



INSTALLATION MANUAL OF SINGLE LEAF SLIDING GATES TYPE  
DFM SG 60-1, SG 90-1

fire resistant range EI<sub>1</sub>60, EI<sub>2</sub>60, EI<sub>1</sub>90, EI<sub>2</sub>90

v. EN SL 1.9.2021

Our business model shall guarantee:

FACILITY – comfortable and customised solutions aimed at Customers' needs

TRANSPARENCY- clear business relations

BUSINESS EXPERTISE – a team of passionate professionals with “out of box ” attitude

# 1 IDENTIFICATION, HANDOVER, NOMENCLATURE AND LIST OF PARTS



During installation, usage and repair works prescriptions of safety on site must be observed, specifically those referring to particular regulations for construction and joinery works.  
Installation must be carried out by qualified installers, trained for installation of fire gates.  
Parts and components of doors shall not be modified or replaced.

During handover of goods from transport company check packaging and quantity of doors, gates and cartons. In case of any claim a note CMR must be made and photos taken and sent to: dfm@dfm-europe.eu

## 1.1 ALL INFORMATION WHAT YOU CAN FIND ON THE DOCUMENTS AND LABELS

### ORDER

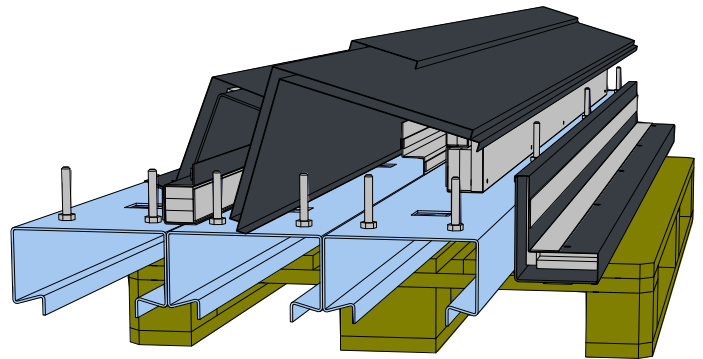
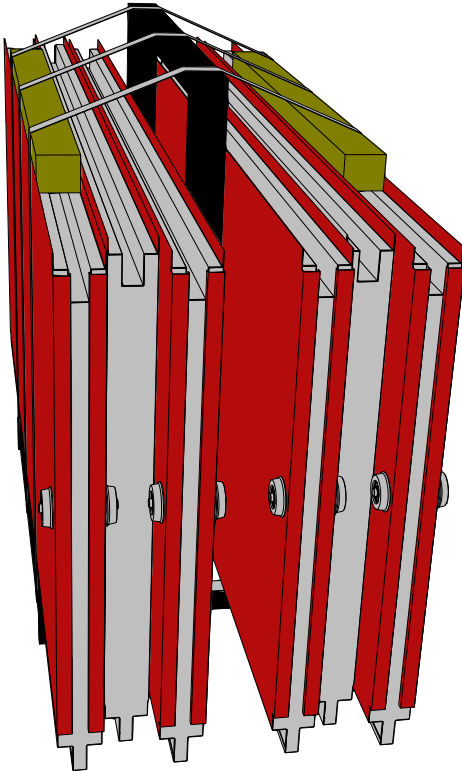
PROJECT NAME: „SOHO  
X.199808”  
PROJECT GATE NUMBER:  
„74”

### PACKING LIST

PROJECT NAME: „SOHO  
X.199808”  
PROJECT GATE NUMBER: „174”  
INDIVIDUAL PRODUCTION  
GATE NUMBER: 1087/2020/026

### LABEL ON THE CARTON WITH EQUIPMENT

PROJECT NAME: „SOHO X.199808”  
INDIVIDUAL PRODUCTION GATE  
NUMBER: 1087/2020/026  
QUANTITY AND NUMBER OF CARTON:  
1/3



### CMR

INDIVIDUAL PRODUCTION GATE  
NUMBER:  
1087/2020  
1345/2020  
1589/2020

ADDITIONAL INFORMATION ON PALLET SIDE :  
NUMBER OF CMR: „573”  
DELIVERY ADRES: "LUXEMBOURG"

### LABEL ON THE GATE

PROJECT NAME: „SOHO X.199808”  
PROJECT GATE NUMBER: „74”  
INDIVIDUAL PRODUCTION GATE  
NUMBER: 1660/2020/021

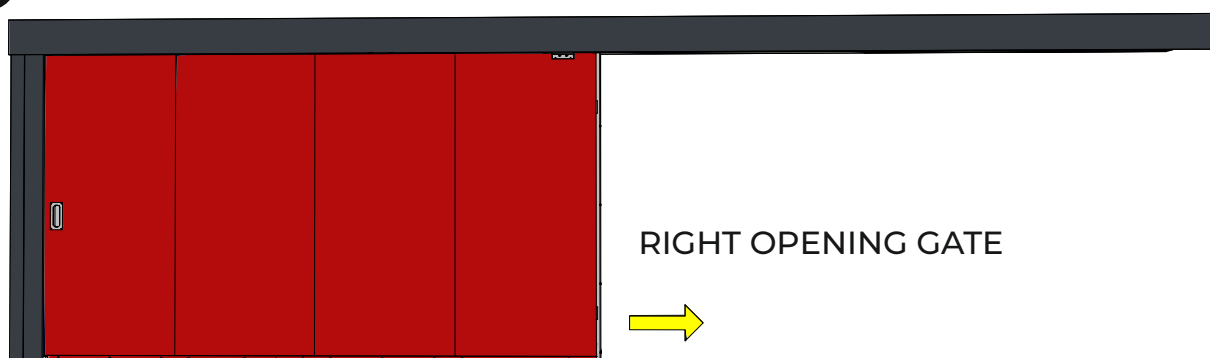
## 1.2 EXAMPLE OF LABEL

DFM SG		DFM DOORS
Nr zlecenia / Production Nr.		
<b>02819-EU-2020</b>		
PACZKI / EQUIPMENT	<b>2/3</b>	
Oznaczenie projektowe / Project Name		
Data Produkcji / Prod Date :	2020-11-03	

Order might be divided into a few production parts. It depends on mix of product types and their parameters, for ex. colour, fire resistance etc. Each production part of order has separate number: **Production nr.** Equipment packed and marked separately, according to particular **Production nr.**

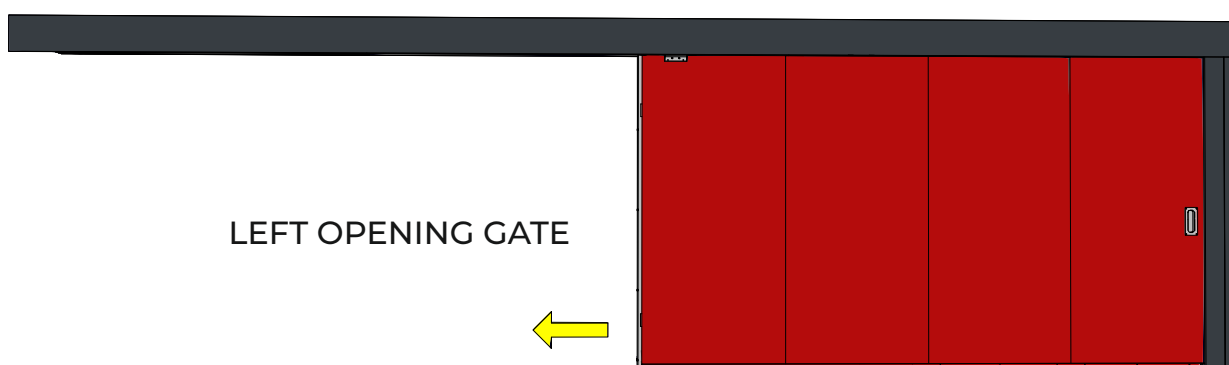
Label on each box with equipment is shows amount of boxes and number of particular box. For ex. 2/3 means second box of three boxes for number of particular box.

## 1.3 NOMENCLATURE

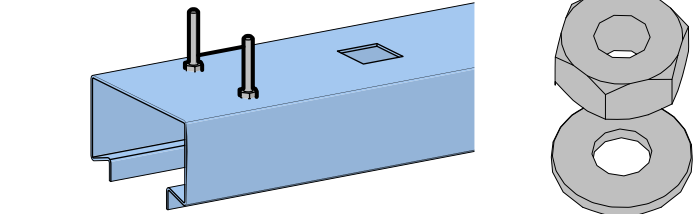
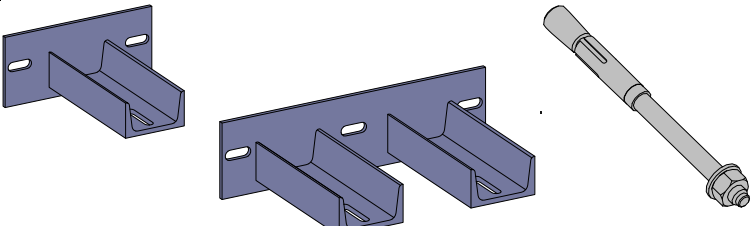
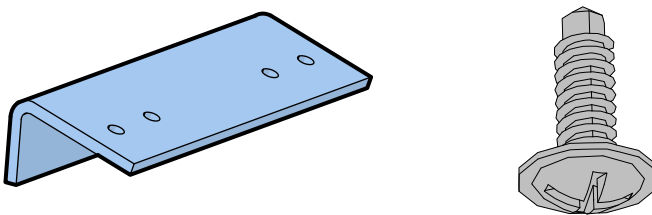
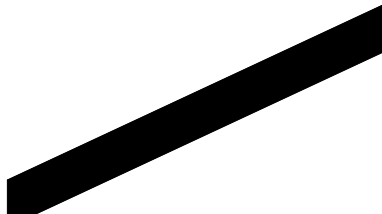
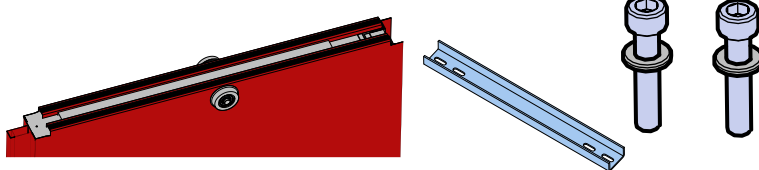
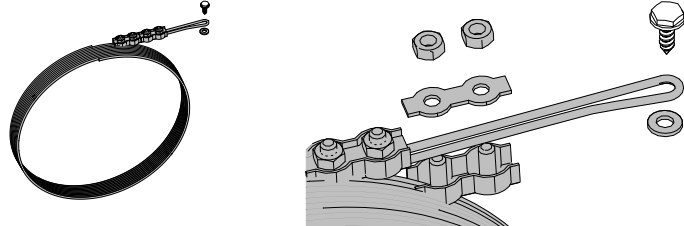
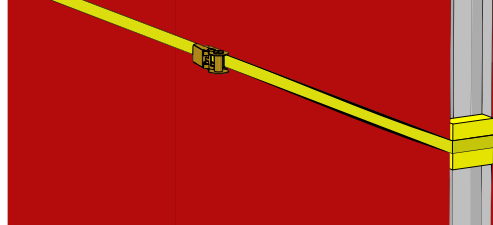


e.g: DFM SG 90-2  
DFM SG 60-1

SG = sliding gate, 90 = EI<sub>90</sub> and EI<sub>290</sub>, 2 = double leaf  
SG = sliding gate, 60 = EI<sub>60</sub> and EI<sub>260</sub>, 1 = single leaf

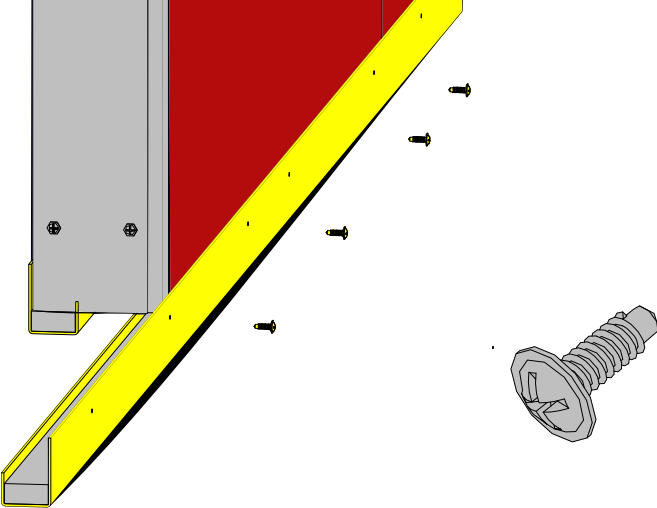
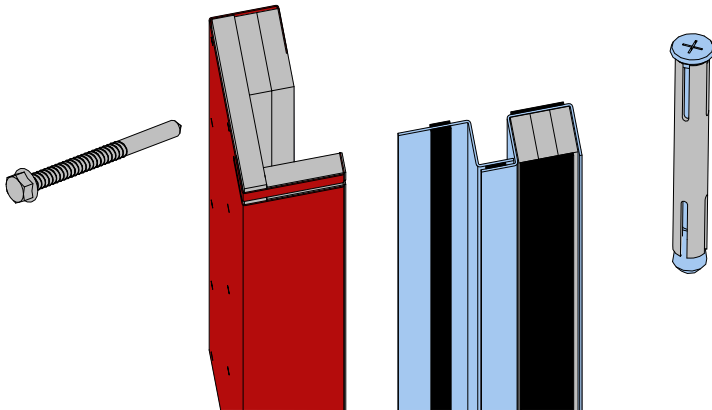
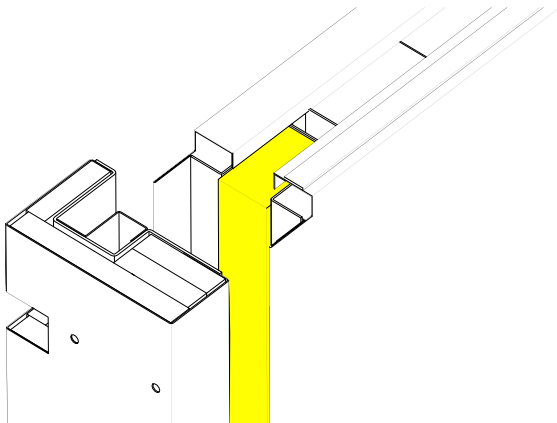
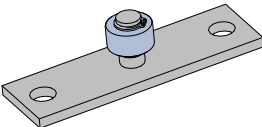


**1.4** LIST OF PARTS. AMOUNTS OF ELEMENTS DEPENDS ON TYPE AND DIMENTIONS OF GATE.

IMAGE	DESCRIPTION
	<p>RUN RAILS. TWO TYPES. CONSTANT LENGHT 3000MM AND RESULTING LENGTH, DEPENDS ON WITDH OF GATE.</p> <p>NUTS M10 AND WASHERS FOR FIXING BRACKETS ON THE RAILS</p>
	<p>RAIL BRACKETS. SUNGLE FOR SIDES OF RAIL. AND DOUBLE BRACKETS AT CONNECTION OF RAILS</p> <p>STEEL ANCHOR M10 x 105. USE TO FIX BRACKETS TO WALL.</p>
	<p>RAIL CONNECTOR. SELF DRILLING SCREWS <math>\varnothing 4,2 \times 13</math>.</p>
	<p>INTUMESCENT STRIP 15 x 2 MM INSIDE RAIL, ONLY IN THE AREA OF WALL OPENING. DELIVERED ON ROLL.</p>
	<p>PANELS. UPPER CONNECTOR FOR PANELS. WASHERS AND SCREWS M6x30 DIN912</p>
	<p>STEEL CORD. SELF TAPPING SCREW <math>\varnothing 6,3</math>. SCREWS AND NUTS FOR ENDING THE ROPE.</p>
	<p>WOODEN BLOCK INCLUDED IN DELIVERY. TOGETHER WITH PANELS AS A SPACER IN AIM TO SECURE PANEL.</p> <p>BELTS ARE NOT INCLUDE IN DELIVERY</p>

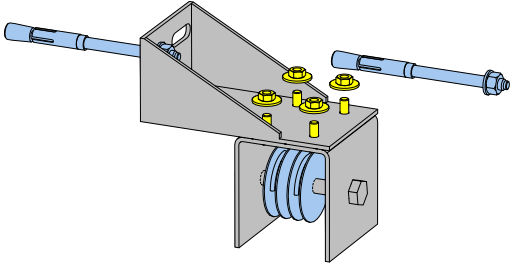
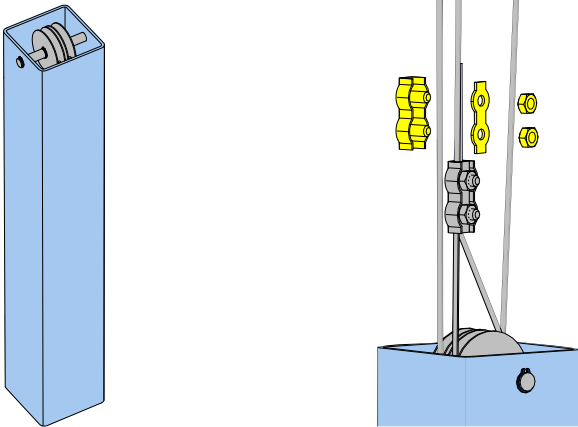
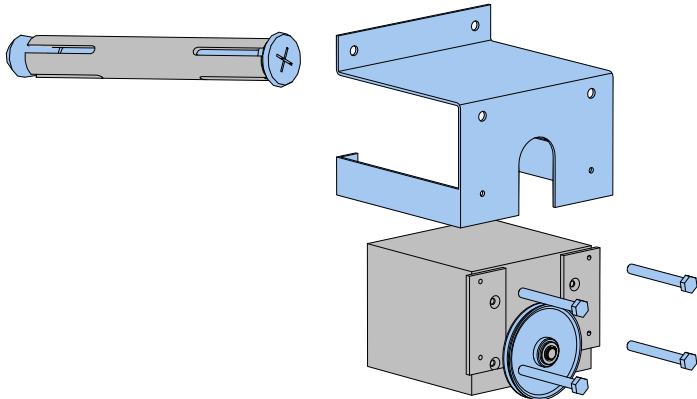
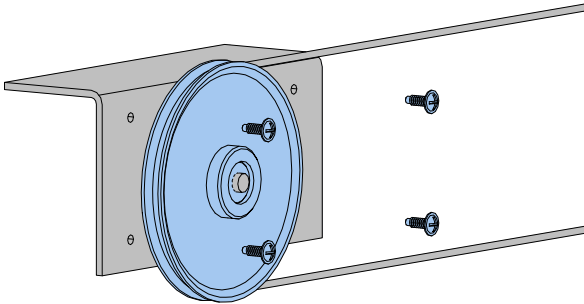
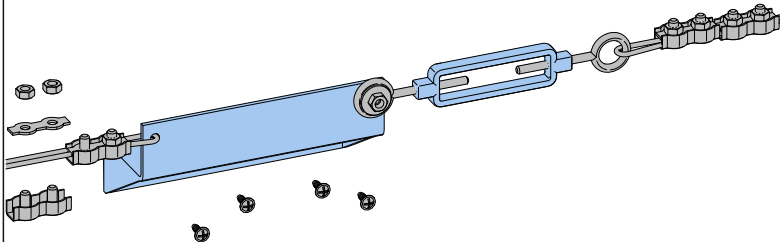


**1.4a** C.D. LIST OF PARTS. AMOUNTS OF ELEMENTS DEPENDS ON TYPE AND DIMENTIONS OF THE GATE.

IMAGE	DESCRIPTION
	<p>BOTTOM PROFILE CONNECTORS FOR JOINING PANELS . SELF DRILLING SCREWS <math>\varnothing 4.2 \times 13</math></p>
	<p>LEAF LABIRYNTH ELEMENTS (MARKED RED) AND WALL LABIRYNTH ELEMENTS (MARKED BLUE) FOR BOTH SIDES OF THE GATE</p> <p>SELFDRILLING SCREW <math>\varnothing 6.3 \times 75</math> FOR MOUNTING LEAF FIRE TIGHT ELEMENTS AT THE REAR OF GATE LEAVES</p> <p><math>\varnothing 10 \times 112</math> ANCHORS FOR FIXING REAR WALL FIRE TIGHT ELEMENTS</p>
	<p>MINERAL WOOL (MARKED YELLOW) FOR TIGHTENING CONNECTION BETWEEN PANEL AND LEAG GATE REAR ELEMENT</p>
	<p>FLOOR ROLL. ONE PIECE FOR EACH GATE LEAF</p>

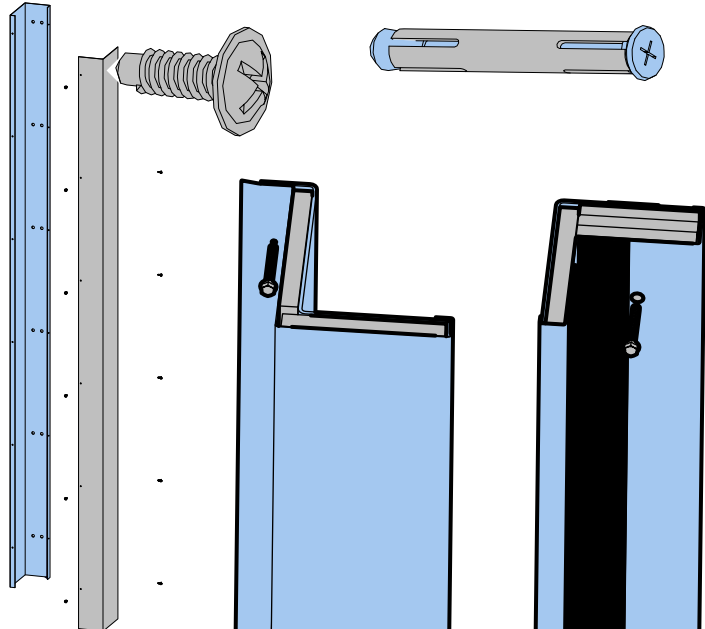
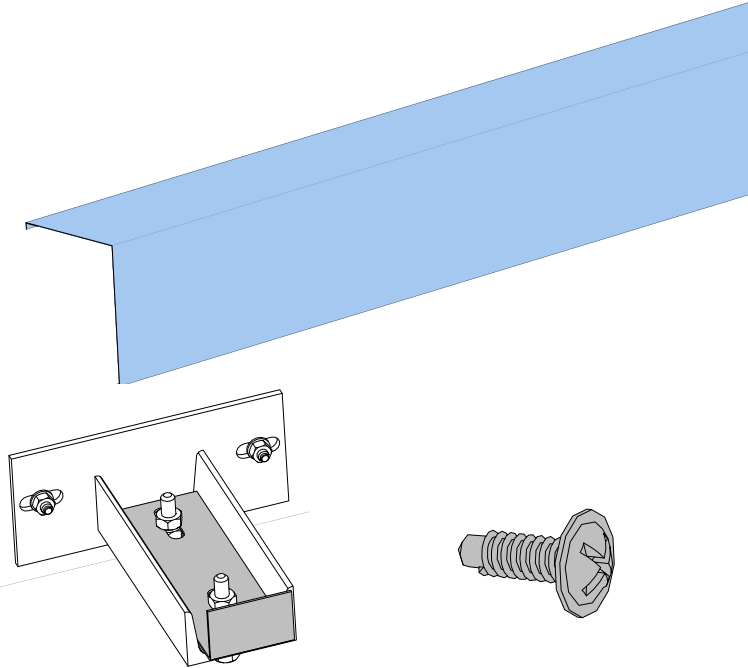
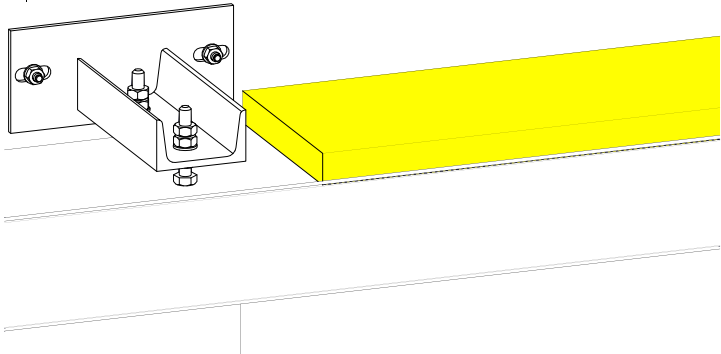
**1.4b**

**C.D. LIST OF PARTS. AMOUNTS OF ELEMENTS DEPENDS ON TYPE AND DIMENTIONS OF THE GATE.**

IMAGE	DESCRIPTION
	<p>ROLLER BRACKETS FOR COUNTERWEIGHTS. ONE PIECE FOR EACH GATE LEAF.</p> <p>STEEL ANCHOR M10 x 105.</p>
	<p>COUNTERWEIGHTS. ONE PIECE FOR EACH GATE LEAF. JOINING SCREW ELEMENTS FOR FIXING STEEL ROPE.</p>
	<p>ERPZ - SPEED GATE LEAF CONTROLLER WITH INTEGRATED ELECTRO MAGNET</p> <p>WALL BRACKET FOR ERPZ</p> <p>Ø10 X 112 ANCHORS</p>
	<p>OPPOSITE ROLLER FOR ERPZ. STEEL CORD. SELF TAPPING SCREWS Ø4,2x13 OR STEEL RIVETS Ø4.</p>
	<p>BRACKETS FOR COUNTERWEIGHTS. ONE PIECE FOR EACH GATE LEAF.</p>

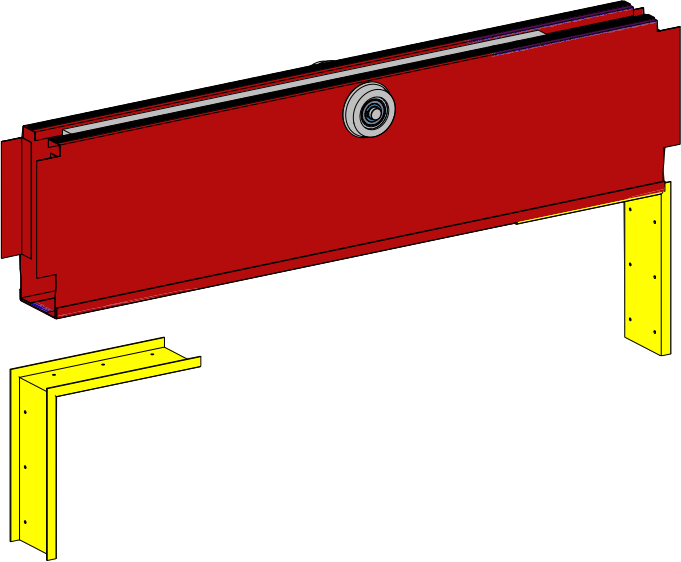
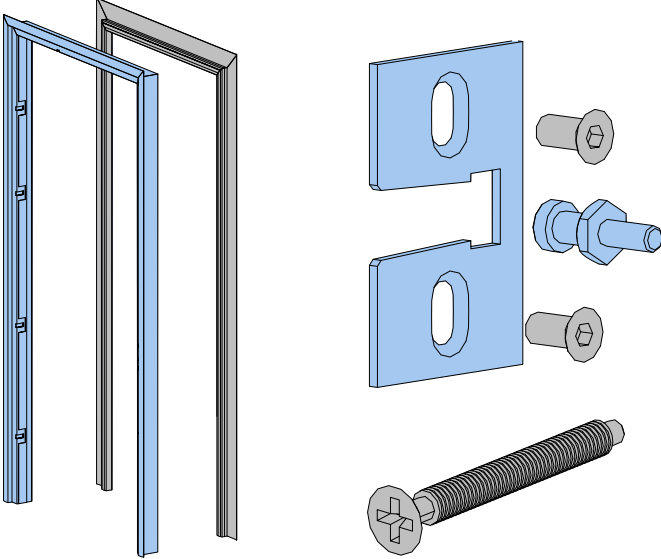
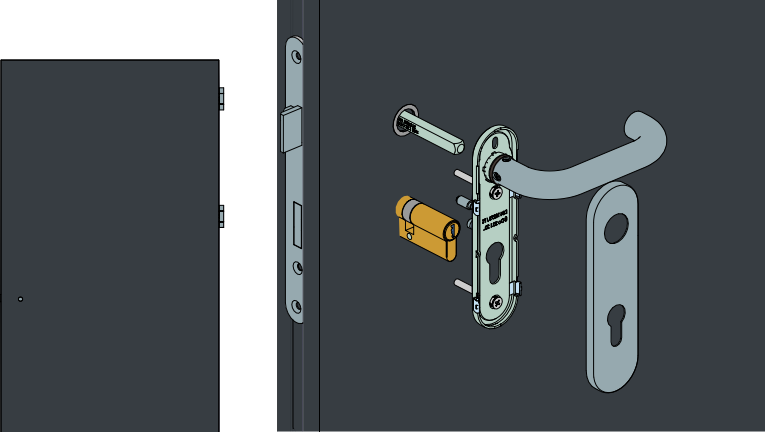
**1.4c**

**C.D. LIST OF PARTS. AMOUNTS OF ELEMENTS DEPENDS ON TYPE AND DIMENTIONS OF THE GATE.**

IMAGE	DESCRIPTION
	<p>L , Z FORM FIRE TIGHT ELEMENTS AND COVER FOR COUNTERWEIGHT.</p> <p>ANCORS <math>\varnothing 10 \times 112</math>, <math>\varnothing 6</math> AND SELF DRILLING SCREWS <math>\varnothing 4,2 \times 13</math> (OR STEEL RIVETS <math>\varnothing 4</math>).</p>
	<p>RAIL COVER AND BRACKETS.</p> <p>WASHERS AND NUTS M10 2 FOR FIXING BRACKETS AND 2 PIECES SCREW <math>\varnothing 4,2 \times 13</math> (OR <math>\varnothing 4</math> STEEL RIVETS) PER EACH BRACKET</p>
	<p>MINERAL WOOL ABOVE RAIL. ONLY OVER WALL OPENING</p>

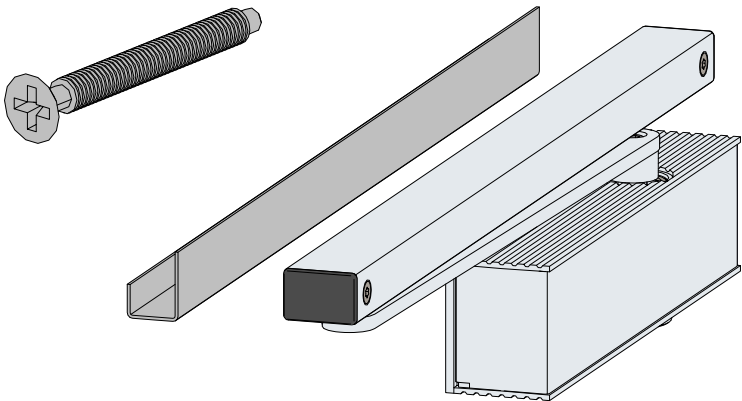
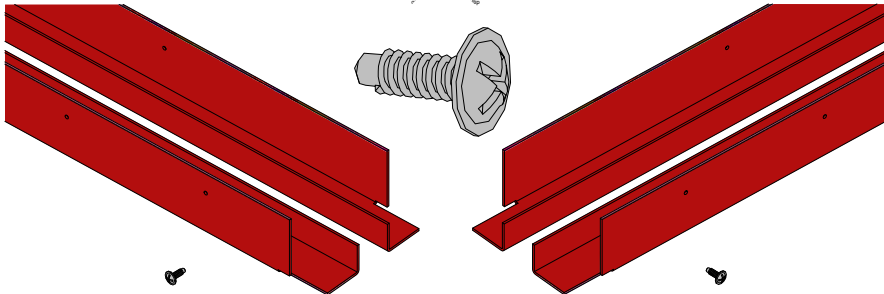
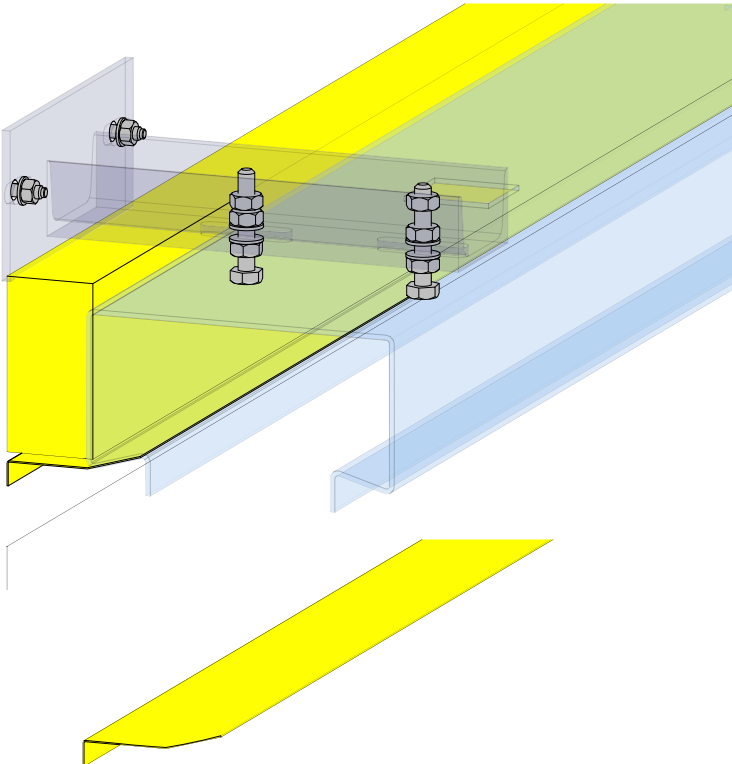
1.4d

C.D. LIST OF PARTS IN CASE WICKET DOOR IN THE GATE LEAF. AMOUNTS OF ELEMENTS DEPENDS ON TYPE AND DIMENTIONS OF THE GATE.

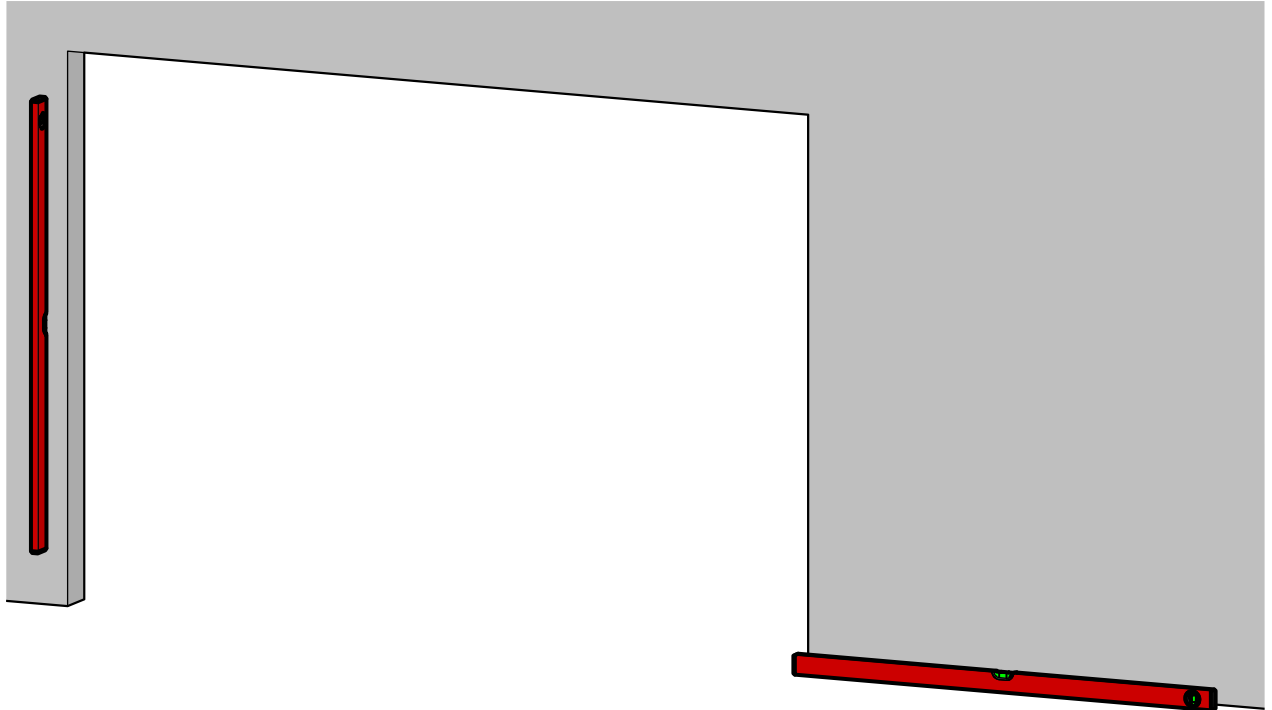
IMAGE	DESCRIPTION
	<p>SHORT PANEL, CORNER REINFORCEMENT CONNECTORS. STEEL RIVETS <math>\varnothing 4</math>.</p>
	<p>DOUBLE-ELEMENT DOOR FRAME WITH STRIKE PLATES.</p> <p>SAFETY PINS.</p> <p>SELF TAPPING SCREWS <math>\varnothing 6,3 \times 60</math> FOR MOUNTING DOOR FRAME.</p>
	<p>DOOR LEAF WITH HINGES. STAINLESS STEEL HANDLE. CYLINDER.</p>

1.4d

C.D. LIST OF PARTS IN CASE WICKET DOOR IN THE GATE LEAF. AMOUNTS OF ELEMENTS DEPENDS ON TYPE AND DIMENTIONS OF THE GATE.

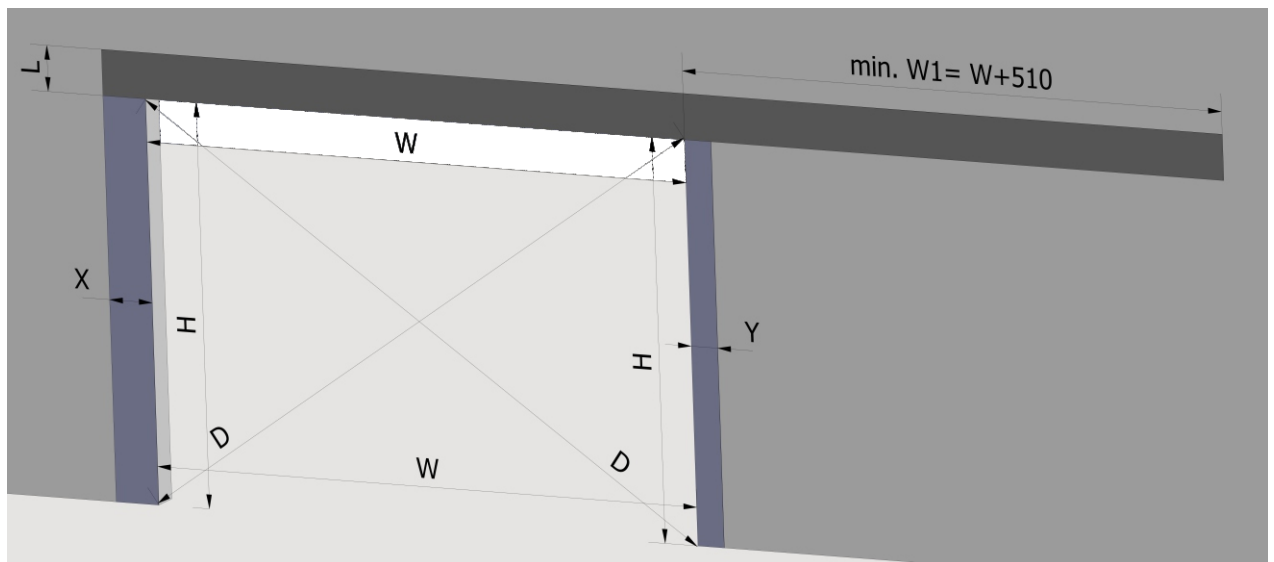
IMAGE	DESCRIPTION
	<p>DOOR CLOSER AND SPACER L=460MM.</p> <p>SELF DRILLING SCREW <math>\varnothing 6,3 \times 60</math></p>
	<p>BOTTOM PROFILE CONNECTORS ARE DIFFERENT THAN FOR GATE WITHOUT EVACUATION DOOR.</p> <p>SELF DRILLING SCREWS <math>\varnothing 4,2 \times 13</math> (OR STEEL RIVETS <math>\varnothing 4</math>).</p>
	<p>ROCKWOLL FOR FILLING GAP BETWEEN WALL AND RAIL PROFILE</p> <p>PAINTED BOTTOM COVER</p>

## 2 CHECK THE WALL OPENING



THE LEVEL OF SLIDING RAIL SHOULD BE ROUTED WITH REFERENCE TO FINAL FLOOR LEVEL. IN CASE OF UNEVEN FLOOR THE SLIDING RAIL SHALL BE LIFTED.

### 2.1 SINGLE-LEAF SLIDING GATE. MINIMAL FREE SPACE FOR MOVING LEAF



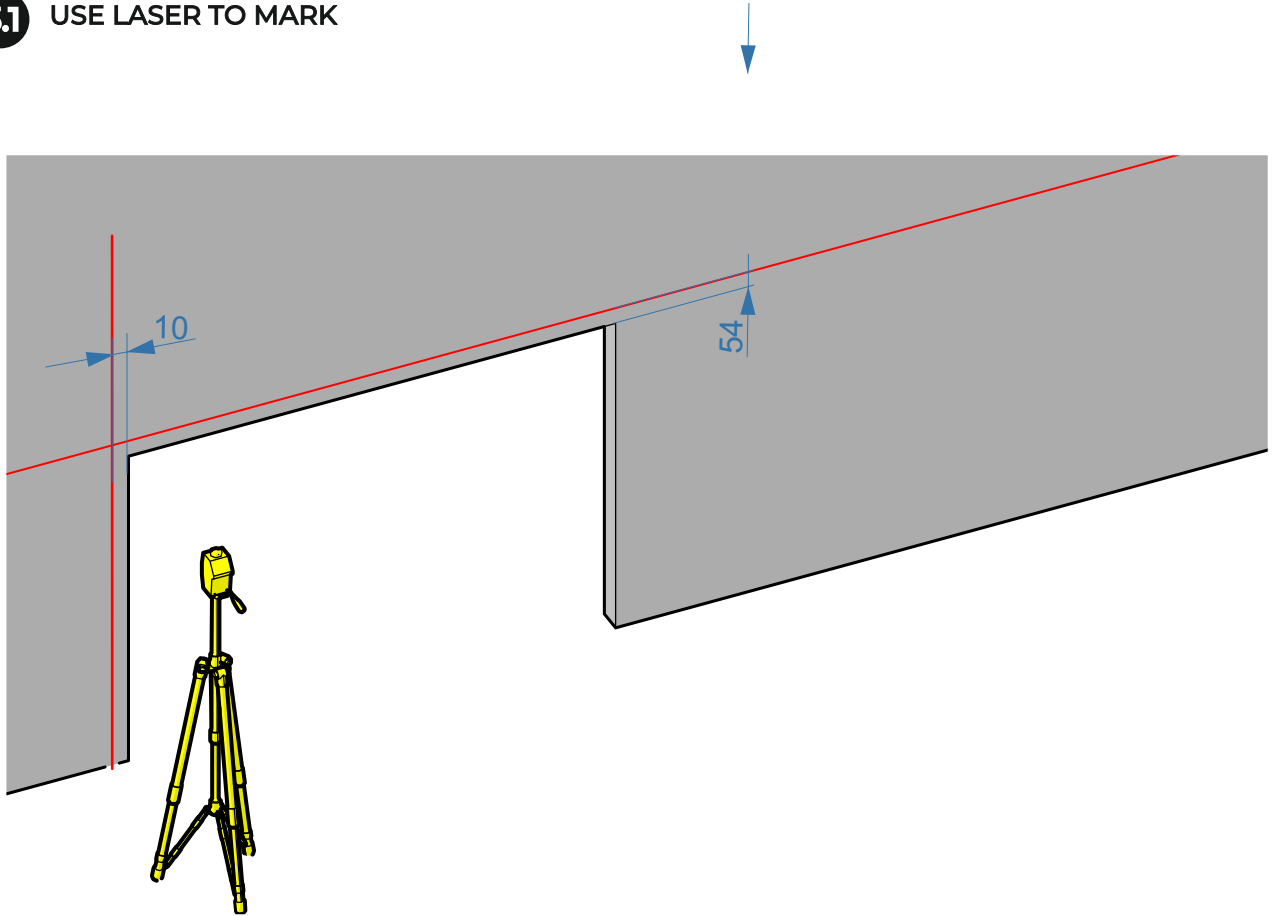
W - WIDTH OF CLEAR STRUCTURAL OPENING  
H - HEIGHT OF CLEAR STRUCTURAL OPENING  
D - CHECK DIAGONALS, BOTH MUST BE EQUAL  
X - SPACE  
Y - SPACE  
W1 - REQUIRED MINIMAL SPACE FOR  
L - LINTEL (MIN. 250MM)



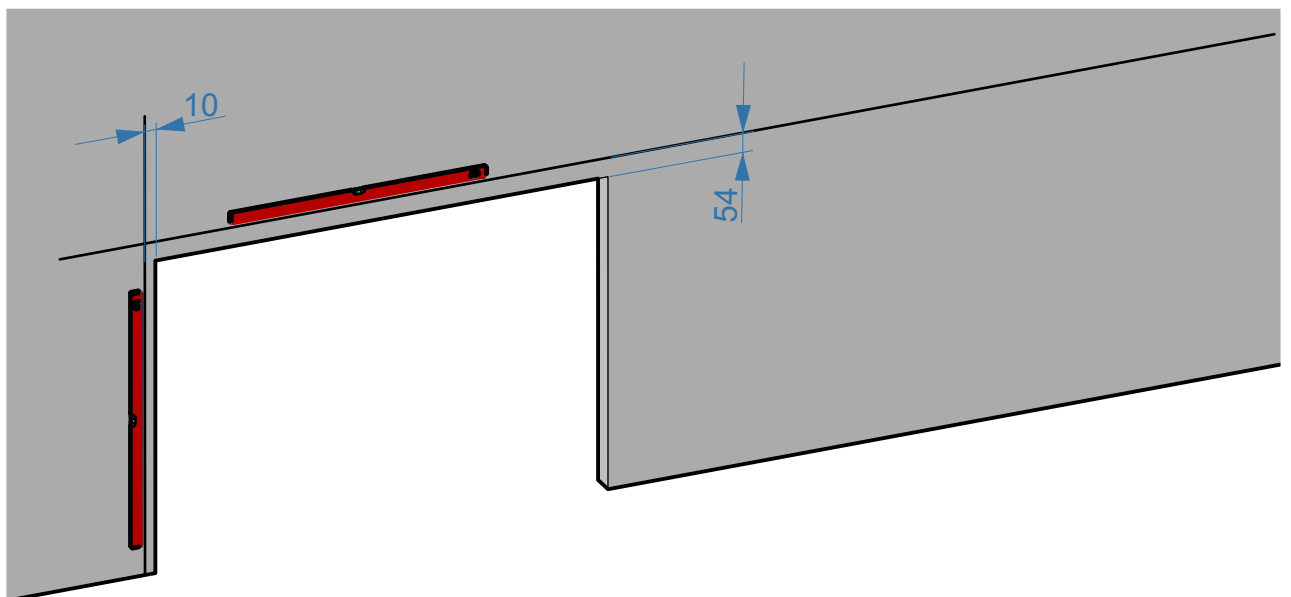
IF YOU HAVE LINTEL DIMENSION LESS THAN 450MM PLEASE CONTACT US BEFORE ORDERING THE GATE. DETAILS SEE SUB-POINT 6.5

### 3 MARKING PLACES FOR RAIL AND FRONT FIRE TIGHT ELEMENT

#### 3.1 USE LASER TO MARK

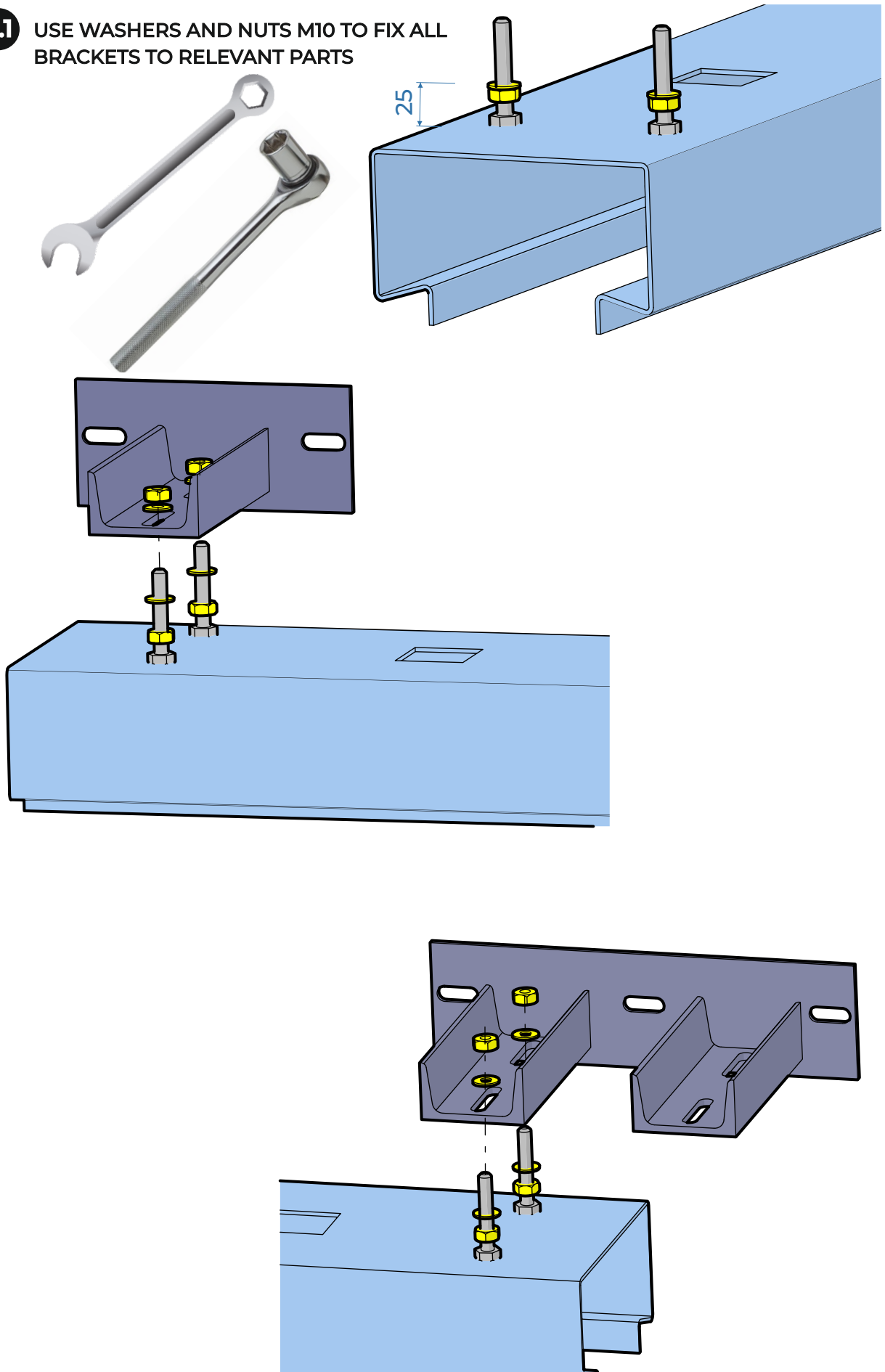


#### 3.2 USE HAND LEVEL TO MARK



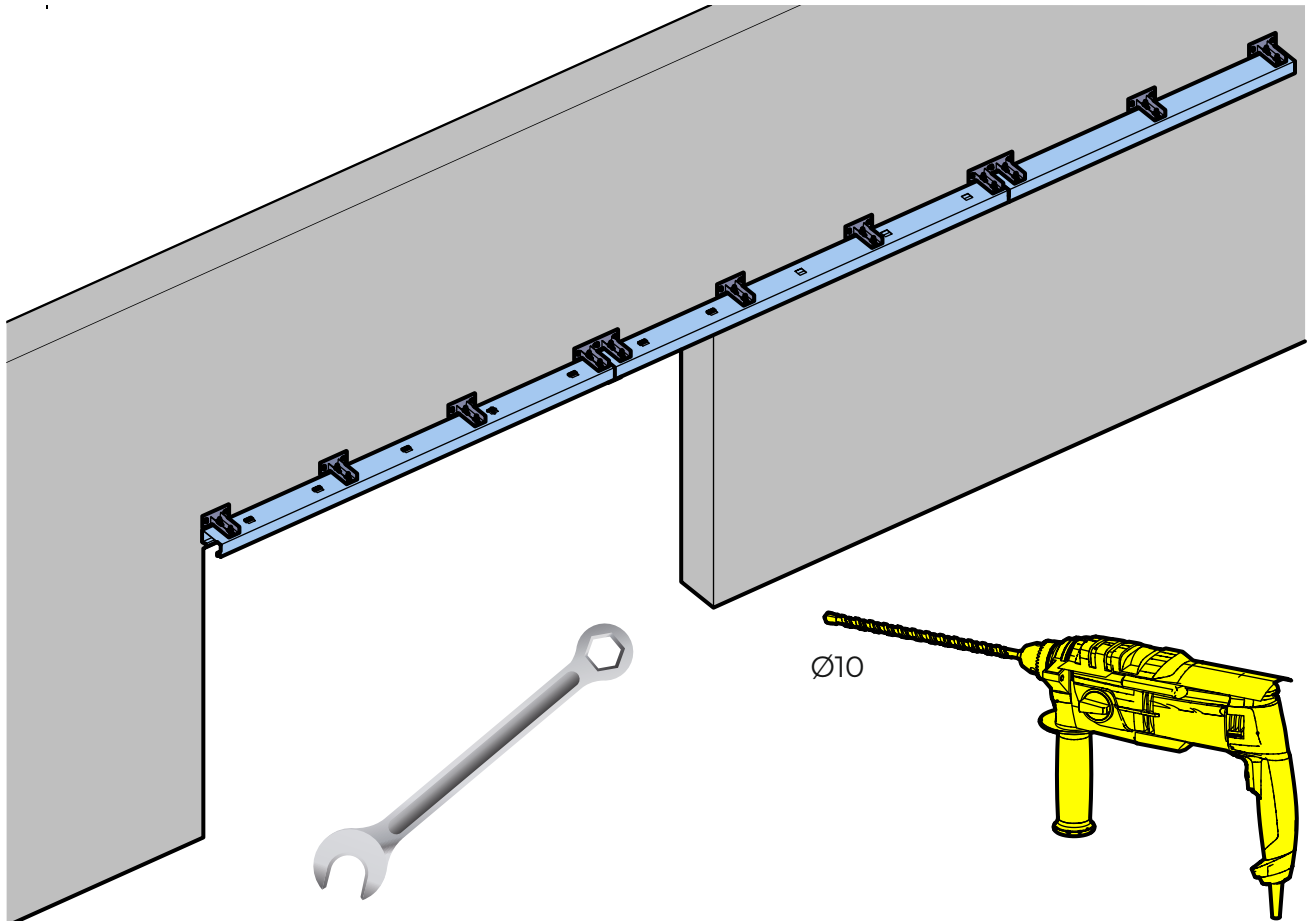
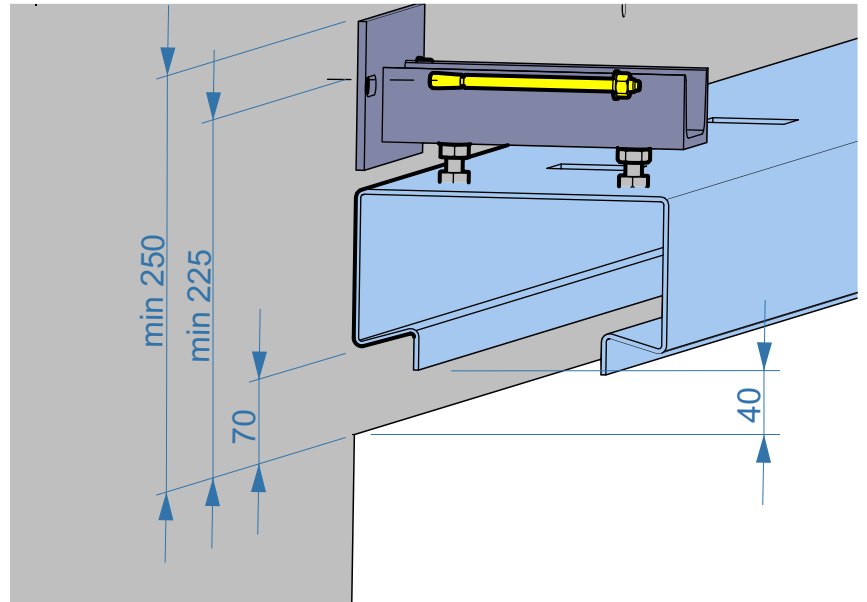
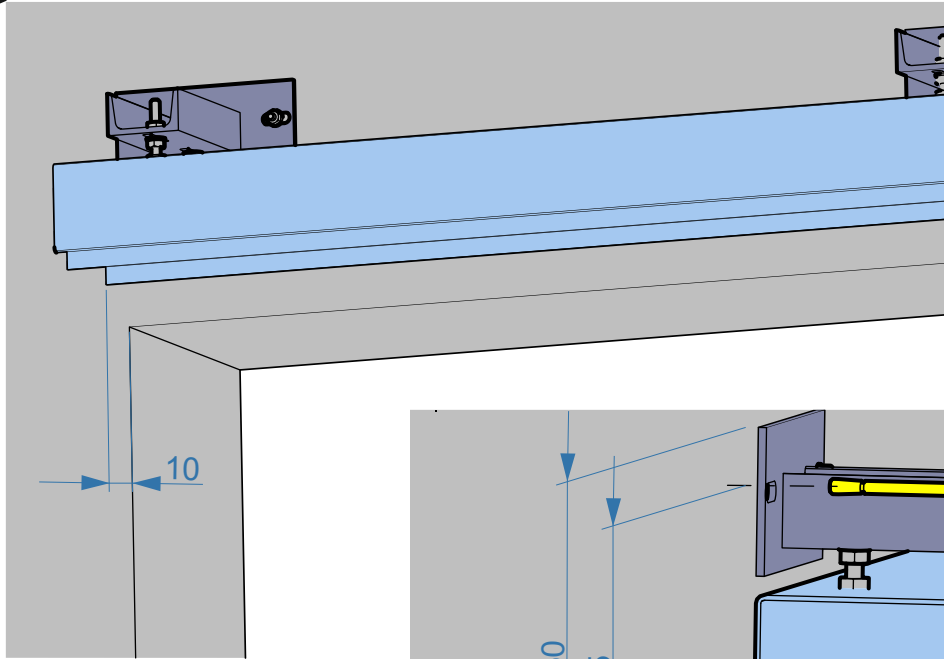
## 4 ASSEMBLING AND FIXING OF THE RUNNING RAIL

### 4.1 USE WASHERS AND NUTS M10 TO FIX ALL BRACKETS TO RELEVANT PARTS

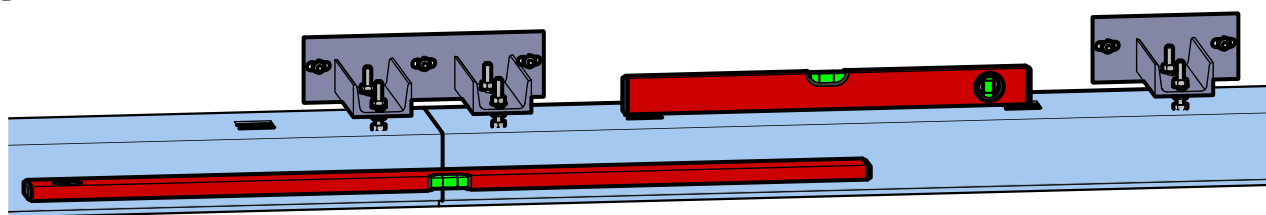




## 4.2 DIMENTIONS FOR FIXING FIRST PART OF RAIL

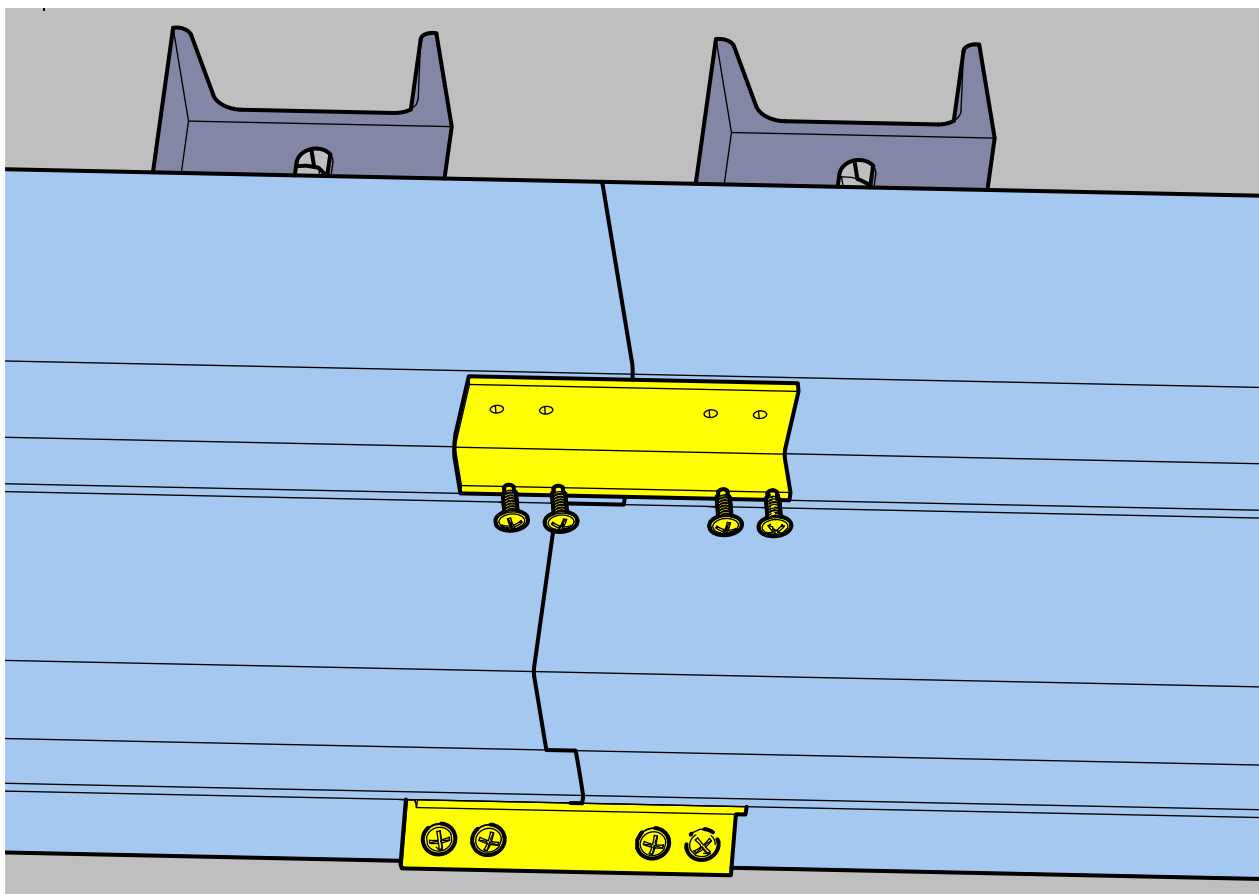
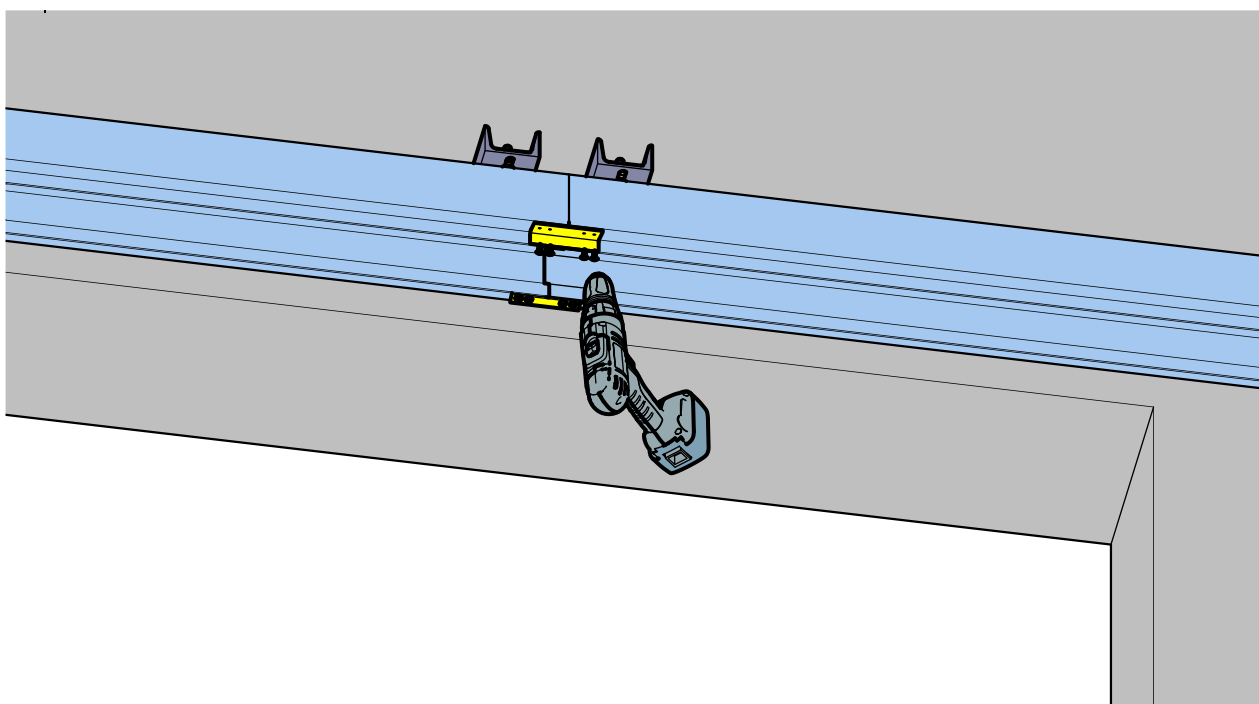


**4.3** CHECK ALIGNMENT AND HORIZONTAL LEVEL OF RAILS.

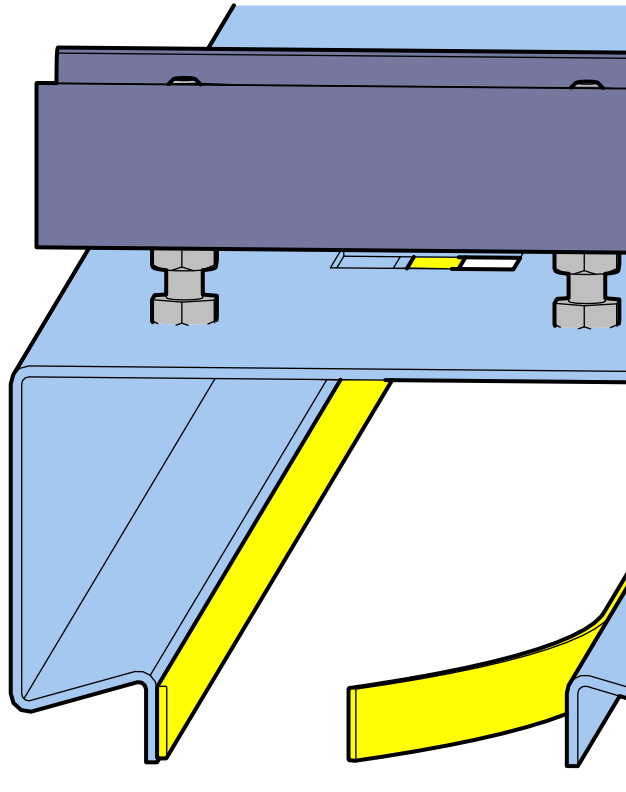


ALIGNMENT CONNECTION OF RAILS

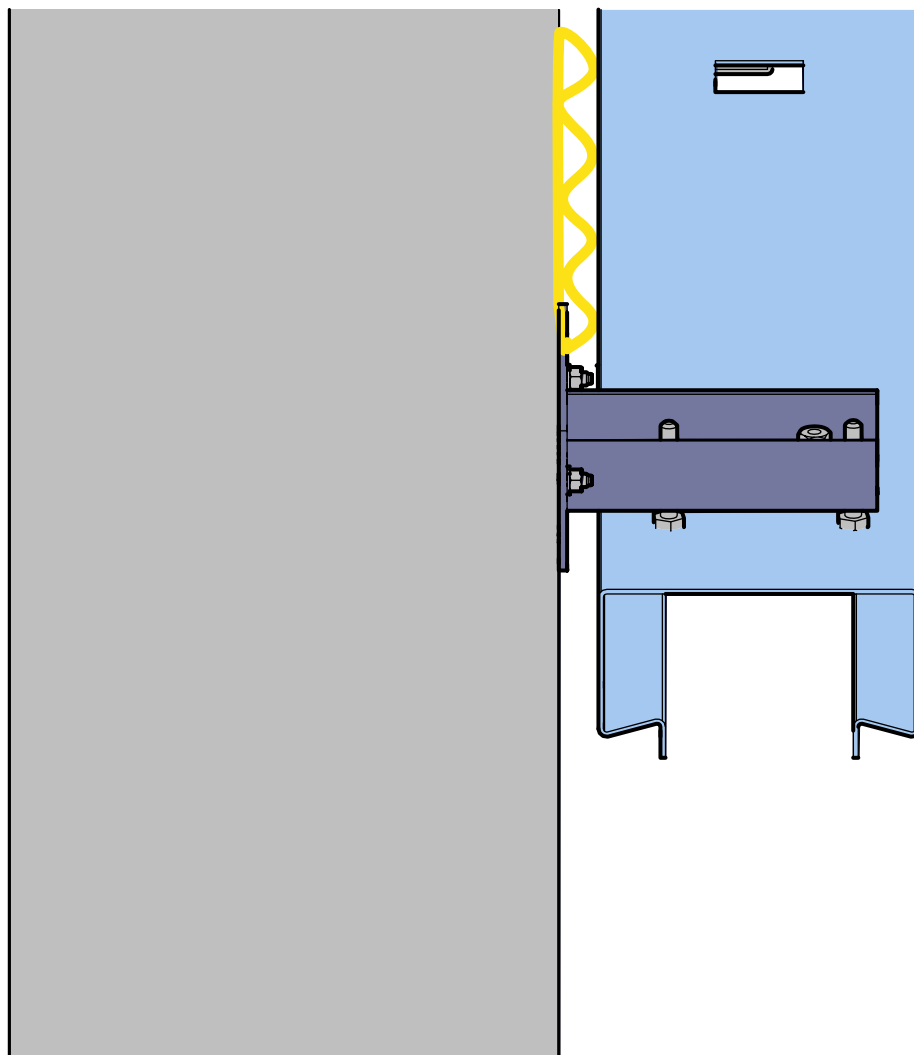
**4.4** JOINT PARTS OF RAILS WITH RAIL CONNECTOR. USE SELF TAPPING SCREWS  $\varnothing 4,2 \times 13$



**4.5** GLUEING INTUMESCENT STRIP 15 x 2 MM INSIDE RAIL, ONLY IN THE AREA OF WALL OPENING

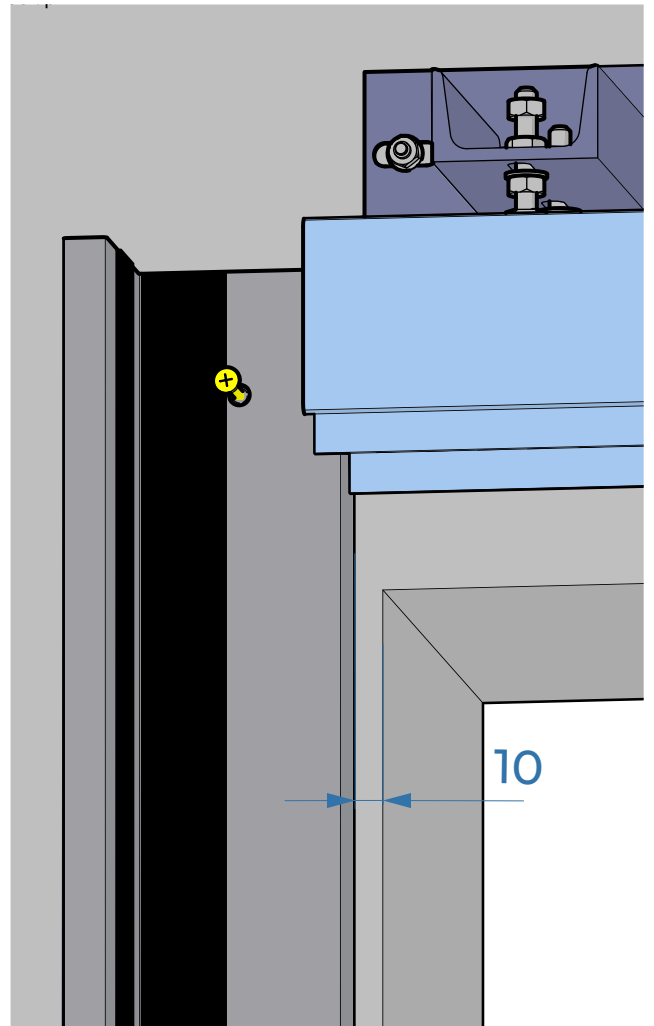
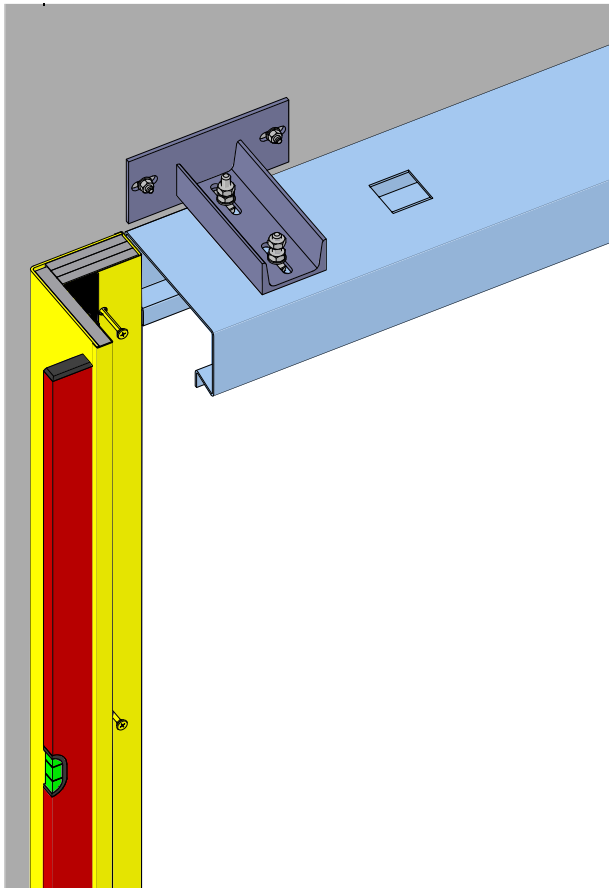
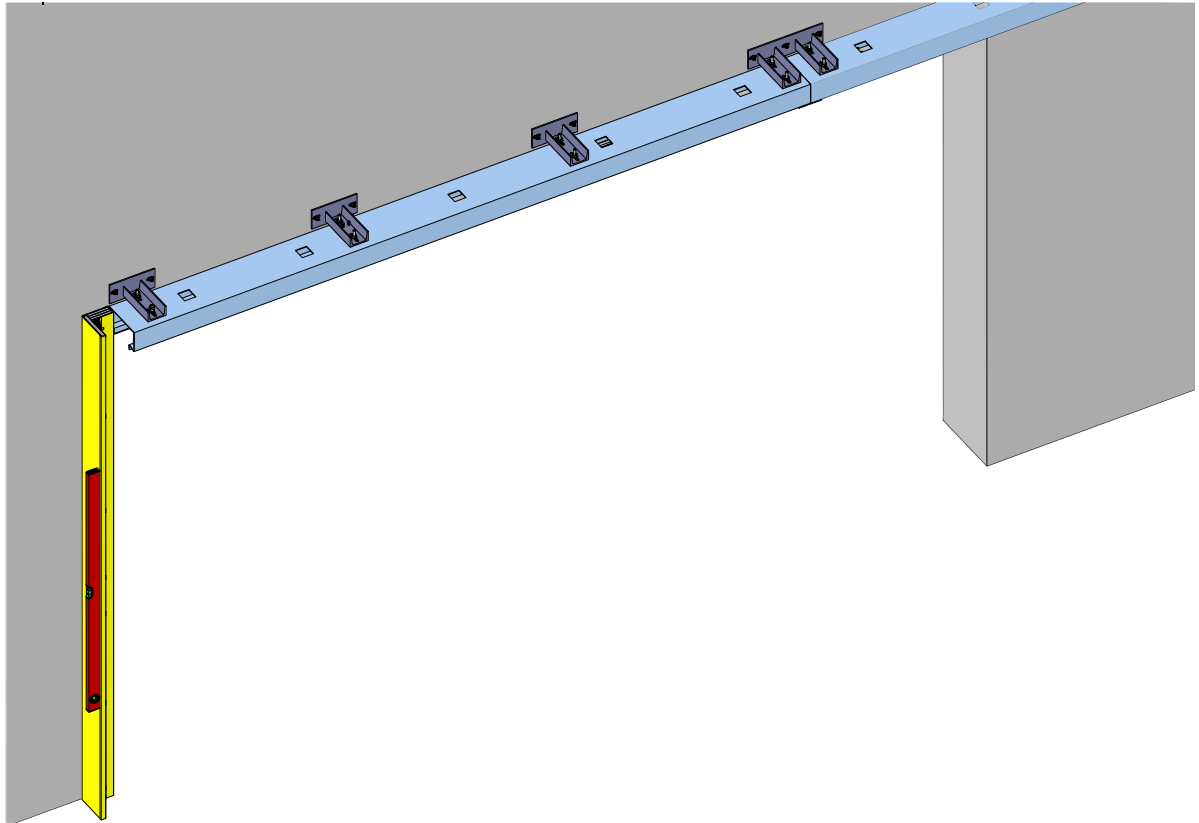


**4.6** FILL WITH ROCKWOOL ANY GAPS AND ALL SPACES BETWEEN WALL AN GATE RAIL. ONLY OVER THE AREA WALL OPENING

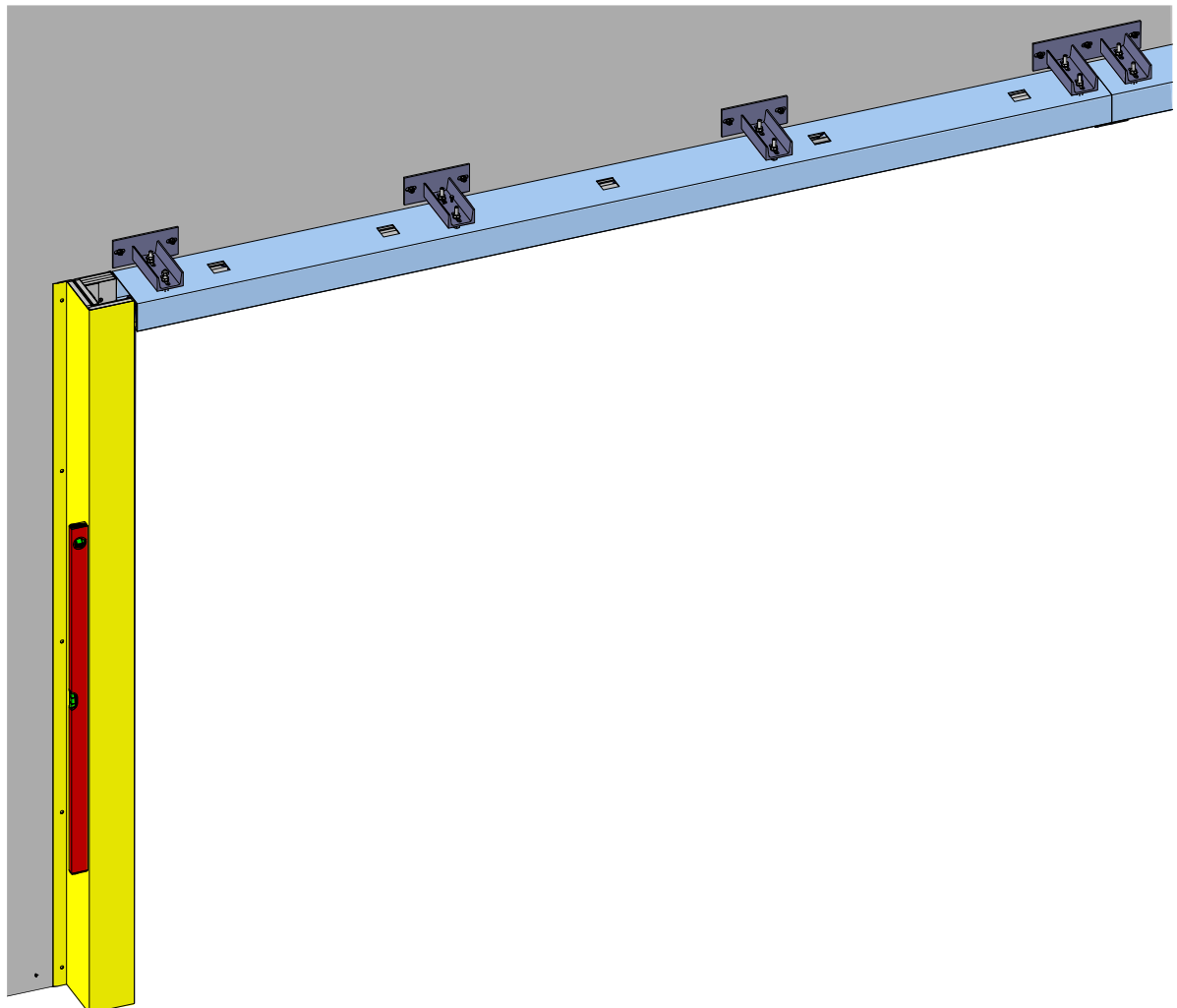
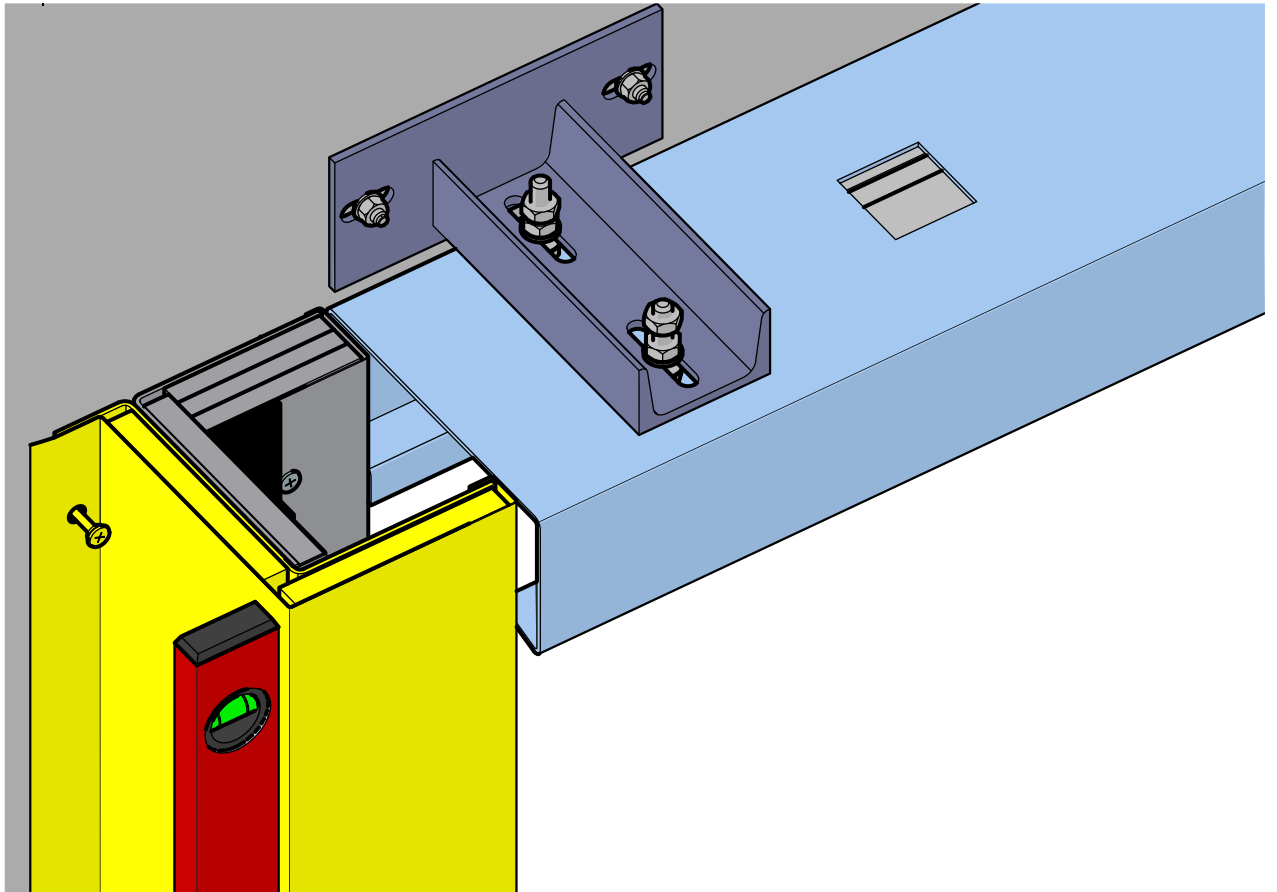


## 5 FIXING VERTICAL PARTS

### 5.1 FRONT FIRE TIGHT L-ELEMENT. USE ANCHORS $\varnothing 10 \times 112$

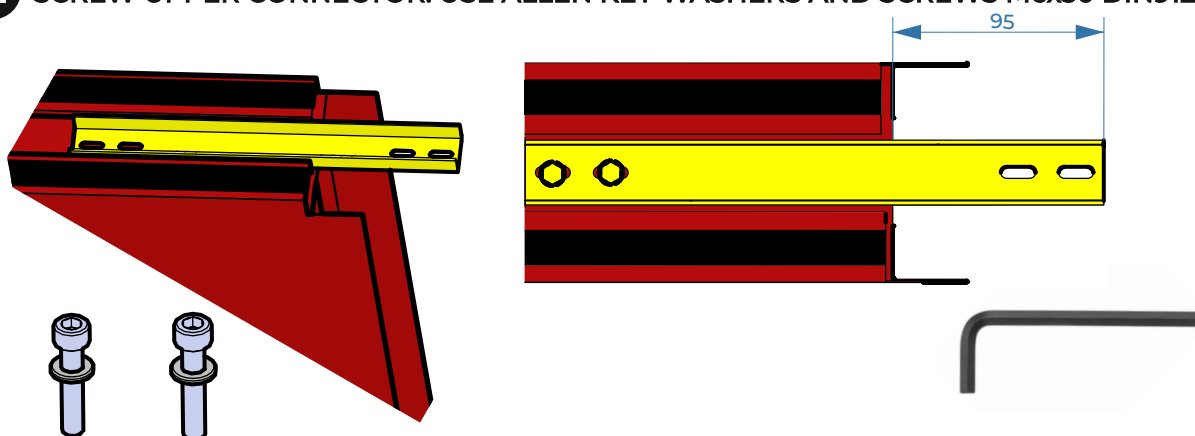


**5.2** FIX FRONT FIRE TIGHT Z - ELEMENT. USE ANCHORS  $\varnothing 10 \times 112$

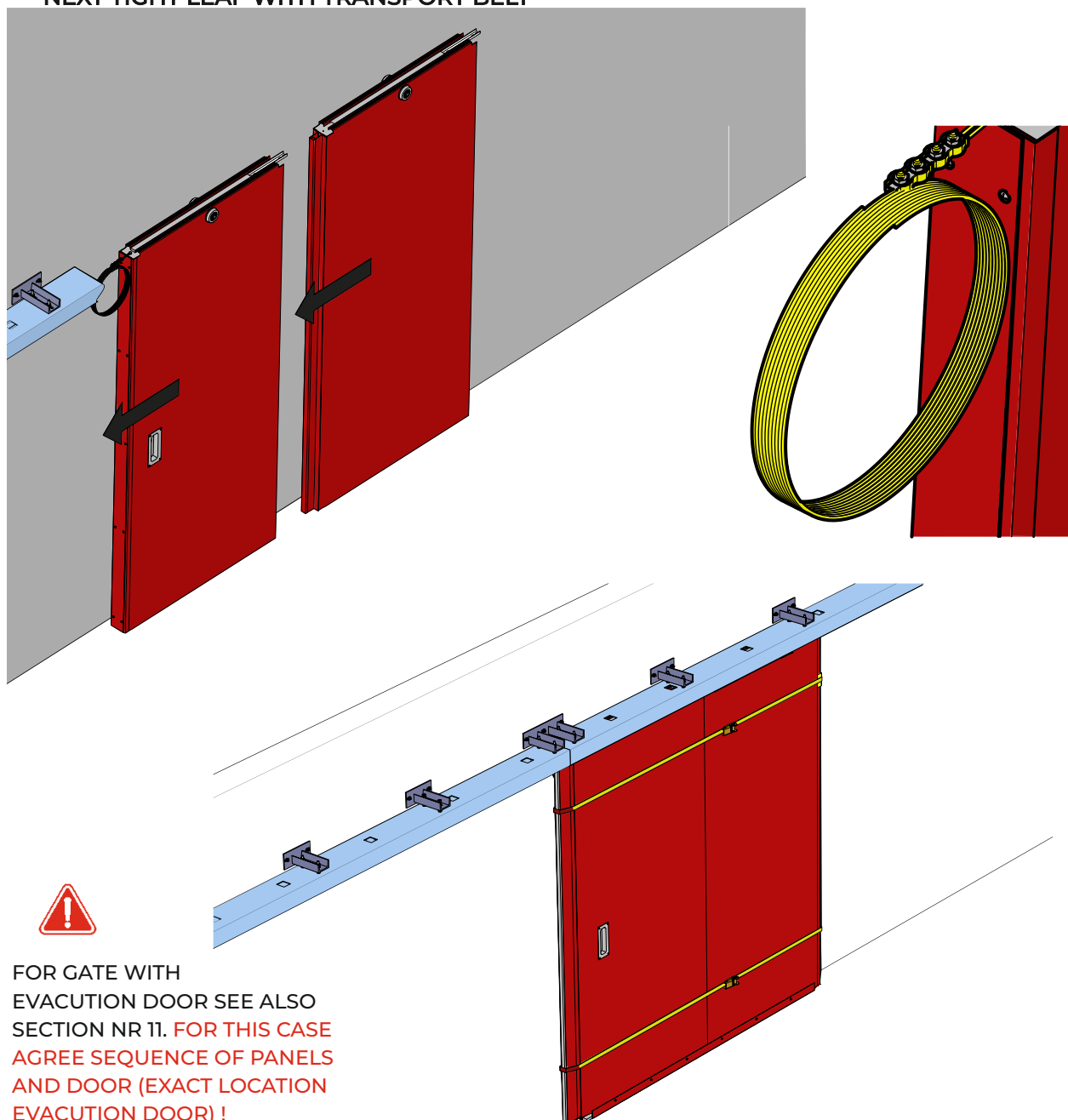


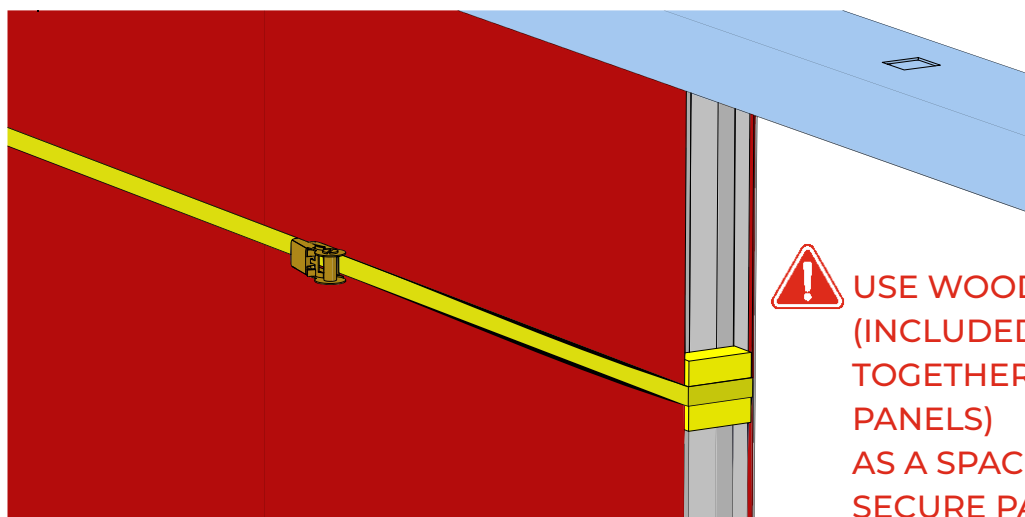
## 6 LEAF ASSEMBLING

### 6.1 SCREW UPPER CONNECTOR. USE ALLEN KEY WASHERS AND SCREWS M6x30 DIN912



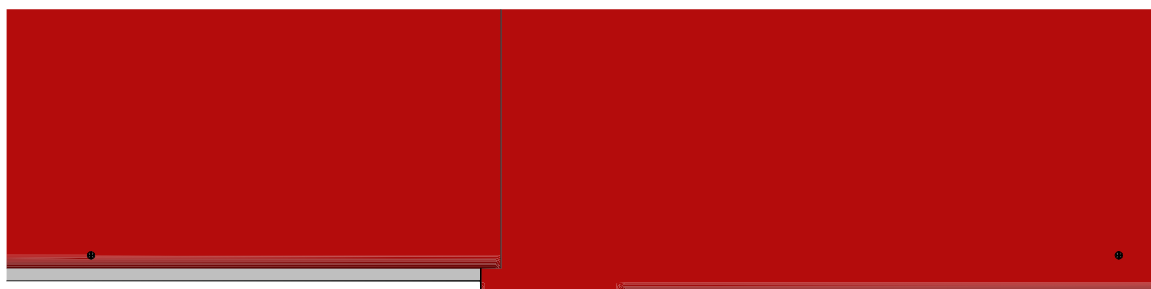
### 6.2 USE STEEL CLAMPS (2 PCS PER SIDE), WASHER, SELF DRILLING $\varnothing 6.3$ AND FIX STEEL CORD ON THE UPPER PLACE END OF PANEL. ENTER PANELS INSIDE RAIL. NEXT TIGHT LEAF WITH TRANSPORT BELT



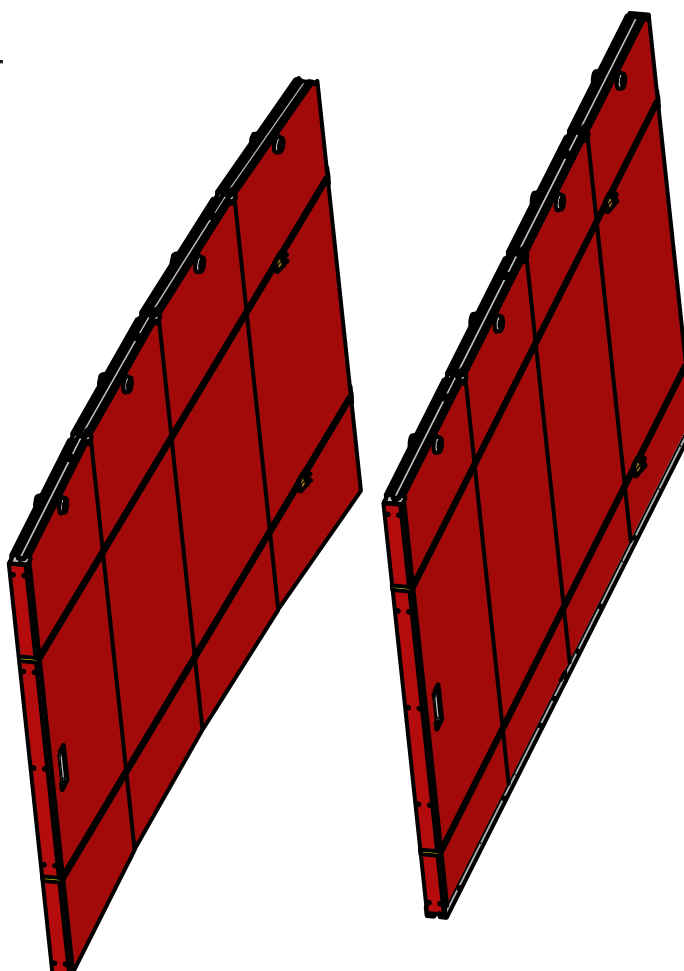


USE WOODEN BLOCK  
(INCLUDED IN DELIVERY  
TOGETHER WITH  
PANELS)  
AS A SPACER IN AIM TO  
SECURE PANEL

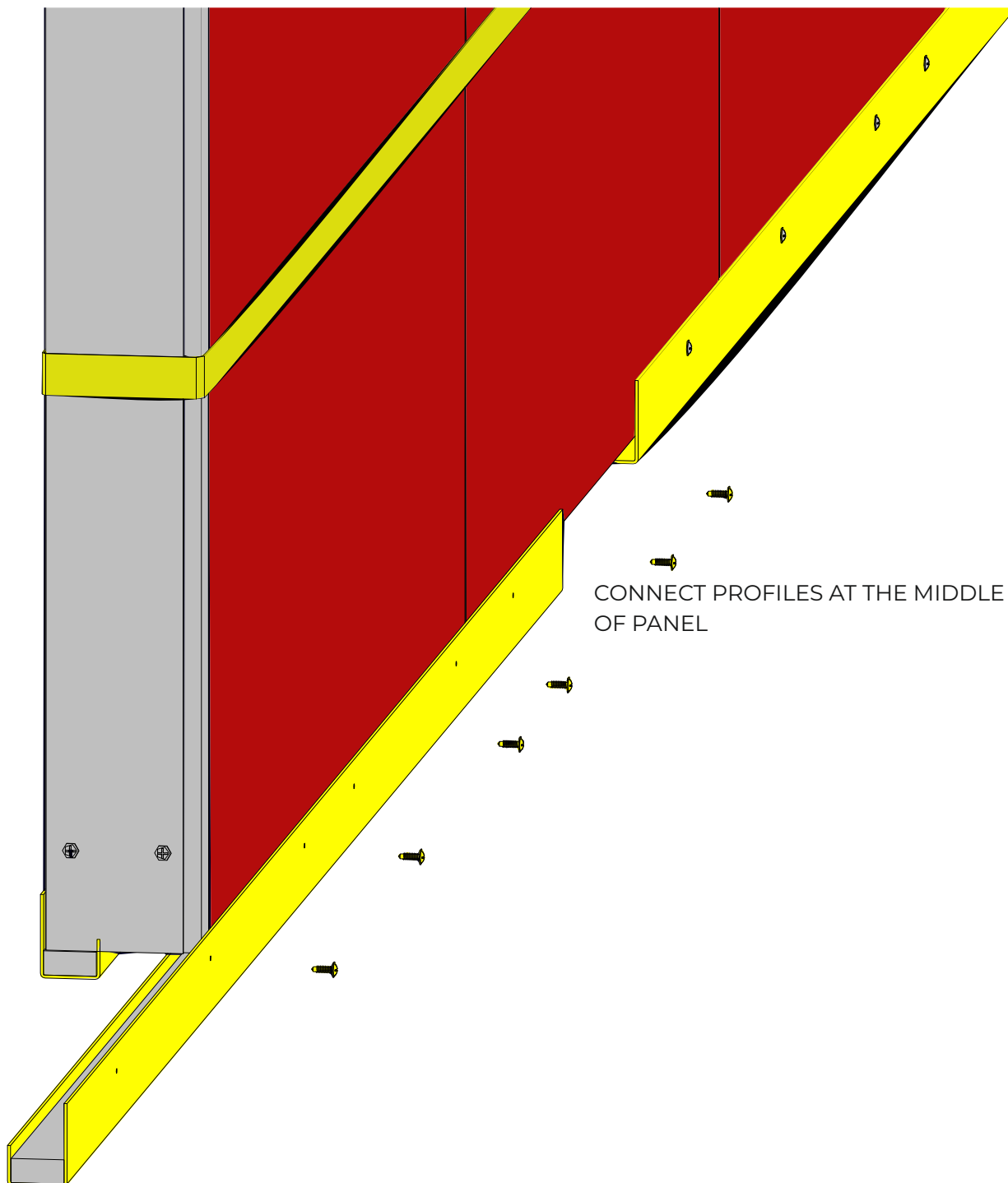
**6.3** CHECK AND MIND ALIGNMENT OF PANELS AT THE BOTTOM OF GATE. ALSO CHECK PARALLEL PANEL LOCATION ONE IN RELATIVE TO SECOND



**6.4** KEEP PANELS STRAIGHT



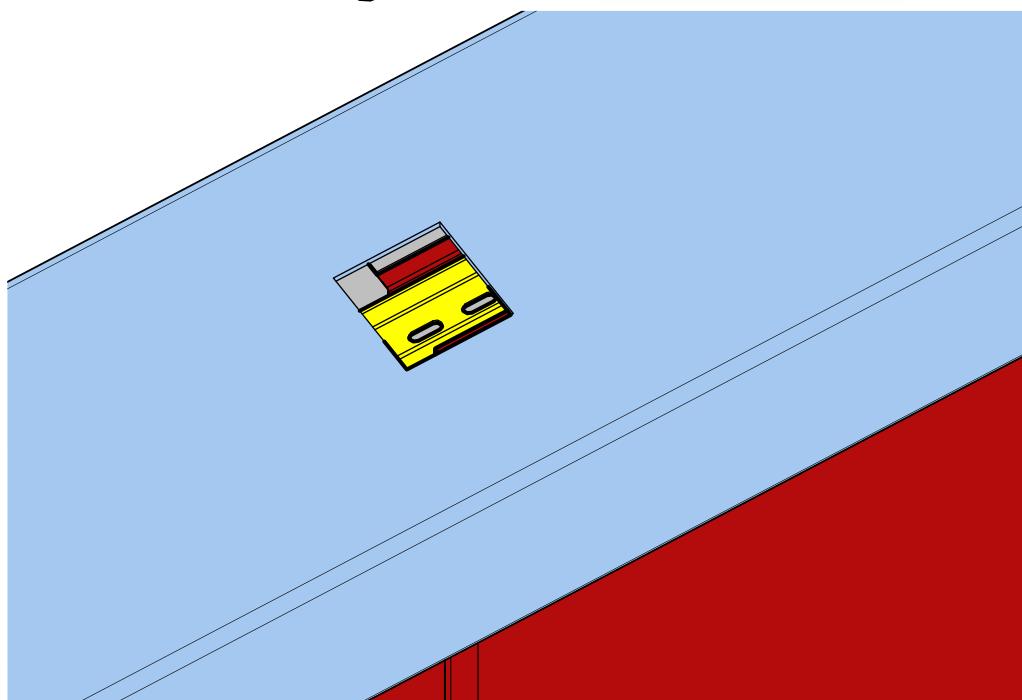
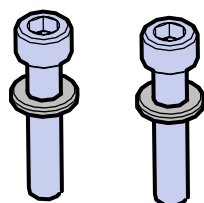
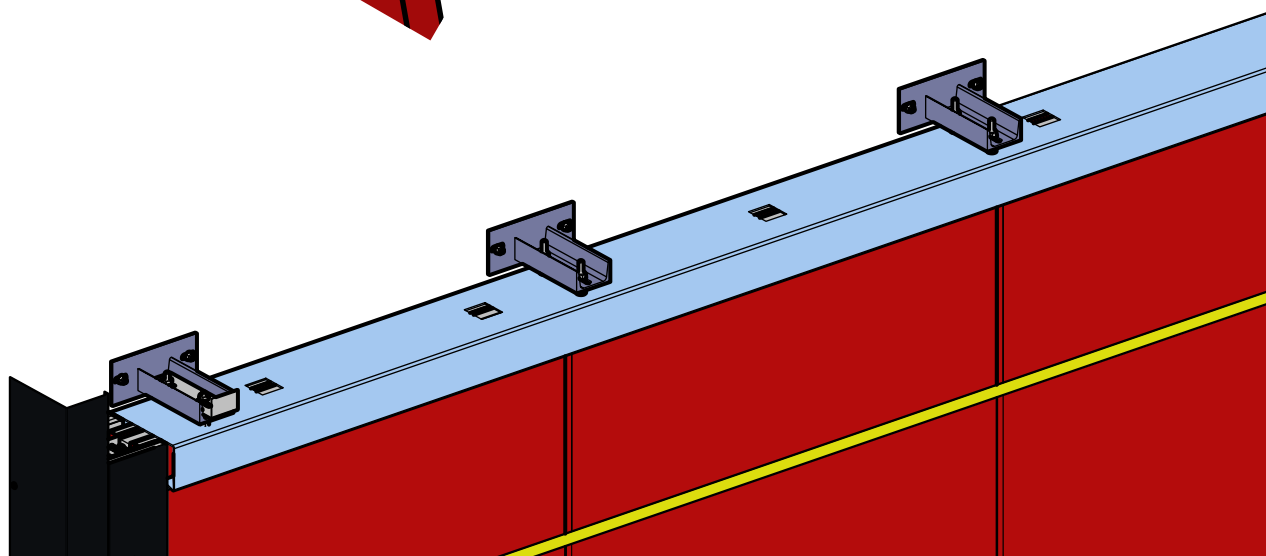
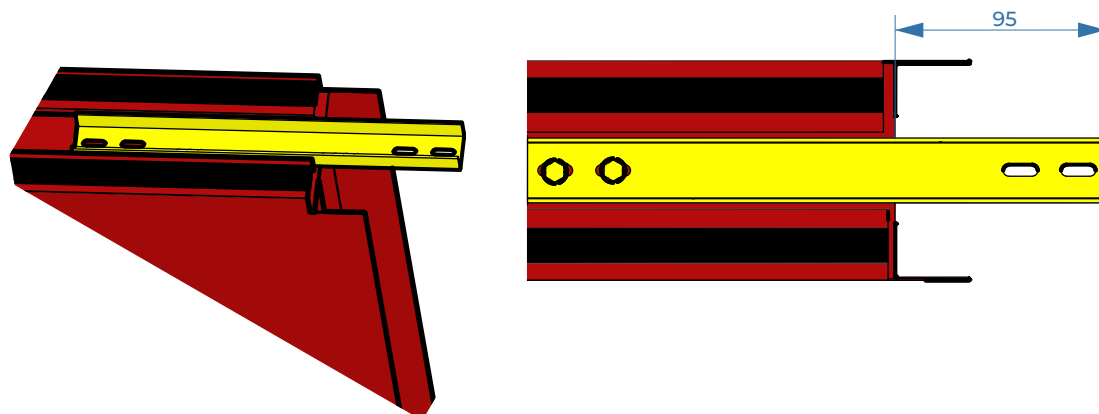
**6.5** SLIP FRONT (LEFT AND RIGHT), REAR (ALSO LEFT AND RIGHT) BOTTOM PROFILE CONNECTORS UNDER THE BOTTOM OF THE PANELS. THEN USE SELF TAPPING SCREWS  $\varnothing 4.2 \times 13$



CHECK SPACE BETWEEN GATE LEAF AND FLOOR.  
SHOULD BE NO MORE THAN 13MM

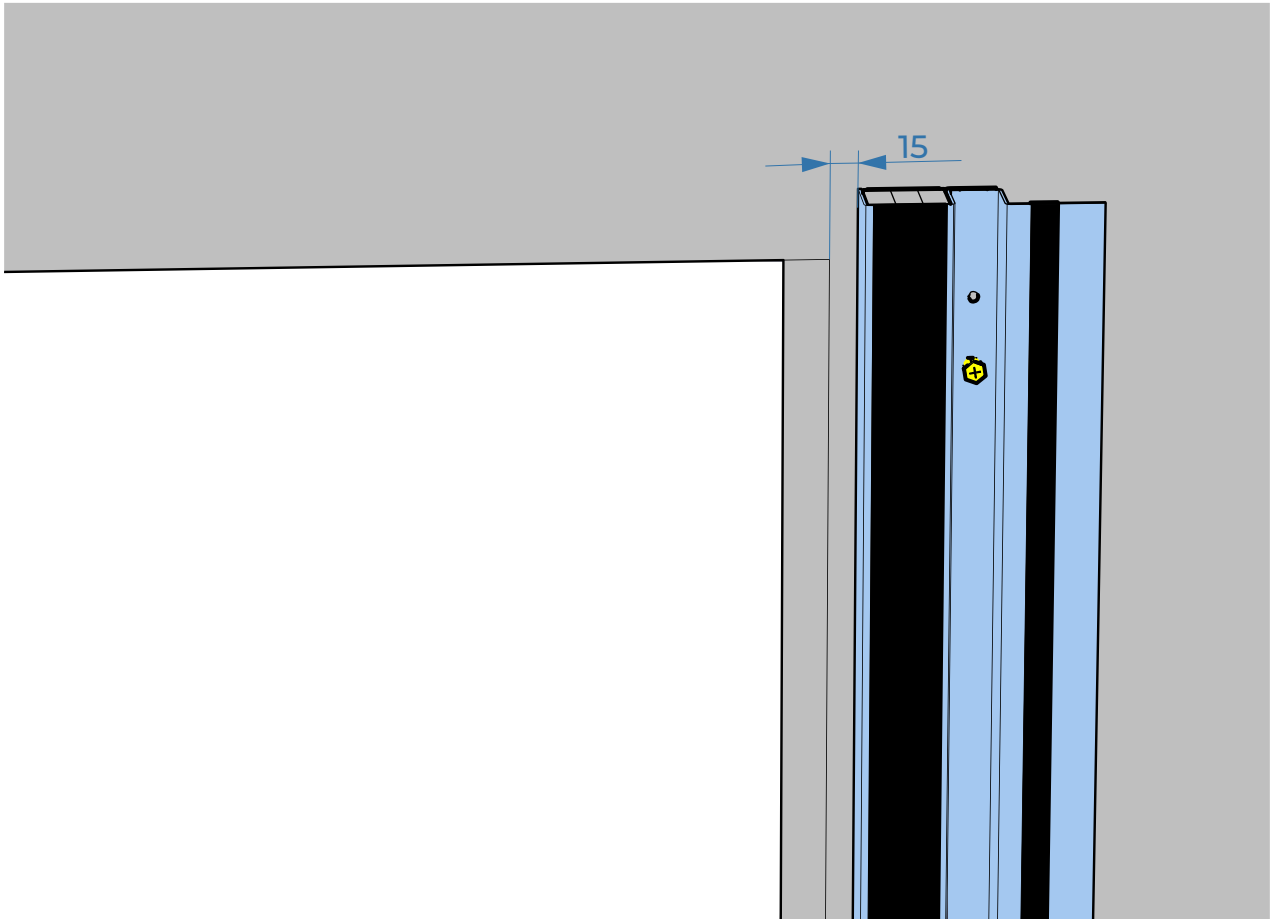


- 6.6** CONNECT PANELS TOGETHER SCREWING UPPER CONNECTORS. USE ALLEN KEY WASHERS AND SCREWS M6x30 DIN912 (2PCS PER PANEL) TO JOINT PANELS THROUGH OPENINGS IN GATE RAIL

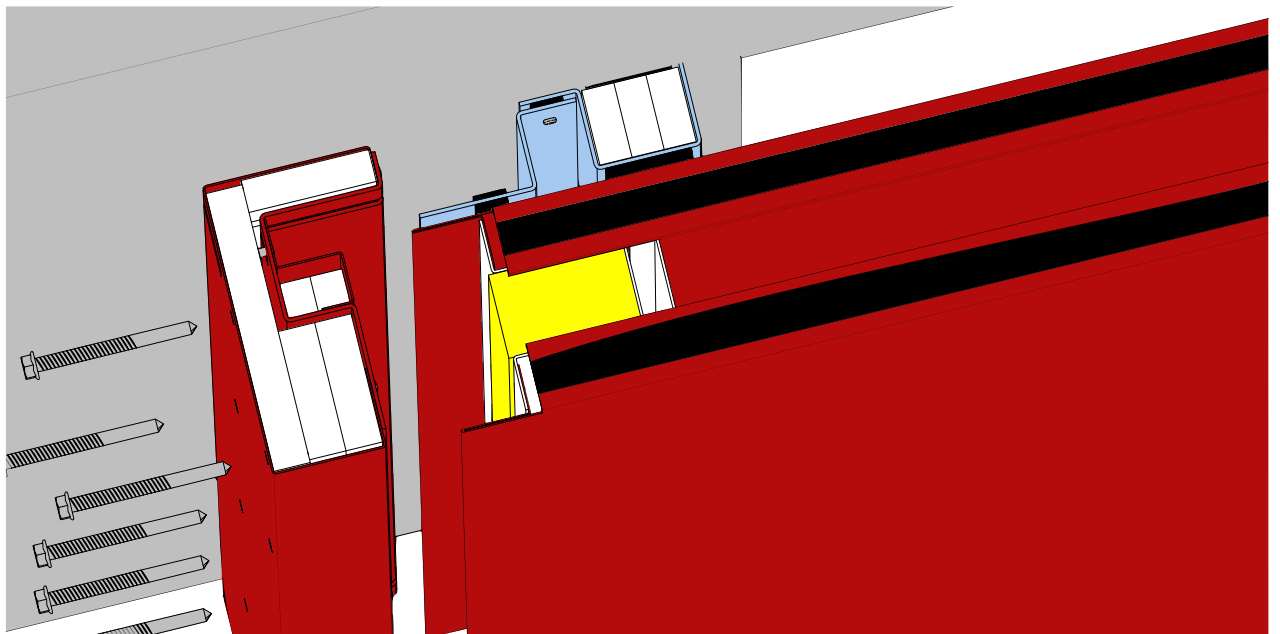


## 7 FIXING VERTICAL PARTS

- 7.1** AFTER THE PANELS HAVE BEEN CONNECTED BY TOP AND BOTTOM CONNECTORS, SLIDE BOTH GATE LEAVES BEHIND THE WALL OPENING LEAVING SPACE CA. 20 CM, IN ORDER TO INSTALL WALL LABIRYNTH ON BOTH SIDES OF WALL OPENING. USE  $\varnothing 10 \times 112$  ANCHORS.

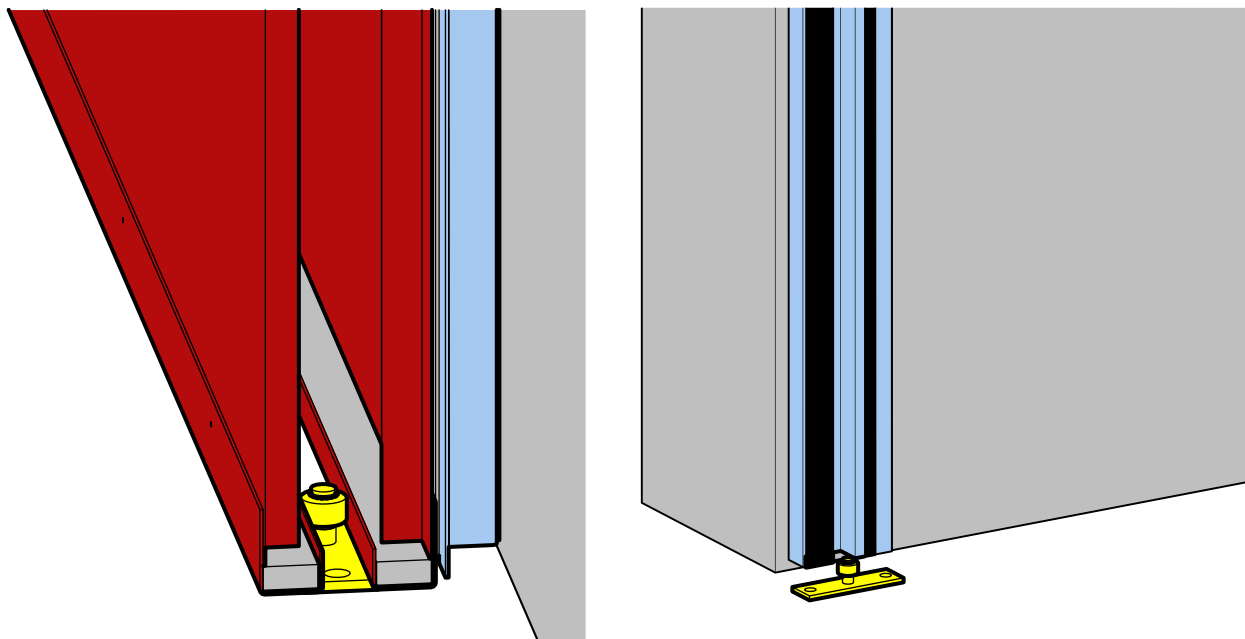


- 7.2** GET MINERAL WOOL (MARKED YELLOW) INTO GROOVE IN PANEL. USE SELFDRILLING SCREW  $\varnothing 6.3 \times 75$  TO MOUNT LEAF LABIRYNTH AT THE REAR OF GATE LEAVES

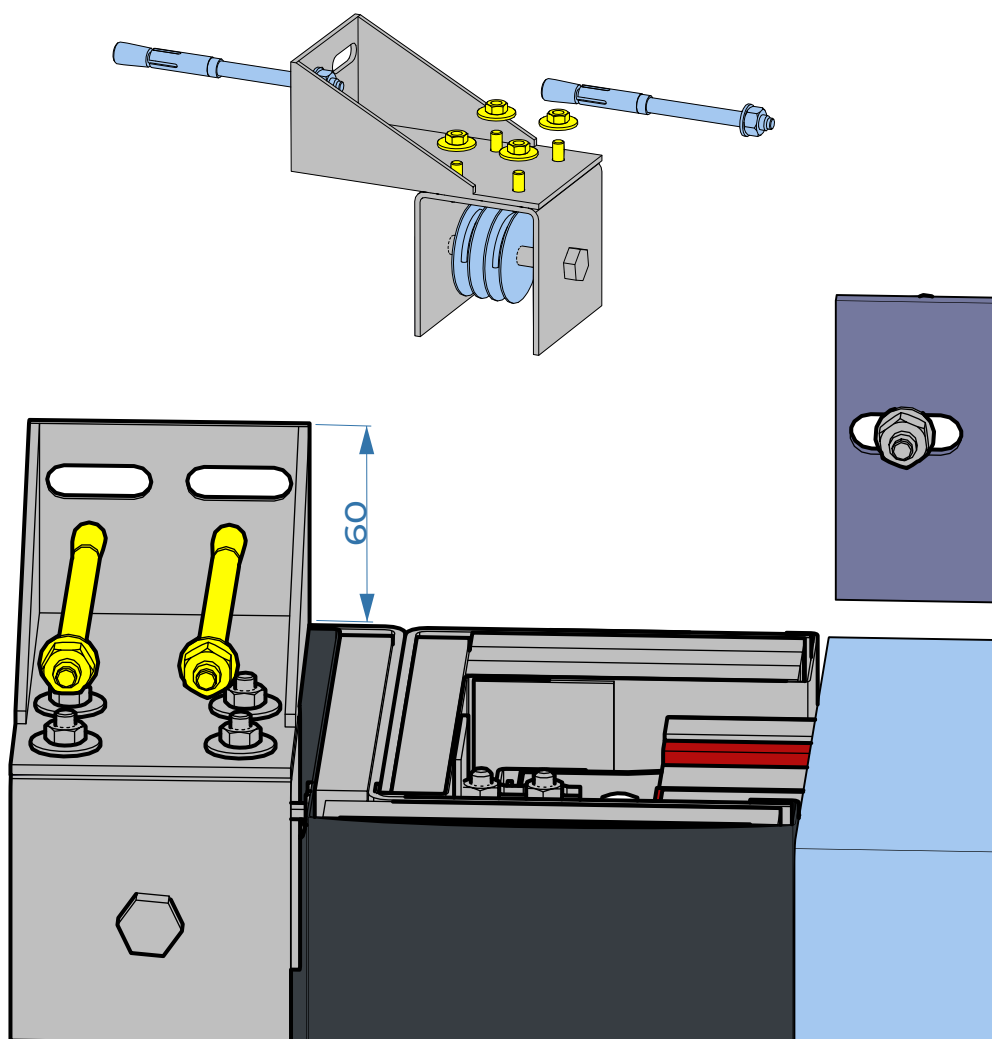


## **8** FIXING MOVING AND SPEED CONTROL PARTS

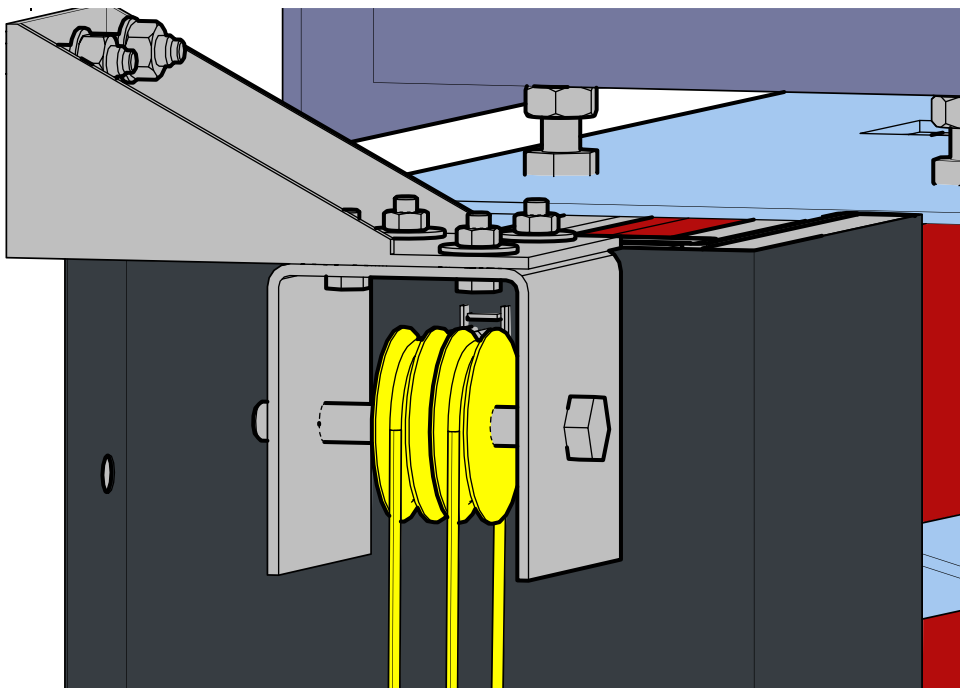
### **8.1** FIX BOTTOM GUIDE ROLLER AT THE REAR GATE LEAF



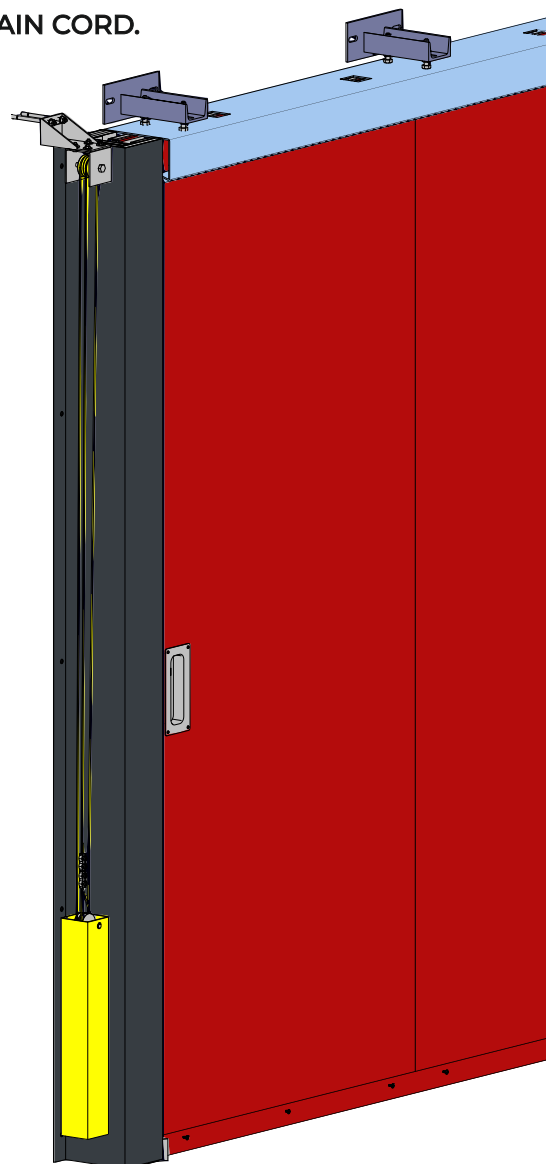
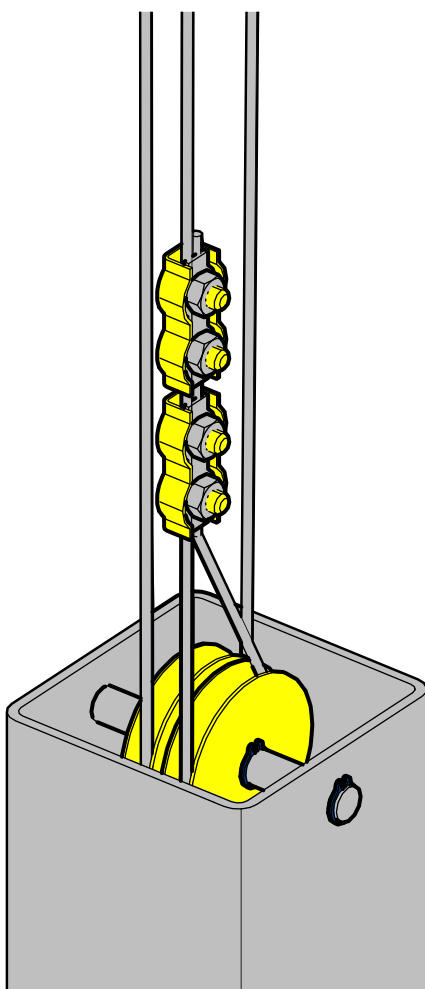
### **8.2** ASSEMBLING ROLLER BRACKET. USE STEEL ANCHOR M10 x 105 TO MOUNT ROLLER BRACKET FOR COUNTERWEIGHT.



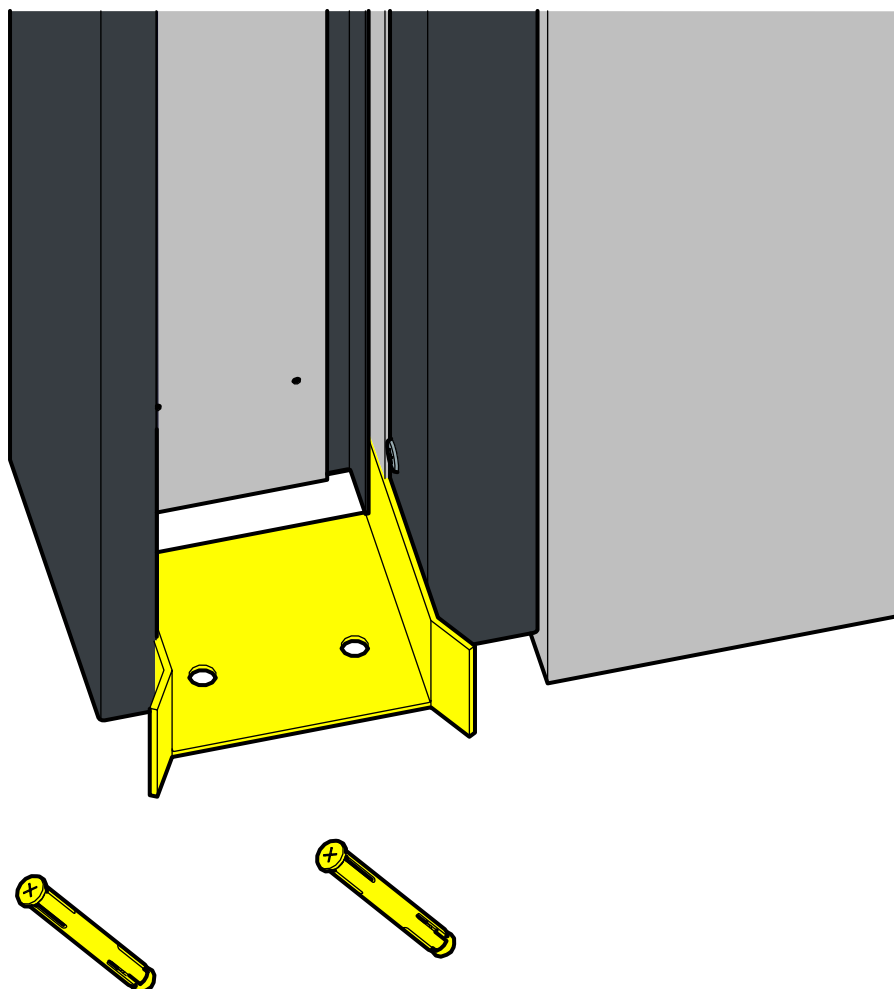
- 8.3** DRIVE STEEL CORD THROUGH ROLL. IN CASE WHEN THE WIDTH OF LEAF IS CONSIDERABLY LARGER THAN HEIGHT, THE CORD SHALL BE THREADED THROUGH TWO OR THREE WHEELS



- 8.4** CLOSE LEAF AND MEASURE PROPER LENGTH OF STEEL CORD. USE STEEL CLAMPS (2 PCS ) AND FIX STEEL CORD. CUT REMAIN CORD.

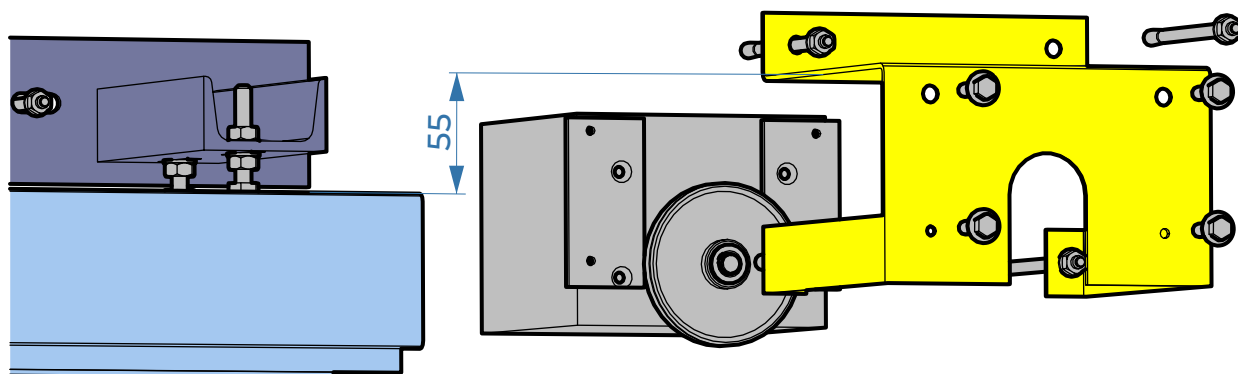


**8.5** USE ANCHORS  $\varnothing 10 \times 112$  TO FIX GUIDE ELEMENT

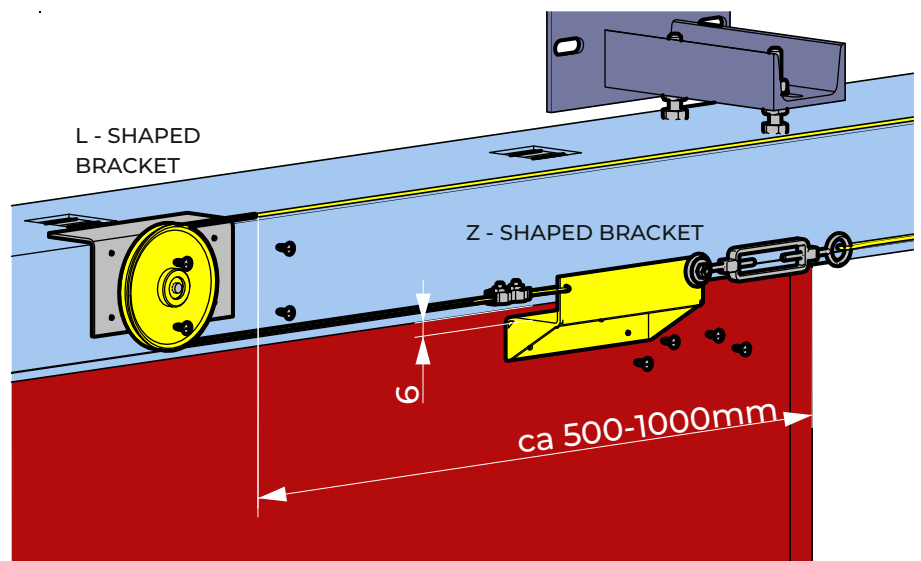
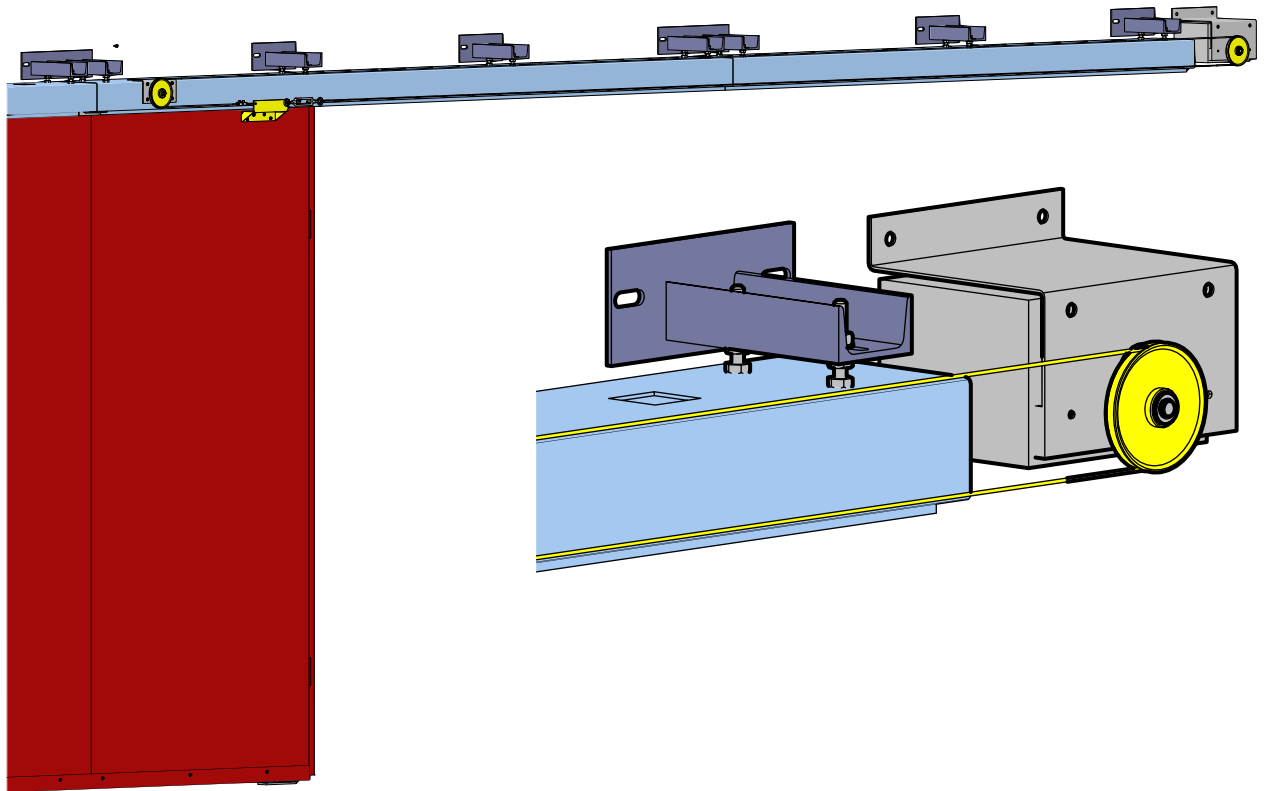


**8.6** FIX ERPZ (ELECTROMAGNET SPEED CONTROLLER OF LEAF DEVICE).  
REGARD TO ADJUSTMENT OF SPEED AND VOLTAGE CONNECTION FOLLOW PRODUCERS  
MANUAL.

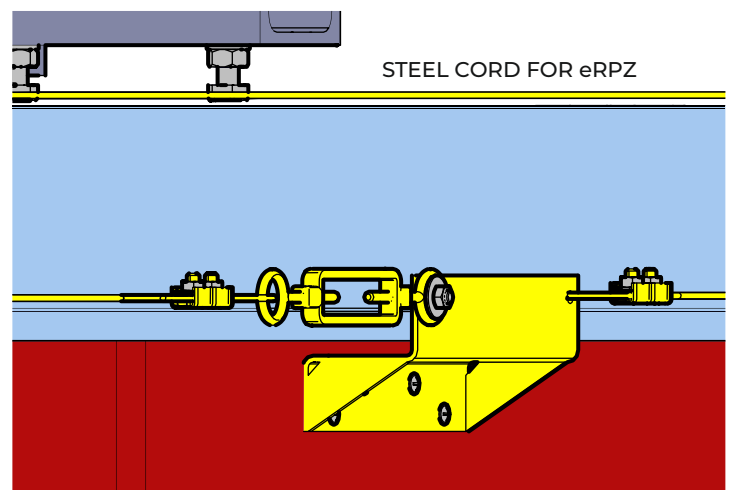
ERPZ IS NOT PROVIDED FOR GATES LEAVES LESS THAN  $10\text{M}^2$ , BUT ELECTROMAGNET  
FOR EACH LEAF APART.



- 8.7** FIX L-SHAPED BRACKET WITH WHEEL OF eRPZ, Z-SHAPED BRACKET WITH EYE-EYE BOLT (USE SELF TAPPING SCREWS  $\varnothing 4.2 \times 13$  OR RIVIETS  $\varnothing 4$ ) AND CONNECT BY STEEL CORD WITH eRPZ DEVICE

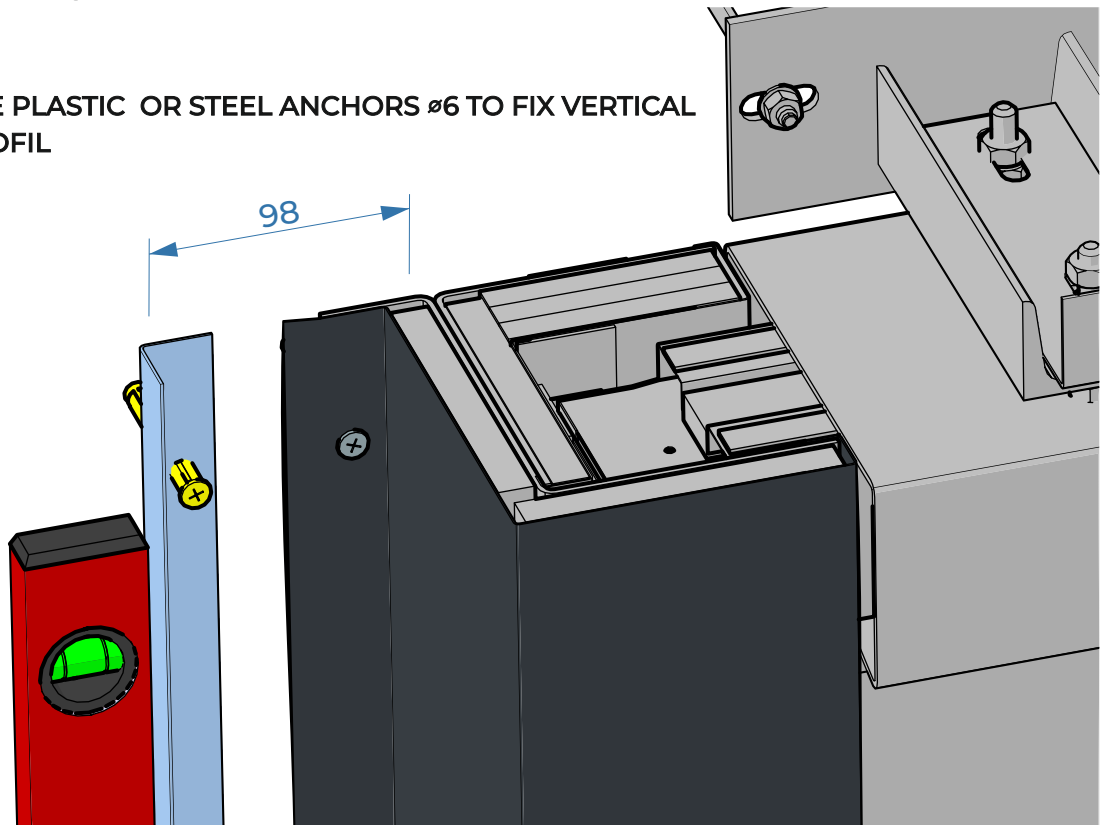


- 8.8** USING THE EYE-EYE BOLT EVOKE TENSION OF THE CORD, SO THAT IT DOES NOT SLIDE ON eRPZ

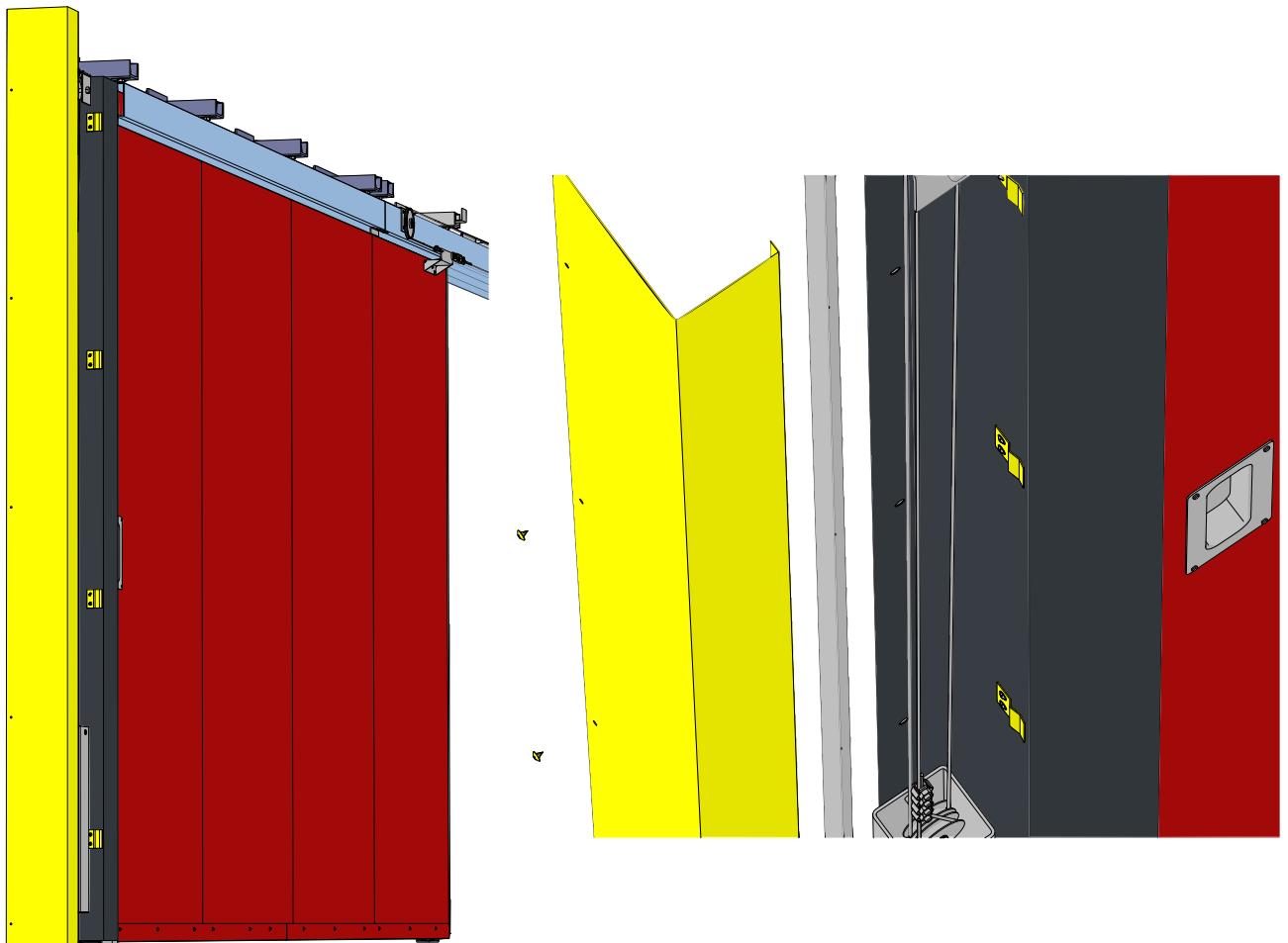


## 9 COVERS

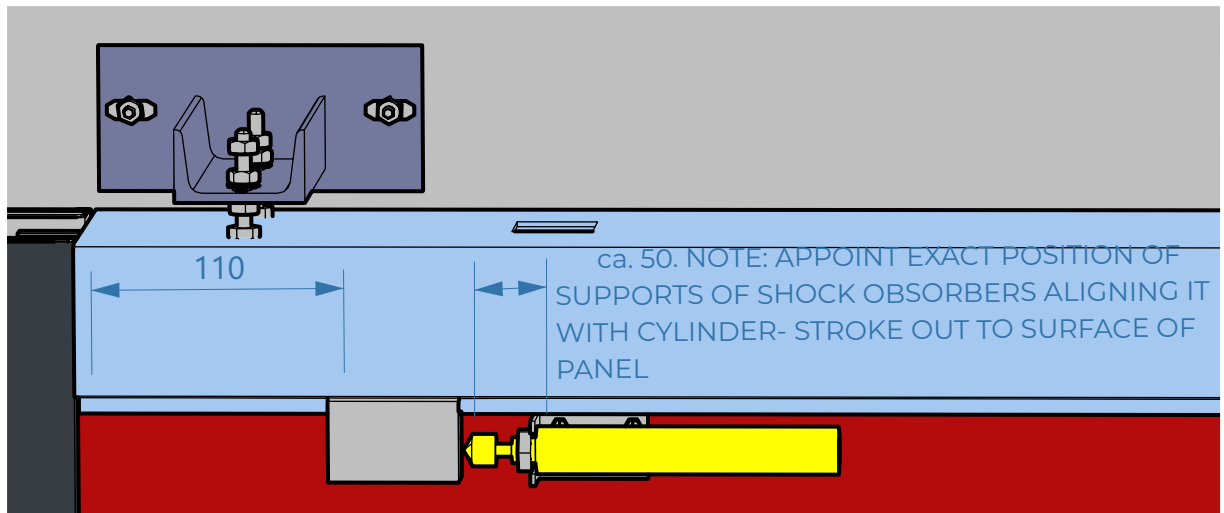
### 9.1 USE PLASTIC OR STEEL ANCHORS $\varnothing 6$ TO FIX VERTICAL PROFIL



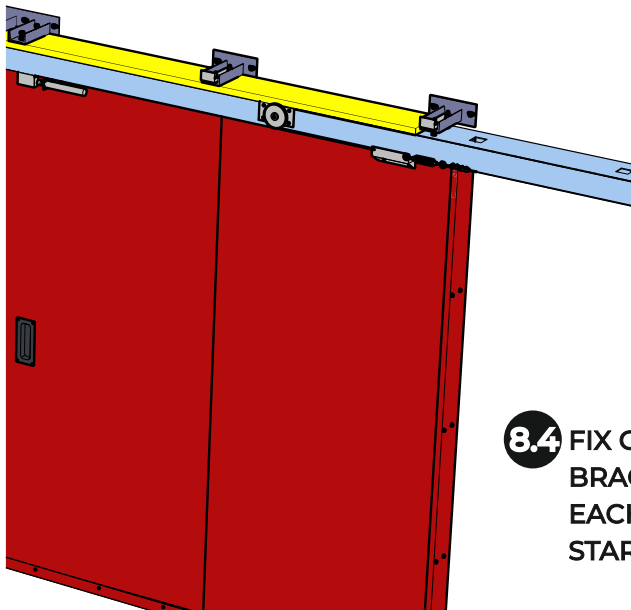
### 9.2 FIX LATCHES ON Z-ELEMENT. USE SELF TAPPING SCREWS $\varnothing 4.2 \times 13$ . THEN LATCH COVER OF THE COUNTERWEIGHT AND AGAIN USE SCREWS $\varnothing 4.2 \times 13$ TO FIX.



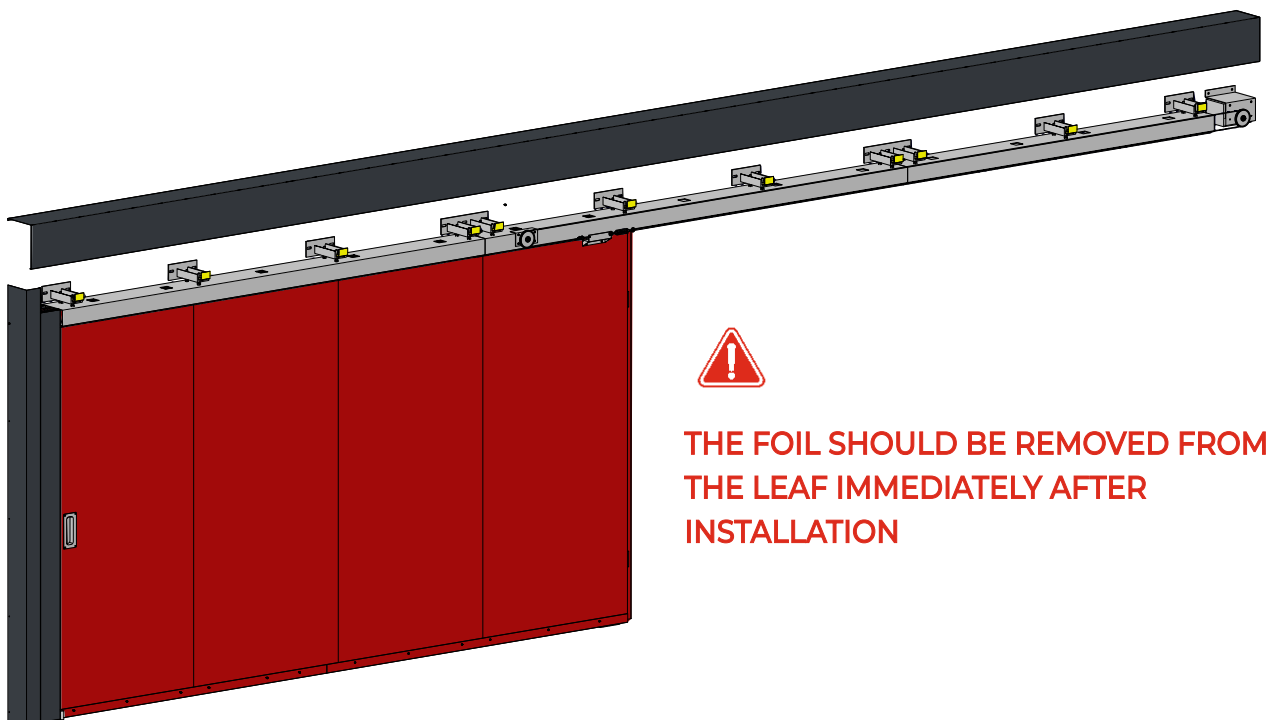
**9.3** FIX TO PANELS SHOCK ABSORBER. USE SELF TAPPING SCREWS  $\varnothing 4.2 \times 13$  OR RIVIETS  $\varnothing 4$



**9.4** FILL SPACE BETWEEN BRACKETS AND RAIL PROFILE WITHIN ROCKWOOL. ONLY IN WIDTH OF THE WALL OPENING



**8.4** FIX COVER OF RAIL. USE NUTS M10 2 FOR FIXING BRACKETS AND 2 PIECES OF SCREW  $\varnothing 4.2 \times 13$  PER EACH BRACKET (MARKED BELOW YELLOW). START FIXING IN COUNTERWEIGHT SIDE





## 10 WARRANTY AND HANDLING

Standard warranty term is 12 months counted from day of delivery agreed upon in Order Confirmation. Warranty for additional equipment, such as door closers, panic bars and the like may be granted based on separate documents provided by the Producers of this equipment.

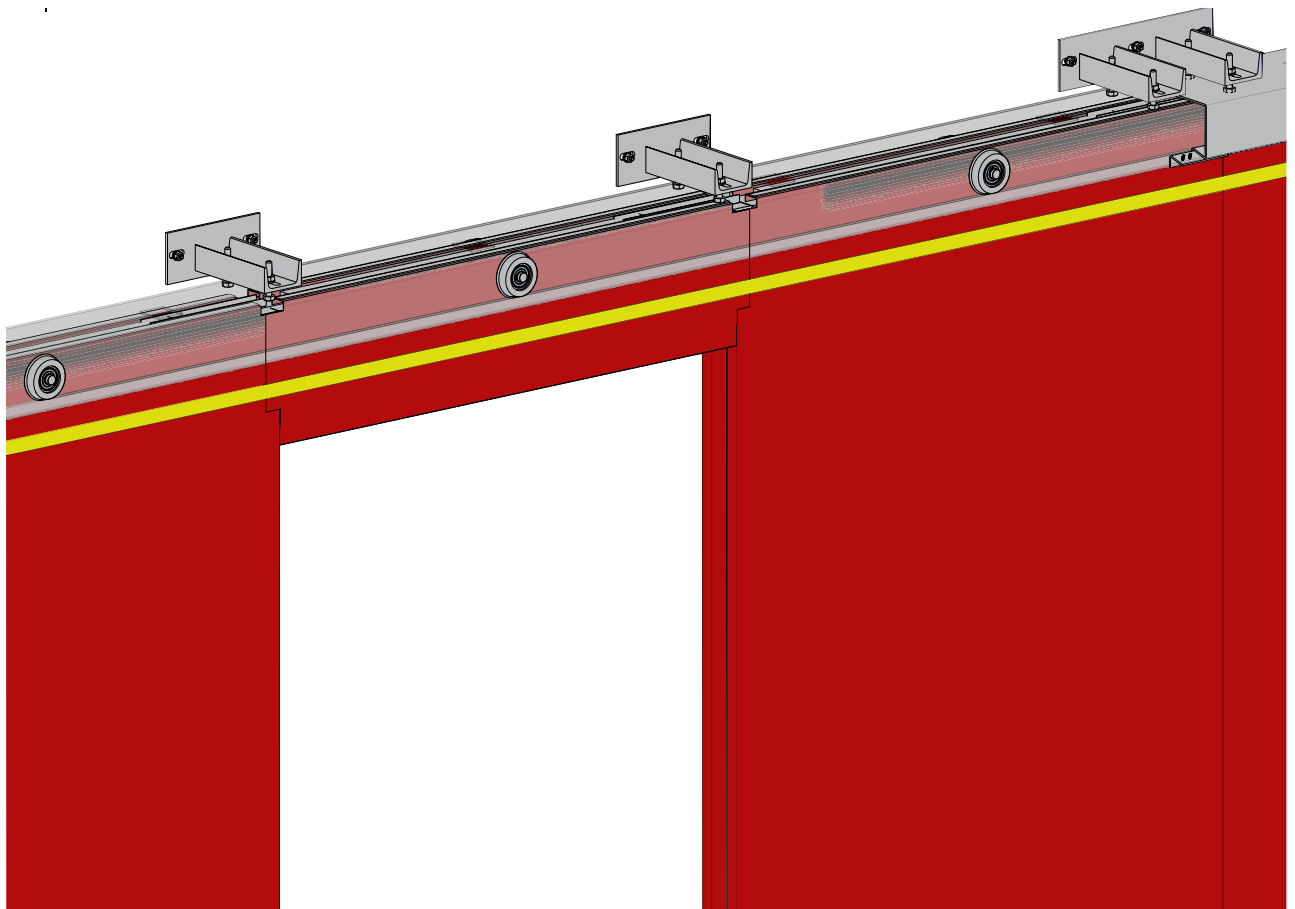
Please remember:

- to stock the panels in vertical position and protect them against rain, sun and mechanical damages
- to remove protection foil from the panels' surface immediately after installation
- to repair each fault immediately
- to clean the gates with non- aggressive agents (aggressive chemical fluids may cause corrosion even on stainless steel elements)
- to proceed with maintenance activities min. every six months, in order to retain DFM guarantee

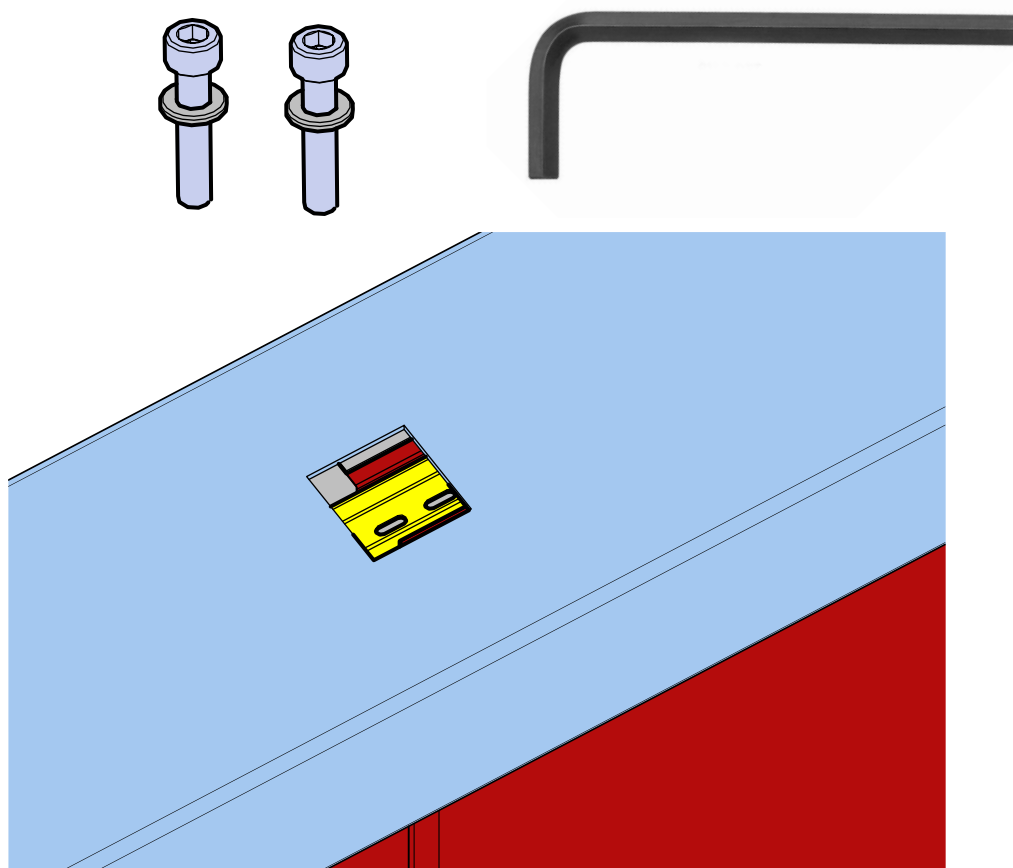
DFM EUROPE is not responsible for errors and claims caused from incorrect installation  
The Conditions of Guarantee are shown in General Conditions of Sale published on [dfm-europe.eu](http://dfm-europe.eu)

## 11 THE DIFFERENCES OF INSTALLATION FOR GATE WITH WICKET DOOR. WICKET DOORS ONLY FOR GATES EI<sub>60</sub>, EI<sub>60</sub>.

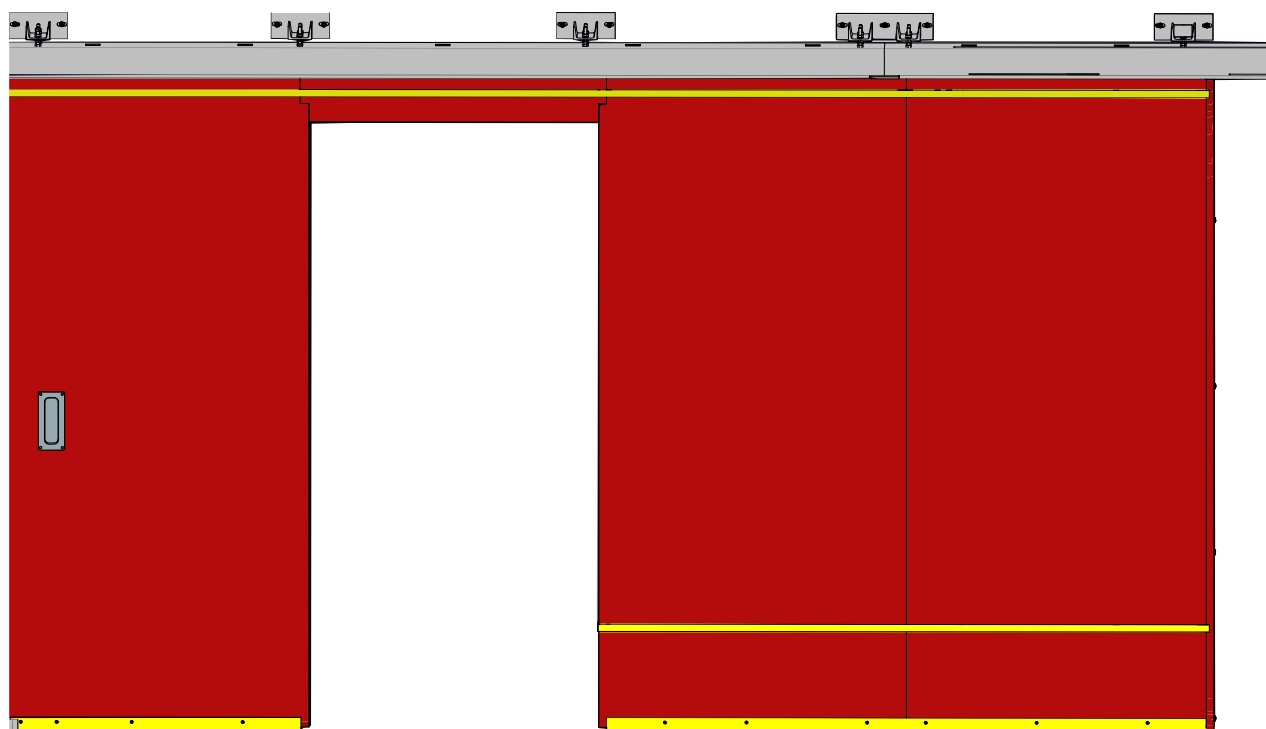
**11.1** DIFFERENCES CONCERNING ASSEMBLING GATE LEAF. DEFINE DOOR LOCATION ON THE GATE LEAF. DURING BELT SQUEEZING USE SHORT PANEL ABOVE PLANNED PLACE FOR DOOR. KEEP PANELS STRAIGHT.



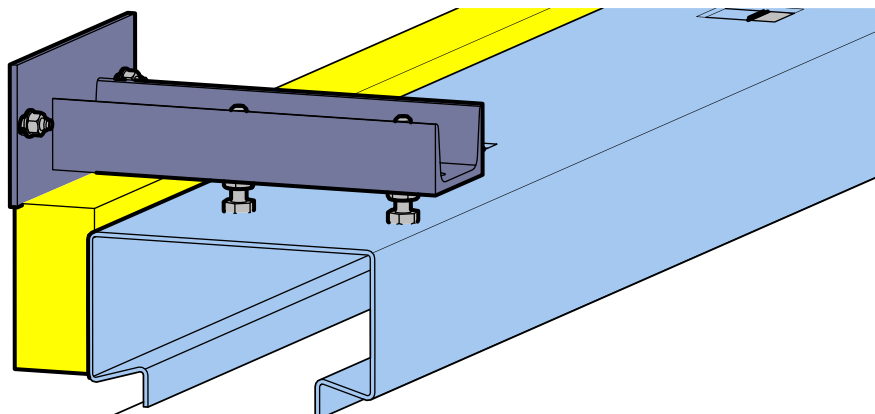
**11.2** MIND ALWAYS CONNECTING OF PANELS. SEE POINT 5.1



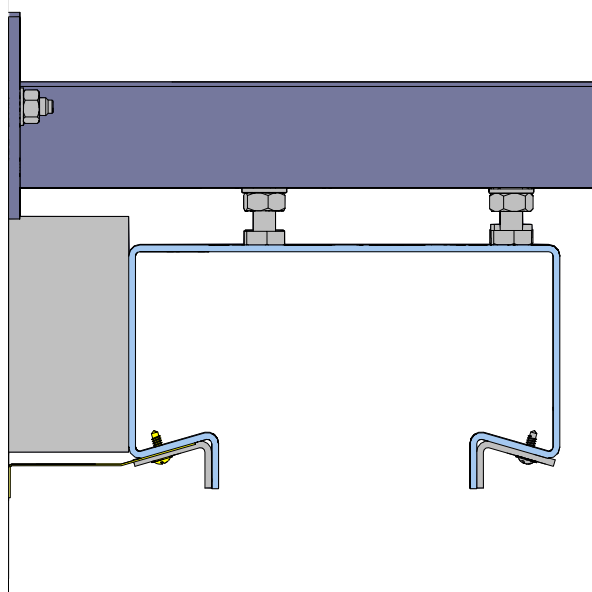
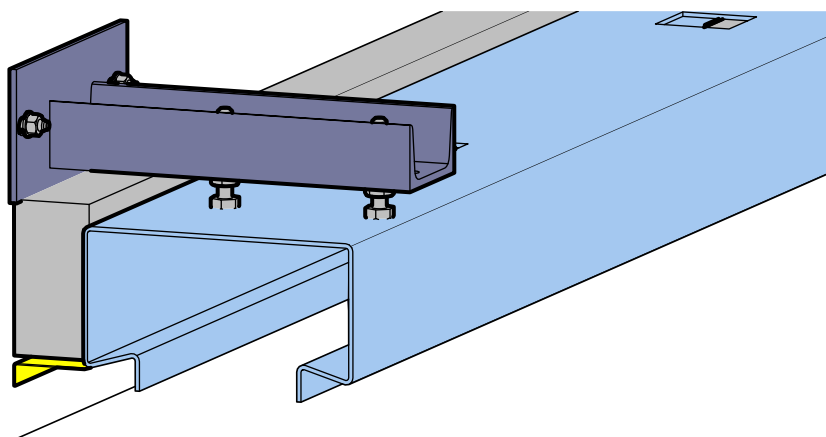
**11.3** PAY ATTENTION WHILE FIXING BOTTOM CONNECTORS. THEY ARE DIFFERENT FOR FRONT AND REAR SIDE. THEY HAVE SPECIAL PROFILED END FINISH SUITING DOOR FRAME



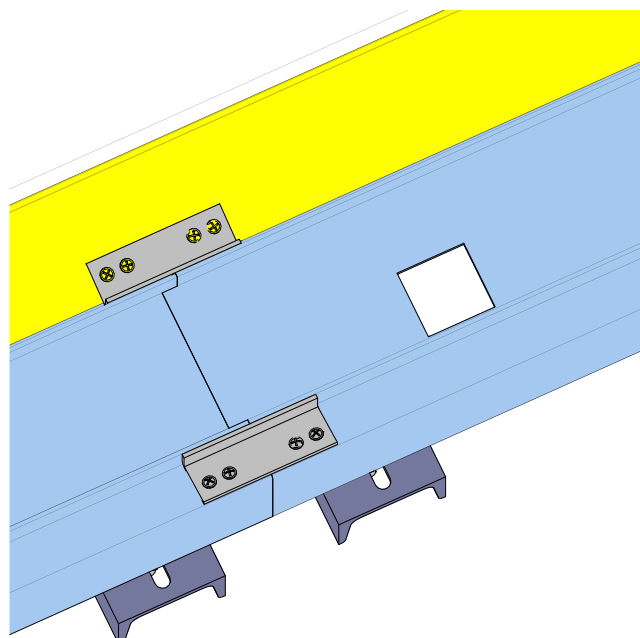
- 11.4** RAIL BRACKETETS ARE LONGER FOR GATE WITH WICKET DOOR. FILL SPACE BETWEEN WALL AND RAIL PROFILE WITH ROCKWOOL, ONLY IN WIDTH OF THE WALL OPENING



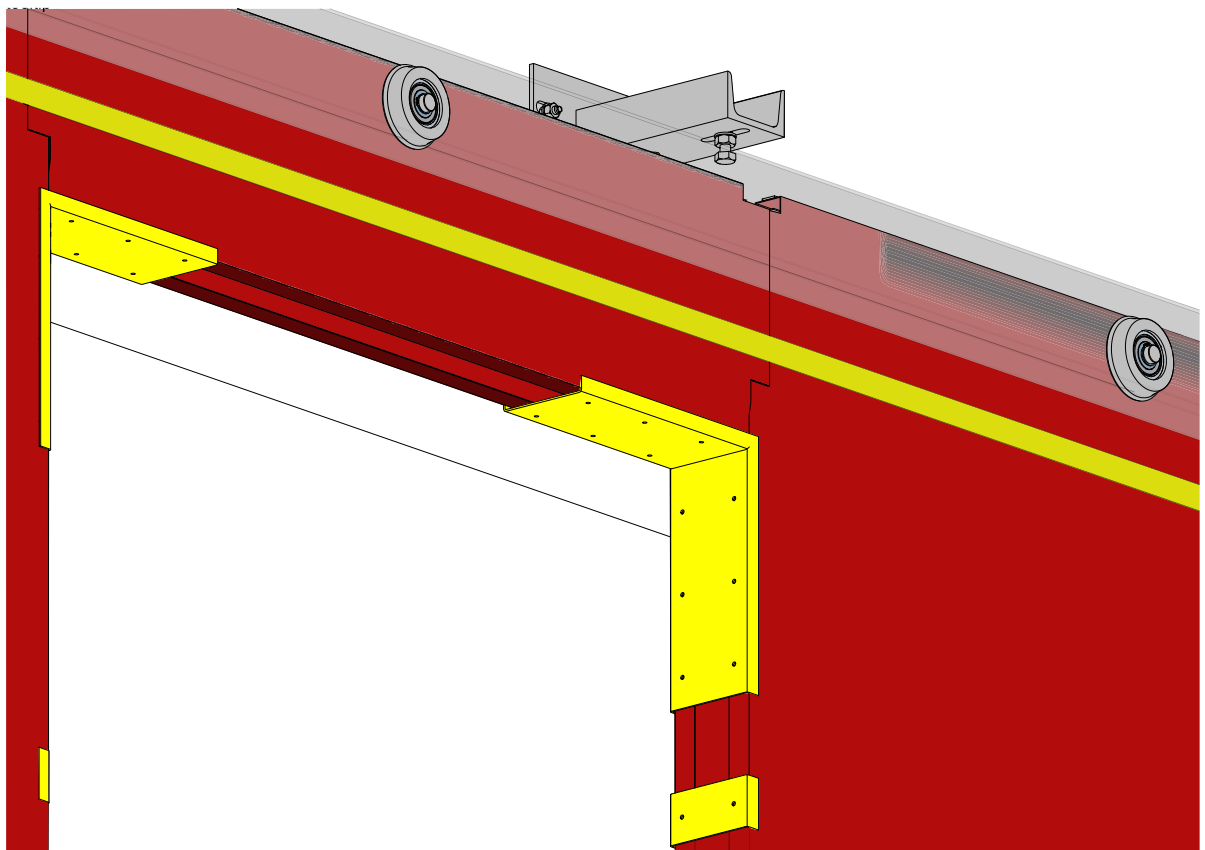
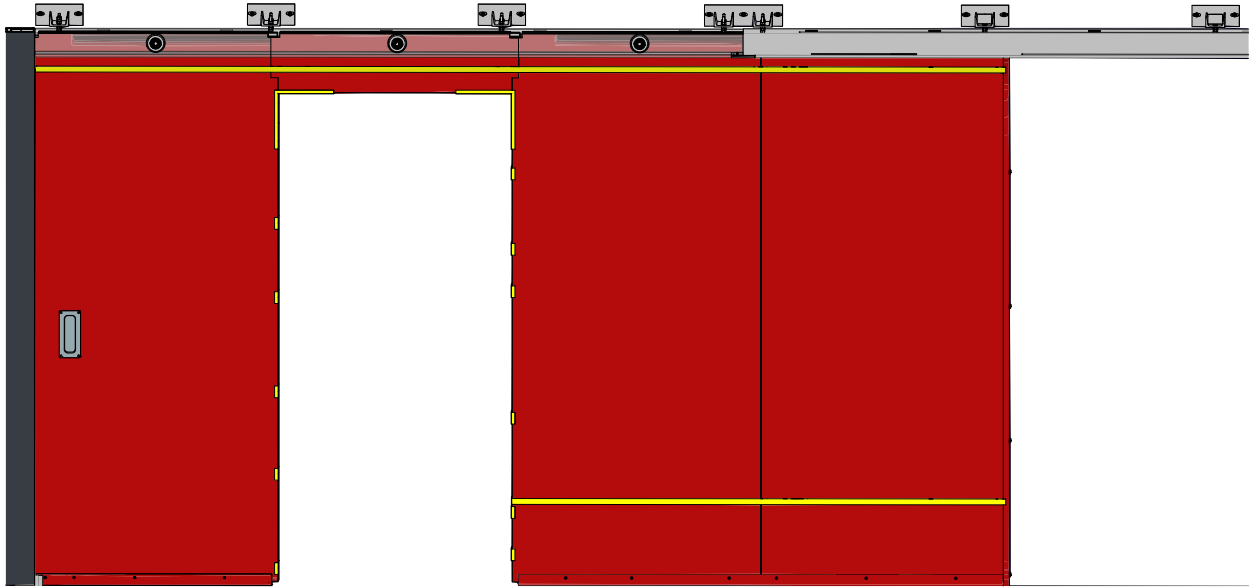
- 11.5** METHOD OF FIXING BOTTOM COVER.



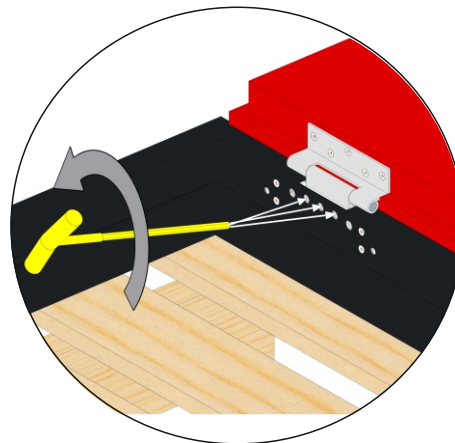
- 11.6** ALSO SEE VIEW FROM BOTTOM. KEEP IN MIND FILLING ROCKWOOL ACCORDING TO POINT 8.12



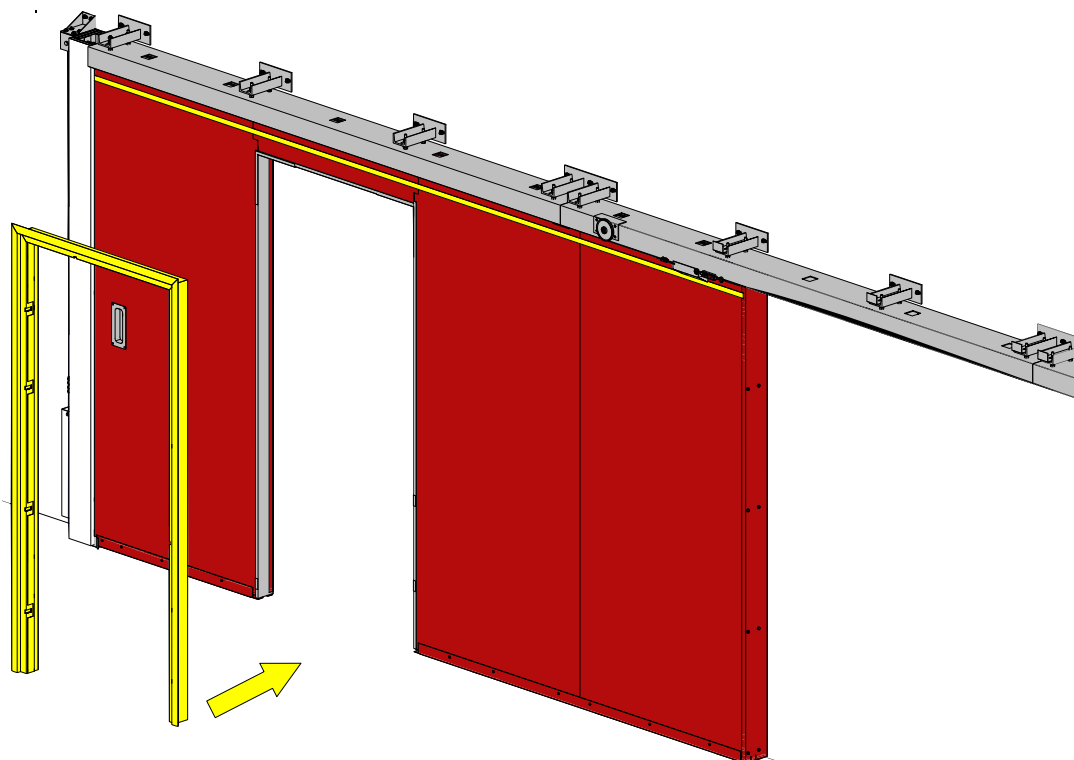
**11.6** DEFINE PLACES OF DOOR HINGES, AS EXAMPLE SEE DIN-RIGHT SIDE OF OPENING  
ON PICTURE BELOW. USE RIVIETS  $\varnothing 4$  TO FIX CORNER REINFORCEMENTS



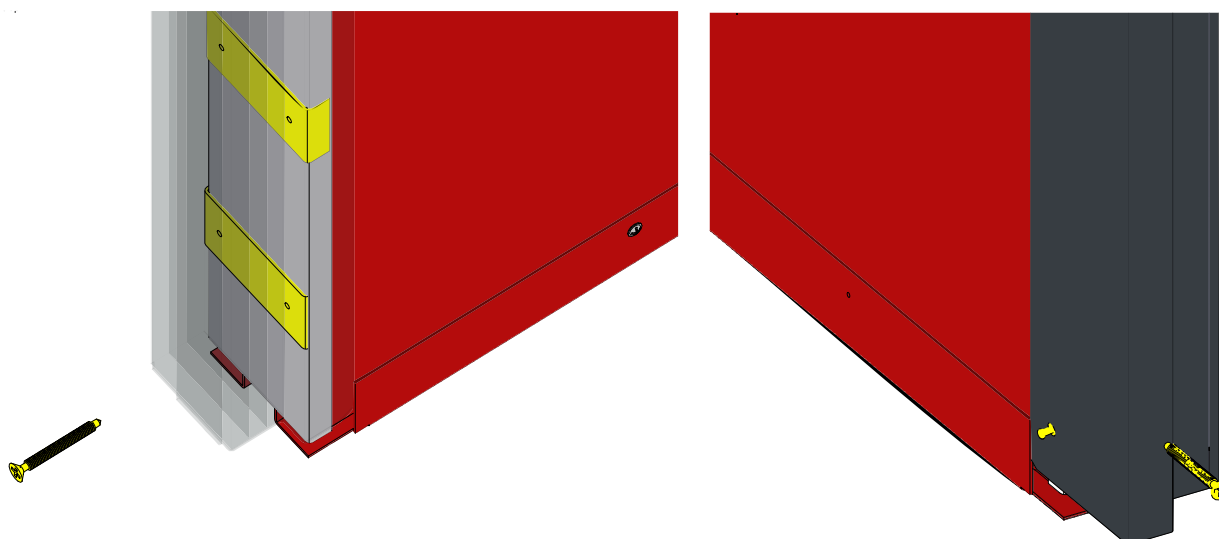
**11.7** DISMANTLING DOOR LEAF AND FRAME



**11.8** GET OPPOSITE-SIDE PART OF DOOR FRAME INSIDE OPENING

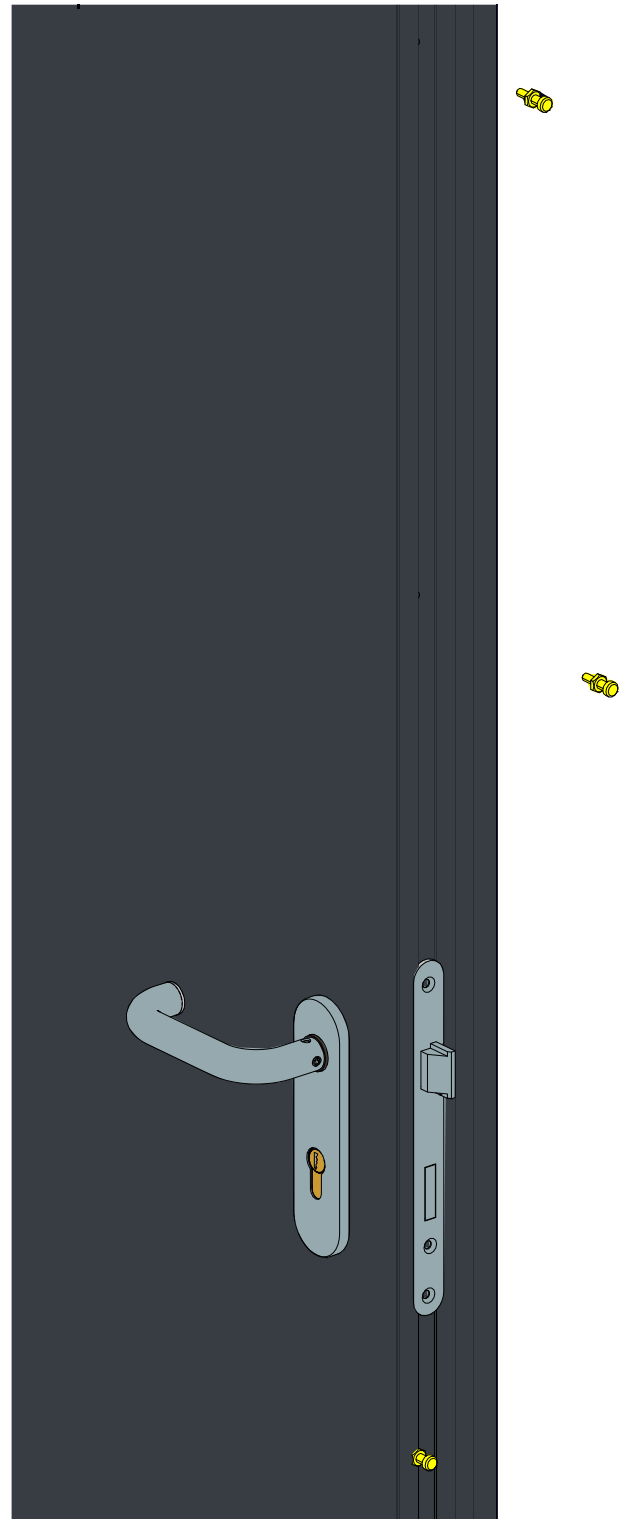
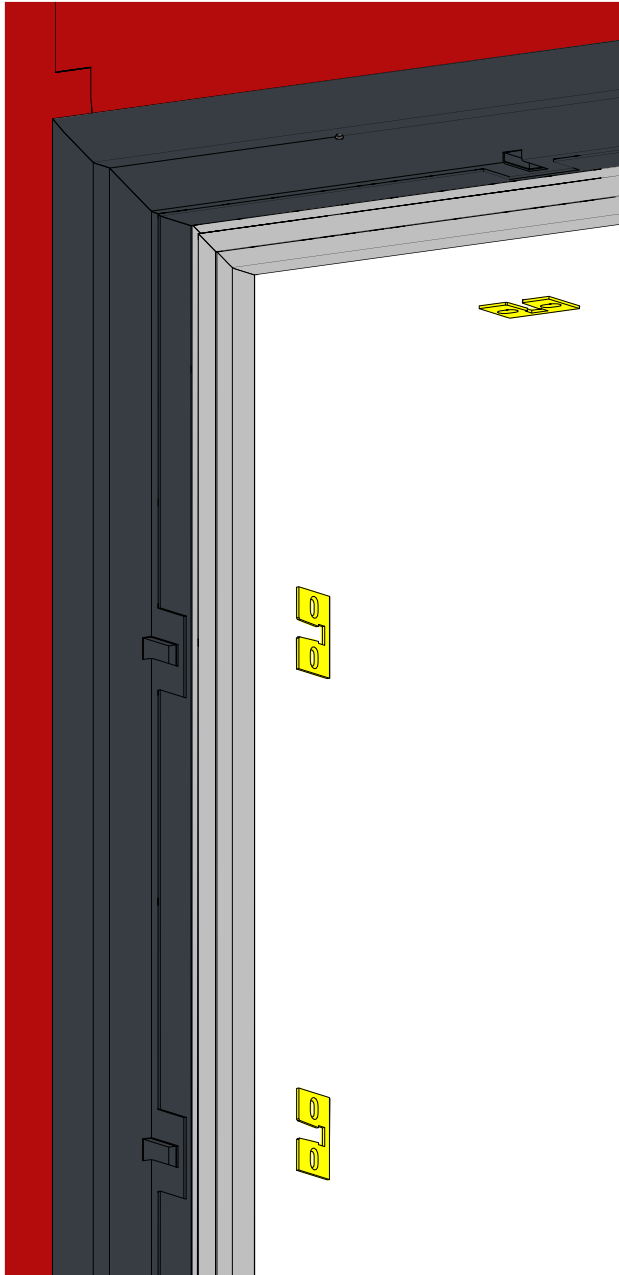


**11.9** USE SELF TAPPING SCREWS  $\varnothing 6,3 \times 60$  FOR PERIMETER FIXATION OUTSIDE OF FRAME. THEN USE RIVETS  $\varnothing 4$  TO FIX FRAME ON FRONT OF GATE LEAF.

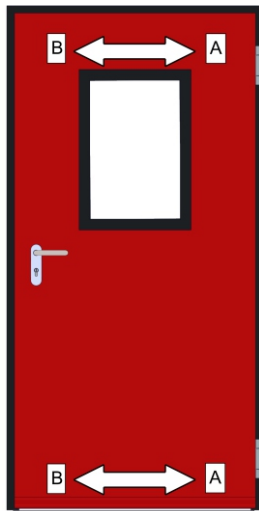
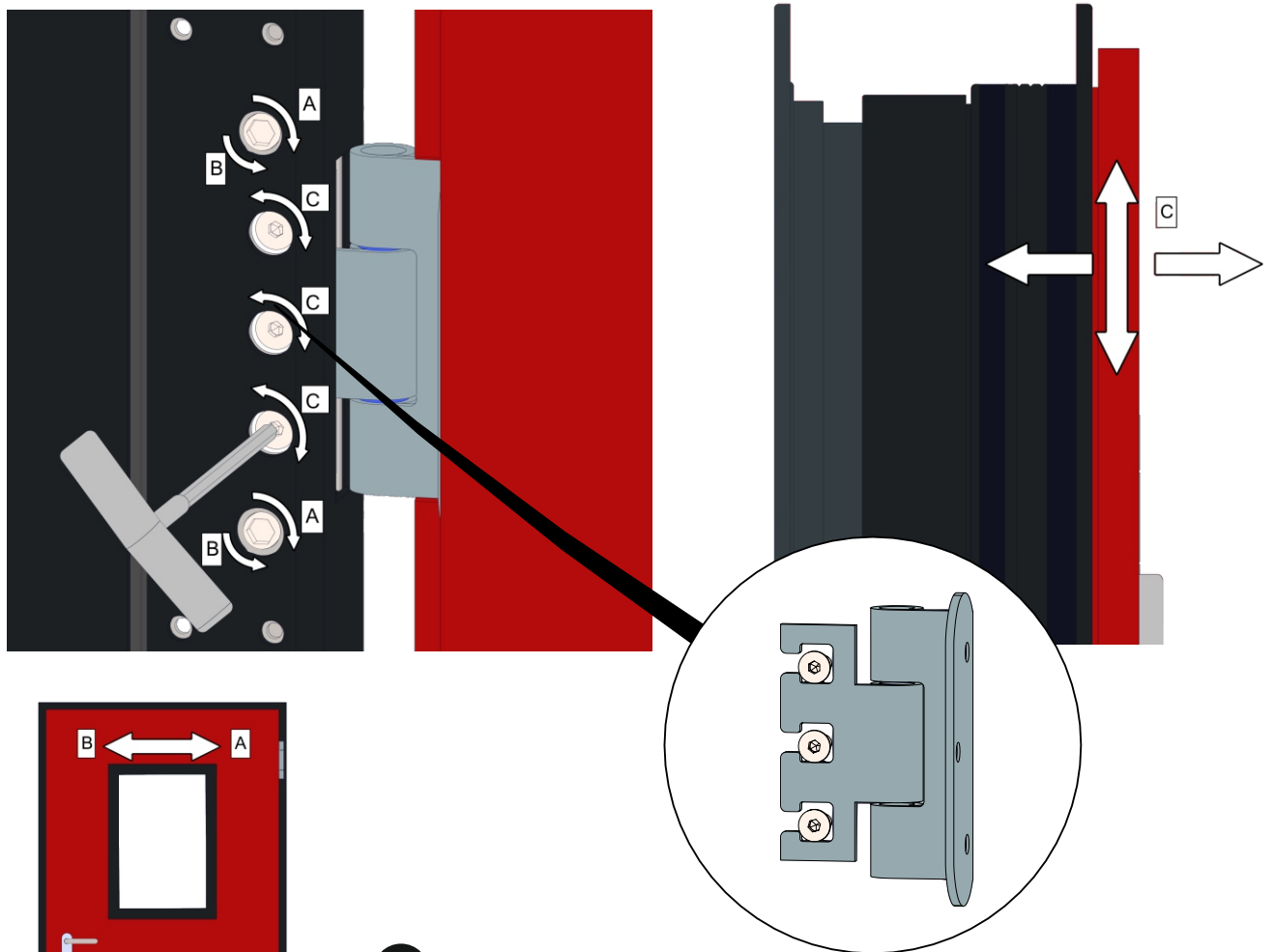


ALL FIXATION WITH SCREWS  $\varnothing 6,3 \times 60$  OBLIGATORY GO THROUGH C-REINFORCEMENTS (MARKED YELLOW)

**11.10** SCREW-IN FIRE SAFETY PINS (DOOR LEAF) AND MATCHING STRIKE PLATES (DOOR FRAME) INTO FACTORY- PREPARED RIVET NUTS. MIND THE AXES! PRIOR TO CLOSING THE DOOR, CHECK WHETHER THE SAFETY PINS ARE IN AXES WITH FRAME STRIKE PLATES AND GO IN WITHOUT FRICTIONS. ADJUST POSITIONS OF STRIKE PLATES IF NEEDED

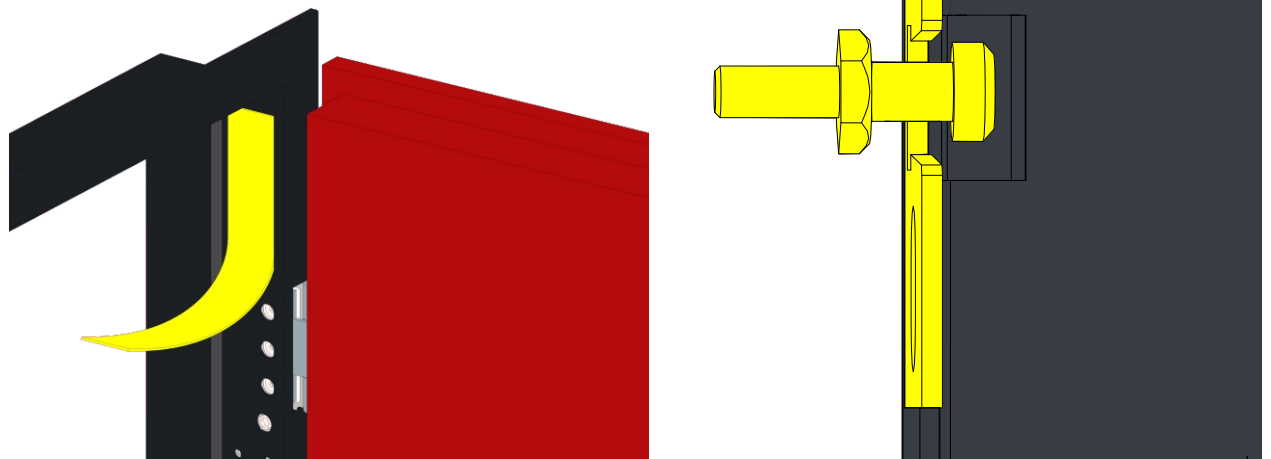


**11.11** GET LEAF INSIDE. METHOD OF ADJUSTMENT 3D HINGES. CHECK FITTING PINS AND STRIKES FROM PREVIOUS SECTION NR 11.



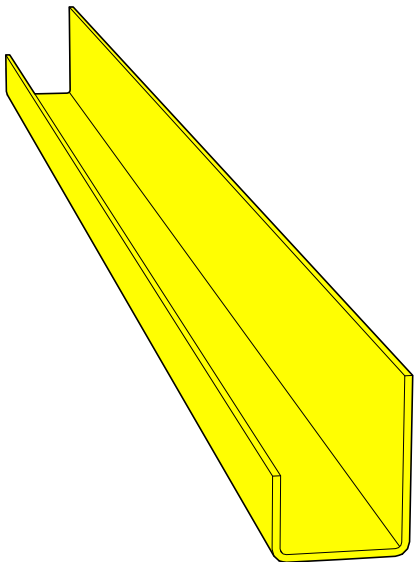
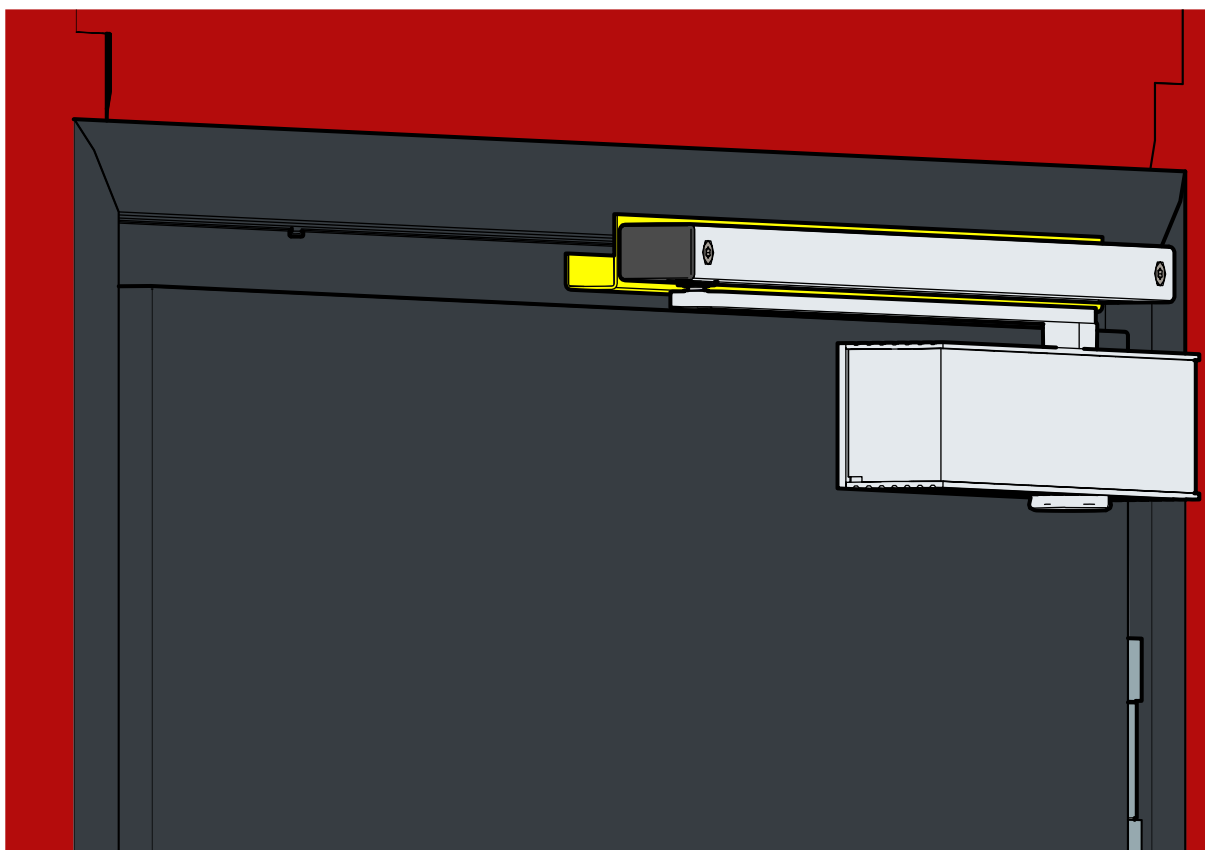
**11.12** CHECK FITTING PINS VS STRIKES (PREVIOUS SECTION NR 11.10)

**11.13** GLUEING INTUMESCENT STRIP ON PERIMETR OF FRAME



**11.14**

**USE SPACER PROFILE (MARKED YELLOW) AND FIX DOOR CLOSER DORMAKABA OR ECO SCHULTE. MOUNTING OF DOOR CLOSER ACCORDING TO PRODUCER MANUAL**





## 12 MOUNTAGE DFM SLIDING GATE INTO THE STEEL STRUCTURE. EXAMPLE CASE.

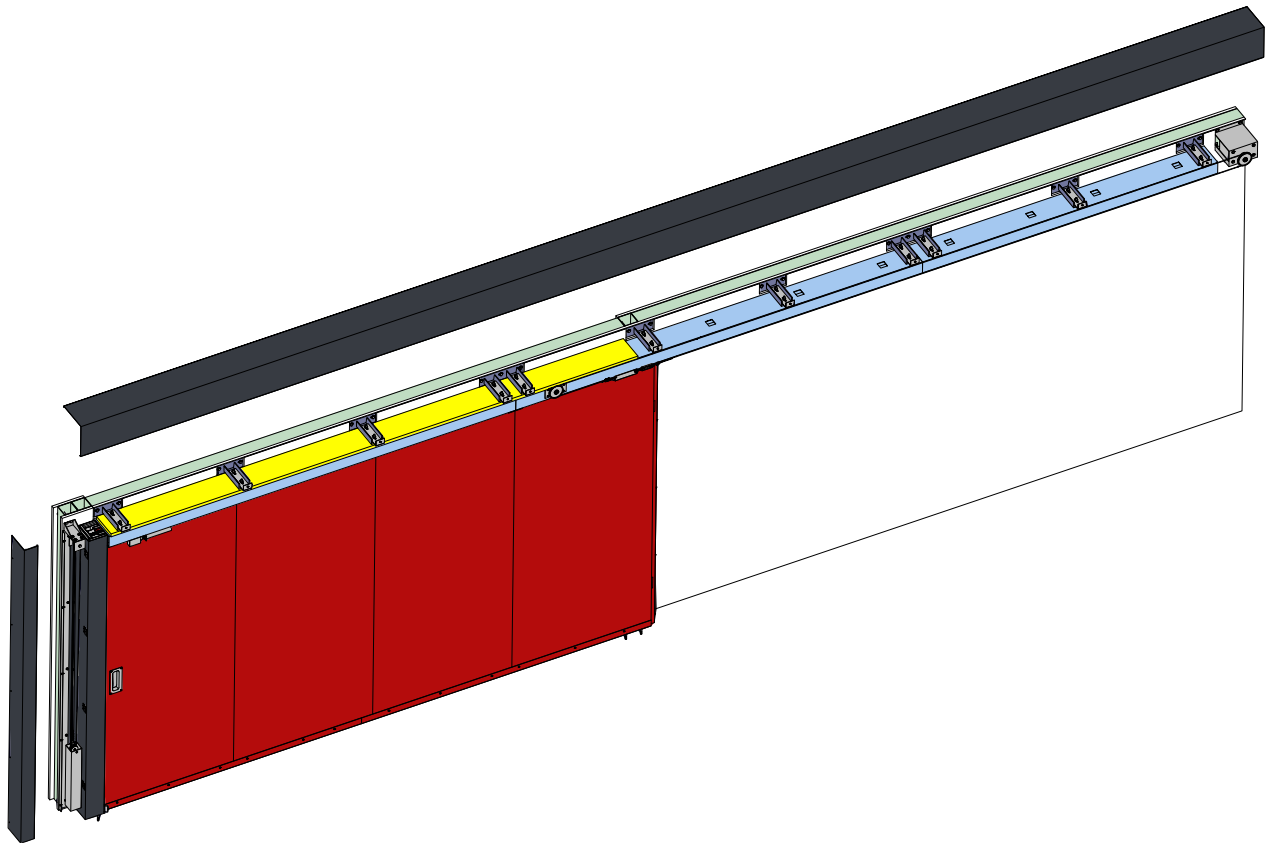
For installing into the steel structure DFM produce fireresistant sliding gates with equipment according to individual specification. General rules and parametres of installing sliding gates for steel structure are the same as for concrete wall and lintel. Below are shown only example differences.

All details of steel structure and methods of fireproof covering steel profiles should be agreed and confirmed with DFM before placing an order.

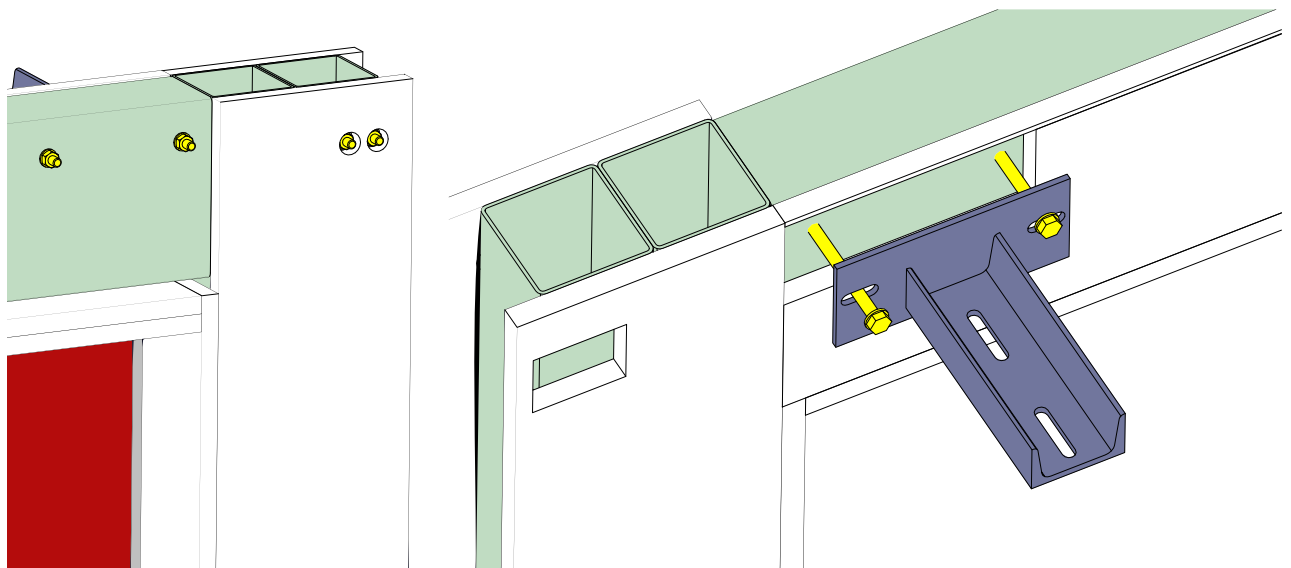
Steel structure wall should secured (load capacity, fire range REI etc.) in accordance to appropriate norms. DFM does not take responsibility for proper designing wall structure. Fire range parametres of wall should designed not less than fire range of sliding gates.

Panels weight: 33 kg/m<sup>2</sup>. The mass of the rail with the rail cover per meter of the support construction: 18 kg/lm

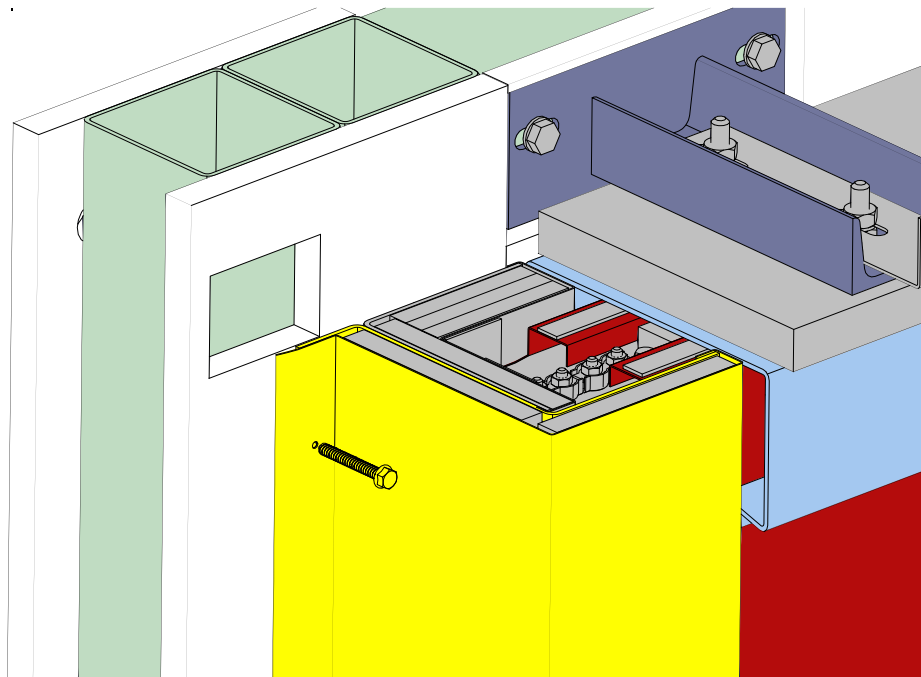
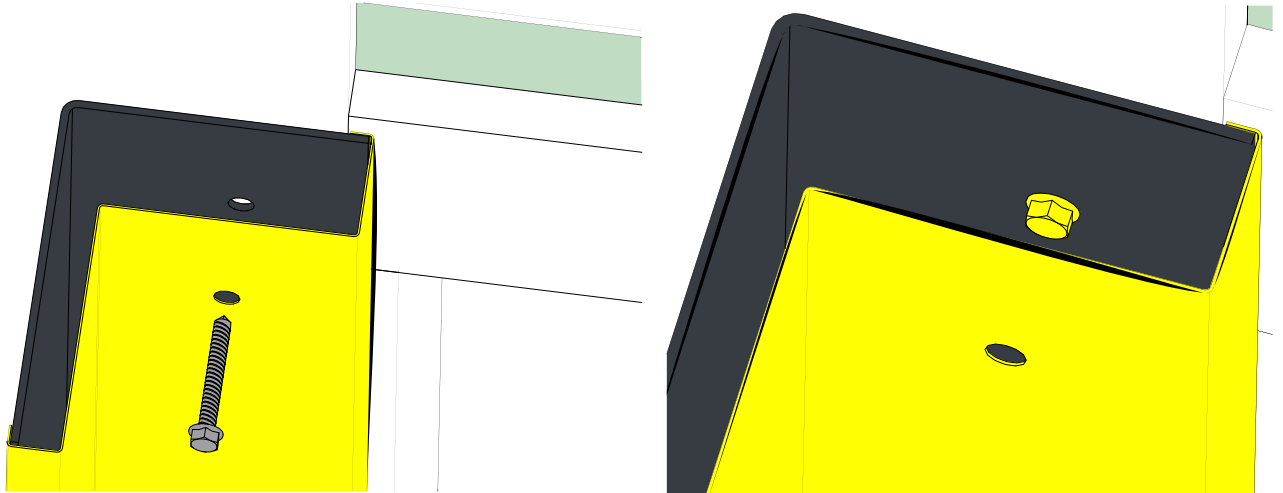
### 12.1 GENERAL VIEW



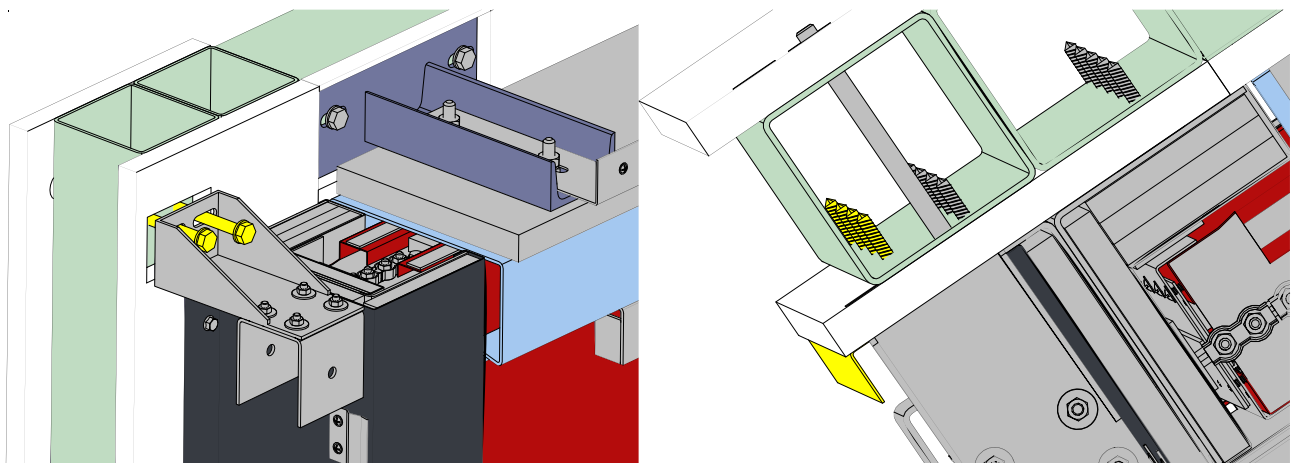
### 12.2 LONGER RAIL BRACKETS HIDDEN INTO THE FIREPROOF BOARD. USE BOLTS M10 (DIN931, MIN. CLASS 8.8) NUTS M10 AND WASHERS

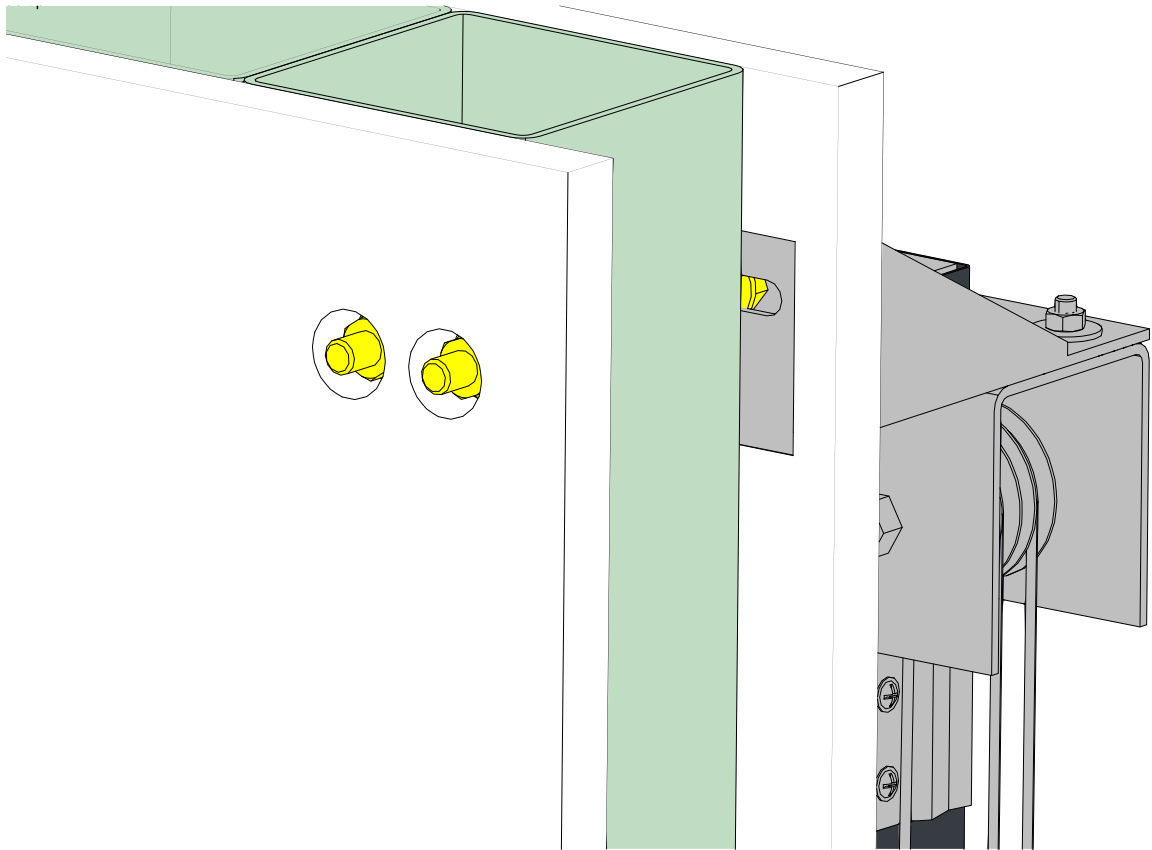


- 12.3** USE SELFDRILLING SCREWS  $\varnothing 6.3$  WITH DISTANCE MAX. 600mm TO FIX FRONT FIRE TIGHT L AND Z ELEMENTS



- 12.4** USE BOLTS, WASZERS AND NUTS M10 TO FIX COUNTERWEIGHT BRACKET





**12.5** USE BOLTS, WASZERS AND NUTS M10 TO FIX eERPZ DEVICE BRACKET

