



Automatic Flood Barrier Installation Manual

Additional Notes on Installation Details

August 2026

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Installation Details

We use 4 kinds of glue to assist the installation, so as to achieve the waterproof state almost without water leakage



3. Double-sided mesh tape



1. Black structural glue



2. Clear structural glue



4. 502 quick drying glue



Installation Details

We use 4 kinds of rivets for installing different position

1#



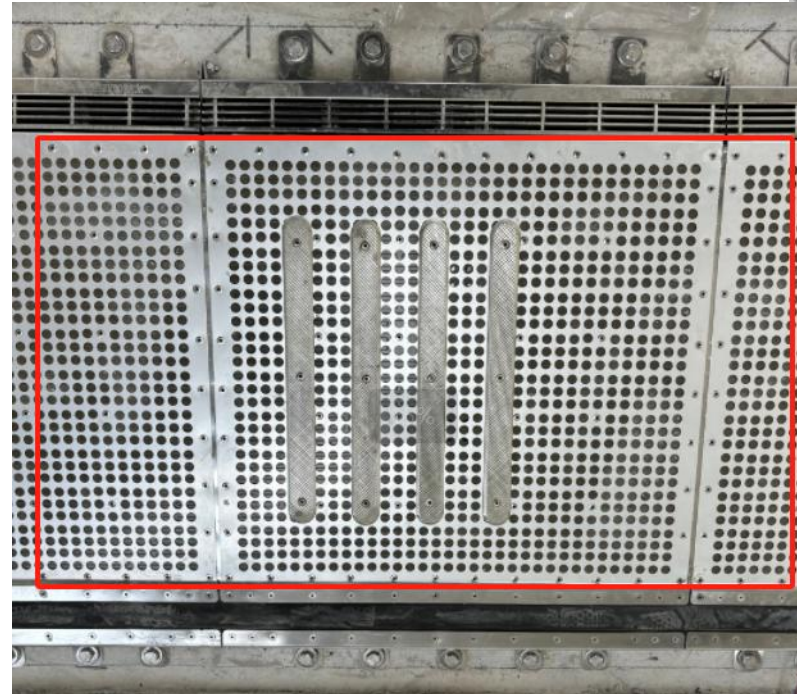
3*16mm
Use for installing the switch



2#



4.8*16mm
Round headed rivet



2# round headed rivets are used to fix the main board, including fixing the side rubber on standard unit.



Installation Details

We use these 2 rivets to install the π type rubber strip & non-standard unit.

4.8*19mm

3#



longer open type rivet

Rivet 3#: 6pcs at 2 ends, use on small strips at the 2 corners & the long strip for non-standard unit, 2pcs each at the splicing place of units on board strips(single line).

Rivets 3# in red circles.

Use these rivets at thicker position on strips.



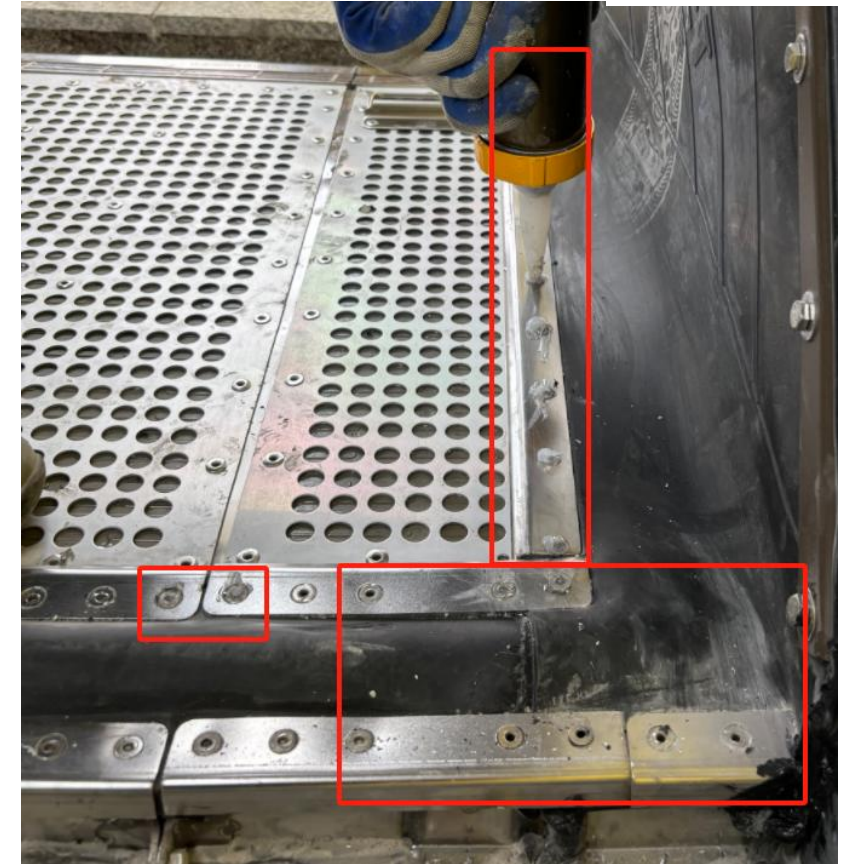
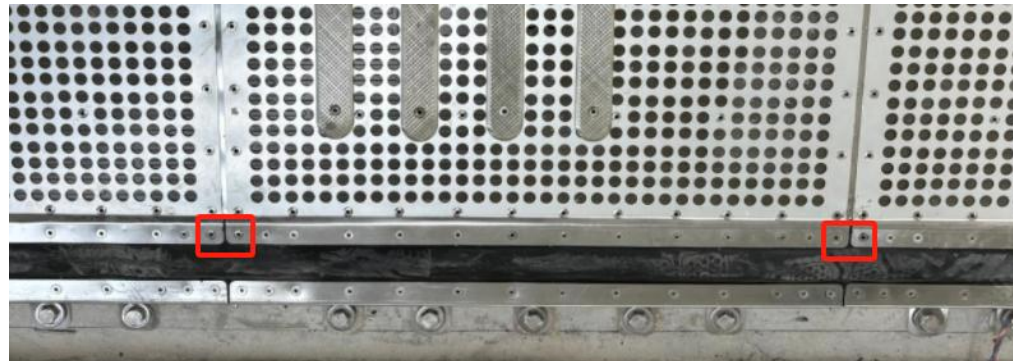
4#



deep headed rivet

4.8*16mm

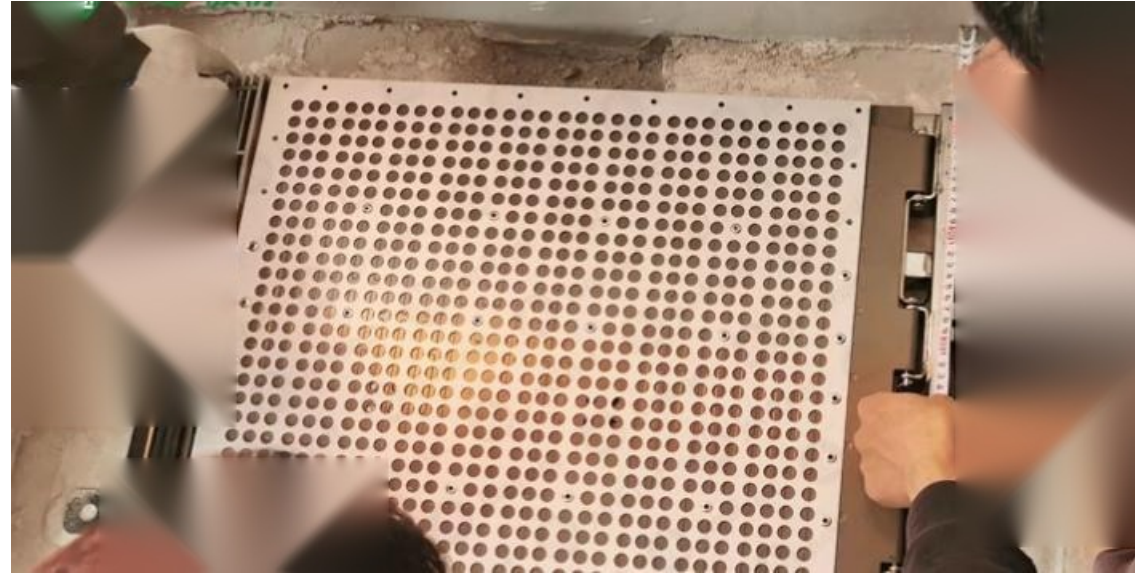
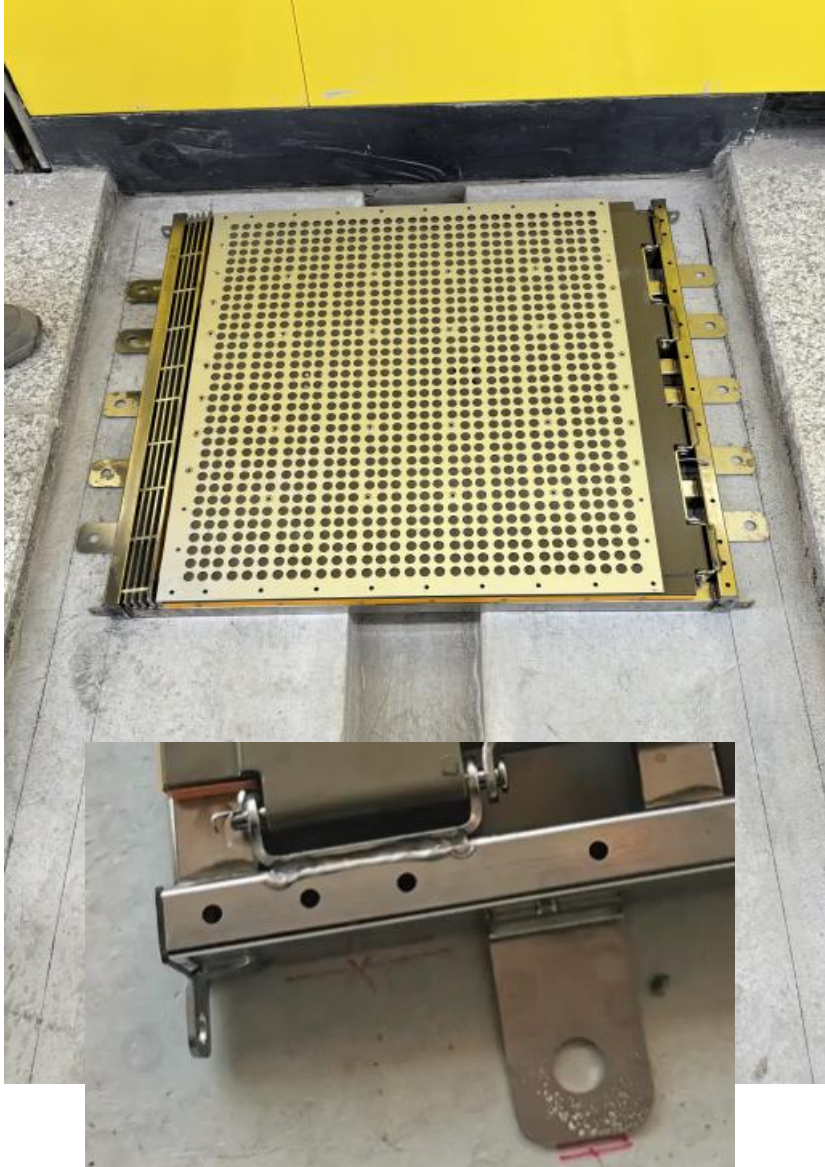
deep headed rivet



Rivet 4#: All rivets for fixing board strips & frame strips except rivets 3#.



Installation Details



1. Locate the installation position in the installation slot, and mark with ink lines.

Each standard unit is placed in the center at both ends
Click 4 lines as shown.

P.S.:

The reserved slot of the new project has been leveled before installation.



Installation Details



2. Vacuum up the dust,
Extrude the black
structural glue about
1-1.5cm away from the
inside line.





Installation Details

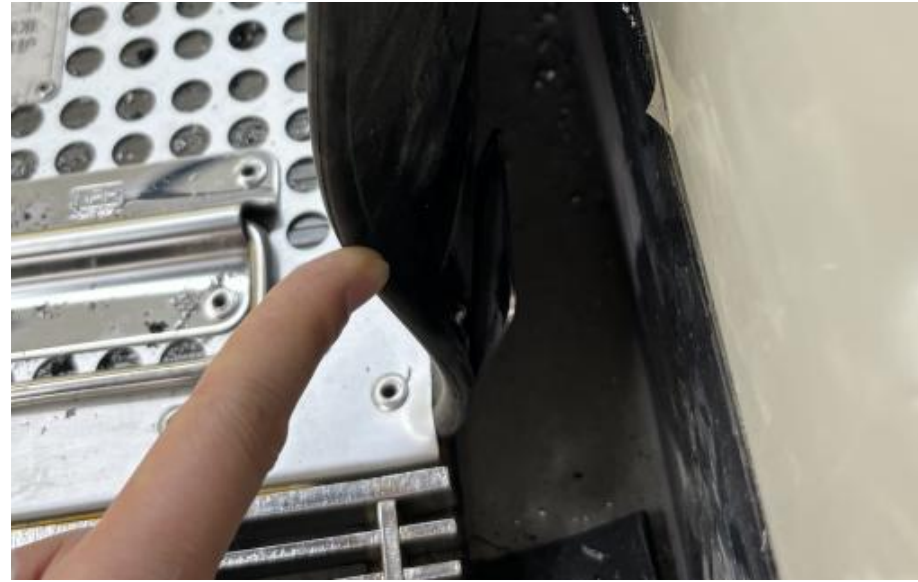


3. Attach the black rubber sealing strips along the inside line.





Installation Details

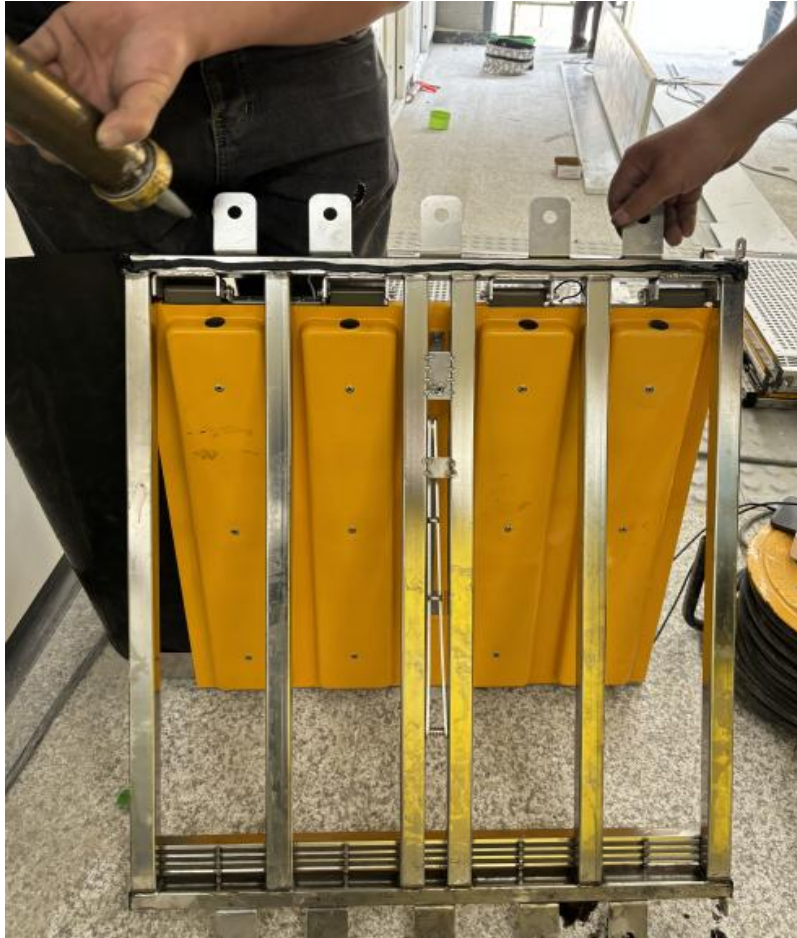


4. Firstly, install the first standard unit with side rubber piece & water guide.

The triangle rubber & water guide are stuck into the side groove of the standard unit, align it with the unit, then fix with rivets.



Installation Details



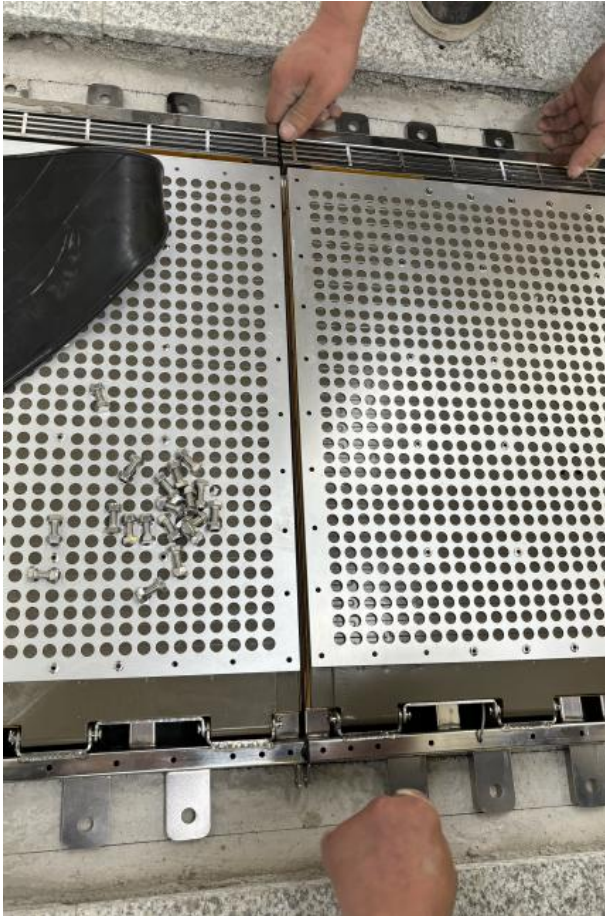
- 5、 Extrude a strip of black structural glue on the bottom frame at the position as photo shown.
Glue each unit in this way.



- 6、 Place the standard unit flat in the slot at the designated position following the lines.
The distance from the wall should be configured as before.



Installation Details



7、 Install other units in the same way, and glue each in the same site.

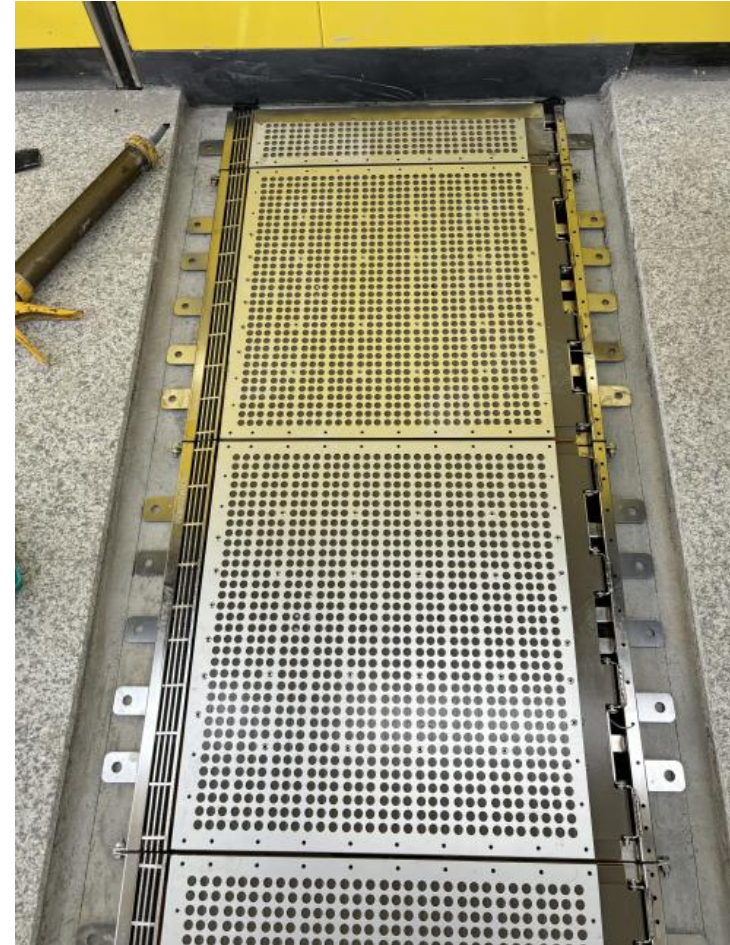
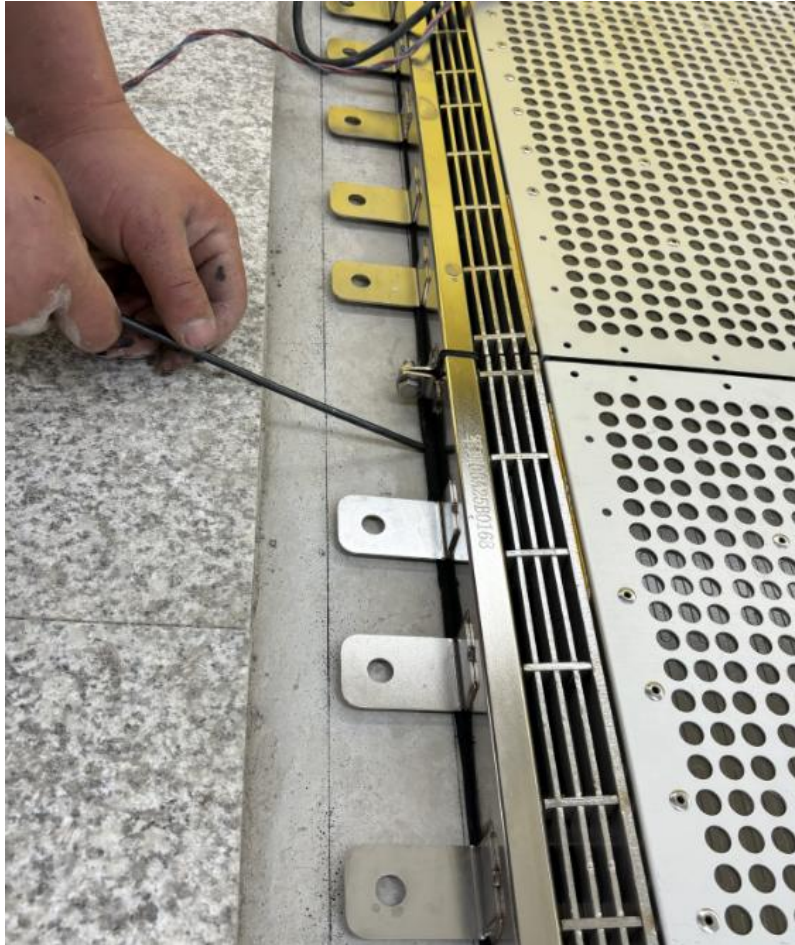
Lock two adjacent units with connecting screws till the last unit.

Make sure the distance from the wall are same on both sides.

The better range of the distance are: 60cm height, 6-10cm / 90cm height, 8-12cm / 120cm height, 10-15cm.



Installation Details



- 8、 Check all the sealing rubber for overflowing or not, and need to move the overflow to the underside of the units.



Installation Details

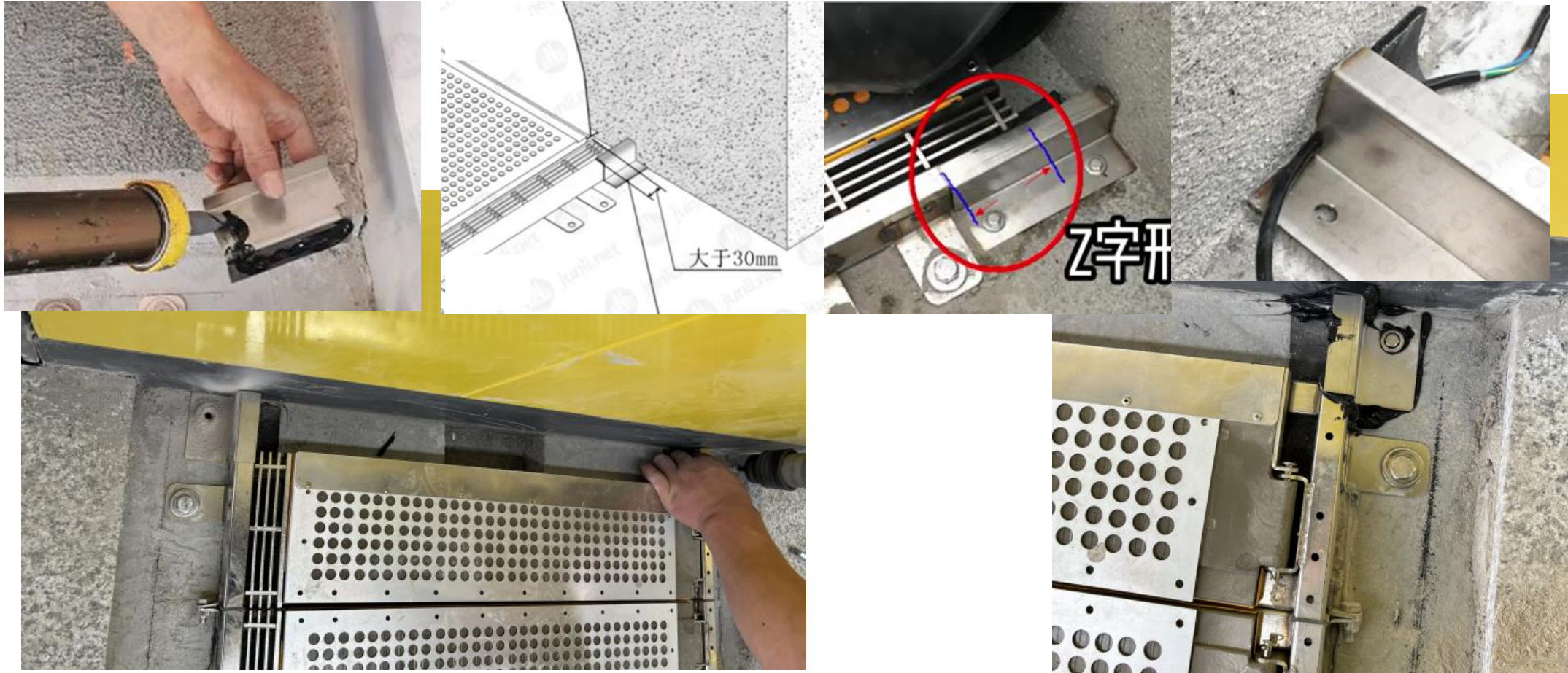


9、 Drill holes to install expansion screws and suck out dust.



Installation Details

Z type clamp plate



- 10、 Cut the Z type clamp plate to the fit measurement for 4 corners, overlap with the main board at least 30mm. Glue with black structural glue, fix with small expansion screws.



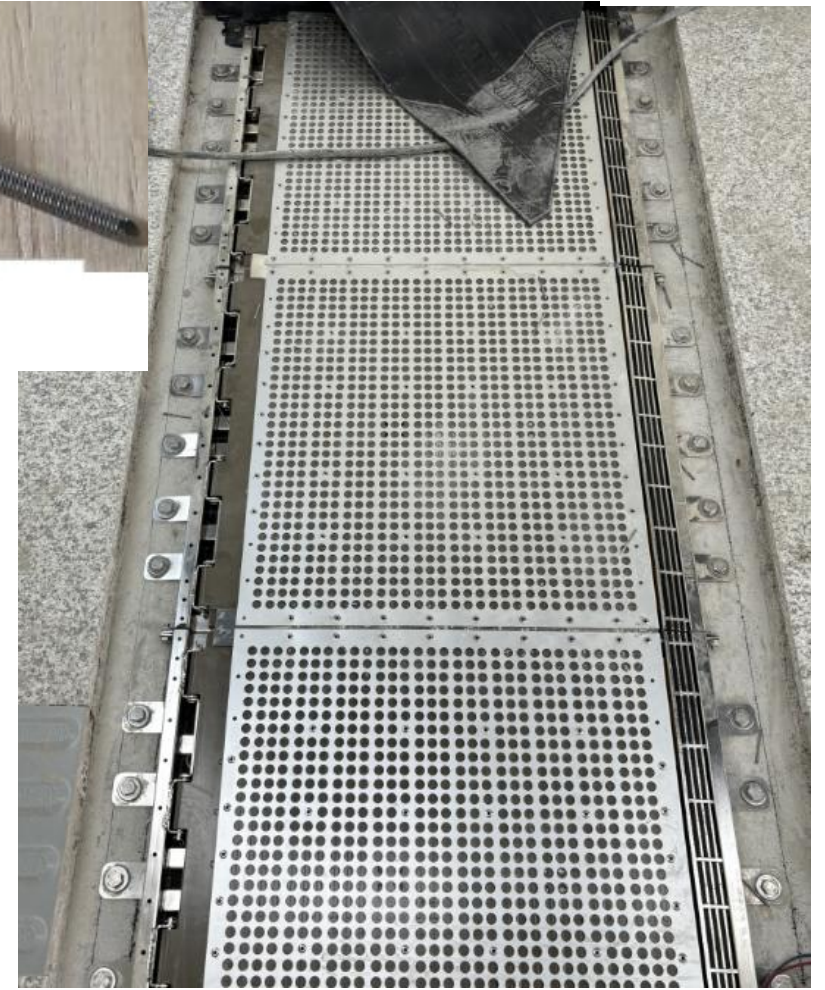
Installation Details



- 11、 Adjust the gap between the units and shoot the clear structural glue into the gaps till the ends, insert the silica gel strip + stainless steel strip into the inner groove.



Installation Details



12、 Drill and fix the flexible connection with round headed rivets (4.8*16mm).



Installation Details

Install the side rubber piece & water guide to the non-standard unit.



13、 Place the double-sided mesh tape on the side of the non-standard unit.



Attach the side rubber on it closed to the rivets.



Installation Details

Install the side rubber piece & water guide to the non-standard unit.



14. Place the trim strips of the non-standard unit in the position (along the edge of the first aluminum layer) and cut to the fit size.

15. Press the trim strips and rubber piece, drill parts of the holes first for fixing the position.
Please keep the rubber edge in place.



Installation Details

Install the side rubber piece & water guide to the non-standard unit.



16. Fix with longer open type rivets (4.8*19mm) because the edge of the non-standard unit is thicker.

Install this long strip first only!

Do not forget to fix the other water guide piece together!



Installation Details

Install the π type rubber strip.



17. Wipe the dust, and attach the double-sided mesh tape close to the edge of the first aluminum layer.
18. Attach the π type rubber strip on it close to the aluminum layer edge from wall to wall.



19. Apply quick-drying glue in the position where the two types of rubber pieces overlapping for both sides.



Installation Details

Install the π type rubber strip.



deep headed rivet

20. Place the board strips close to the edge, drill and fix with 2 kinds of revits.

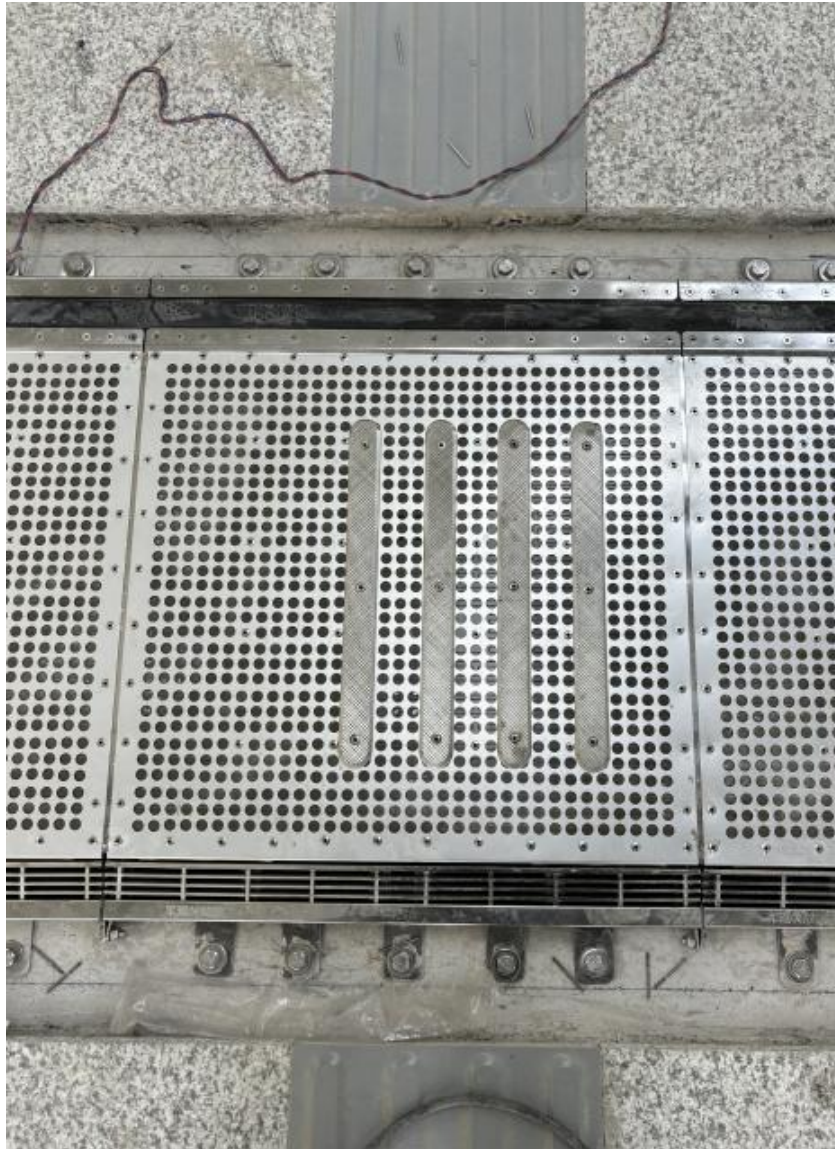
longer open type rivets (4.8*19mm)

deep headed rivet (4.8*16mm)





Installation Details



21. Fix the hand puller with round headed rivets.
Install the blind lane with round headed rivets if need.



Installation Details



22. If it is a brick wall or concrete wall, can glue it directly, straighten the opening side and fix the position, and then drill the holes and fix it with normal expansion screws.



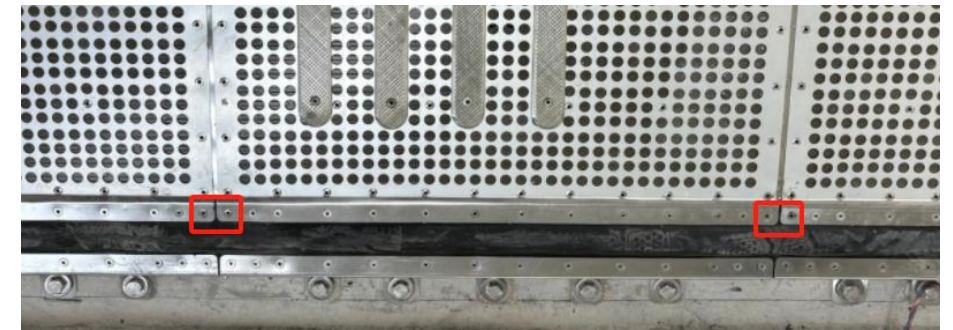
Installation Details



23. The Metro station wall is covered with decorative sheets, so we pre-fix the position and drill holes first, squirt the foam glue into the hollow inside from the holes. Glue the holes as a line, straighten the opening side and fix the position, and then fix it to the decorative sheet with the long enough expansion screws to catch the brick wall inside.



Installation Details



24. Clean the dust, and shoot the clear structural glue into the tiny holes in the centre of all open type rivets (4.8*19mm), so that the water won't be forced out of the holes.



Installation Details



25. The installation is finished, both sides of the groove waiting to paste marble bricks. Sometimes, follow up the user's requirements, can also be installed with stainless steel slope protection in the metro projects.



Installation Details



26. We use iron casting side slopes for garage projects.



Installation Details

Water Testing for Acceptance Inspection.





Thank You

Flood Risk America

Passive Self-Rising Flood Barrier

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