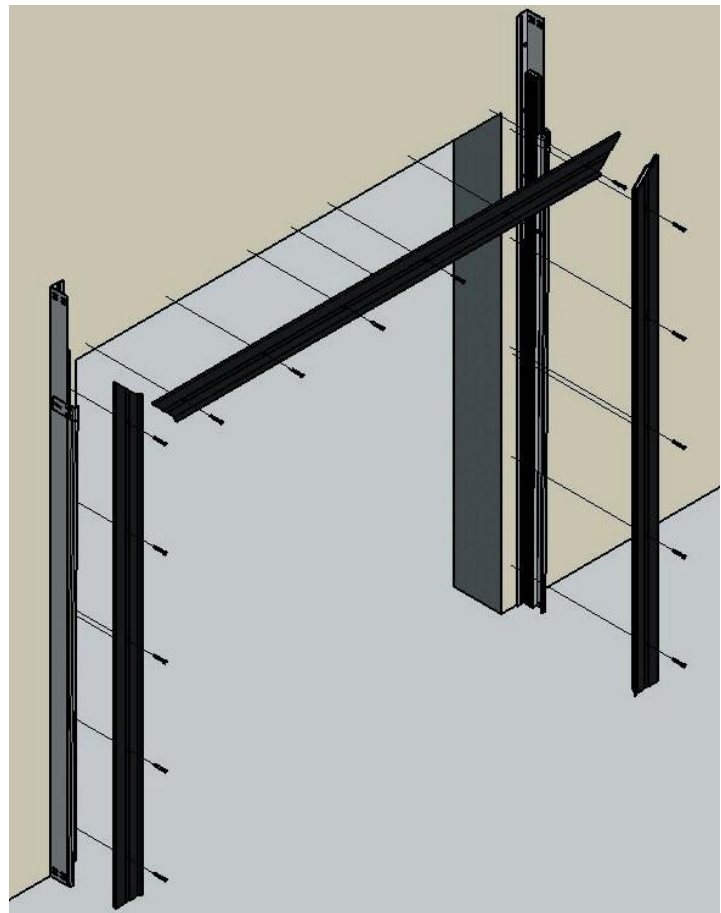
3 °

FRAME

The fire-proof profiles of frame (ref 2481) come to be placed against the angle. The higher profile is placed on the vertical guides.

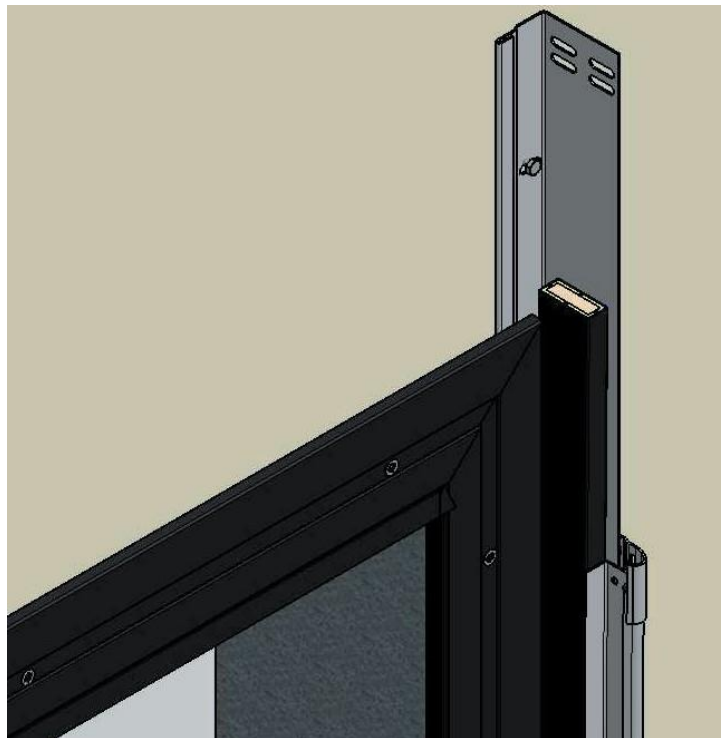
Begin by placing the 3 profiles before fixing.

- The frame must be fastened that there can be no possible daylight between the uprights.
- It is placed using fastening brackets every meter.
- The screws must be countersunk into the profile.



Drawing 6

RESULT



Drawing 7*

* The fireproof frames in the guides are not delivered anymore as the last fire tests have been passed without these.

4 °

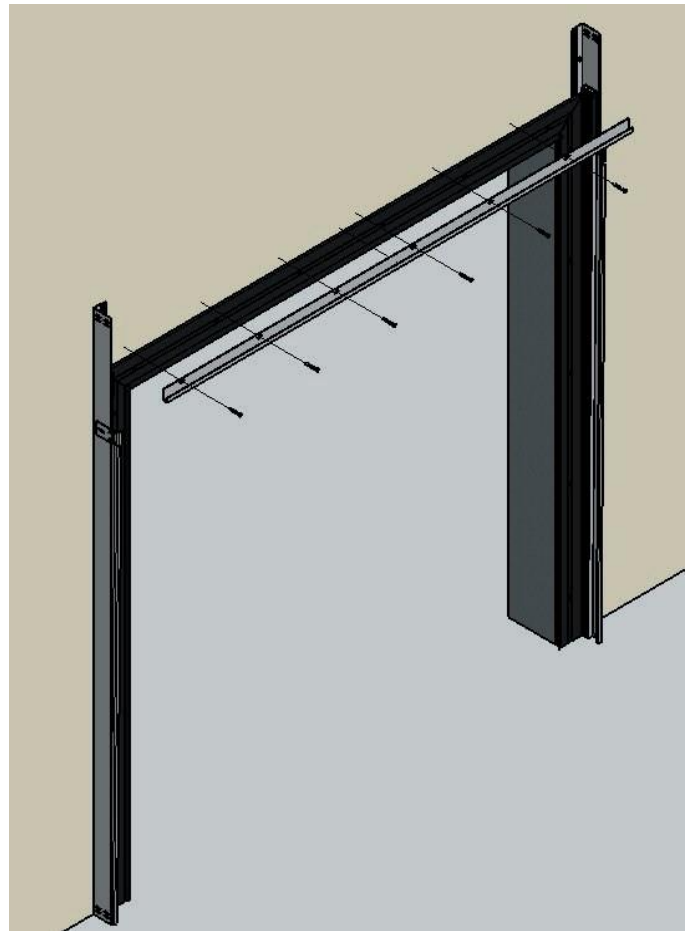
HORIZONTAL ANGLE OF LINTEL AND PERLAU 20MM/2MM

The horizontal angle of lintel (ref 6201) must be placed between the 2 angles on the profile of frame by fastening each of the holes.

Place then inside this profile the same length of perlau* 20mm/2mm.

* *Perlau = intumescent rubber*

Drawing 8



RESULT

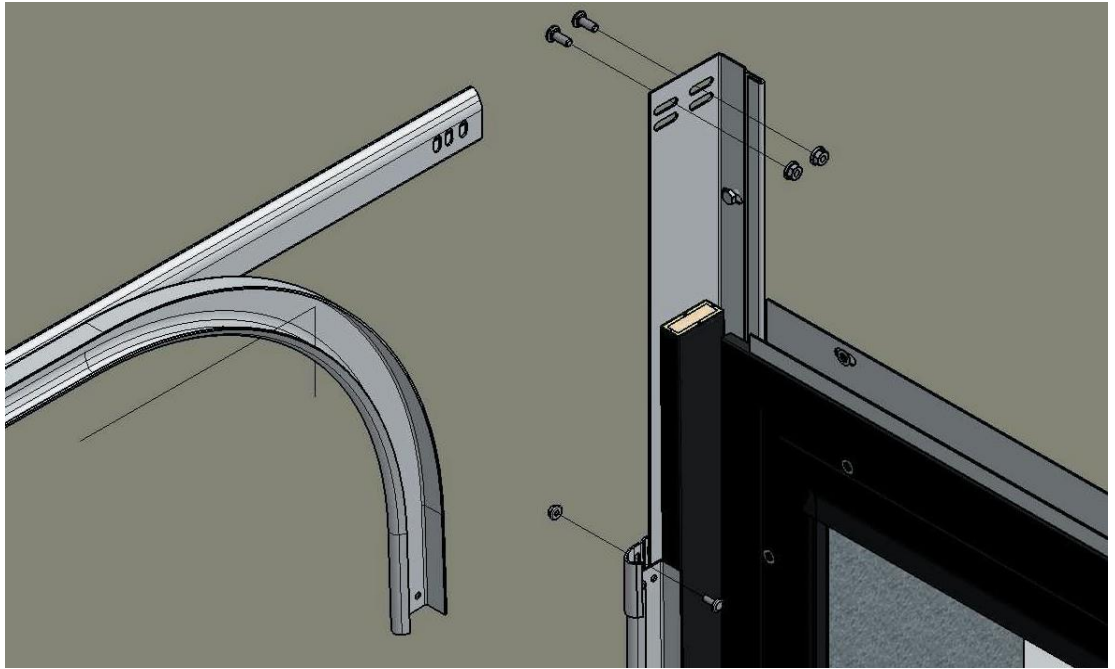
Drawing 9



5 °

HORIZONTAL TRACK SYSTEM

1/ Fasten the 2 horizontal tracks as shown on the drawings 10 and 11. These are placed in the same way as the traditional sectional doors.



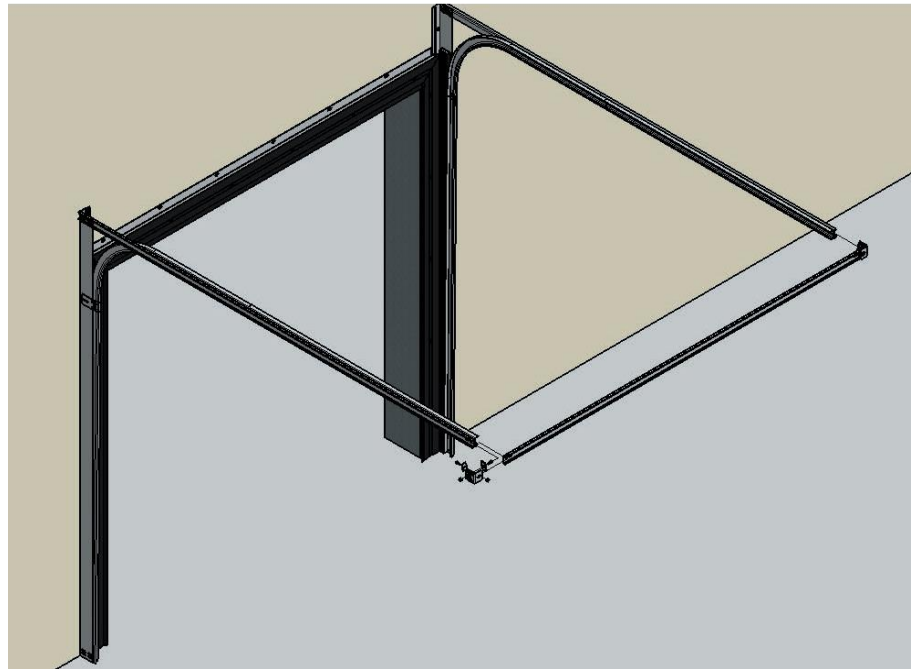
Drawing 10

RESULT

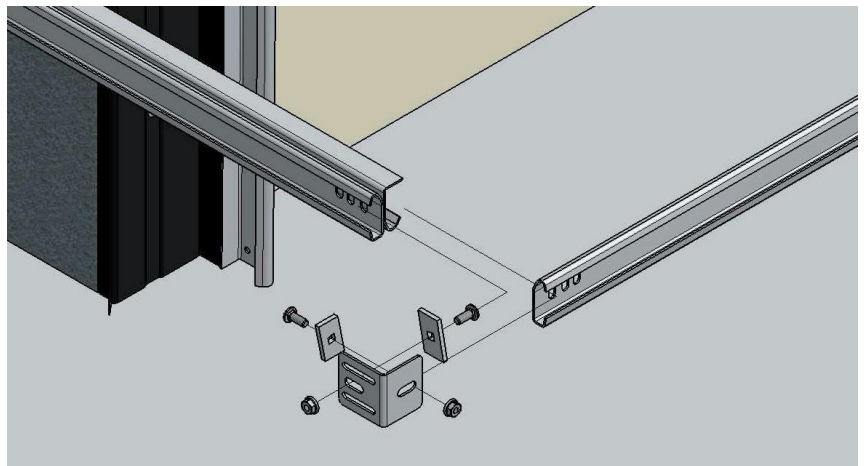


Drawing 11

2/ Fasten then the 5C Profile with the mounting plate in order to guarantee the parallelism of the vertical tracks (drawing 12 and 13).



Drawing 12



Drawing 13

RESULT

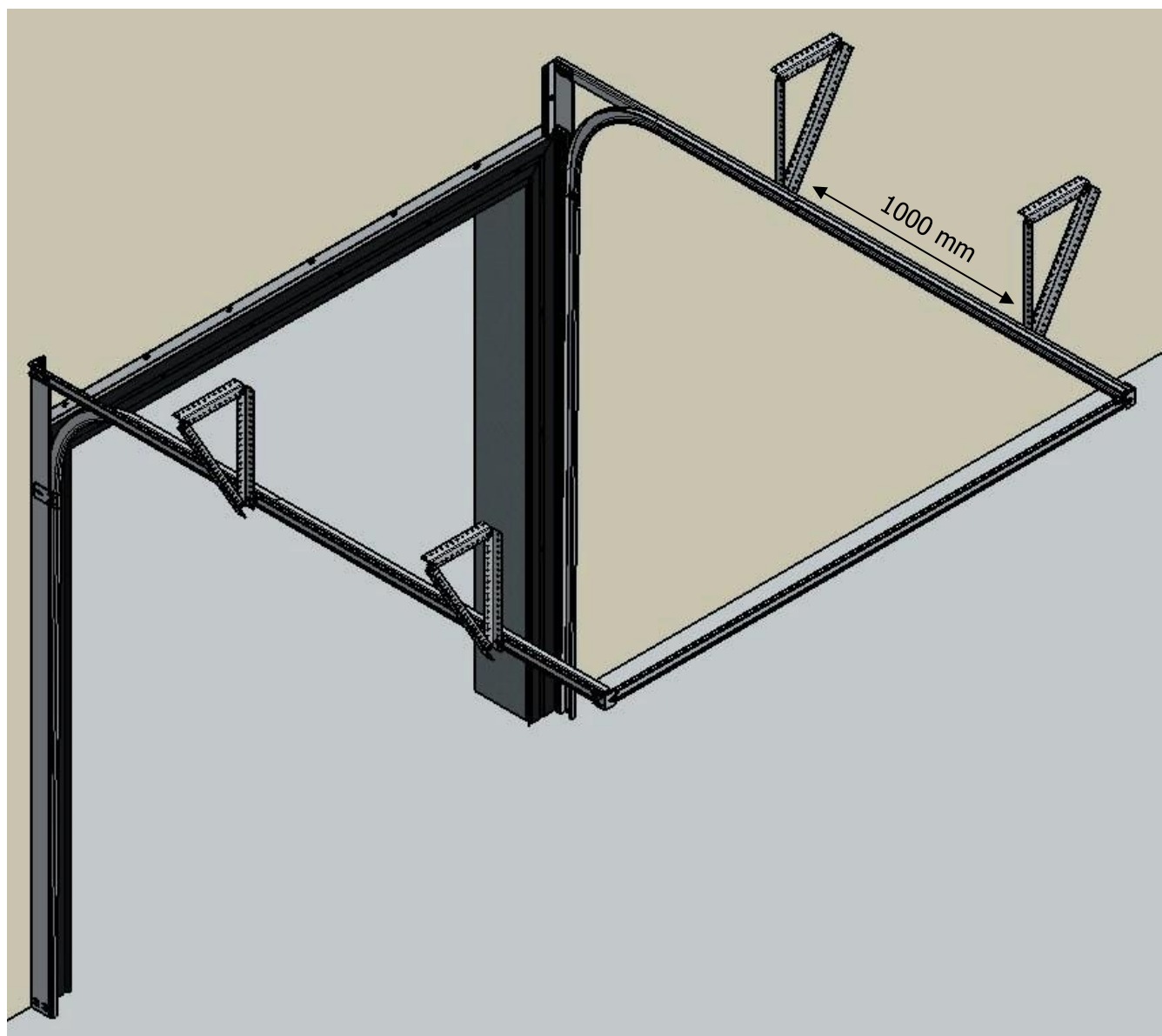


Drawing 14

SUSPENSION

The suspensions must be adapted according to the worksite and the weight of the plate.

Considering the important weight of the plate, it is advised to fasten **every meter**.

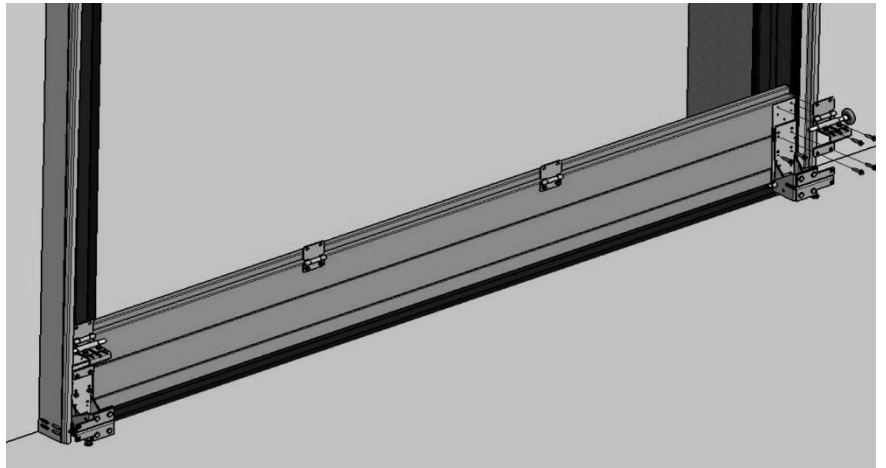


Drawing 15

PLATE

1/ During the installation of the first panel, put first 6 self-tapping screws in each safety device (ref 440F). The roller carrier is fastened on the safety device in the 2 holes of the top.

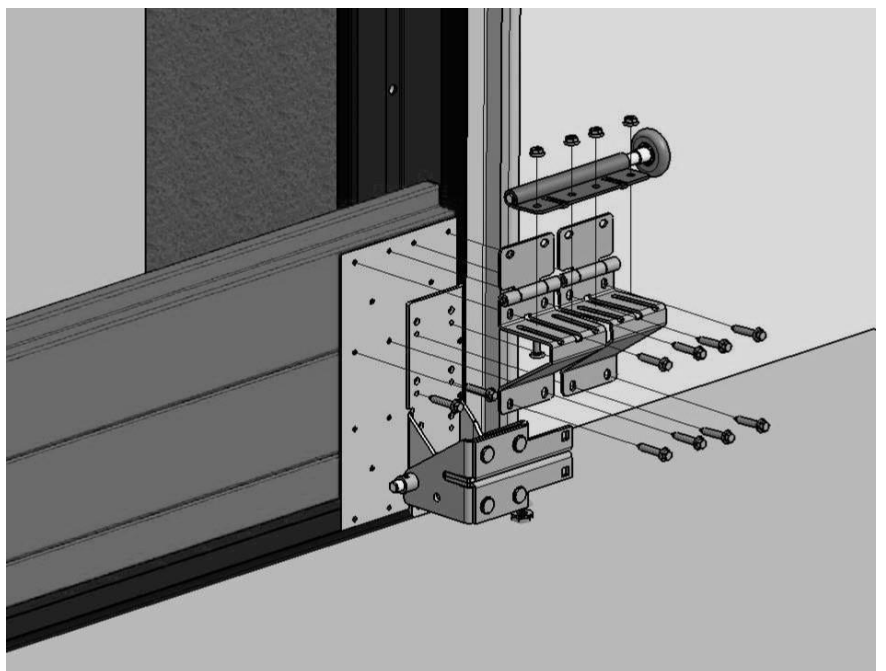
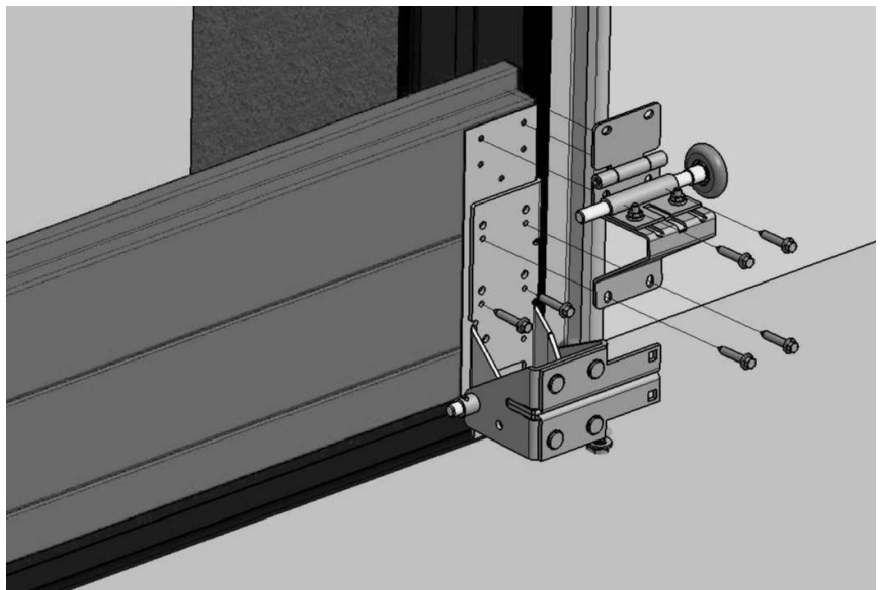
Drawing 16



→ The safety devices support all the weight of the door, take then care to put 6 fastening brackets on the safety device

When using a 3" rail, the mounting plate of the cable break device must be partially cut so that it fits with the bottom panel.

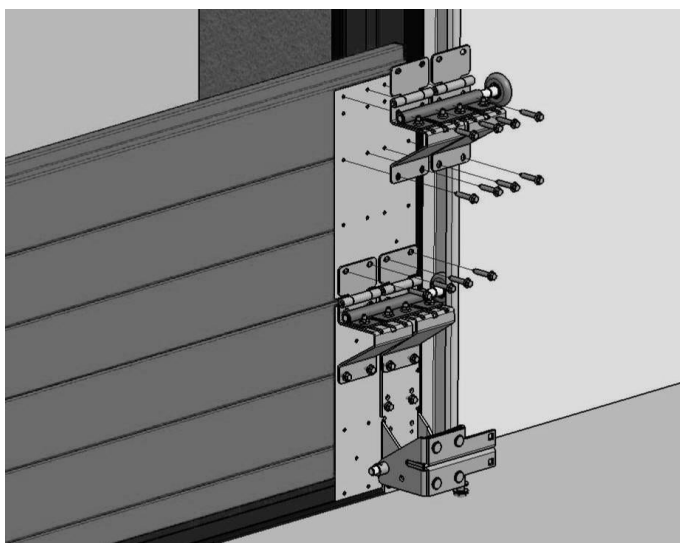
Drawing 17



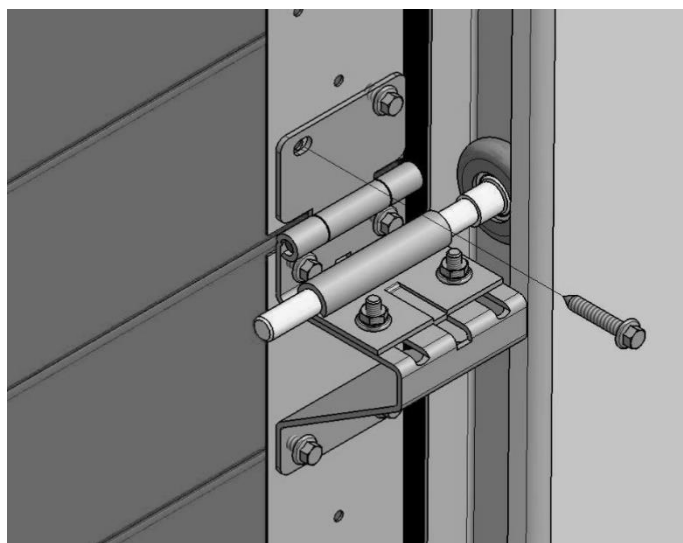
Drawing 18

NB : Panels equal to or wider than 3500 mm are equipped with double end caps and double hinges.

2/ Place the side hinges (ref 450CZ + 10).

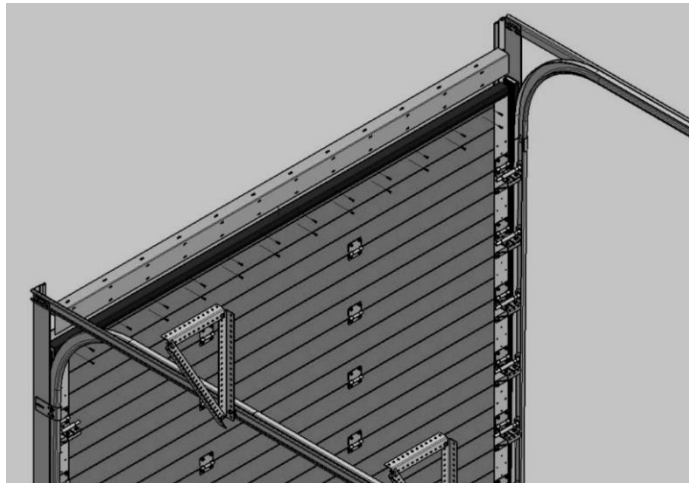


Drawing 19

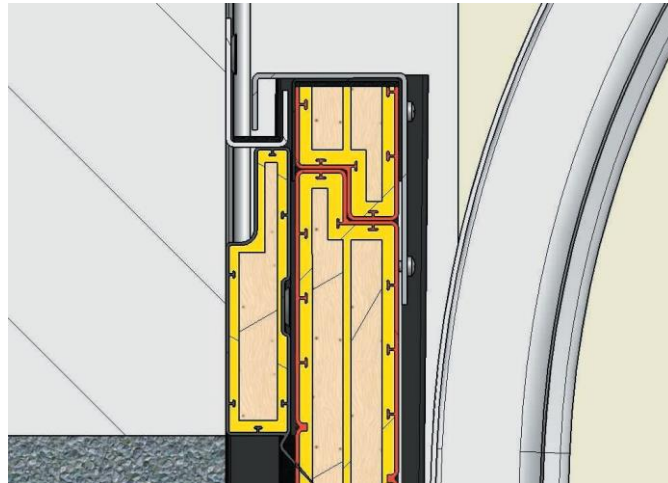


Drawing 20

3/ Placement of the horizontal angle of panel on the last panel



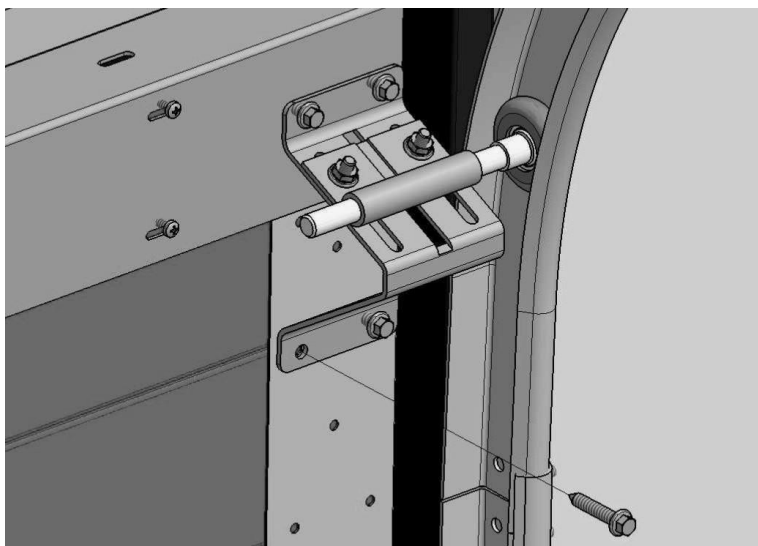
Drawing 21



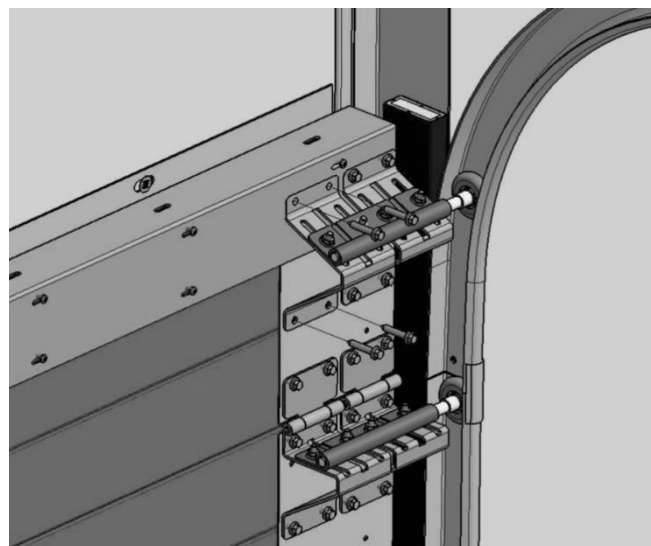
Drawing 22

Place de horizontal angle on the panel and then fix a countersunk screws on each hole.

4/ Place the roller carriers (ref 415CZ)



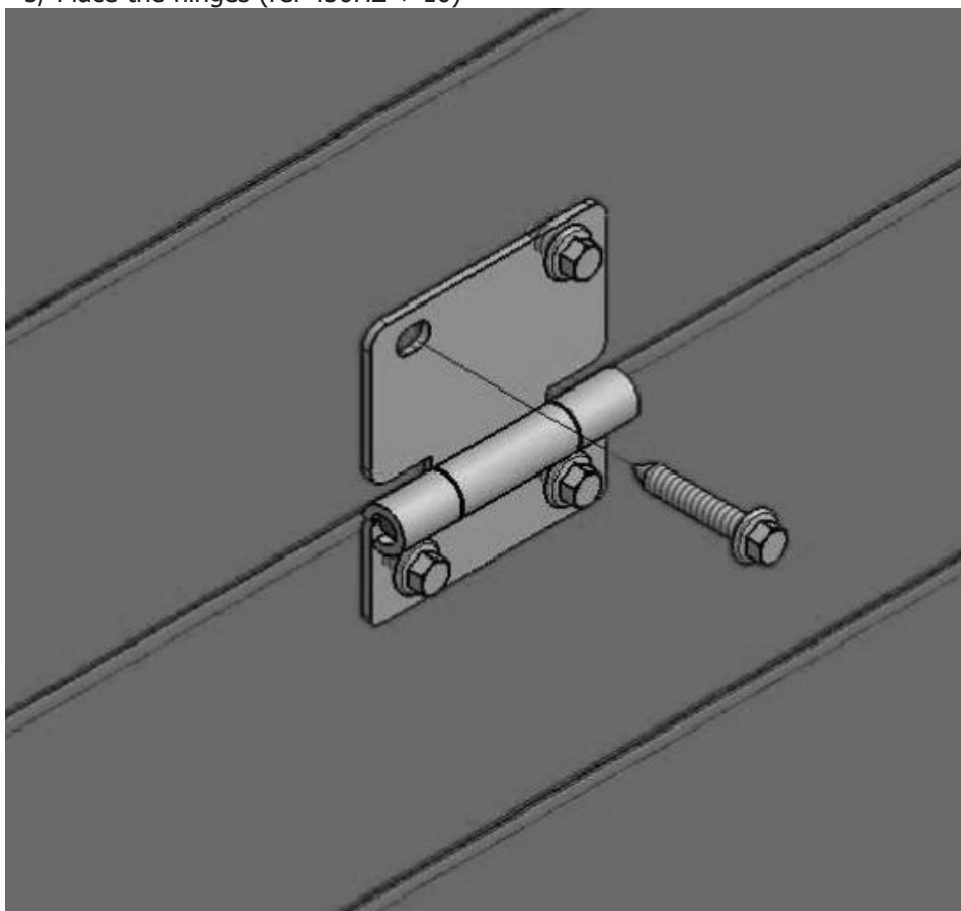
Drawing 23



Drawing 24

→ Regulate the roller carriers so that there is no more than 3mm between the frame and the panels.

5/ Place the hinges (ref 450HZ + 10)



Drawing 25

→ Use self-tapping screws of 35mm long for all the installation of the curtain (delivered).

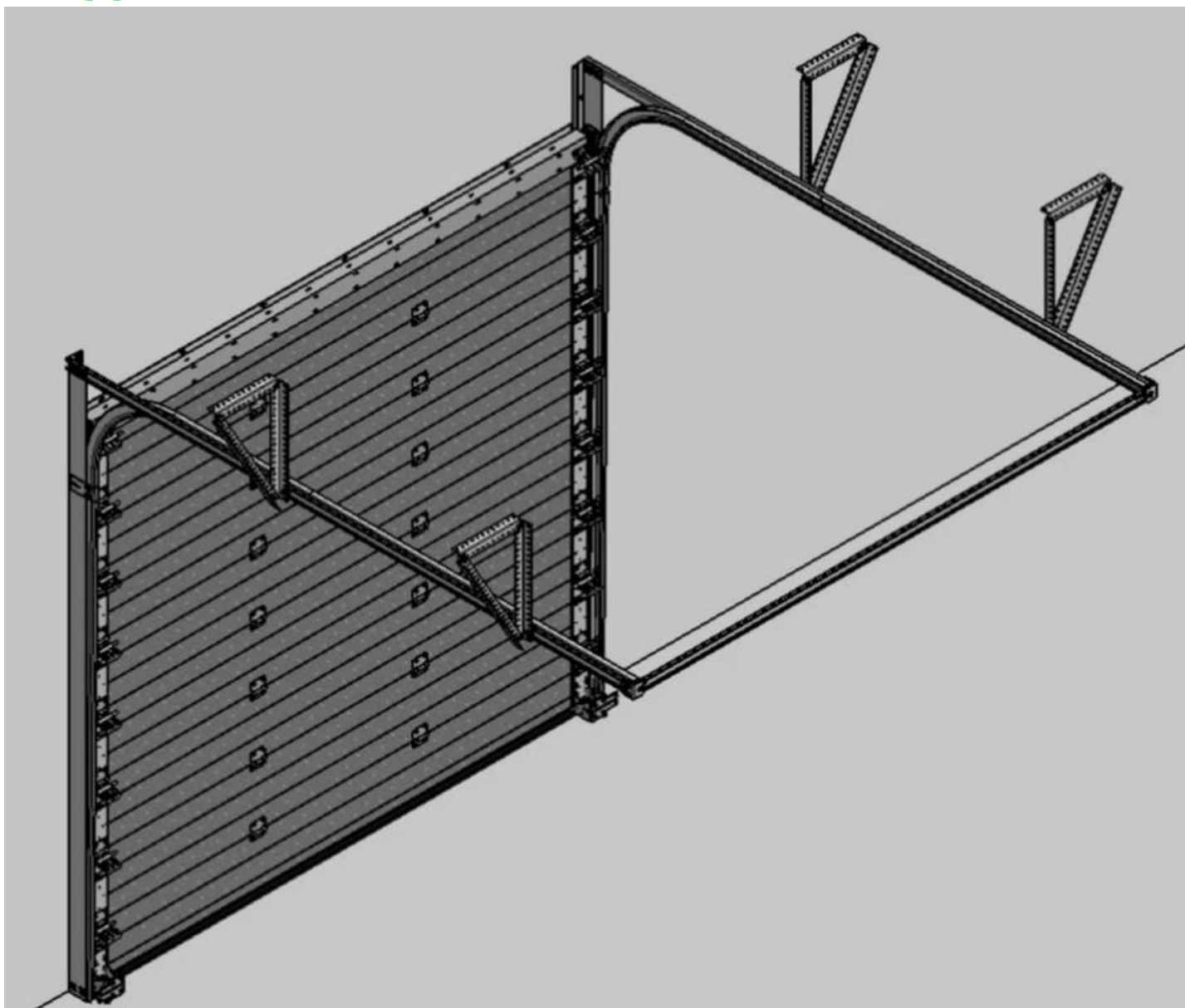
8 °

ASSEMBLY OF THE CURTAIN WITH STRUTS

Place the profile on the panel before putting it in the opening (Drawing 26)

→ In order to keep the fire properties of the door, fasten the struts with clamping plates.

RESULT



Drawing 26

B / Installation of the hydraulic system

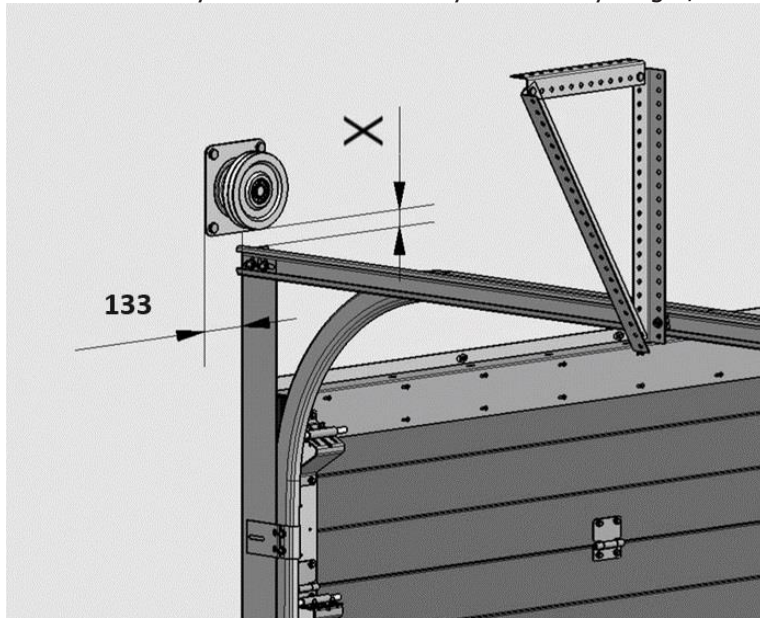
1 °

PULLEY SYSTEM

Install first the 2 pulleys as shown in the drawings 27 and 28.

Distance X= lintel necessary – 570mm.

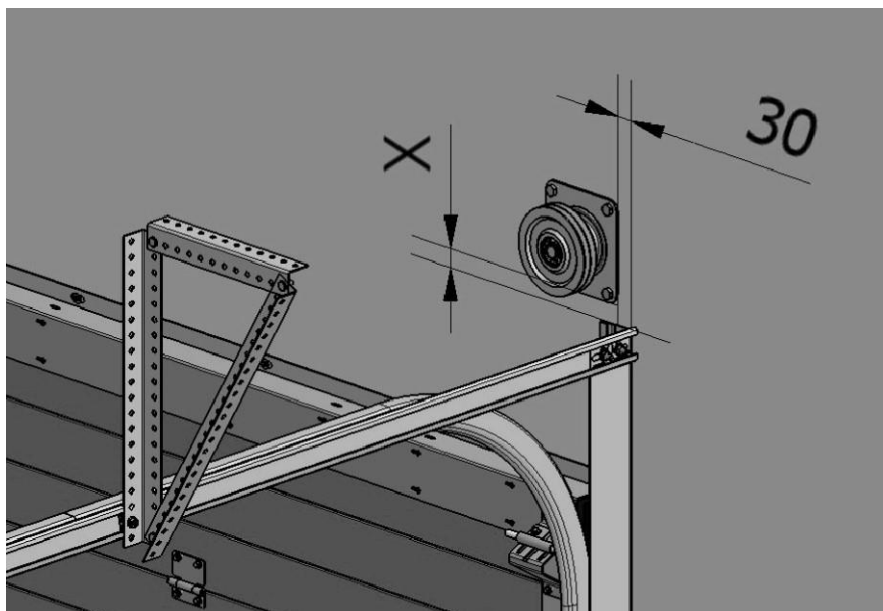
Lintel necessary = reference of the cylinder – Day height/2 + 503 with a minimum of 570mm.



Drawing 27: side motor

→ The distances 133mm and 30mm are taken between the vertical angle and the side of the pulley plate

→ The pulleys support all the weight of the door, take then care to fasten with 4 adapted fastening brackets.

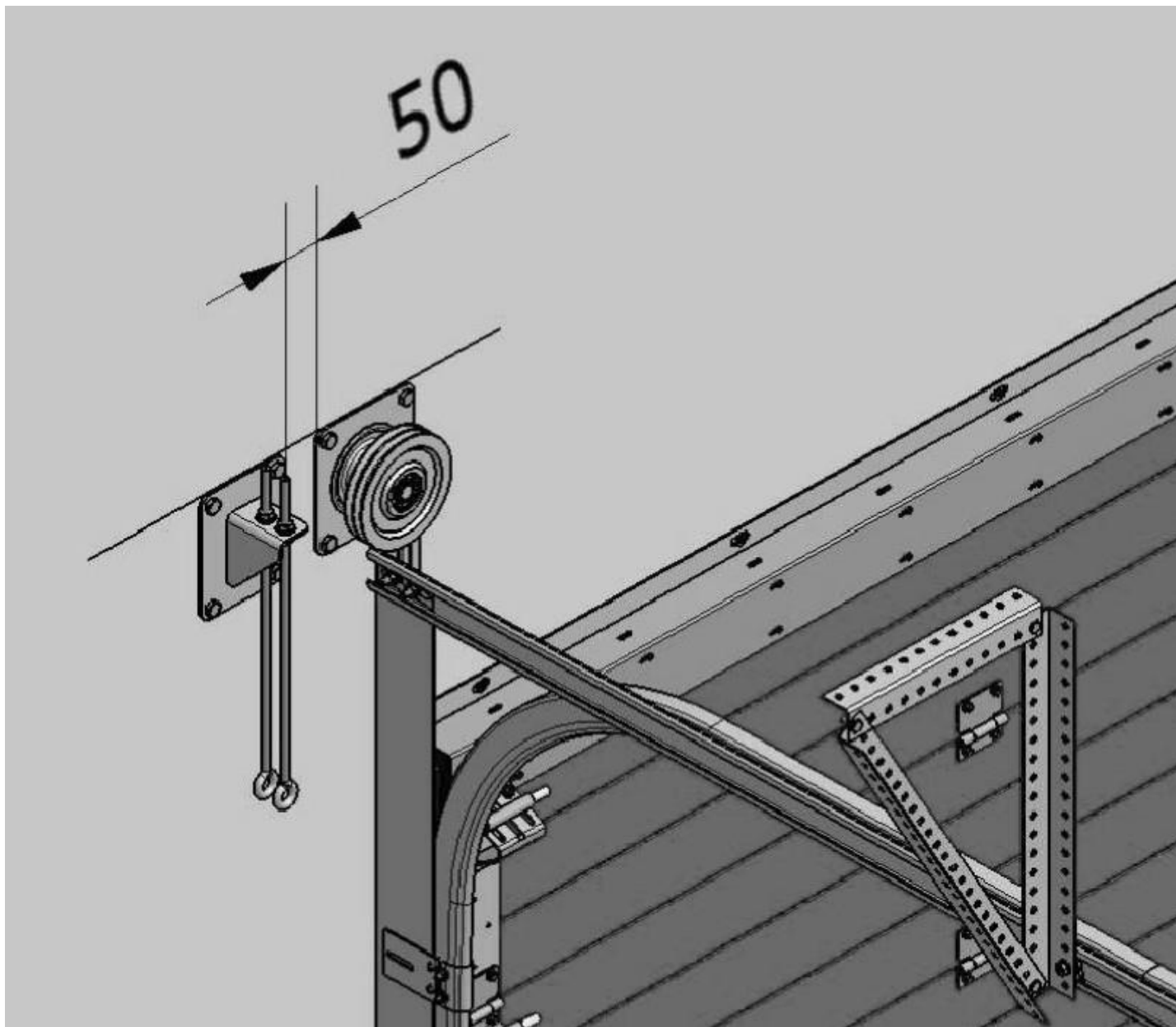


Drawing 28 : opposite side

2 °

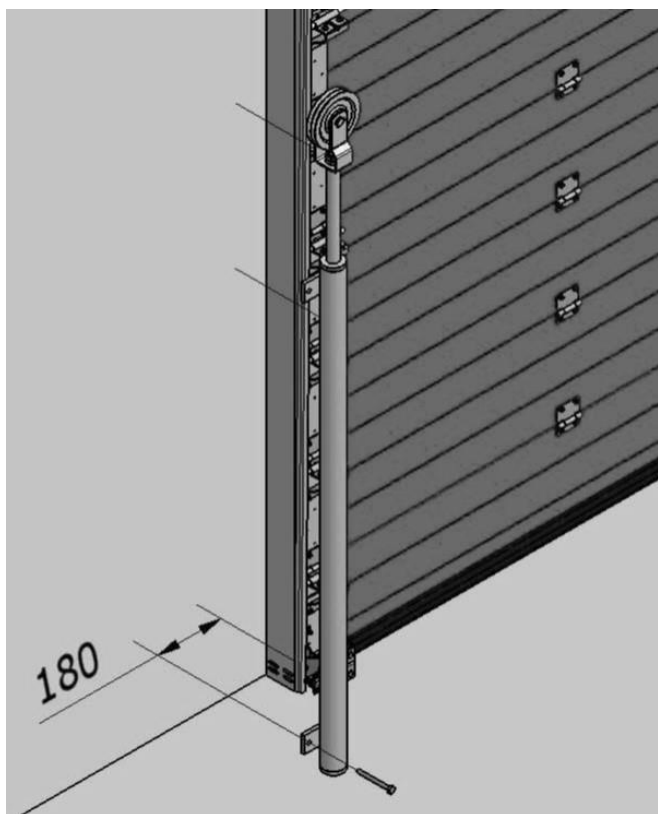
ATTACH FOR THE CABLES

Fasten the attach in the alignment of the pulley as shown in the drawing 29.



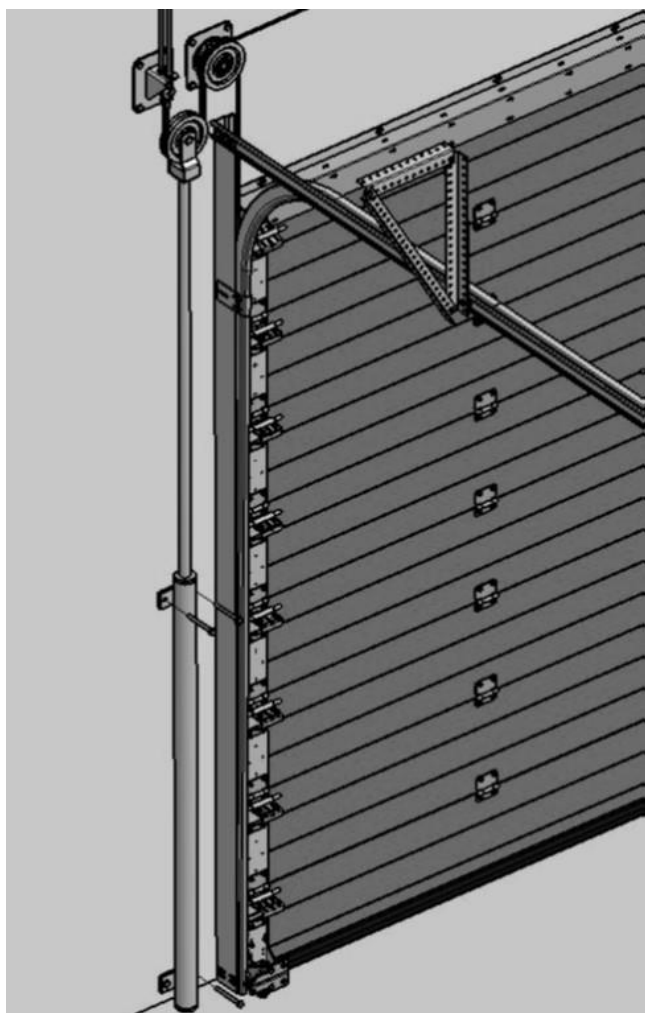
Drawing 29

INSTALLATION OF THE CYLINDER



Place the cylinder vertically against the wall by respecting the distance of 180mm as shown on drawing 30.

Drawing 30



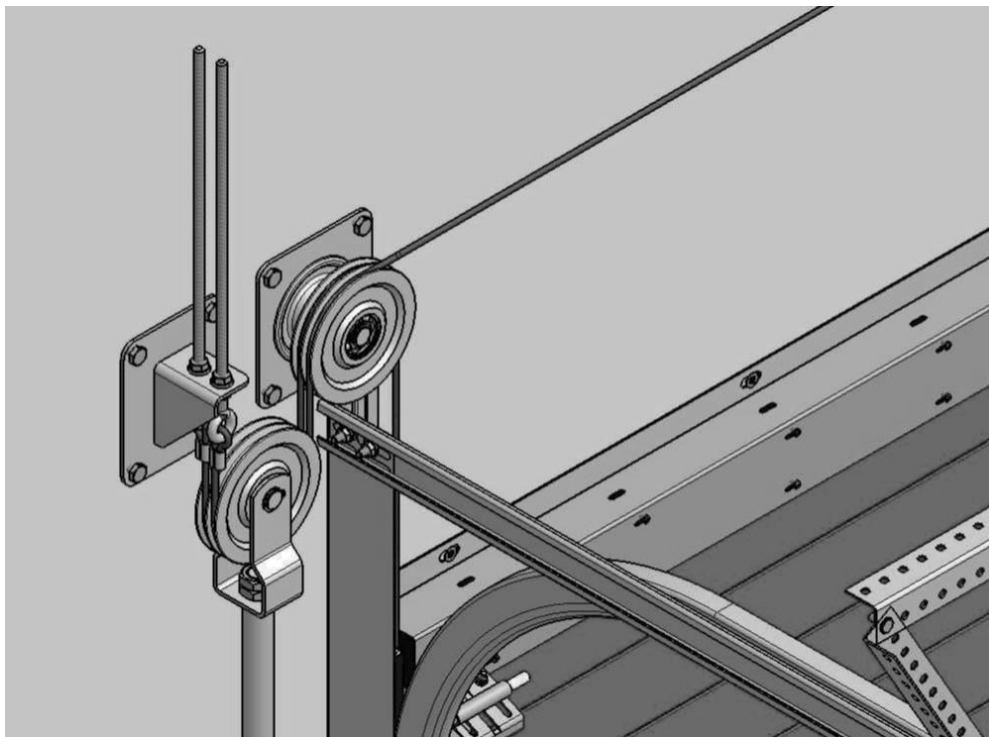
Place the 4 adapted fastenings to fix it on the wall (drawing 31)

→ Place one bottom fastening and put the system under tension to align the cylinder with the system. Then place the other fastenings.

Drawing 31

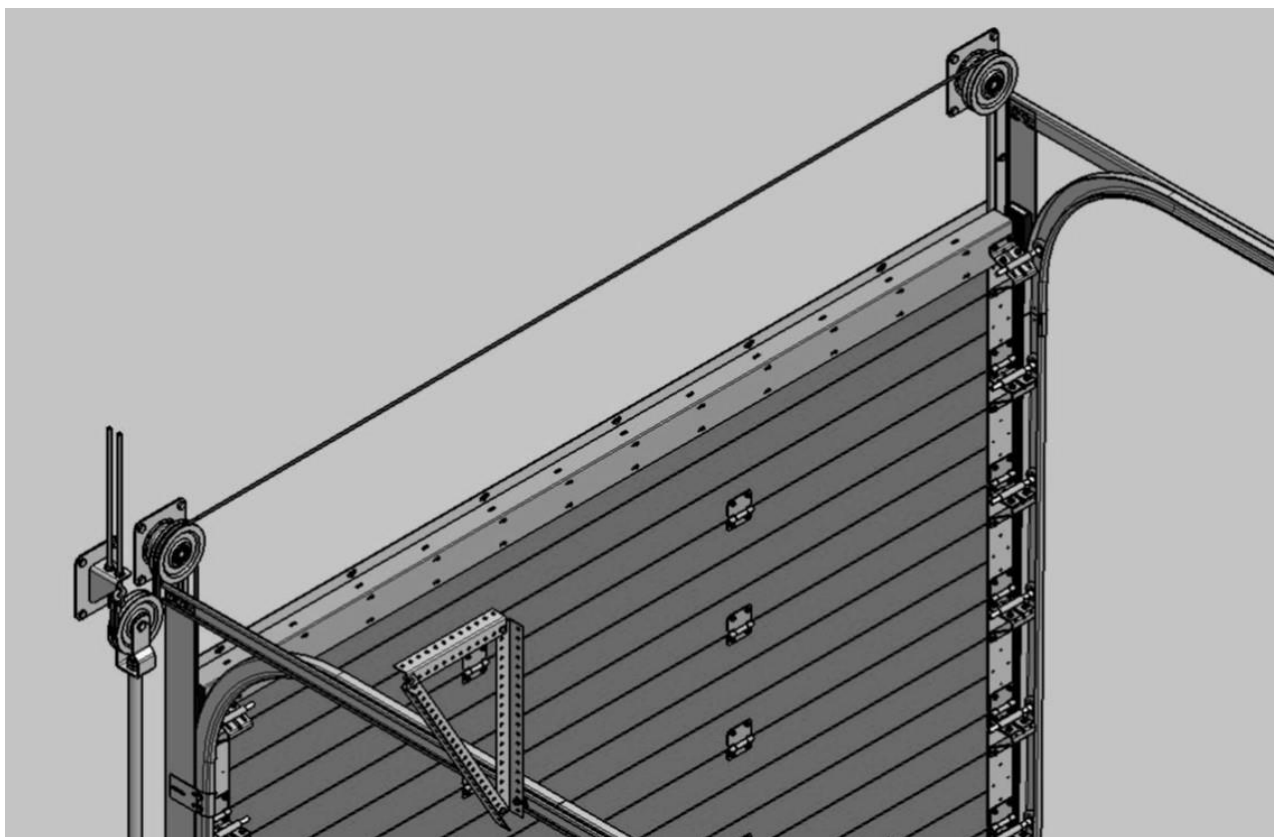
CABLES

The 3 pulleys are made up of each 2 throats, one per cable.
During the passage of each cable, use the same throats.



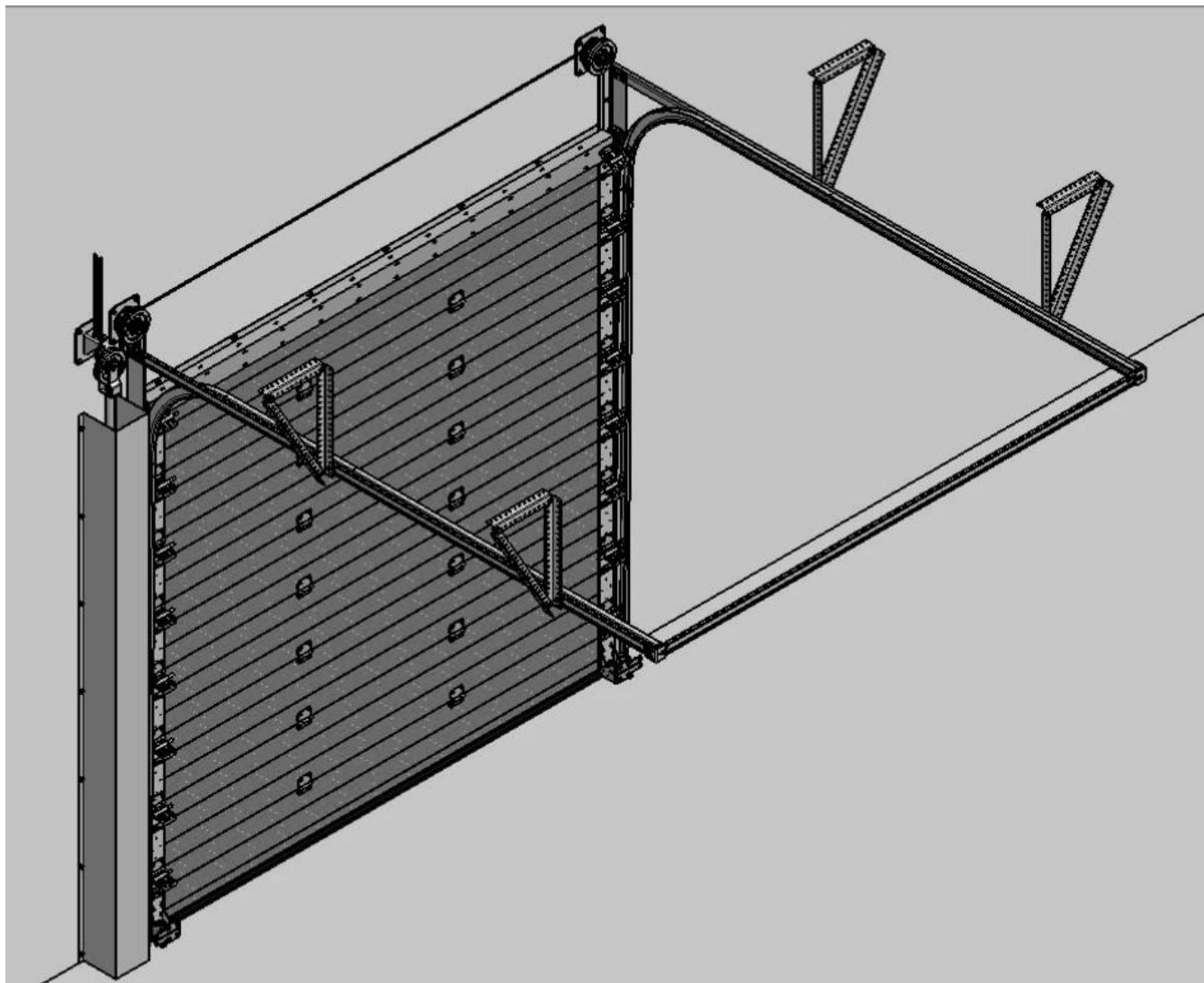
Drawing 32

→ Tighten the cables in order to have the same tension on each side.











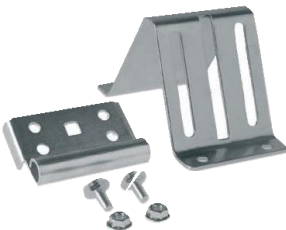





Drawing 33

RESULT



Drawing 35

| | | |
|--|---|--|
| | <p>Grey panel</p>  <p>ref 3151</p> | <p>Bottom seal</p>  <p>ref 2151</p> |
| <p>Horizontal angle of panel</p>  <p>ref 6252</p> | <p>Perlau 20mm/2mm</p>  <p>ref 7010</p> | <p>Perlau 35mm/2mm</p>  <p>ref 7012</p> |
| <p>Cable break device</p>  <p>ref 440-460</p> | <p>Cable break device 3"</p>  <p>ref 440-3"</p> | <p>Intermediate hinge</p>  <p>ref 450HZ + 10</p> |
| <p>Side hinge</p>  <p>ref 450CZ + 10</p> | <p>Roller</p>  <p>ref 571</p> | <p>Top roller carrier</p>  <p>ref 415CZ</p> |
| <p>Clip</p>  <p>ref 1046</p> | <p>End cap</p>  <p>ref 38E290F</p> | <p>Fire-proof profile of frame</p>  <p>ref 2481</p> |

Horizontal angle of lintel



ref 6201

Electrical motor MFZ



ref 4591

Safety device



ref 4550

Hydraulical motorisation kit



ref

Pulley system



ref 4701

FLEMA sprl

rue Outre 46
7910 Anvaing
Belgium

T : +32(0)69/67.27.87

F : +32(0)69/67.27.80

VAT : BE 865.121.323

BNP Banque: 001 444 613 724

IBAN : BE81 0014 4461 3724

