FRONT® Sustainable Building Materials

Pretty Plastic Panels

Second High

Installation Guide





Pretty Plastic

building from waste

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www.prettyplastic.nl
@we_are_prettyplastic

SECOND HIGH
INSTALLATION MANUAL

April 2026

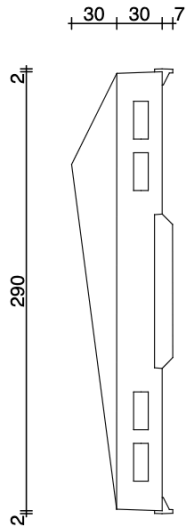
INSTALLATION MANUAL

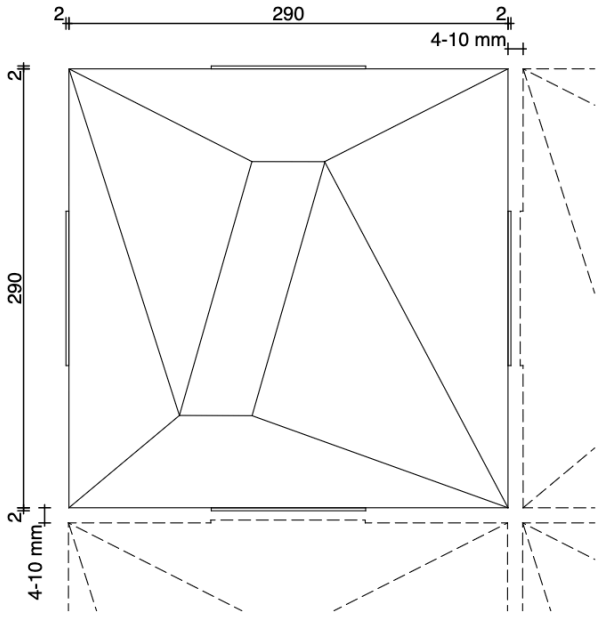
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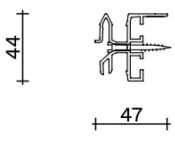
PRODUCT NAME SECOND HIGH

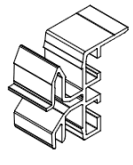
TECHNICAL DATA

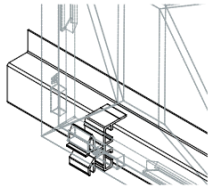
HEIGHT	294 mm
WIDTH	294 mm
THICKNESS	67 mm
NUMBER OF TILES PER M²	11.1
WEIGHT PER TILE	1.2 kg
WEIGHT PER M²	13.3 kg
MATERIAL	recycled Polyvinylchlorid (PVC)
FLAMMABILITY (EN 13501-1:2018)	B-s3,d0
PRODUCTION TOLERANCES	+/-2%











Recommended Mounting Bracket

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PRODUCT
Pretty Plastic tiles are used in ventilated roofs and façades, suitable for both renovation and new-build projects.

PROCESSING
Pretty Plastic can be cut or drilled without splintering. Tiles can be cut using a jigsaw, circular saw, or hand saw. Always use a shop vacuum when cutting tiles with a power saw to prevent dust spreading into the environment. Collect cutting waste separately to prevent it from being blown away, and ensure proper waste management.

APPLICATION
- Pretty Plastic Second High tiles are suitable for prefabricated façade systems but can also be installed on-site.
- Correct and compliant installation is the responsibility of the structural engineer and must be verified accordingly.
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PAINTING
Pretty Plastic tiles are not intended to be painted.

MAINTENANCE
Pretty Plastic is maintenance-free and can be cleaned using standard household cleaning products.

CIRCULAR TAKE-BACK STATEMENT
Pretty Plastic is committed to a circular economy where waste is minimised and materials remain in continuous use. Our tiles are made from 100% recycled PVC and are specifically designed for upcycling. For details on returning, reusing, and upcycling Pretty Plastic tiles, please refer to our 'Circular Take-Back Statement' at www.prettyplastic.nl.

INSTALLATION
Pretty Plastic tiles must be fixed to a substructure of aluminium omega profiles (40 mm × 25 mm).
We recommend using our specially developed mounting brackets to ensure a secure installation.

Secure each tile using two mounting brackets. Each bracket must be fastened with a single screw. Depending on the building height and the local wind load, a dedicated wind load study may be required. Refer to our construction report for detailed information.

- Install horizontal omega profiles at 300 mm spacing. If necessary, use a vertical substructure to create a ventilated cavity.
- Secure each tile with two screws, depending on the building height and the local wind load in accordance with NEN-EN 1991-1-4. Refer to the construction report for detailed information.
- Maintain a 10 mm open gap between the tiles (centre-to-centre distance 300 mm).
- For building corners and window frame connections, refer to the proposed detail drawings for possible solutions.

FASTENERS
The following screw specifications must be met:
- Application: Suitable for exterior façade use
- Head type: Countersunk or bulge head
- Head profile: Reduced head (smaller outer diameter)
- Minimum axial resistance of connection: $F_{ax;Rd} \geq 0.50$ kN

Recommended screw: WOODIES® Ultimate decking screw (Ø 5 mm shank).

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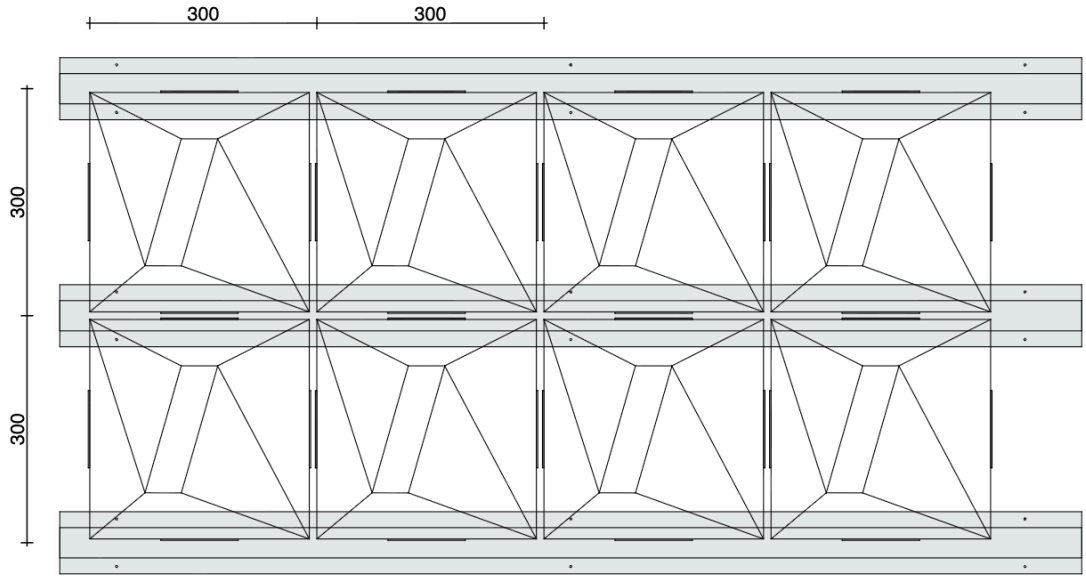
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Note:

1. With the given screw specifications and minimum axial resistance value, the façade contractor shall determine the required substructure and fasteners (batten and/or stud sections, material type, screw length, embedment depth, etc.) in function of the substructure material.
2. The head type and head profile requirements are defined to ensure correct seating of the screw head within the chamfer geometry of the aluminium bracket.

TILE PATTERN ALUMINIUM STRUCTURE



- For instructions on the aluminium substructure, see the following pages.

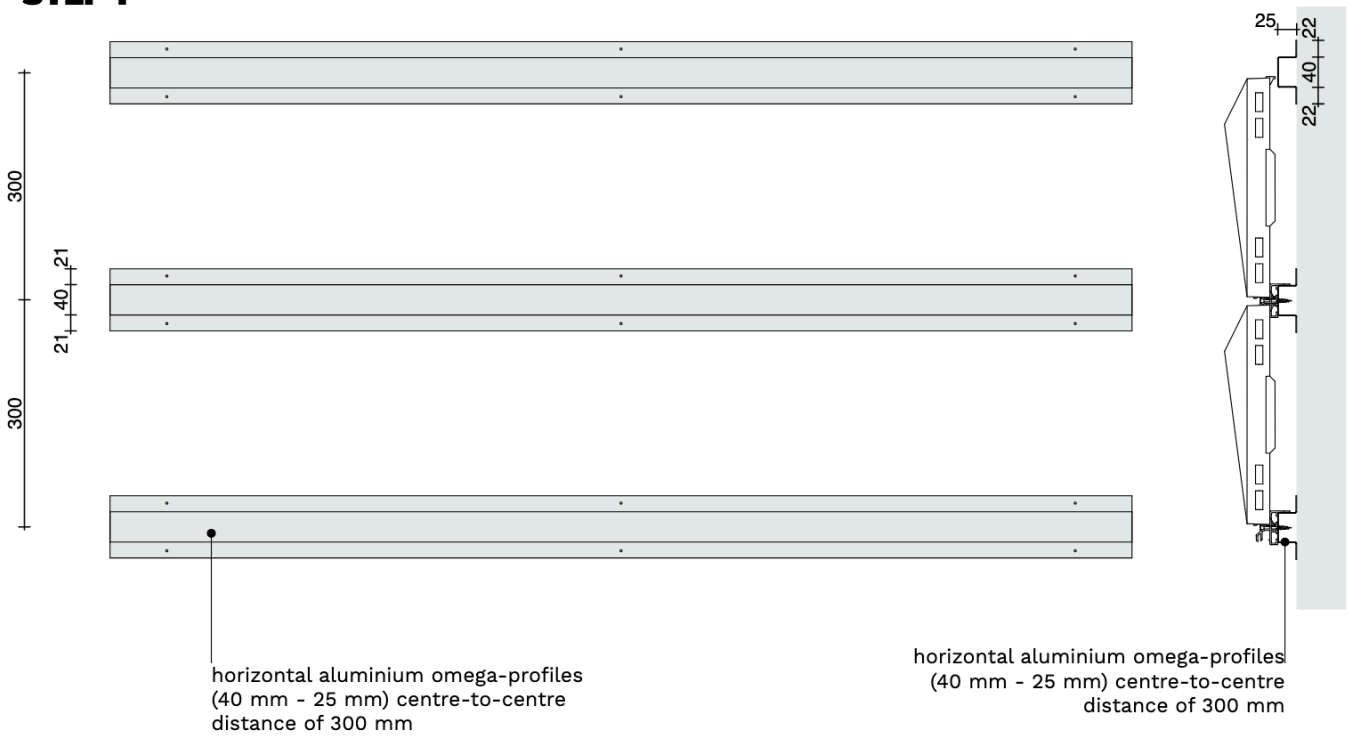
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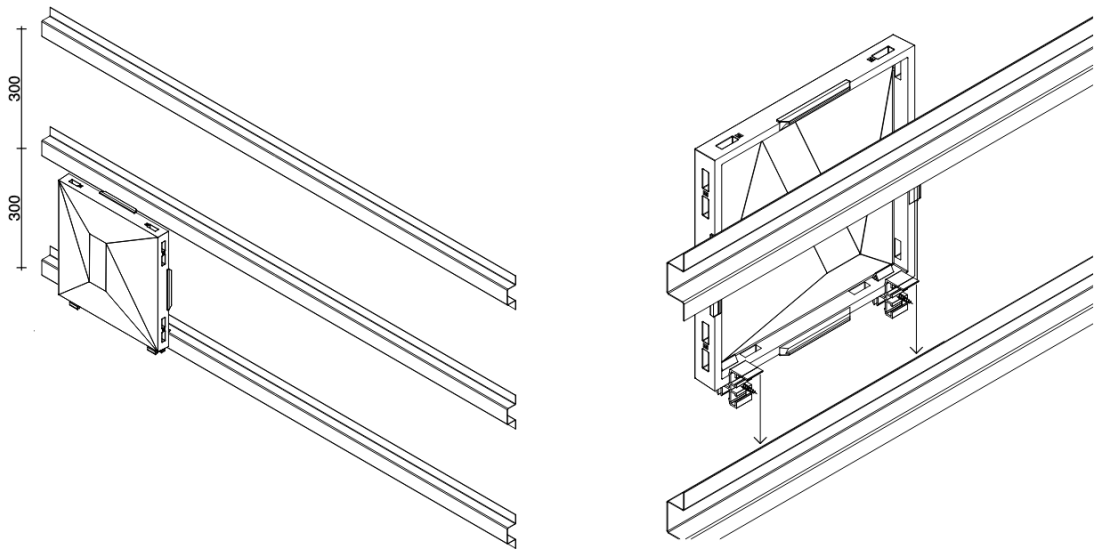
ALUMINIUM STRUCTURE

STEP 1



1. Construct an aluminium substructure in front of the insulated wall.

STEP 2



2. Start from a bottom corner. Place a tile with the brackets in the recesses at the bottom, hang it on the omega profile and secure it with one screw per bracket.

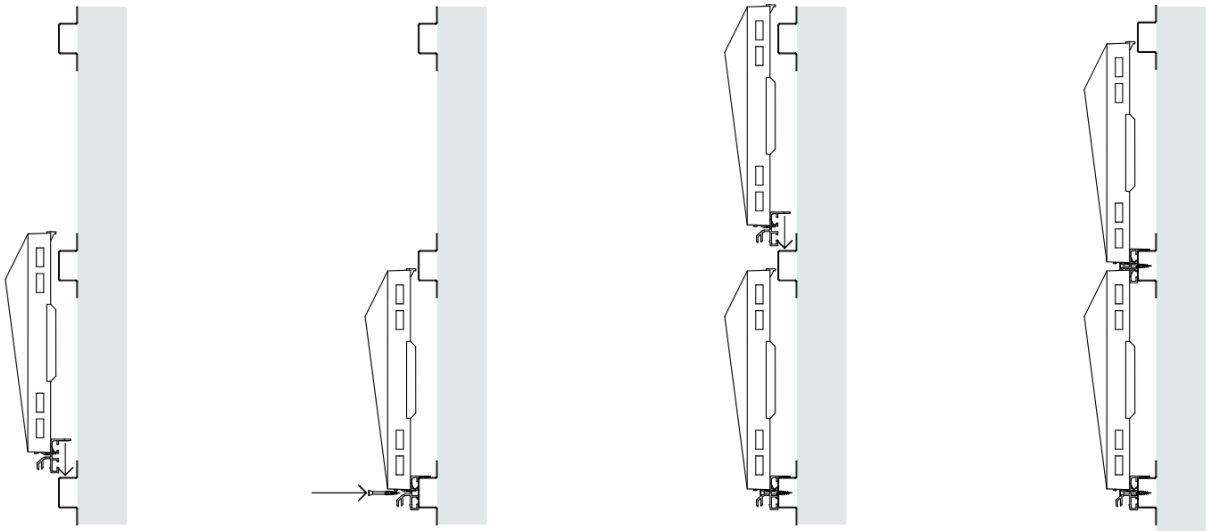
INSTALLATION MANUAL

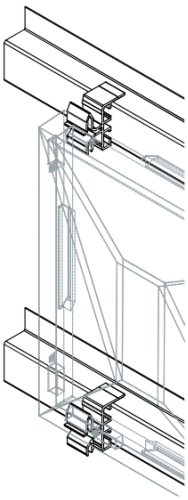
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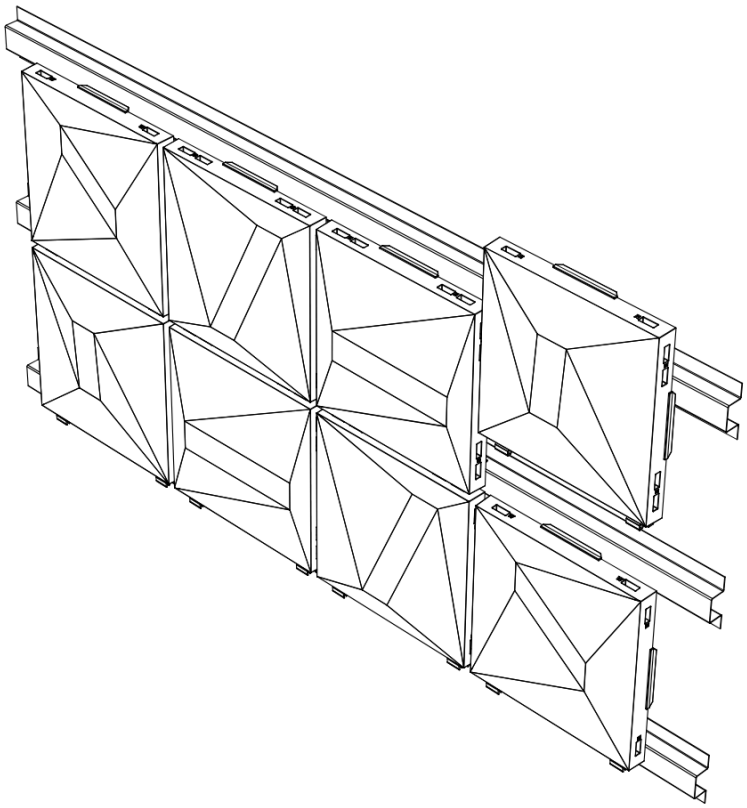
ALUMINIUM STRUCTURE

STEP 3





mounting principles for aluminium structures



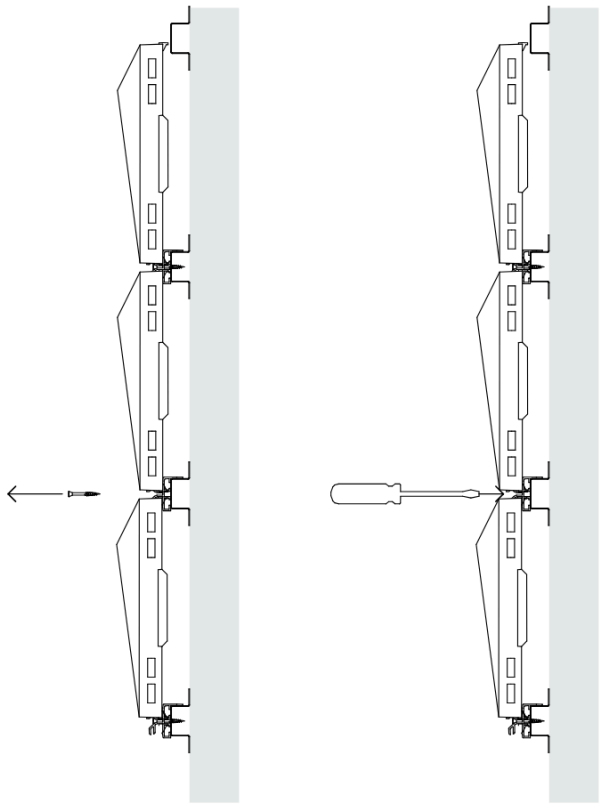
3. After installing the first tile, proceed with the next tile. This can be the tile to the left or right of the first tile, or the tile above. Place the tile above with the brackets in the bottom recesses and position the lower part of the brackets in the top recesses of the tile below. Secure it with one screw per bracket.

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REMOVING TILES



If necessary, tiles can be removed using the following steps:

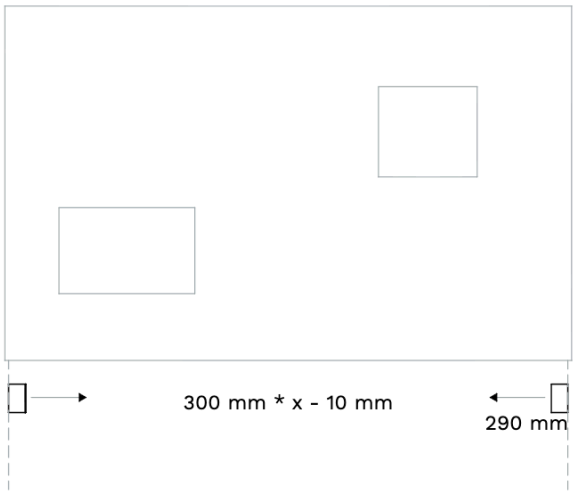
1. Unscrew the bracket.
2. Push the bracket using a small flat screwdriver.
3. The bracket will deform and can be removed, allowing the tile to be released.

INSTALLATION MANUAL

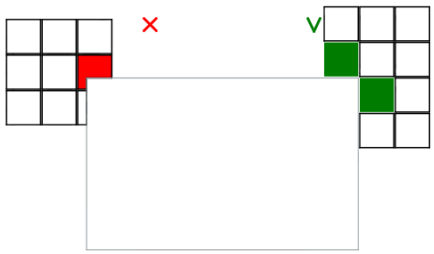
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DESIGN SUGGESTIONS



- Start from a corner, using a full tile to achieve a tidy corner finish
- Adjust the horizontal gap if necessary: up to 3 mm larger or 5 mm smaller. (A gap larger than 10 mm is not recommended due to the risk of mice entering the façade.)
- Vertical gaps cannot be adjusted.



Standard gap
300 mm × x - 10 mm

Larger gap:
301 mm × x - 11 mm
302 mm × x - 12 mm
303 mm × x - 13 mm

Smaller gap:
299 mm × x - 9 mm
298 mm × x - 8 mm
297 mm × x - 7 mm
296 mm × x - 6 mm
295 mm × x - 5 mm

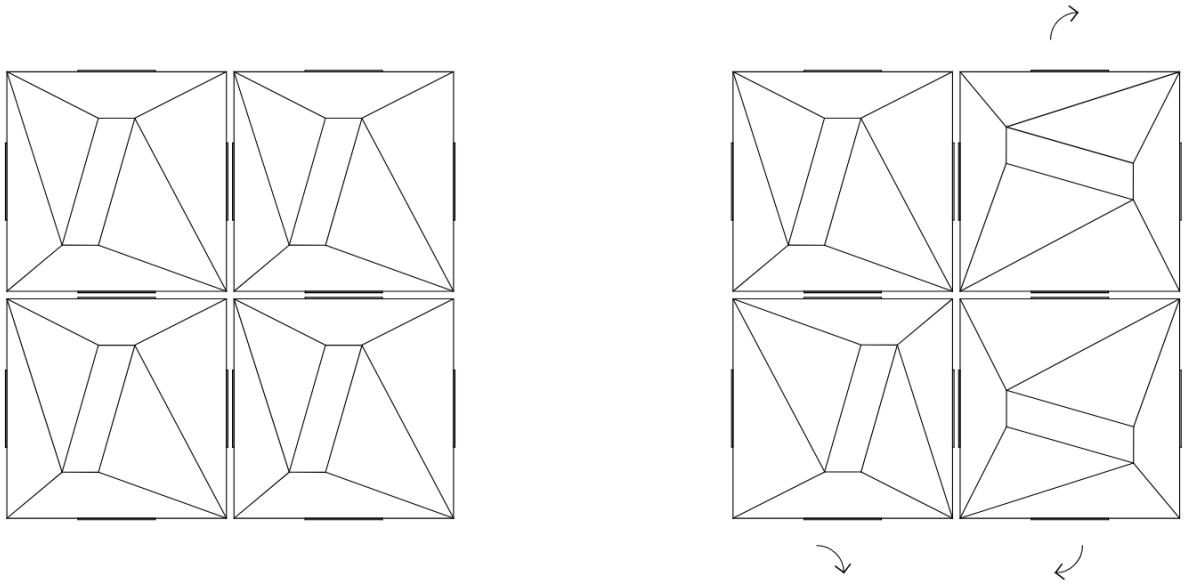
WINDOW CORNERS
Ensure that window openings are aligned with the tile grid.

INSTALLATION MANUAL

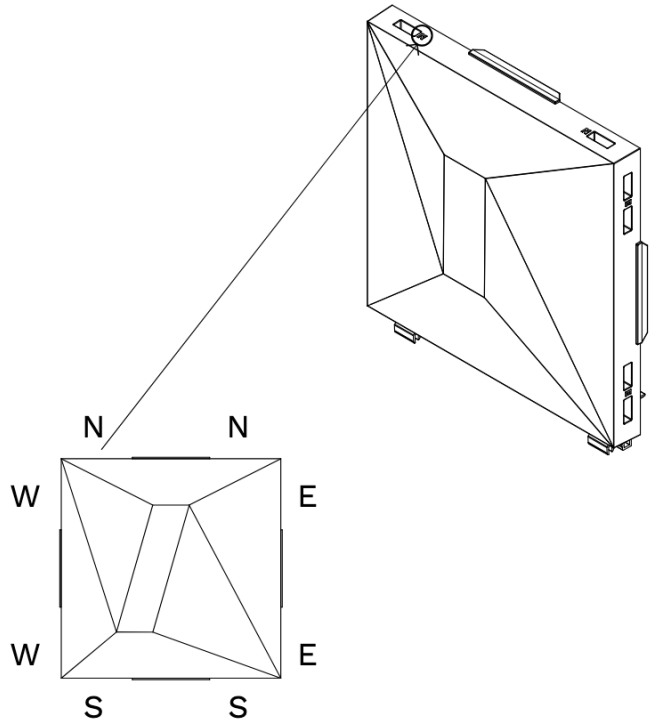
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PATTERN OPTIONS



Tiles can either all face the same direction or be individually rotated to create interesting patterns.



To indicate the pattern, marks are made on the side of the tiles.

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reference details

260401 V5

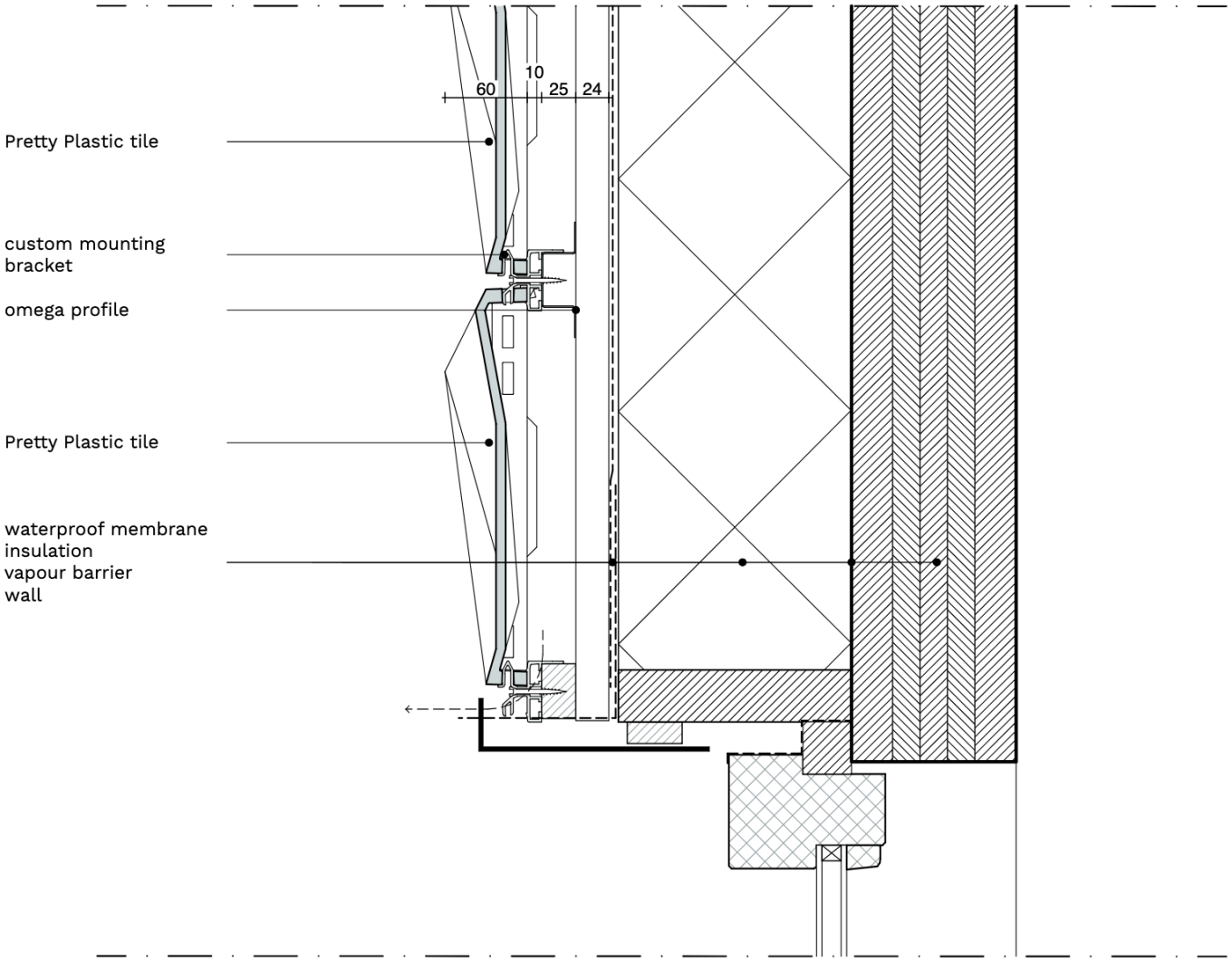
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PRODUCT NAME SECOND HIGH

D1 - TOP CONNECTION WINDOW FRAME

SCALE 1:5



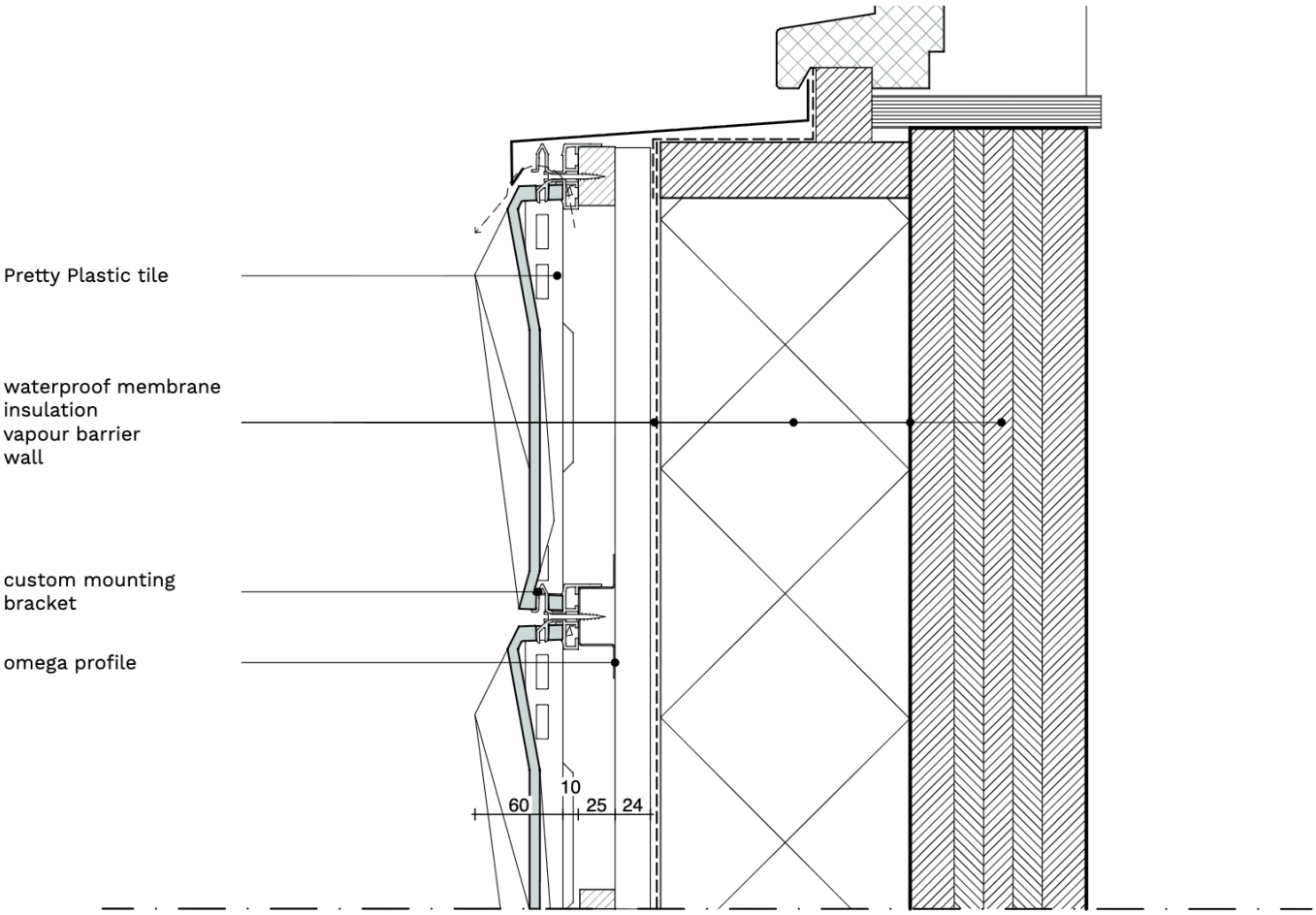
INSTALLATION MANUAL

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D2 - BOTTOM CONNECTION WINDOW FRAME

SCALE 1:5



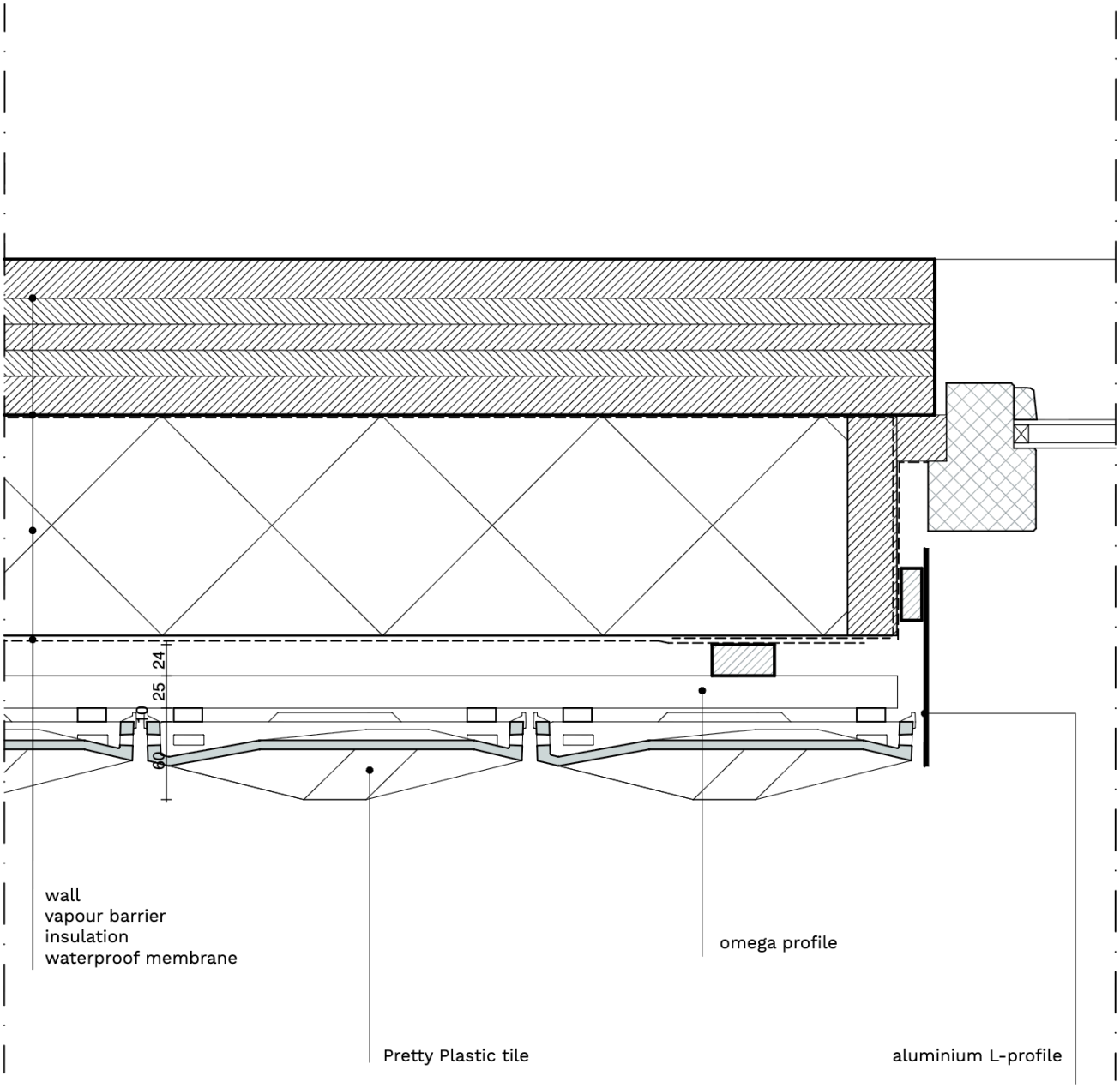
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PRODUCT NAME SECOND HIGH

D3 - WINDOW FRAME HORIZONTAL

SCALE 1:5



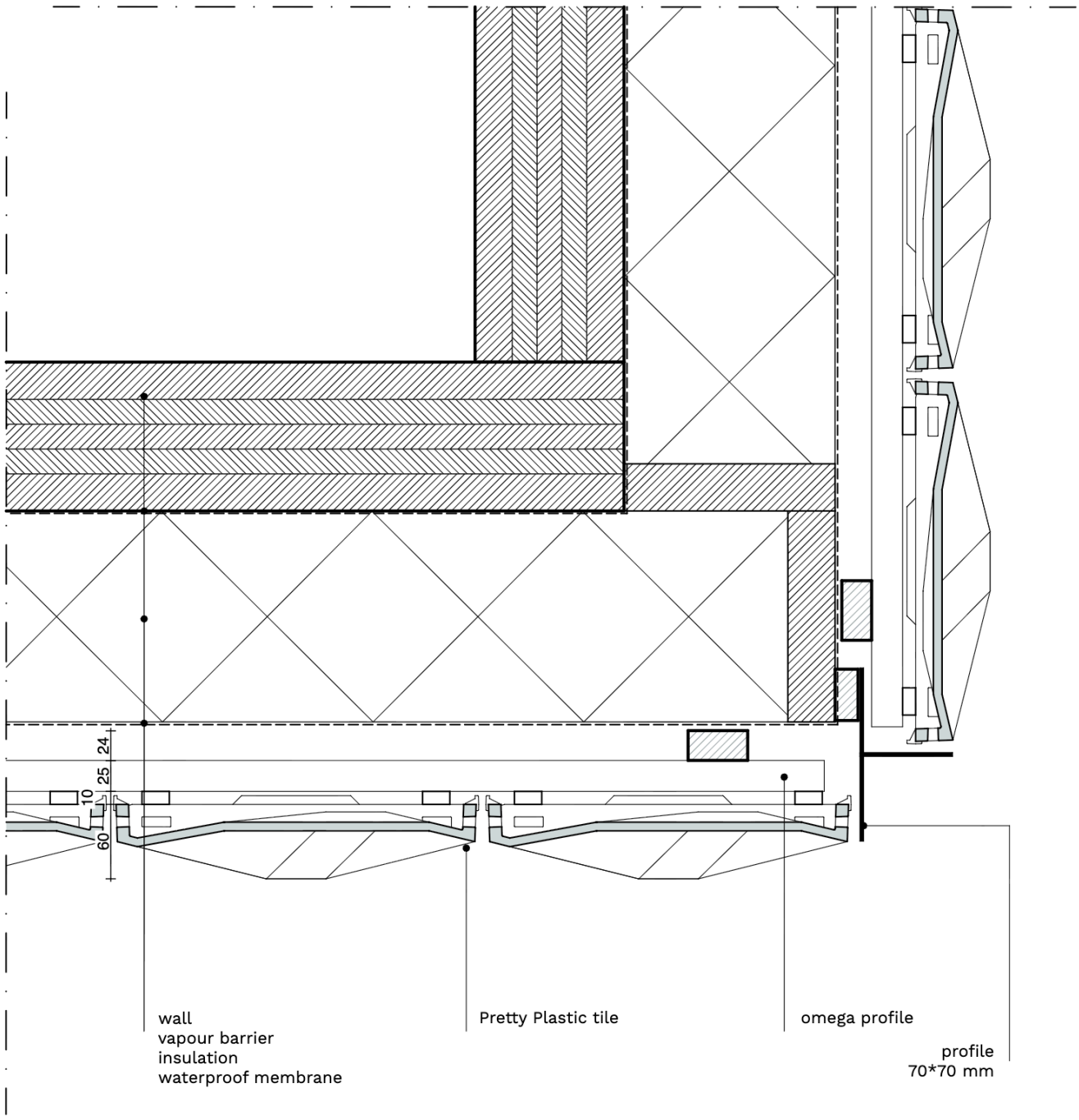
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PRODUCT NAME SECOND HIGH

D4 - CORNER CONNECTION

SCALE 1:5



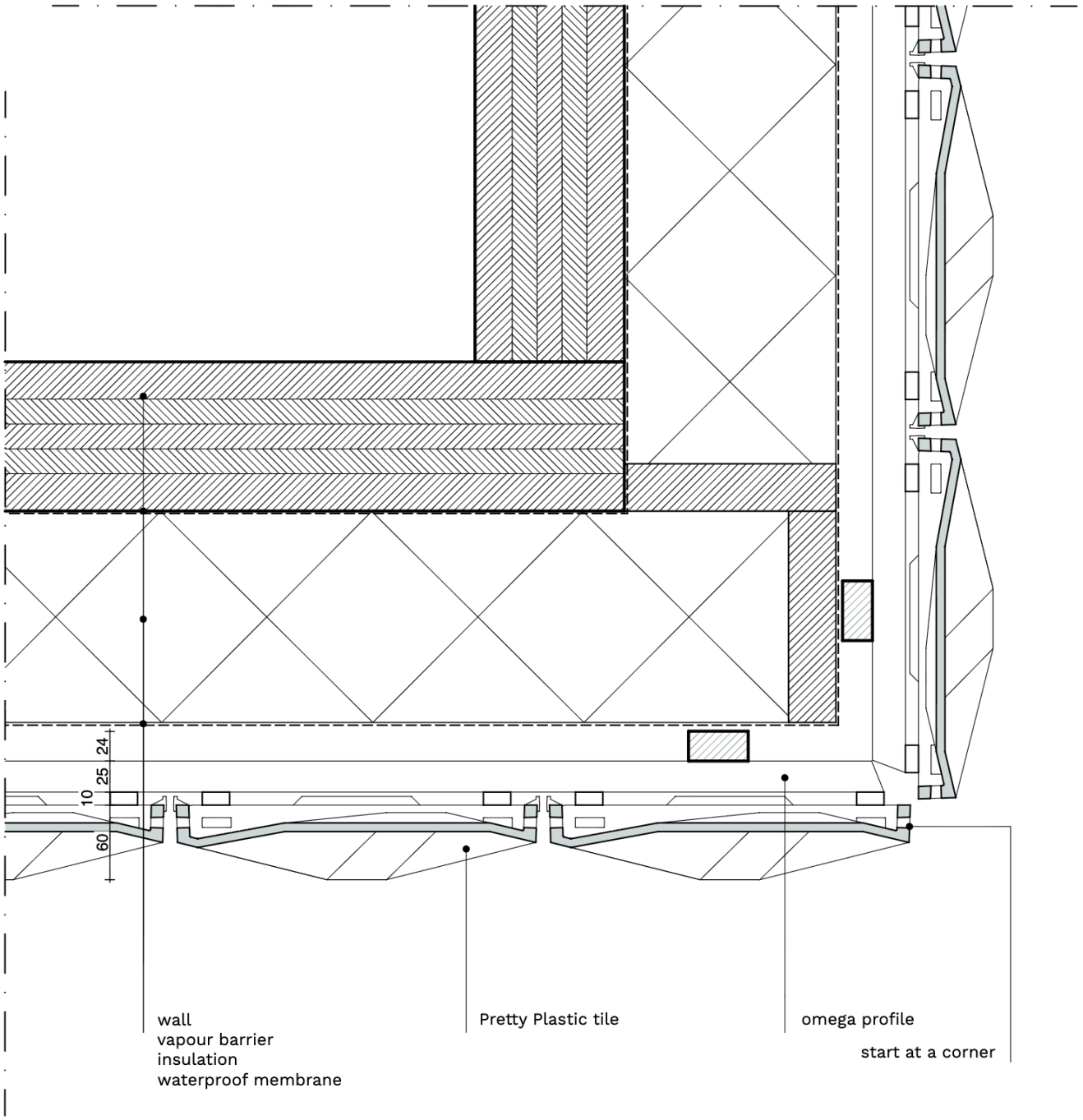
INSTALLATION MANUAL

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D5 - CORNER CONNECTION

SCALE 1:5



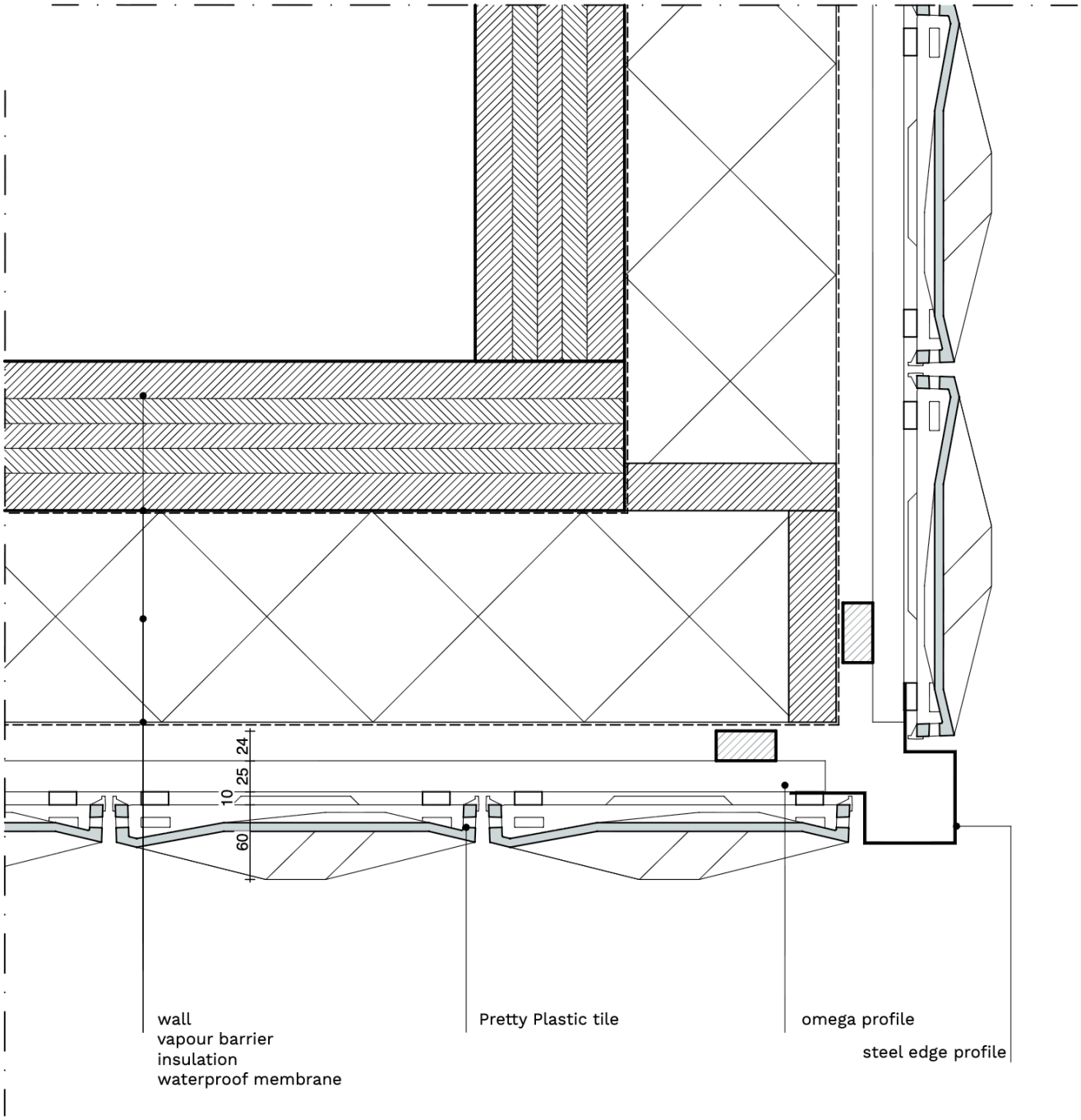
INSTALLATION MANUAL

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PRODUCT NAME SECOND HIGH

D6 - CORNER CONNECTION

SCALE 1:5



INSTALLATION MANUAL

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PRODUCT NAME SECOND HIGH

D7 - CORNER CONNECTION

SCALE 1:5

