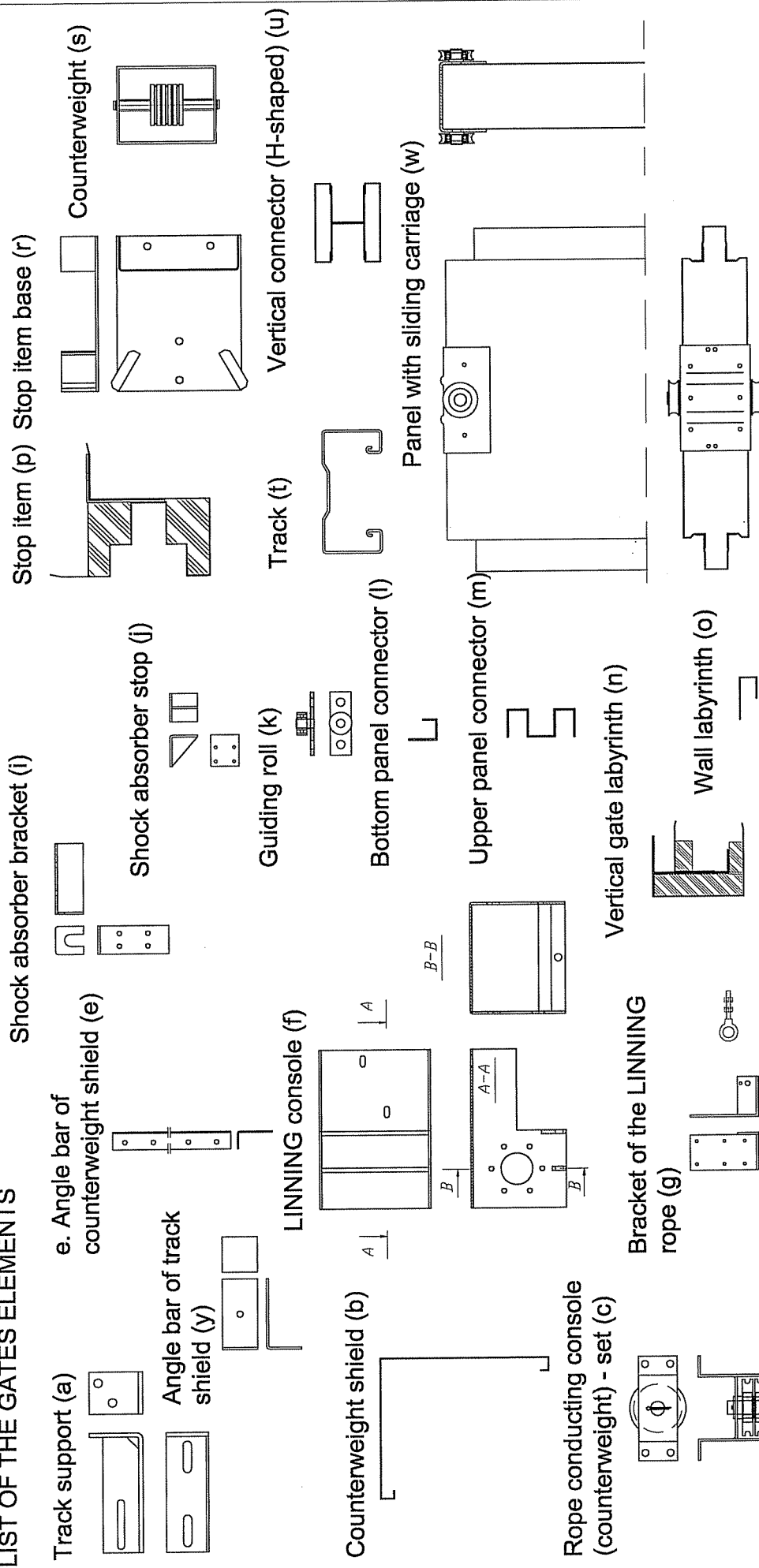
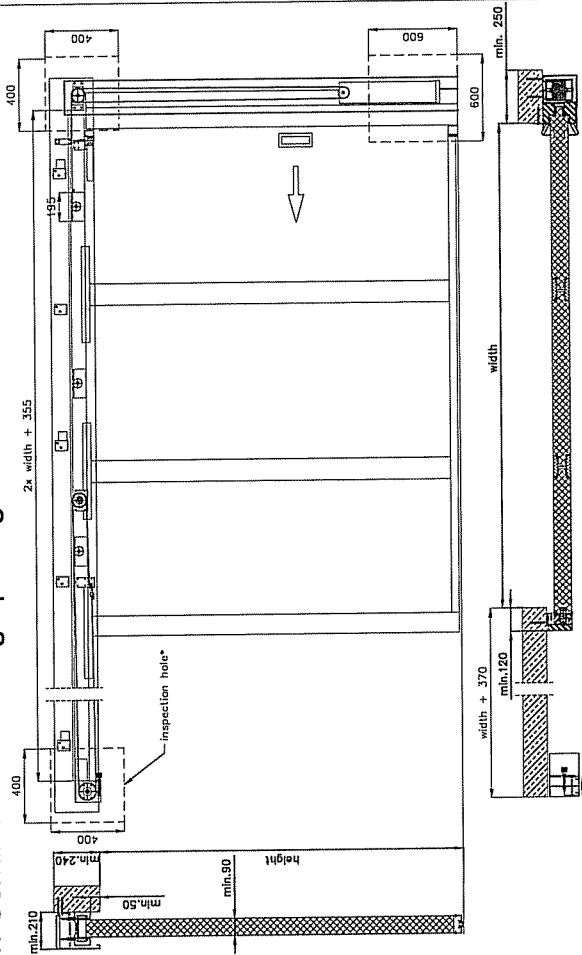


LIST OF THE GATES ELEMENTS



<p><b>LINNING controller(X1)</b></p>	<p><b>Fasteners and accessories</b></p> <ul style="list-style-type: none"> <li>E1 An expanding gasket 2x20</li> <li>E2 A steel rope <math>\phi</math>3</li> <li>E3 A set of rope clamps</li> <li>E4 A set of screws M10x70</li> <li>E5 A set of nuts M10</li> <li>E6 A set of washers for screws M10</li> <li>E7 A set of screws M12x40</li> <li>E8 A set of washers for screws M12</li> <li>E9 A set of screws M6x22</li> <li>E10 A set of nuts M6</li> </ul>
<p><b>Shock absorber (X2)</b></p>	<p><b>Fasteners and accessories</b></p> <ul style="list-style-type: none"> <li>E11 A set of washers for screws M6</li> <li>E12 A set of screws M8x20</li> <li>E13 A set of nuts M8</li> <li>E14 A set of washers for screws M8</li> <li>E15 A set of self-drilling screws <math>\phi</math>4, 2x13</li> <li>E16 A set of self-drilling screws <math>\phi</math>4, 2x19</li> <li>E17 A set of self-drilling screws <math>\phi</math>6, 3x63</li> </ul> <p>NOTE: The manufacturer does not provide steel anchors <math>\phi</math>10 (E18) - suitable type of fastening should be bought depending on the type of the base.</p> <p>OPTIONAL: - Contact reader with a set of assembly elements</p>

### 1. Conditions of building-up the gate

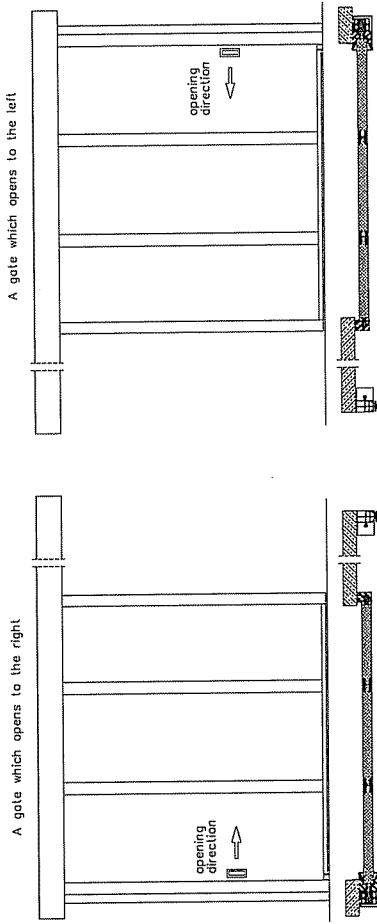


Unpack and identify the elements to be assembled. Check if the dimensions of the items delivered comply with the holes dimensions:

- height of panels and vertical connectors = hole height + 100 mm
- track length = hole width x 2 + 355 mm
- stop item height = hole height + 40 mm

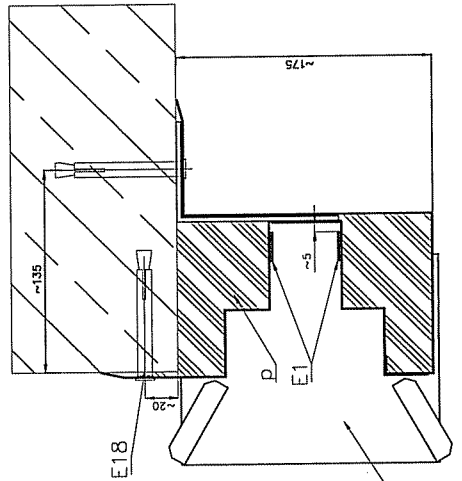
\*. In case of building-up the gate by gypsum-carton boards, make three inspection holes enabling access to the adjusted elements

### 2. Opening directions

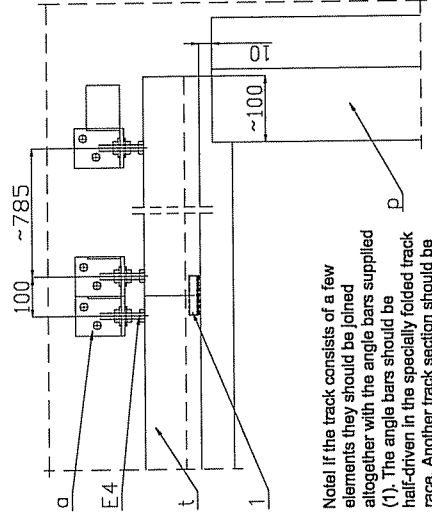


### 3. Stop item installation

Before starting installation measure floor level - floor level shall not have more than 10 mm deviation. Start the installation by locating the stop item (p) on the floor. For gates which open to the right the stop item should be located on the left side of the hole whereas for gates which open to the left - on the right of the hole. The stop item base (r) should be located on the floor level. Fix it to the wall with steel anchors Ø10 (E18). Stick the expanding gasket 2x20 mm (E1) on the entire height of the stop item (on both sides).



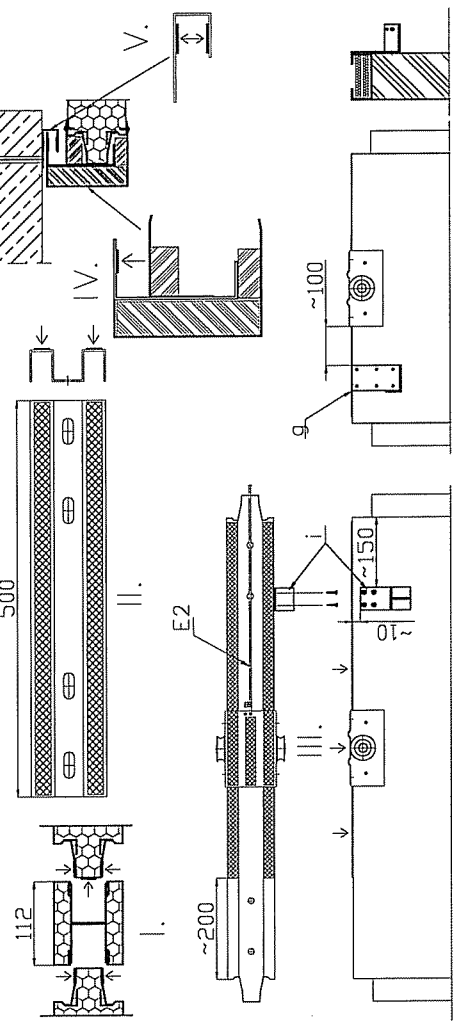
### 4. Track installation



Note! If the track consists of a few elements they should be joined altogether with the angle bars supplied (t). The angle bars should be half-driven in the specially folded track race. Another track section should be mounted on the other protruding half of the angle bars.

The truck (t) should be hung with the truck supports (a) by using pins M10x70 (E4, E5, E6). Exact level of the track supports (a) should be determined in the following way: provide distance ~10mm between the stop item (p) and the track (t), mark the places of drilling for track supports (a) assembly keeping the distance between the nuts (ca. 20 mm) and then fix to the lintel by using steel anchors Ø10 (E18). Use the distance between the nuts in order to level the track properly.

### 5. Preparing the panels + sticking the gaskets

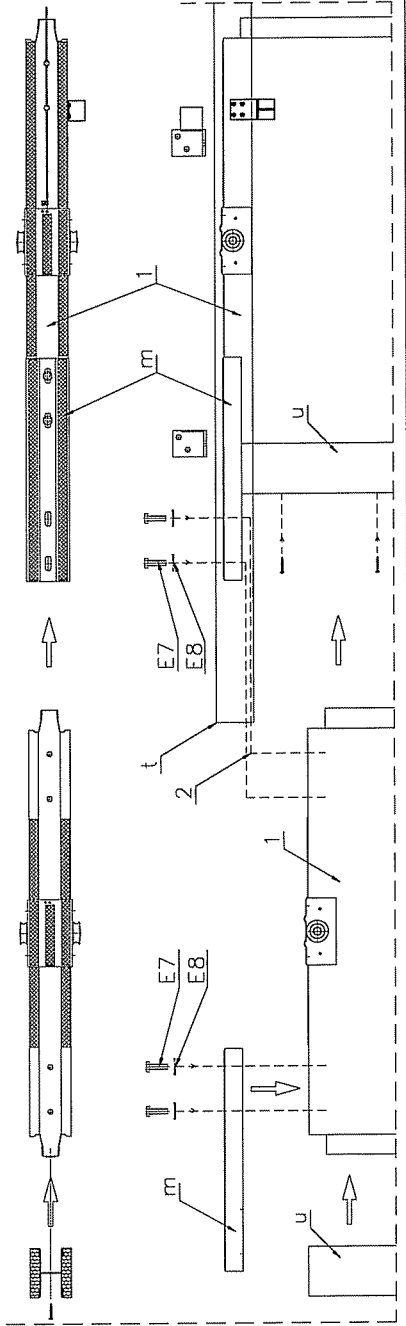


Prior to the panels installation stick expanding gaskets 2x20 mm (E1) to all cooperating elements:

- I. Edges of panels at the place of joining by H-shape vertical connector (w) - 5 gasket rows
- II. Upper panel connector (m) - 2 gasket rows
- III. Panel and sliding carriage (w) - 7 gasket rows
- IV. Gate vertical labyrinth (n) - 1 gasket row
- V. Wall vertical labyrinth (o) - 2 gasket rows

Fasten the 3 mm thick steel rope (E2) to the sliding carriage of the first panel by using two clamps and screw / rivet the shock absorber bracket (l) to the first panel.  
The bracket of the Lining rope (g) should be screwed / riveted to the last panel.

### 6. Connecting the panels and installation on the track

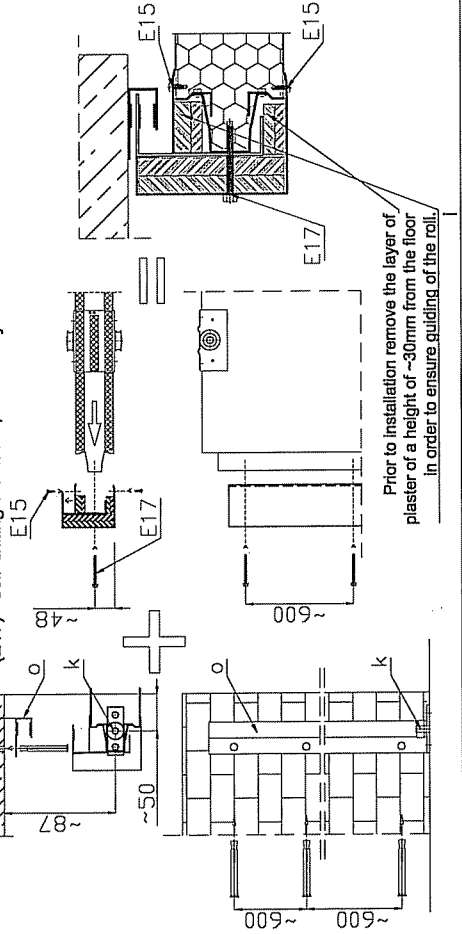


### 7. Gate and wall labyrinth installation

Before the last panel is screwed mount the guiding roll (k) and the wall vertical labyrinth (o) by using steel anchors Ø10 (E18). The specified dimensions are approximate. To determine actual dimensions install the last panel and gate labyrinth (without screwing) and revise the dimensions (determine position of the guiding roll).

Before starting to hang the last panel screw the labyrinth to the panel by using self-drilling screws:

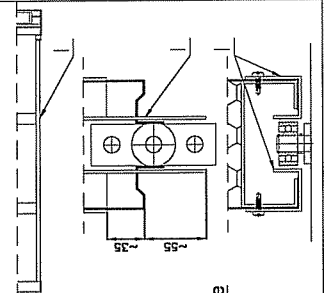
- (E15) - self-drilling screw Ø4,2x13 every 250 mm
- (E17) - self-drilling screw Ø6,3x63 every 600 mm



Prior to installation remove the layer of plaster of a height of ~30mm from the floor in order to ensure guiding of the roll.

### 8. The bottom panel connectors installation

Having the last panel installed, fasten bottom panel connectors (l) on both side with self-drilling screw Ø4,2x19 every 500 mm.



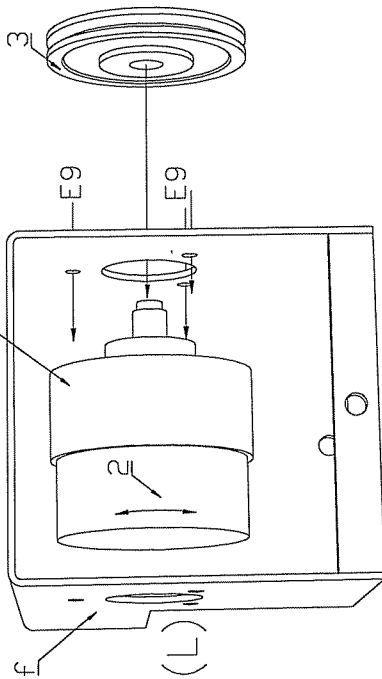
The panels installation should be started with screwing the upper connector (m) to the first panel (1) with M12x40 screws (E7, E8) and then putting the so prepared panel on the track (t). Put a vertical connector (H-shape section) (u) up the hanging panel, press another panel (2) and screw through the holes in the track with the upper connector by using M12x40 (E7, E8) screws.  
Repeat this process until penultimate element is screwed.

Go to point 7.

Caution! Before screwing bottom panel connectors (l), make panels tight with transport belt, be aware not to curving the whole gate.

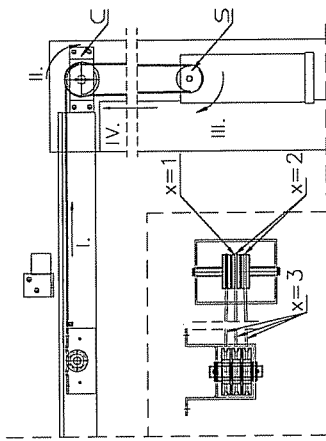
### 9. LINNING Controller installation

Install the LINNING controller (X1) in the Lining console (f) so that you can screw it with three M6x22 screws (E9). After the gate installation, it is recommended to adjust the closing speed through proper tightening of the rear part of the controller (2).



The drawing shows the gate that opens to the left. For the gates that open to the right, install the shaft through the opening on the left side of the Lining console (f). Install the roll (3) in such a way that it does not lock in the direction of the gate closing (see Section 11). If you need to change direction of the Lining controller locking change the orientation of the pulley on the shaft (reverse it).

### 10. Counterweight cable leading



Fasten the rope conducting console (counterweight) (c) to the wall with steel anchors Ø 10 (E18).

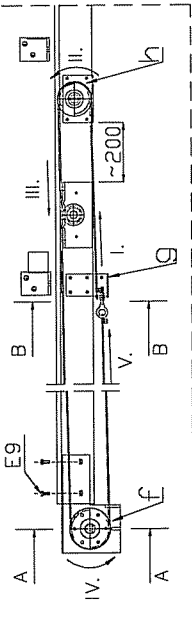
The steel rope should be led as follows:

- i. from the first panel carriage
- ii. rope conducting console (counterweight) (c)
- iii. through the counterweight (s)

Note! Adjust the number of interlaces on the console and counterweight rollers respectively to the gate dimensions, i.e.  $x = S \text{ [mm]} / (H - 500) \text{ [mm]}$ , rounding up.

IV. Fasten the end of the steel rope with a clamp a free roller of counterweight or console.

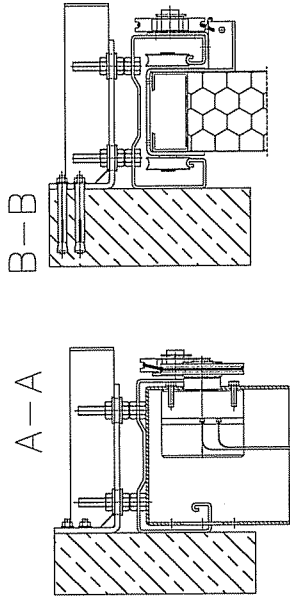
### 11. Lining steel rope leading



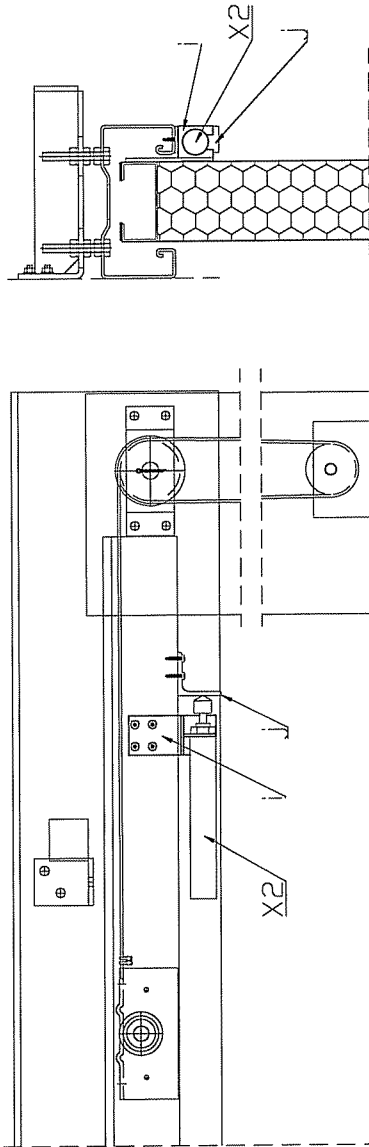
The Lining console (f) and Lining controller (X1) should be screwed at the end of the track with M6x22 with nuts (E9, E10, E11). Then, the return Lining console (h) should be fastened with rivets to the track at the height of the last gate panel. The steel rope (E2) should be led as follows:

- I. Install the rope in bracket of the Lining console (g) with clamps which are delivered.
- II. Lead the rope through return Lining console (h)
- III. Lead the rope to the Lining.
- IV. Lead the rope through the Lining console (f)

V. The end of the steel rope should be fastened to the M6 screw with a lug by using the clamps. Then, the screw should be screwed in the bracket (g) and the rope should be tensioned. When the rope is tensioned the M6 screw should be secured against unscrewing with a nut.



### 12. Shock absorber installation

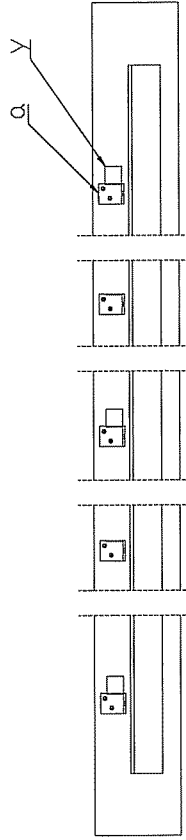
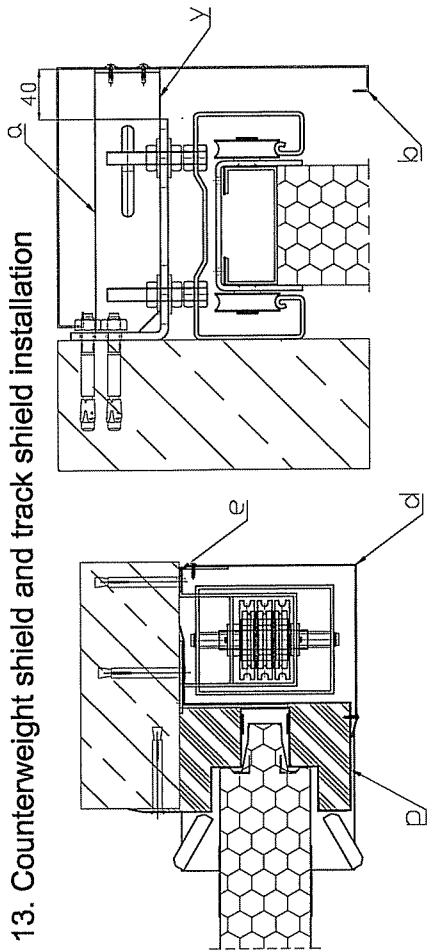


Fasten shock absorber (X2) in shock absorber bracket (i). Measure the place where the shock absorber stop (j) should be fasten, the shock absorber should be completely pushed when the gate is closed. The shock absorber stop (j) fasten with self-drilling sheet-metal screw Ø4,2 (E15/E16). To adjust the shock absorber let the piston go out then rotate it clockwise or counter clockwise depending whether one wants to make it harder or softer.

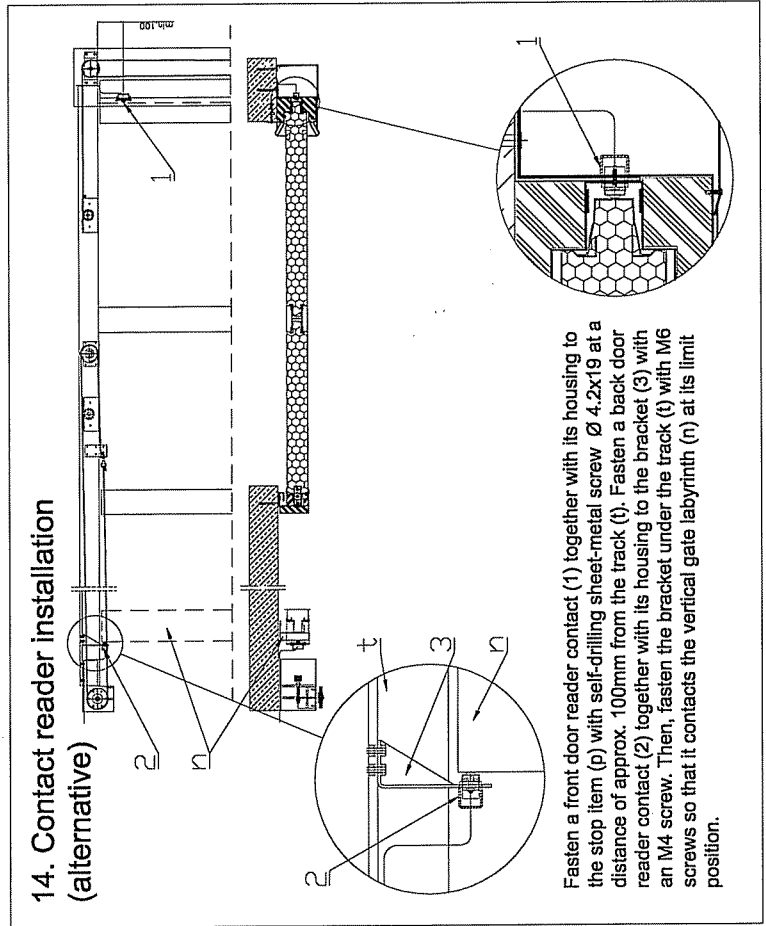
13. Counterweight shield and track shield installation

Fasten angle bar of counterweight brackets (e) to the wall with steel anchors  $\varnothing 10$  (E18). Next fasten the counterweight shield (d) to angle bar of counterweight brackets (e) and stop item (p) with self-drilling screw  $\varnothing 4,2 \times 13$  (E15) every 250 mm.

In order to install the cover of track (b), fasten angle bar of track shield (y) to every other track support (a) with screws M8x20 (E12) - the distance between an angle bar of track shield (y) and a track support (a) should be 40[mm].



14. Contact reader installation (alternative)



Fasten a front door reader contact (1) together with its housing to the stop item (p) with self-drilling sheet-metal screw  $\varnothing 4,2 \times 19$  at a distance of approx. 100mm from the track (t). Fasten a back door reader contact (2) together with its housing to the bracket (3) with an M4 screw. Then, fasten the bracket under the track (t) with M6 screws so that it contacts the vertical gate labyrinth (n) at its limit position.