TLB sliding gate

Assembly manual of TLB gate

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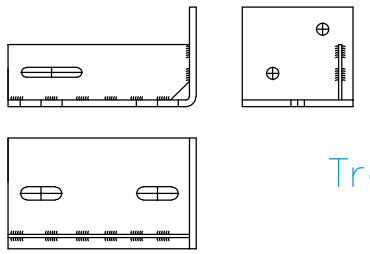
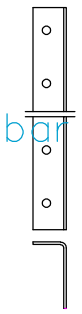
GATE COMPONENT LIST

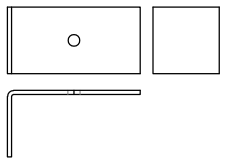
Track bracket (a)



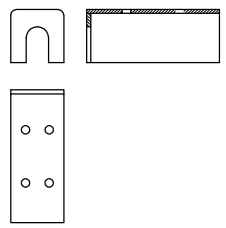
Cpunterweight shield angle bar (e)



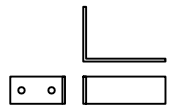
Track shield angle bar (y)



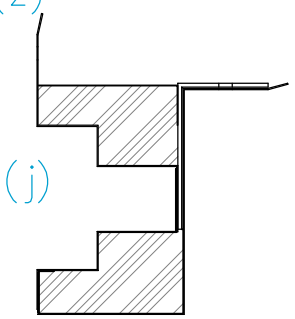
Shock absorber brakcet (i)



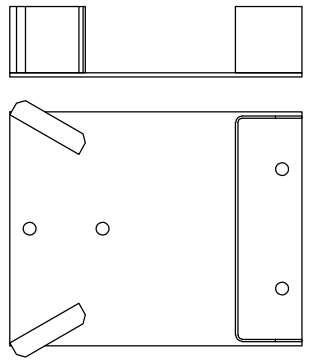
Track angle bar (z)



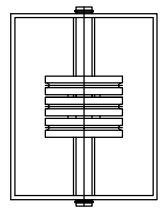
Edging(p)



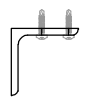
Loading ramp (r)



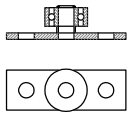
Counterweight (s)



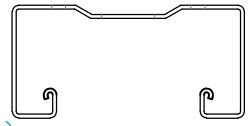
Shock absorber bumper (j)



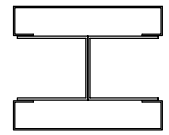
Guiding roll (k)



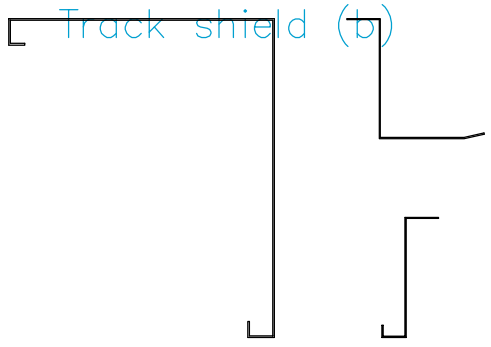
Track (t)



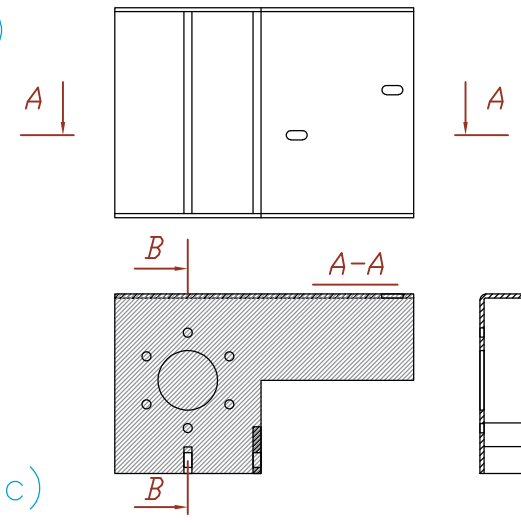
H– profile (which connect panels) (u)



Osłona toru jezdnego (b)
Track shield (b)

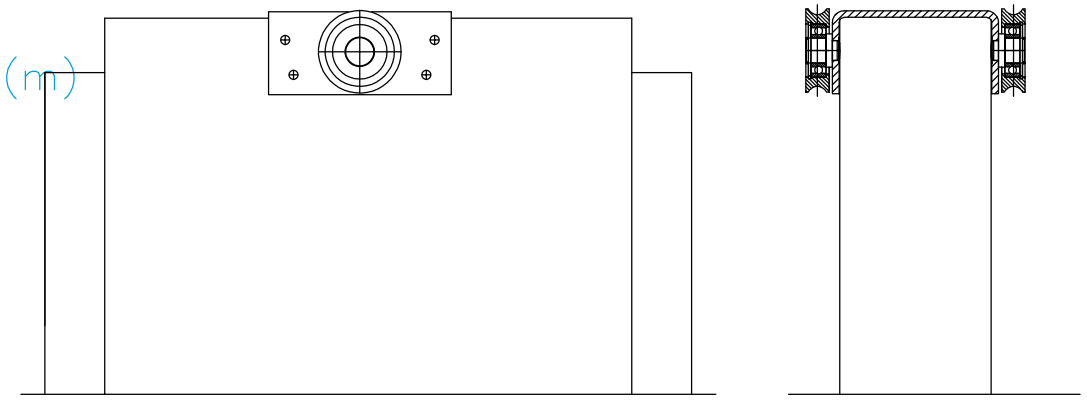


LINING console (f)

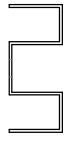


Bottom panel connector (l)

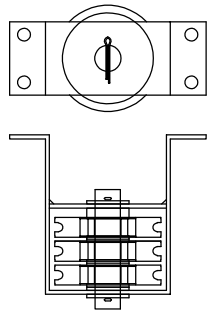
Track panel (w)



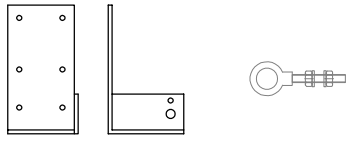
Upper panel connector (m)



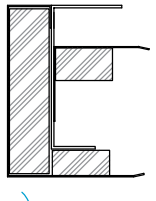
Rope conducting console (counterweight) – set (c)



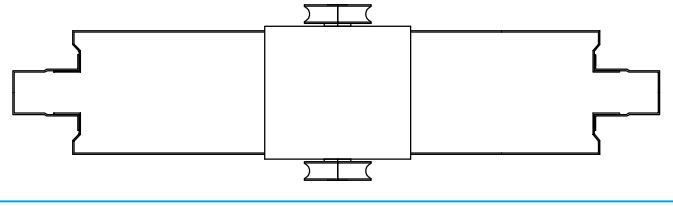
LINING rope bracket (g)



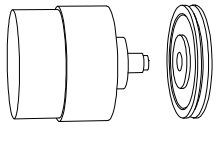
Vertical gate abyrinth (n)



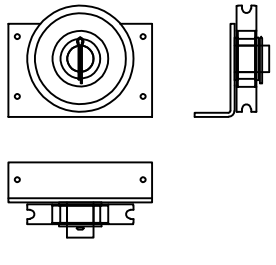
Wall labyrinth (o)



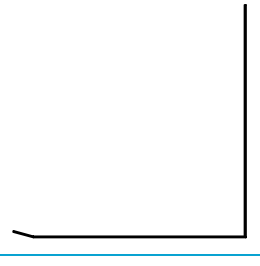
LINNING controller (x1)



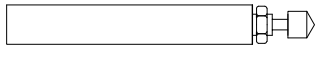
LINING return console – set (h)



Counterweight shield (d)



Shock absorber (x1)



Fasteners and accessories

E1 Expanded gasket 2x20
E2 Steel rope ø3
E3 A set of clamps forthe rope
E4 A set of screws M10x70
E5 A set of nuts M10
E6 A set of washers for screws M10
E7 A set of screws M12x40
E8 A set of washers for screws M12
E9 A set of screws M6x22
E10 A set of nuts M6
E11 A set of washers for screws M6
E12 A set of screws M8x20
E13 A set of nuts M8
E14 A set of washers for screws M8
E15 aA set of sheet metal screws ø4,2x13
E16 A set of sheet metal screws ø4,2x19
E17 A set of sheet metal screws ø6,3x63

NOTE: The manufacturer does not provide steel anchors of size ø10 (E18).
Suitable kind of fixing should be bought depending on kind of base surface.
OPTIONAL:
–Reed relay with a set of assembly elements

Brama przesuwna TLB

Assembly manual of TLB gate

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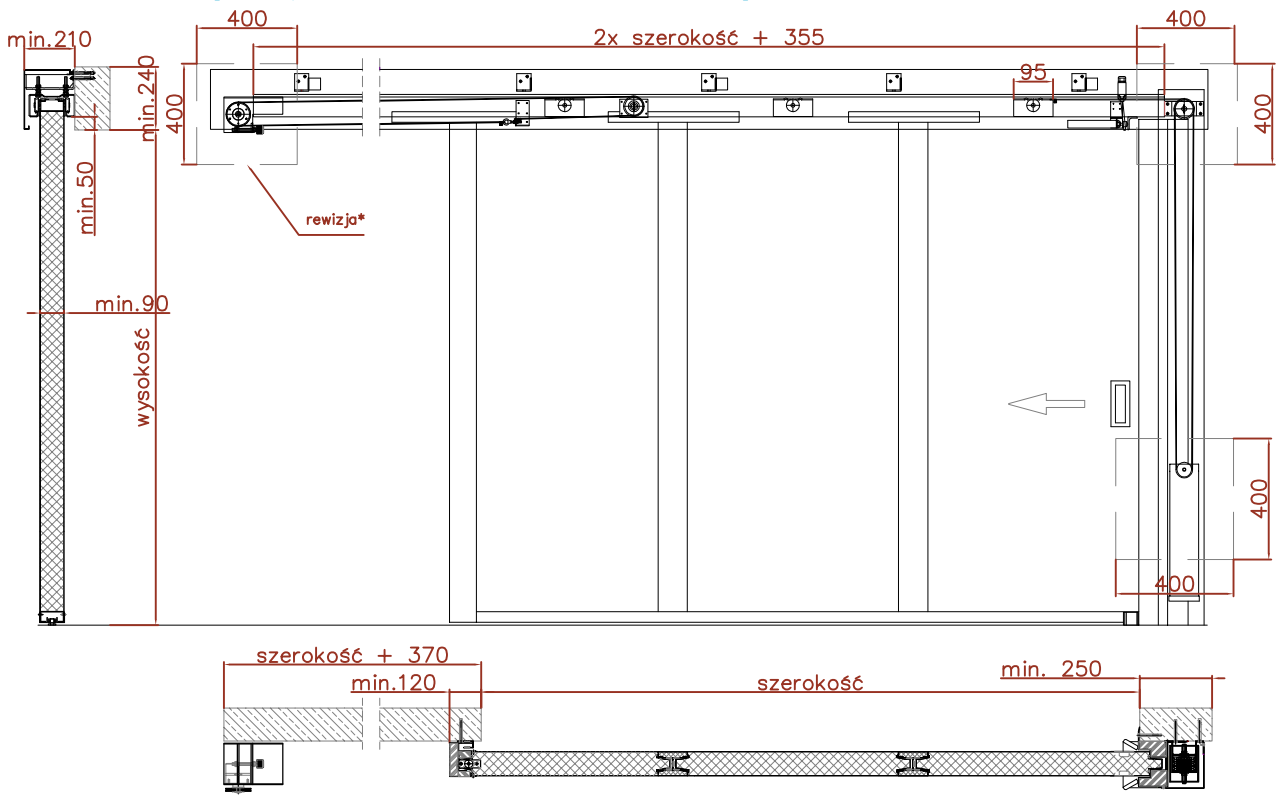
1. Building–up conditions of the gate



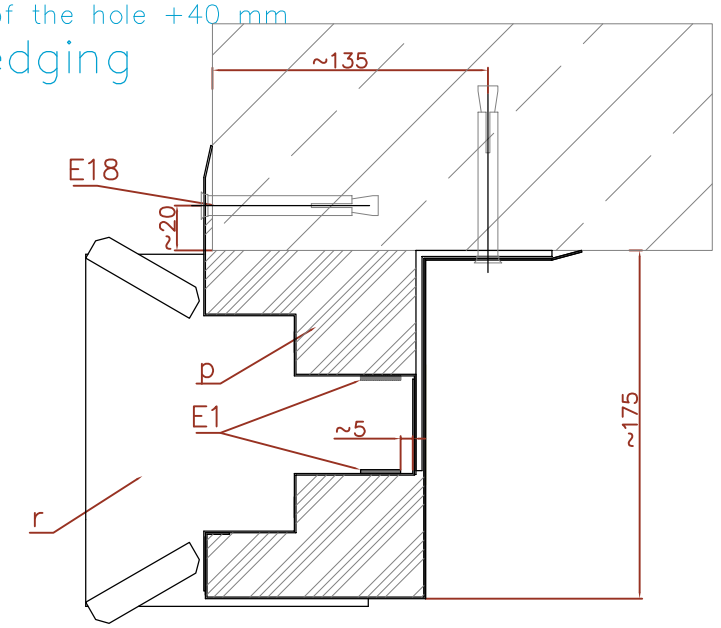
Unpack and identify all of the elements that have to be assembled. Check if the dimensions of delivered elements fit into the holes:

- height of the panels and H–profiles + height of the hole +100 mm
- length of the track = width of the holes x 2 +355 mm
- height of the edging = height of the hole +40 mm

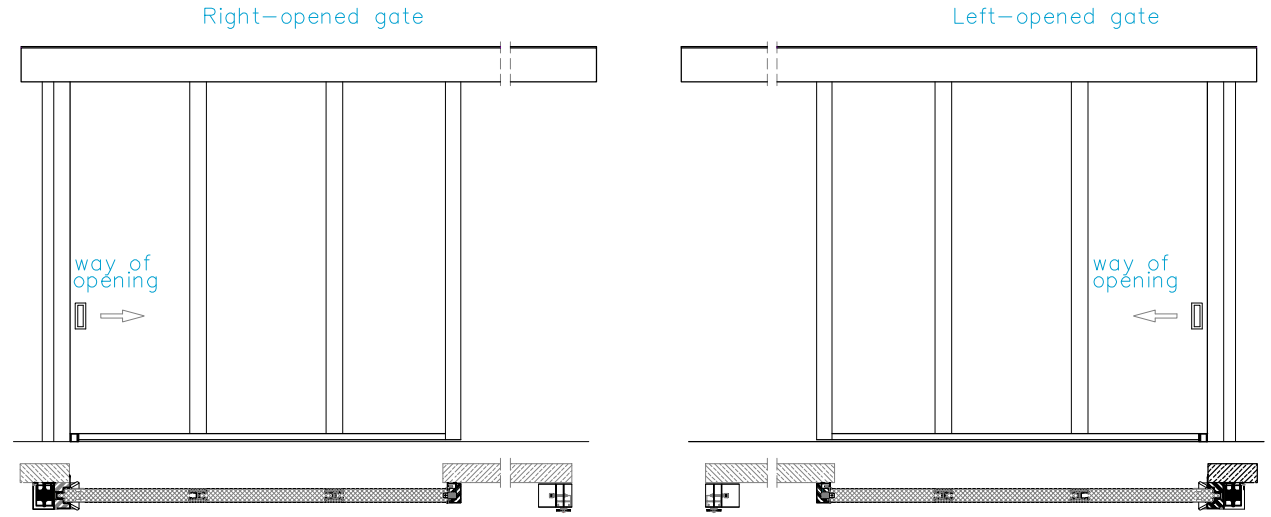
*In case of building up the gate with gypsum – carbon boards ,3 inspection holes, enabling access to the elements, should be made

3.Installation of the edging

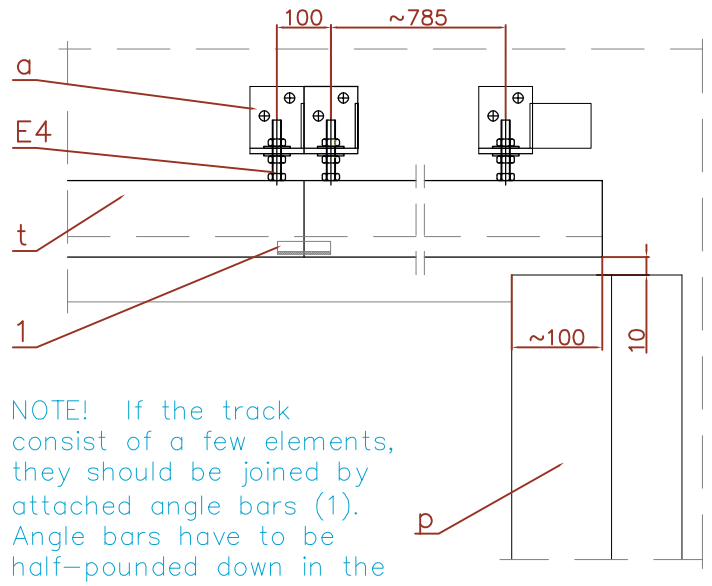
Before starting the installation, measure floor level – maximal deviation from the floor level could be 10 mm.
Start mounting from installation and setting the edging (w) on the floor. You should set the edging on the left for gates that opens to the right, on the right for gates that opens to the left. Put the loading ramp (z) on the floor, under the edging. Clamp the loading ramp (z) and the edging by using steel anchors ø10 (E18). Stick the expanded gasket 2x20 mm (E1)on the whole height of the edging (both sides)



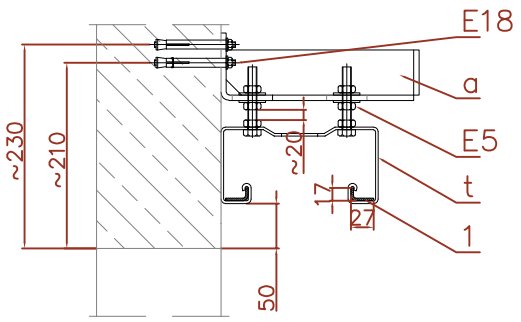
2. ways of gate opening

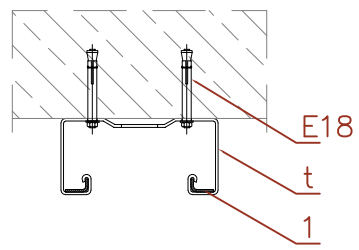


4. Installation of the track



NOTE! If the track consist of a few elements, they should be joined by attached angle bars (1). Angle bars have to be half–pounded down in the track, the other, protruded part of the angle bar should be put on the next segment of the track.





The track (t) should be hung with the track supports (a) by using pins M10x70 (E4, E5, E6). In case of mounting to the roof, the track (t) have to be mounted straight to the roof by pounded steel anchors ø10 (E18). Exact height of supports (a) mounting should be calculated in the following way:
provide the distance ~10 mm between the edging (p) and the track (f), mark the place where support mounting holes will be done (a), keep distance between nuts (c.a. 20 mm), then fix to the lintel by using steel anchors ø10 (E18). Use the distance between nuts to level the track.

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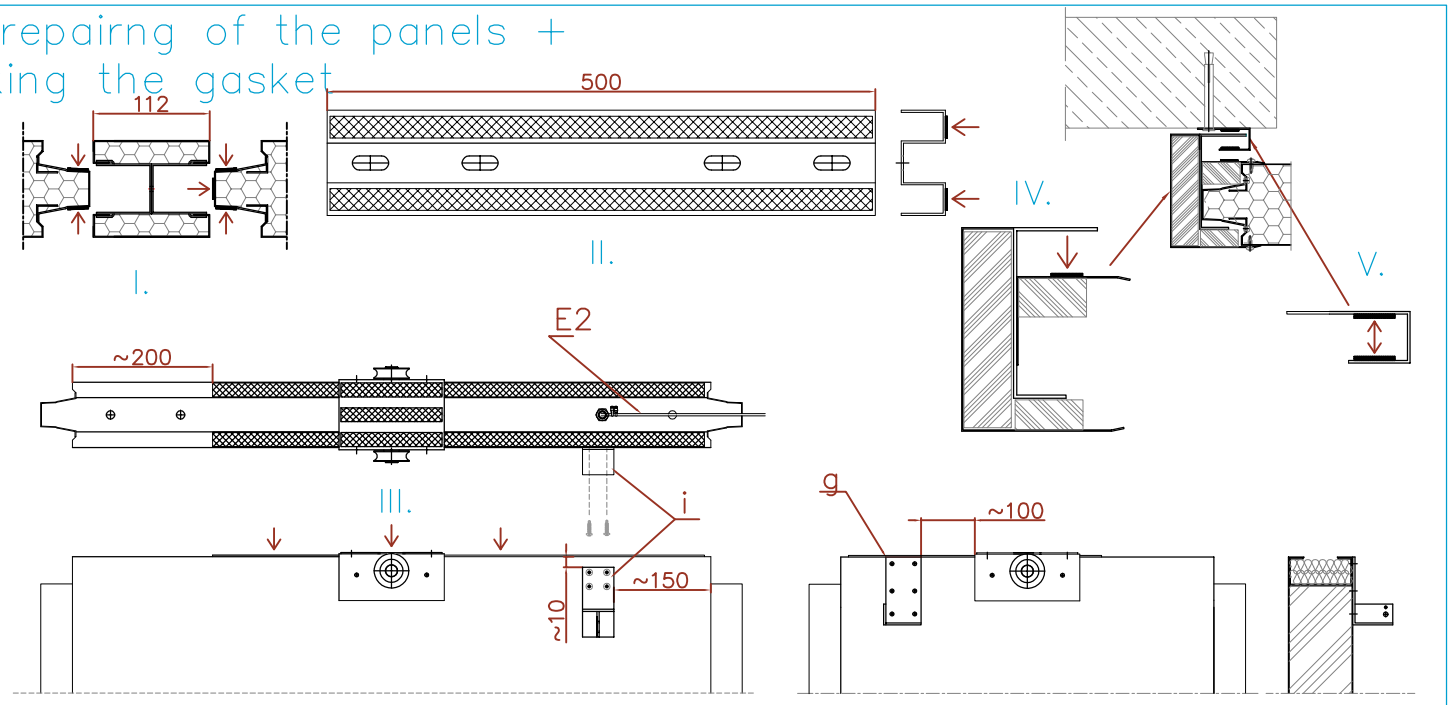
5. Prepairng of the panels + sticking the gasket

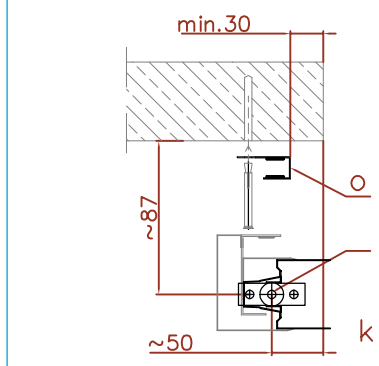


Before starting of panel installation, stick expanding gasket 2x20 mm (E1) to all cooperating elements:

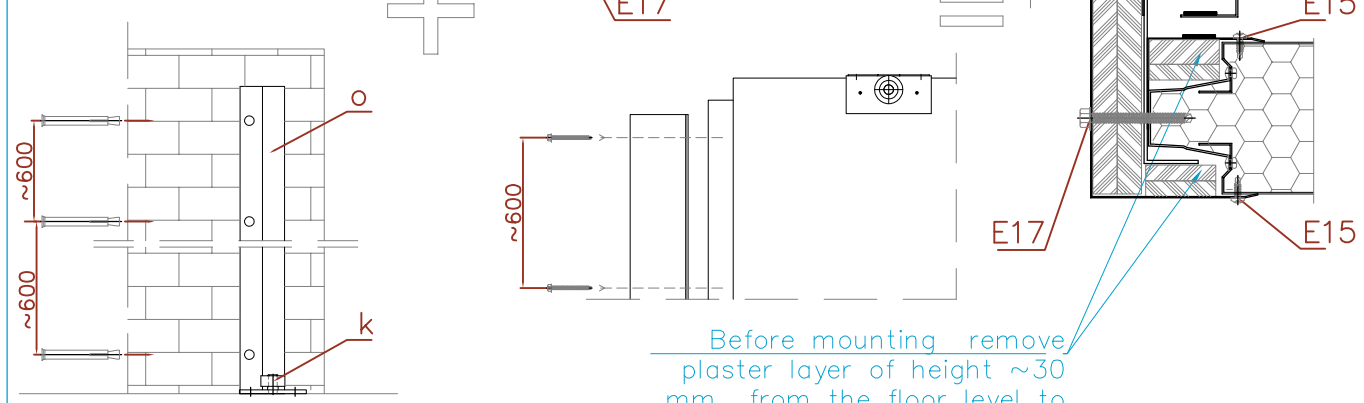
I. Edges of panels at the place of joining by H-shape vertical connector (w) - 5 gasket rows
II. Upper panel connector (m) - 2 gasket rows
III. Panel and sliding carriage (w) - 7 gasket rows
IV. Gate vertical labyrinth (n) - 1 gasket row
V. Wall vertical labyrinth (o) - 2 gasket rows

Fix steel rope ø 3mm (E2) to hole in reinforcing angle bar of the first panel by using to clamps, then screw/rivet down shock absorber bracket (l) to panel shell.Lining rope bracket should be screwed / riveted down to the last panel.

7. Installation of the gate labyrinth and the wall

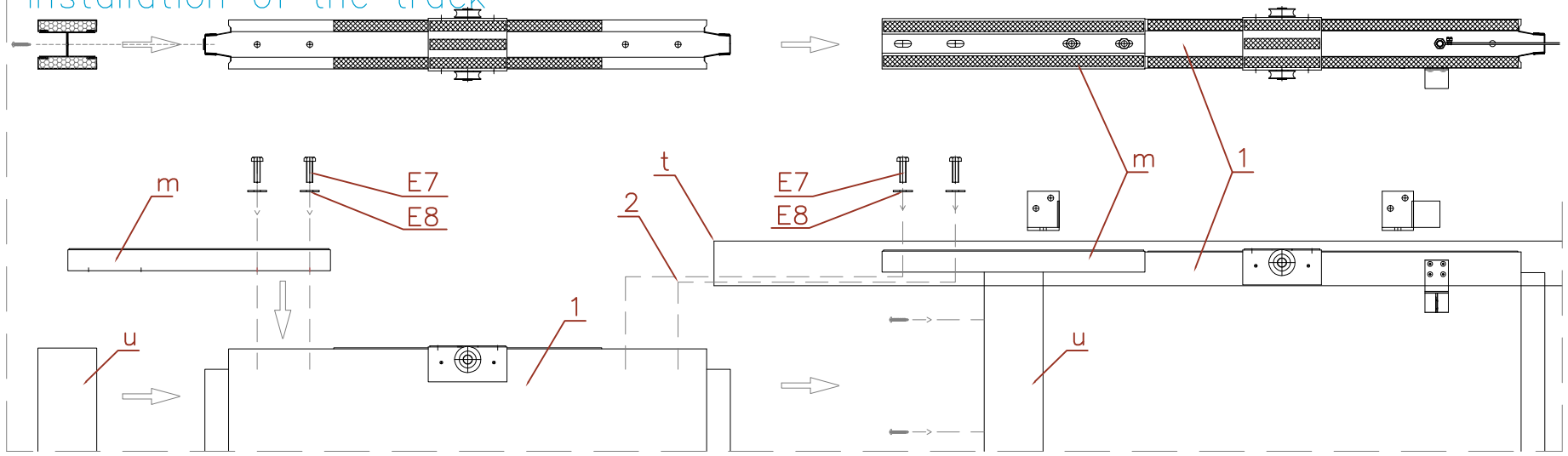


Before screwing the last panel, guide roller (k) and vertical wall labyrinth (o) should be installed by using steel anchors ø10 (E18). Providing dimensions are indicative, install the last panel and gate labyrinth without screwing, then correct dimensions (set the roll location) to set actual dimensions.
Before starting hanging of the last panel labyrinth have to be screwed to the panel by following sheet metal screws:
(E15) – self drilling sheet metal screws ø4,2x13 each 250 mm
(E17) – self drilling sheet metal screws ø6,3x63 each 600 mm



Before mounting remove plaster layer of height ~30 mm from the floor level to provide roller guide.

6.Connecting of the panels and installation of the track

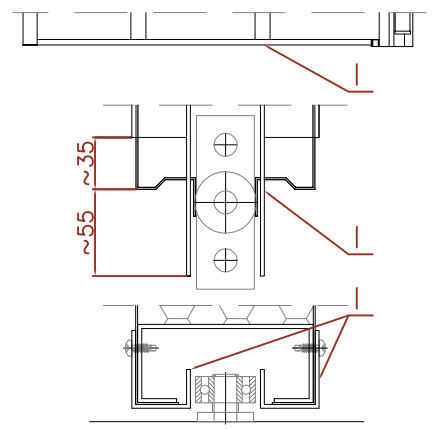


Installation should start from screwing upper connector (m) to the first panel (1) by using screws M12x40 (E7, E8), then putting prepared panel on the track (t). Match H–profile (u) to hanging panel, then tighten next panel (2) and screw by using upper connector and screw M12x40 (E7, E8) through the holes in the track. Repeat this step until screwing penultimate element. then go to point DTR No. 7.

Note! Before starting installation of the panels by bottom connector (l), it is advised to compress all the panels by using in example lashing strap. Be careful not to arch the construction.

8. Installation of the bottom panel connector

When the last panel is installed, fix connector (p) to both sides of the door leaf by using sheet metal screws of size ø4,2x19 approx. each 500 mm



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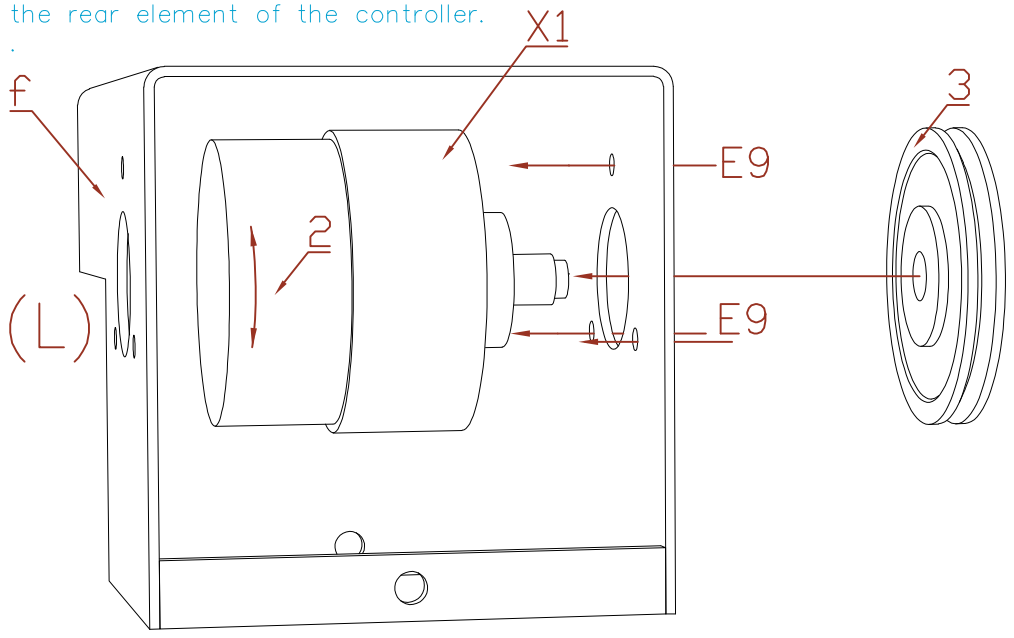
9. Installation of the LINING controller

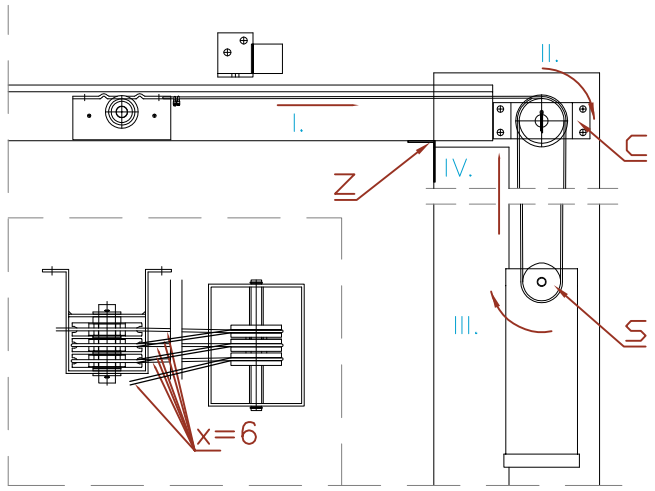
Put LINING controller (X1) in LINING console (f) to enable screwing it by using three screws M6x22 (E9). When the gate is mounted it is advised to adjust the closing speed by screwing the rear element of the controller.

.



The drawing has been made for the left–opened gate. In case of right–opened gate, install the shaft by opening on the left (L) side of the LINING console. Install roll with one way clutch (3) so that it does not lock in the way of closing the gate (see section No. 11). If you need to change direction of the LINING controller locking, change orientation of the pulley on the shaft (reverse it).

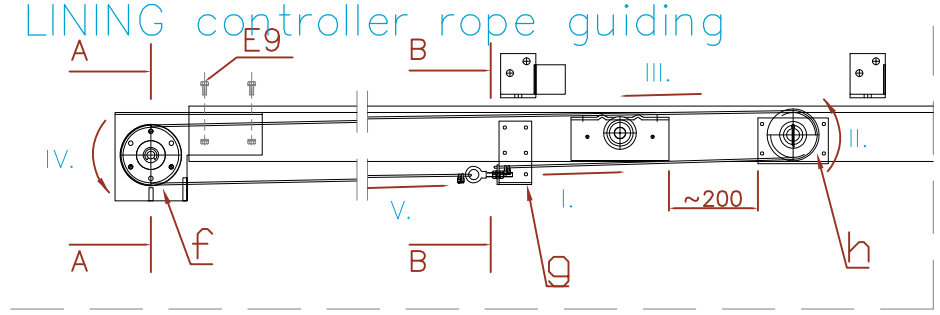
10. Counterweight rope guiding



Fasten rope conducting console (counterweight) (c) to the wall by using steel anchors ø10 (E18).
Guide rope in counterweight system in the following way:
I . From the first panel of the track
II. Through the rope conducting console (counterweight) (c)
III. Through the counterweight (s)
NOTE! You should adjust the amount of interlacing on the roller of the console and counterweight depending on the gate dimensions: x=S [mm] / (H–500) [mm], rounding up.
IV. fasten the end of the steel rope with a clamp a free roller of counterweight or console
Fasten angle bar of track and edging connection. Screw vertical part of the angle bar through the holes to the track then through edging by using sheet metal screws.

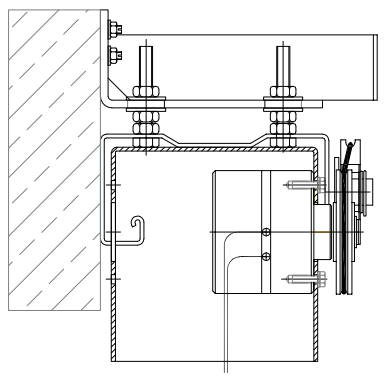
11. Prowadzenie linki regulatora LINNING

LINING controller rope guiding

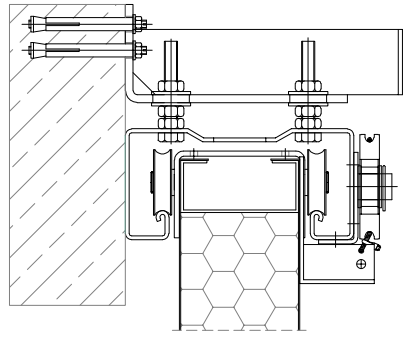


Screw the LINING console and controller (f) at the end of track by using screws M6x22 with nuts (E9, E10, E11). Then rivet LINING return console (h) down on the height of the last panel.
Lead the steel rope (E2) as follow.
I. Fasten the rope to the bracket (g) by using clamps.
II. Lead the LINING rope through the LINING return console (h).
III. Lead the rope to the LINING controller.
IV. Lead the LINING rope through the LINING controller (f).
V. Install the LINING rope on the eyebolt M6 (g) by using clamps, then control the tension with nuts.

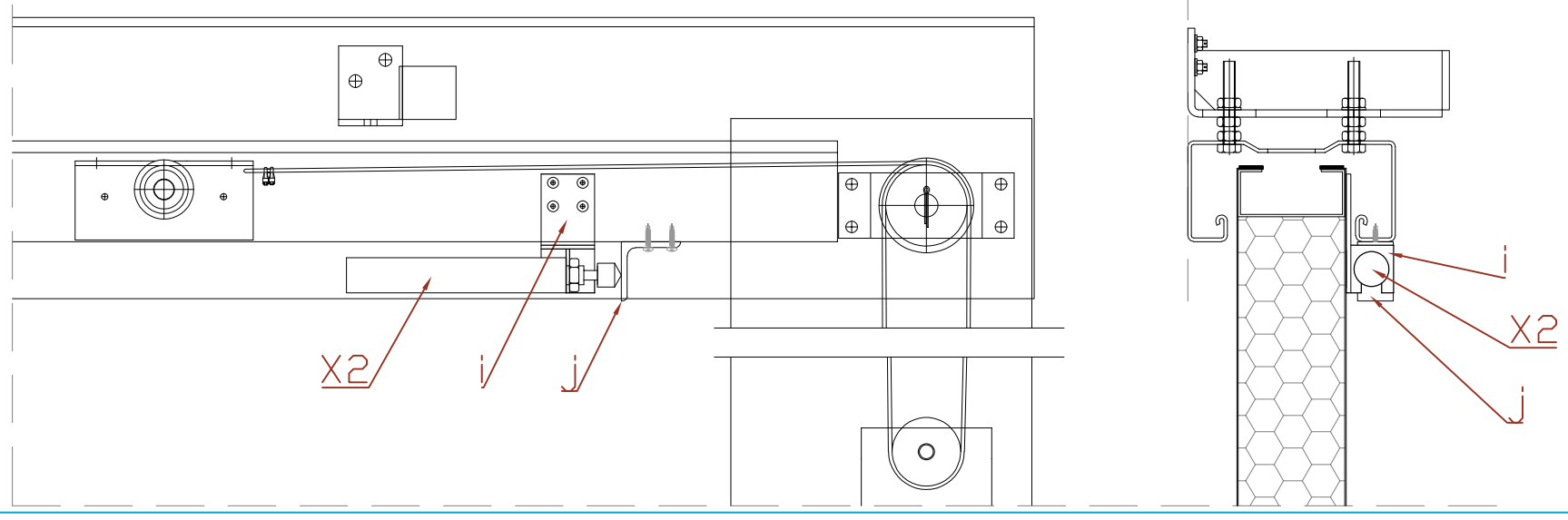
A–A



B–B



12. Shock absorber installation



Screw shock absorber (X2) to the shock absorber bracket (i). Mark the place where shock absorber bumper (j) will be mounted so that the piston rod of the shock absorber would be fully slipped. Install the shock absorber to the track by using rivets ø4 or sheet metal screws ø4,2 (E15/E16).
To adjust the shock absorber, the piston rod should be fully overhanging and then rotate it clockwise or counter clockwise . Proper adjustment of the shock absorber shall provide slight movement of the gate to the edging

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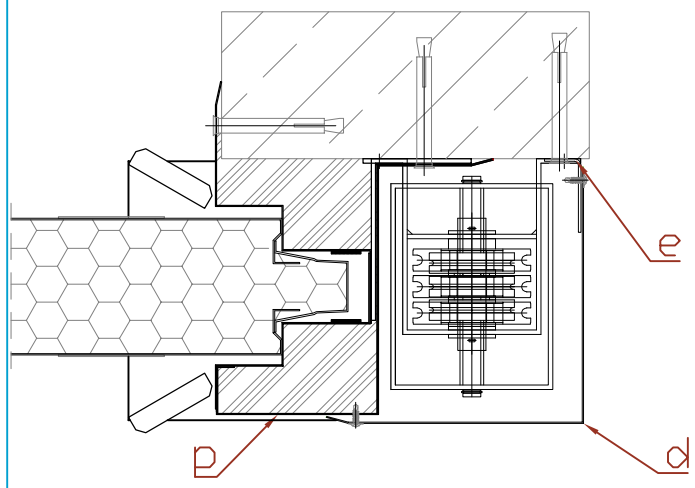
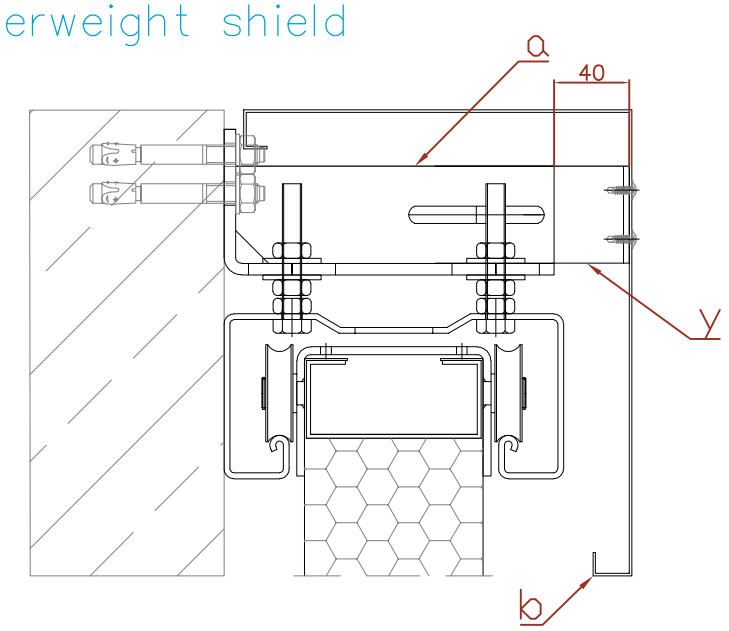
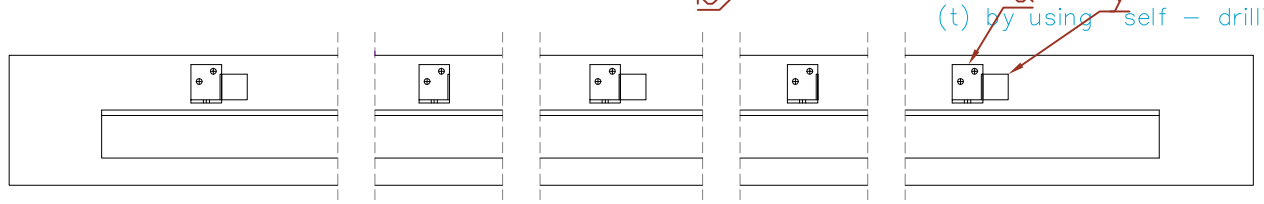
13. Installation of the counterweight shield and the track shield





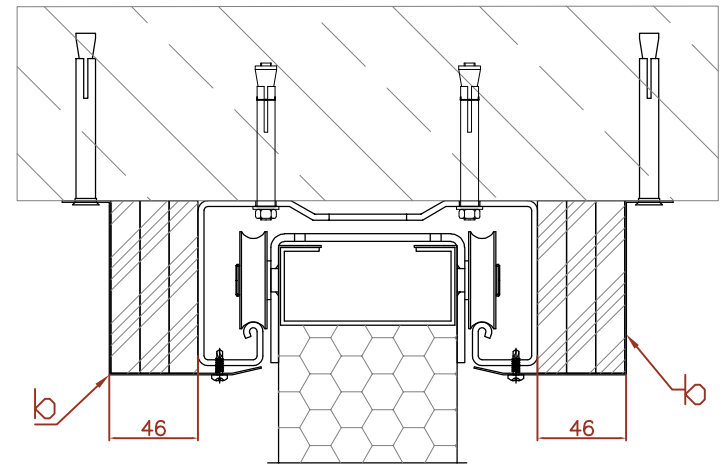


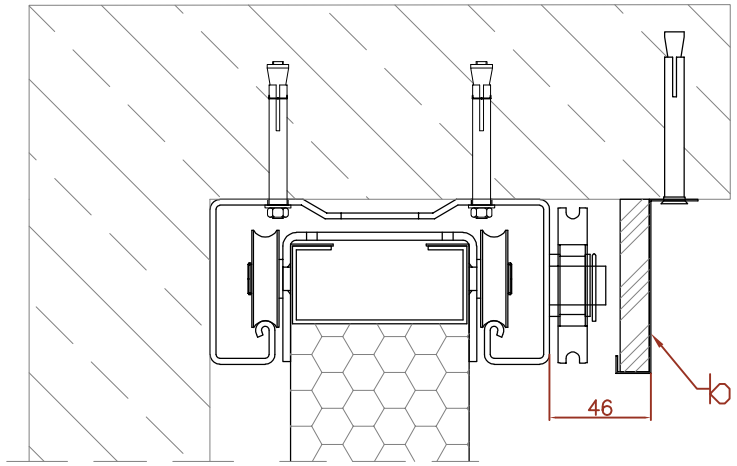
Fasten the counterweight shield angle bar (e)to the wall by using steel anchors ø10 (E18). Then screw counterweight shield (d) to angle bar (e) and the edging (p) by using self drilling sheet metal screws ø4,2x13 approximately each 250 mm.

To install the track shield (b), track shield angle bar (y) should be mounted to extreme or every second track support (a)by using screws M8X20 (E12)while keeping distance of 40 mm from track support edge to the end of angle bar.

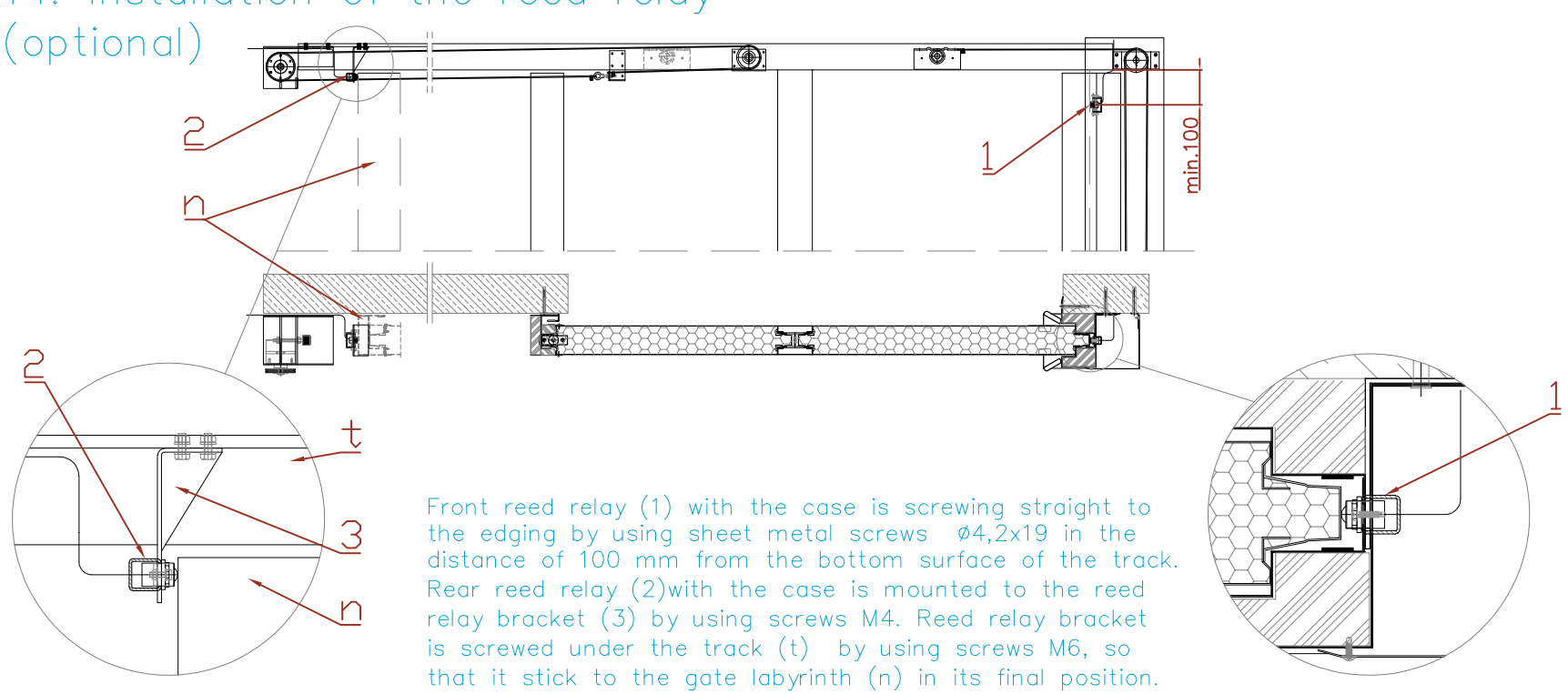
In the end, screw track shield (b) to angle bars (y) by using self–drilling sheet metal screws ø4,2x13.

In case of mounting the gate to the roof, track shield (b) should be mounted to the ceiling by using steel anchors ø10 and then to the bottom side of the track (t) by using self – drilling sheet metal screws ø4,2x13.





14. Installation of the reed relay (optional)



Front reed relay (1) with the case is screwing straight to the edging by using sheet metal screws ø4,2x19 in the distance of 100 mm from the bottom surface of the track. Rear reed relay (2)with the case is mounted to the reed relay bracket (3) by using screws M4. Reed relay bracket is screwed under the track (t) by using screws M6, so that it stick to the gate labyrinth (n) in its final position.