Pretty Plastic

building from waste

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FIRST ONE
INSTALLATION MANUAL

May 2026

INSTALLATION MANUAL

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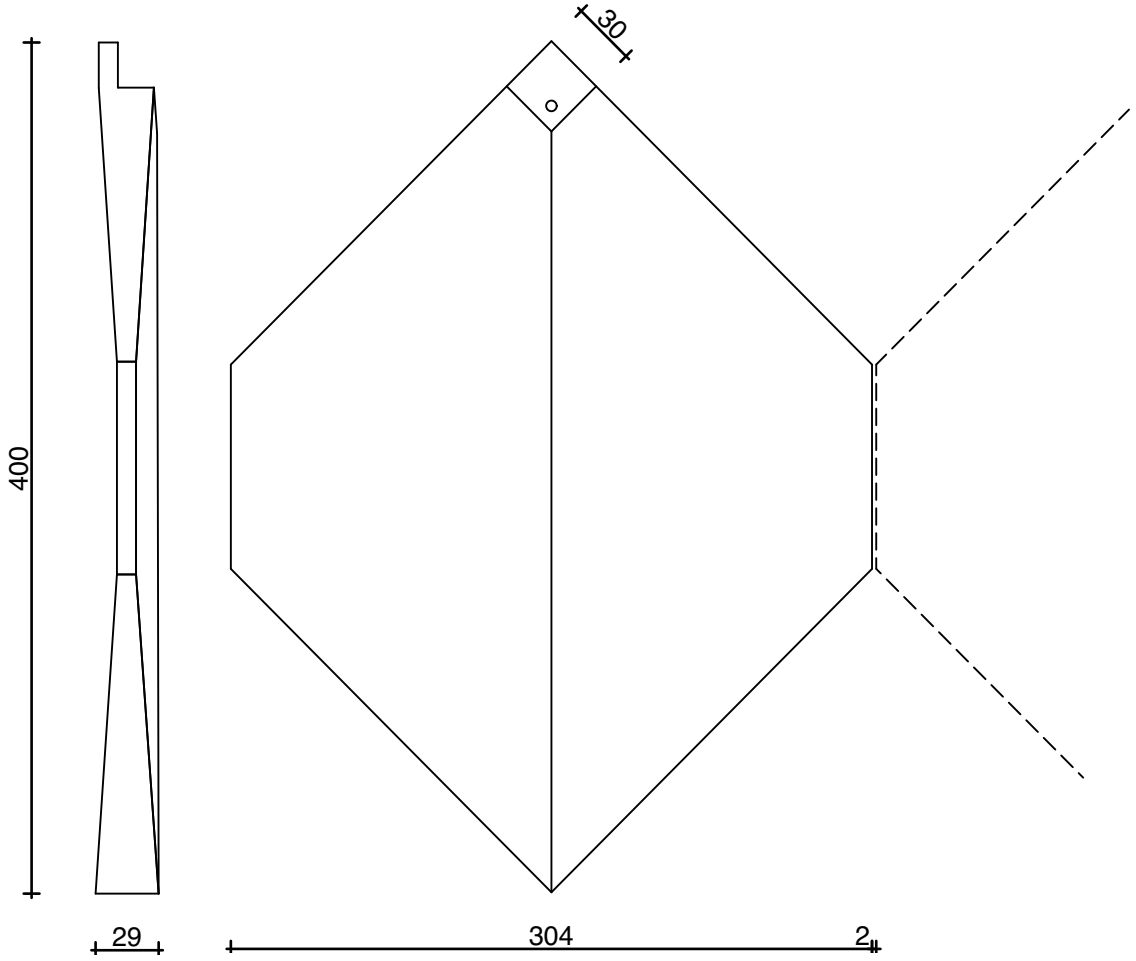
PRODUCT NAME FIRST ONE

TECHNICAL DATA

HEIGHT	400 mm
WIDTH	304 mm
THICKNESS	29 mm
NUMBER OF TILES PER M²	22.2
WEIGHT PER TILE	1.1 kg
WEIGHT PER M²	24.4 kg
MATERIAL	recycled Polyvinyl chloride (PVC)
FLAMMABILITY	
WALL: (EN 13501-1:2018)	B-s3,d0
ROOF: (EN 13501-5)	BROOF(t4)
PRODUCTION TOLERANCES	+/-2%



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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 tiles can be installed on façades and roofs with slopes between 15 and 90 degrees, provided a water-resistant layer is applied.
- Correct and compliant installation is the responsibility of the structural engineer and must be verified accordingly.

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 wooden substructure made of timber battens. Minimum quality: C16. Minimum batten section: 24 mm x 48 mm. Screws must not protrude through the batten.
- Install horizontal battens with 150 mm spacing on a vertical substructure set 600 mm apart.
- The vertical substructure creates a ventilated cavity.
- Provide ventilation openings at both the top and bottom of the façade.
- Secure each tile using three screws. Fewer screws may be used depending on the building height and local wind load, in accordance with NEN-EN 1991-1-4, as specified in our construction report. For further details, please refer to this report.
- Between tiles a space of at least 2 mm is advised.
- For corner ends and window frame connections, refer to the proposed detail drawings for various possible solutions.

FASTENERS
The following screw specifications must be met:
- Application: Suitable for exterior façade use
- Screw diameter: 4.0 mm or 4.5 mm
- Minimum screw head diameter: 8.0 mm
- Minimum axial resistance of connection: $F_{ax;Rd} \geq 0.45$ kN

Screw length requirements:
- Top screw: minimum length 35 mm
- Side screws: minimum length 60 mm

Recommended screw: SPAX Façade screw, stainless steel A2.

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.

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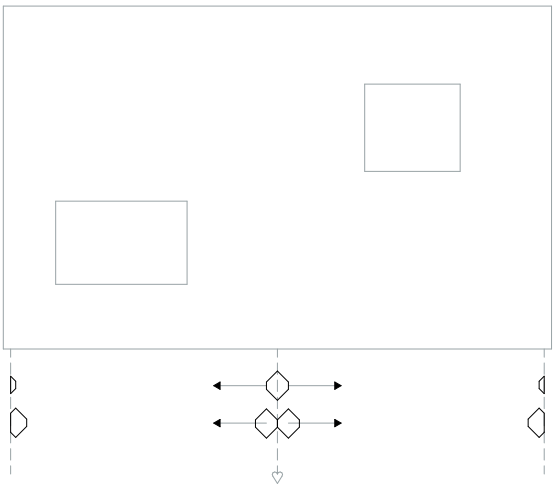
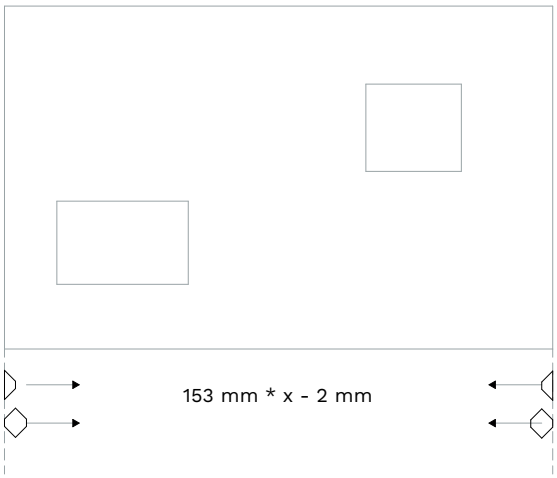
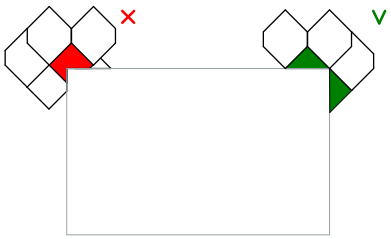
DESIGN SUGGESTIONS





OPTION A

- Start from the centre to ensure two identical corner endings.
- Ideal when using a corner profile.



OPTION B

- Start from a corner, using a full (and half) tile to achieve a tidy corner finish.
- If necessary, add an additional 3 mm gap between the tiles (153 mm can then become 154 mm, 155 mm or 156 mm).

WINDOW CORNERS

Cut tiles in a straight line where possible, instead of sawing a corner.

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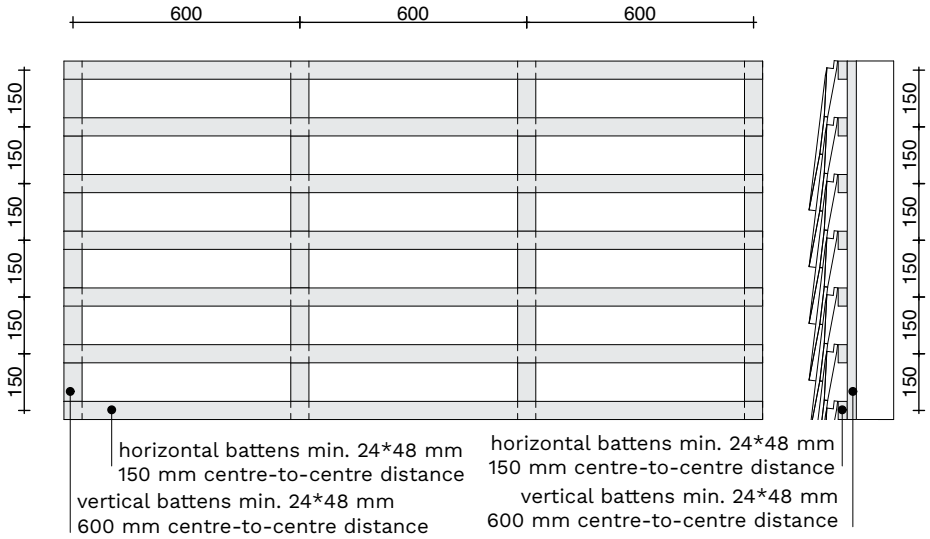
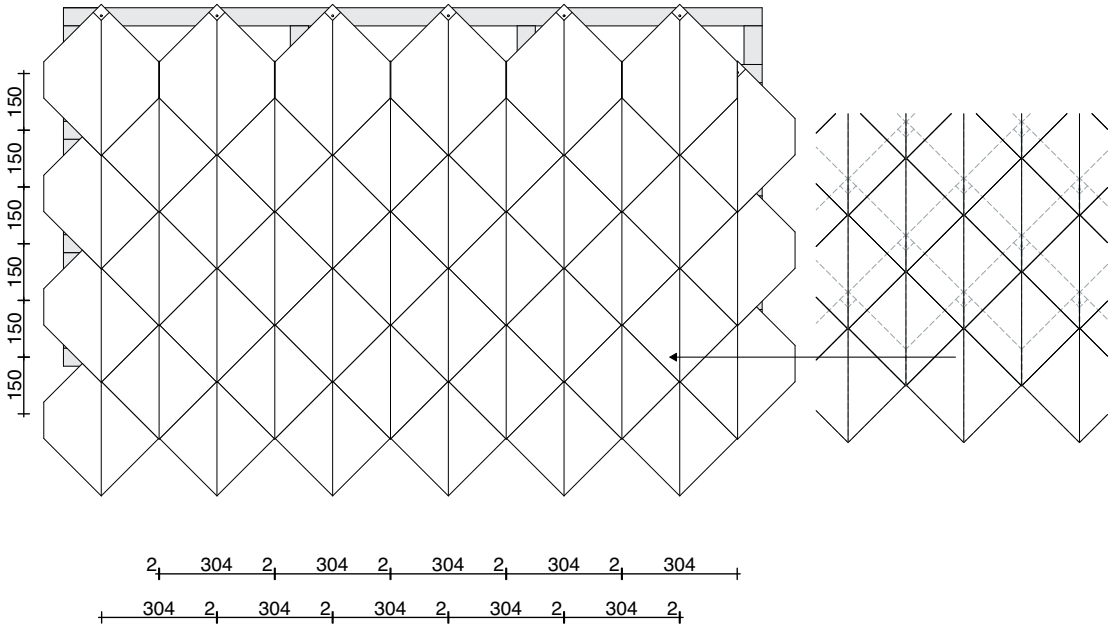
WOODEN STRUCTURE



TILE PATTERN



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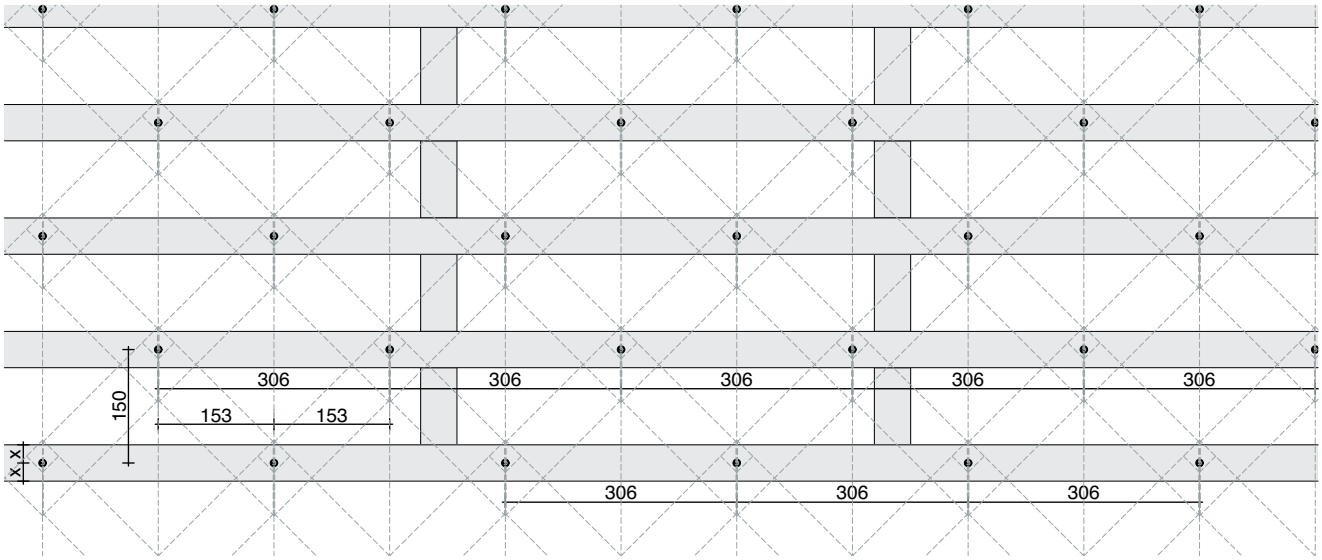
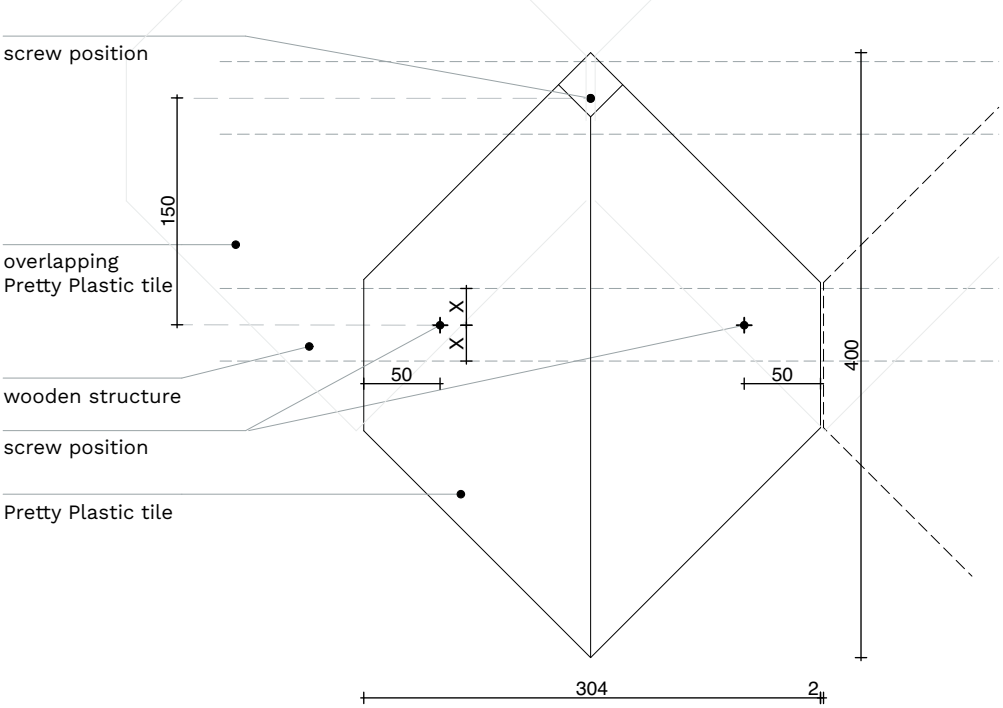
MEASURE PLAN



SCREW POSITIONS



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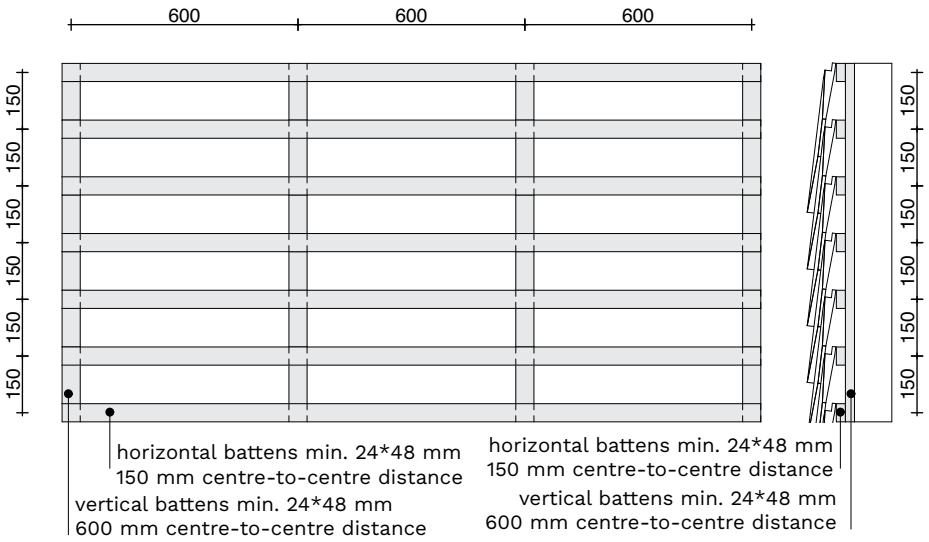
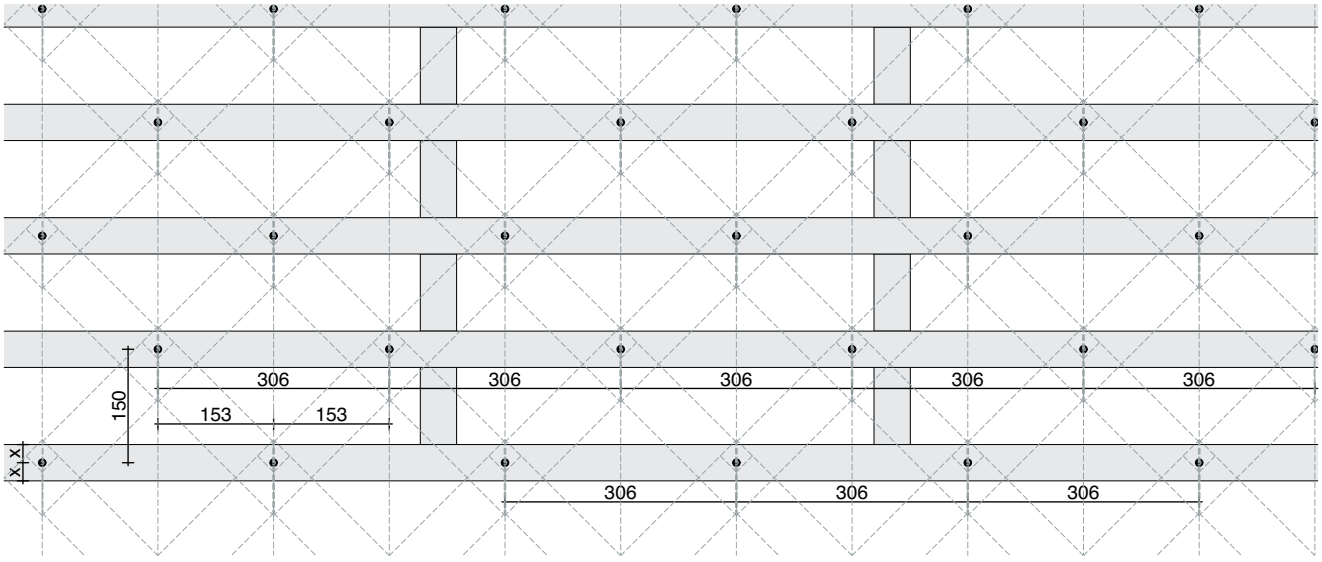
STEP 1



1. Construct a wooden framework in front of the (insulated) wall.

STEP 2



2. Determine the starting point based on the corner detail (details D12–D16) and follow the design recommendations.

Mark the screw points on the wooden structure.

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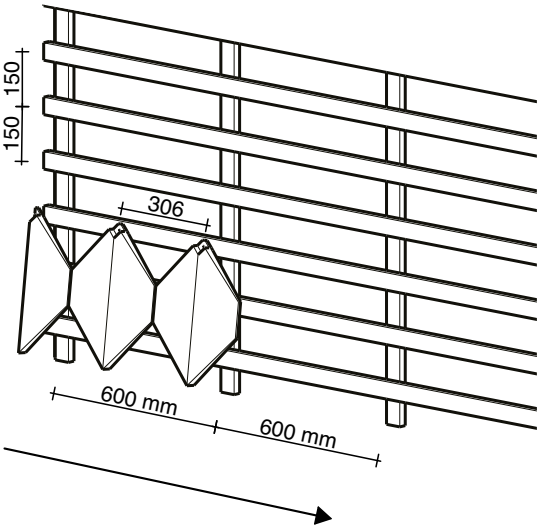
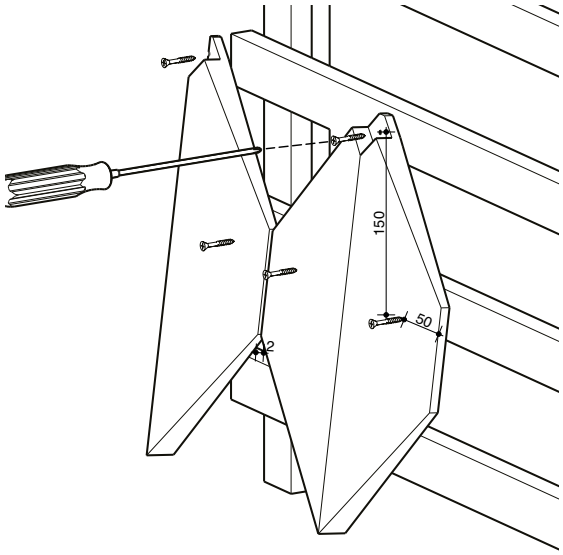
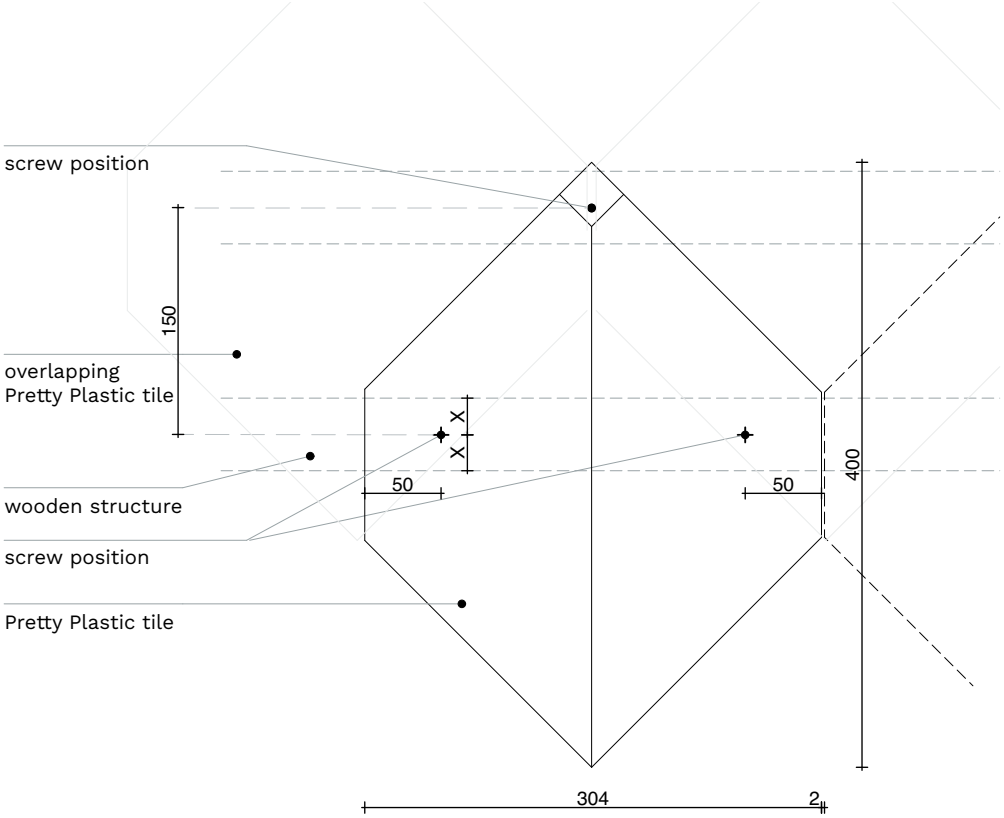
STEP 3





3. Start at the bottom left corner or from the centre of the bottom row. Install and secure the bottom row, using three screws per tile.



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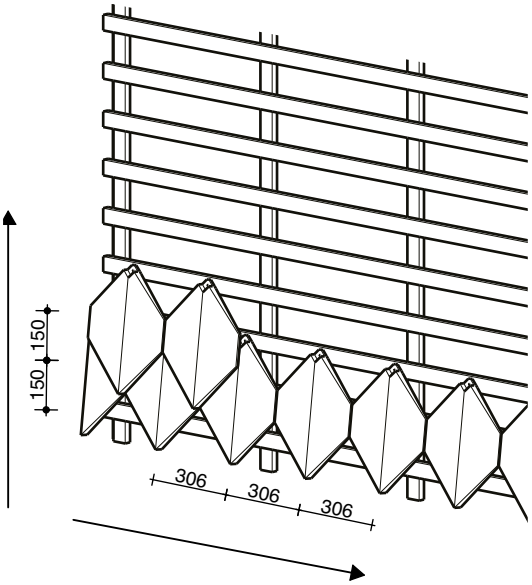
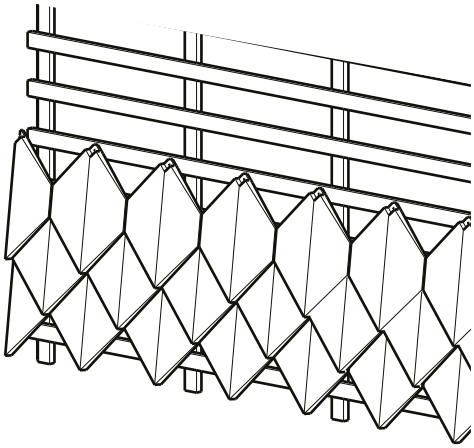
STEP 4



4. Continue with the next rows. Cut tiles as necessary to ensure proper fit.



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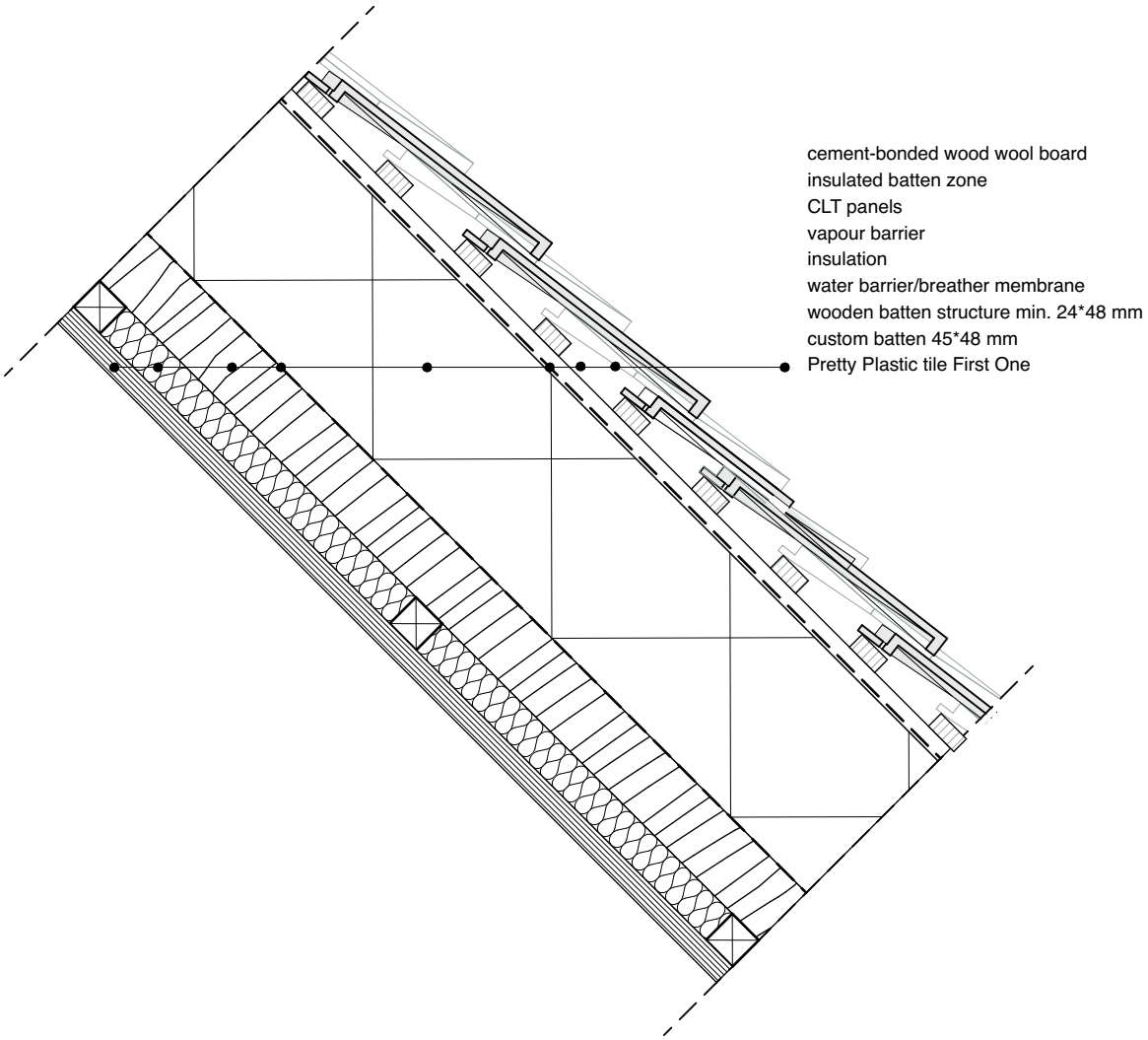
ROOF DETAIL
SCALE 1:10



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reference details

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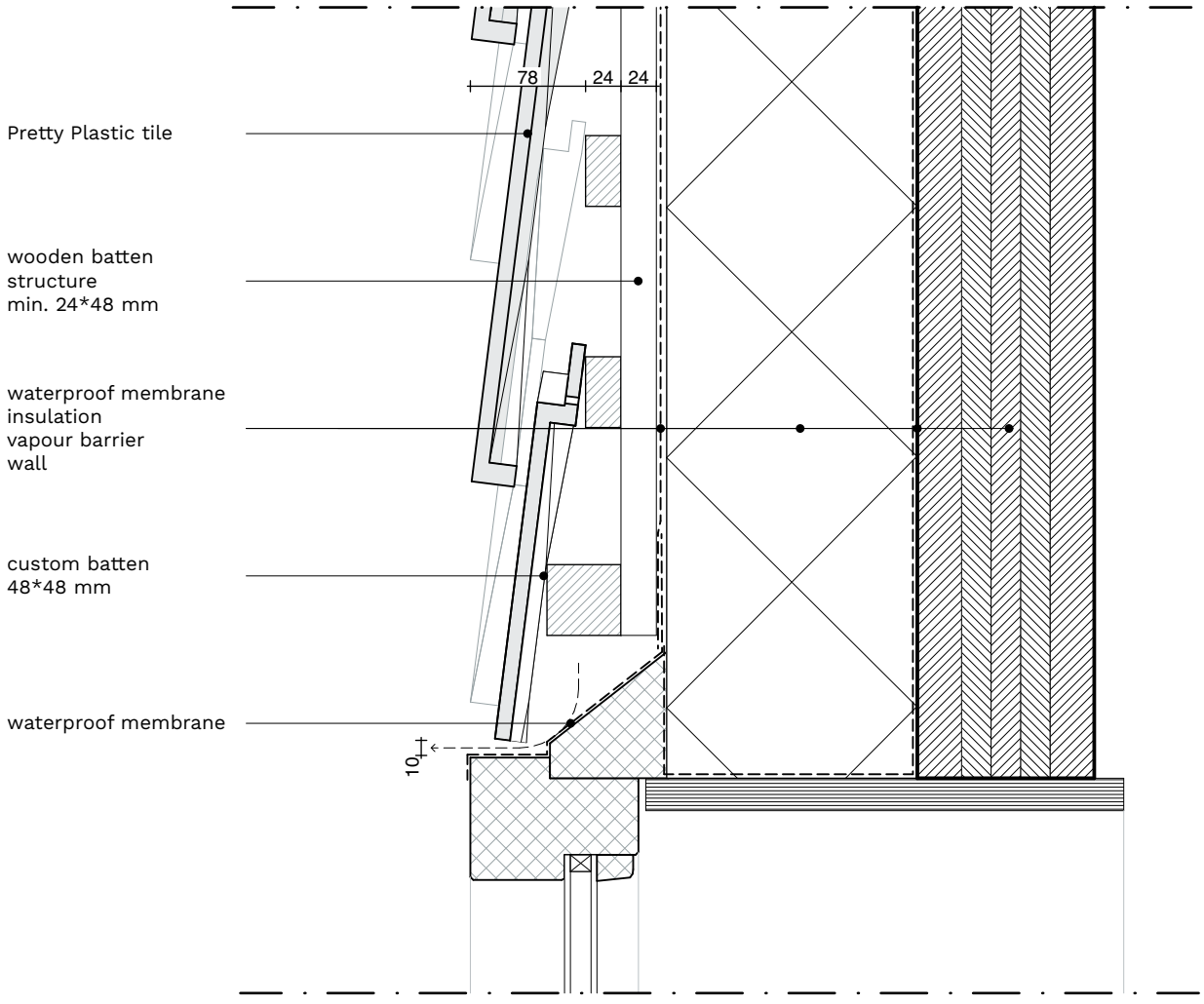
D1 - TOP CONNECTION WINDOW FRAME

SCALE 1:5



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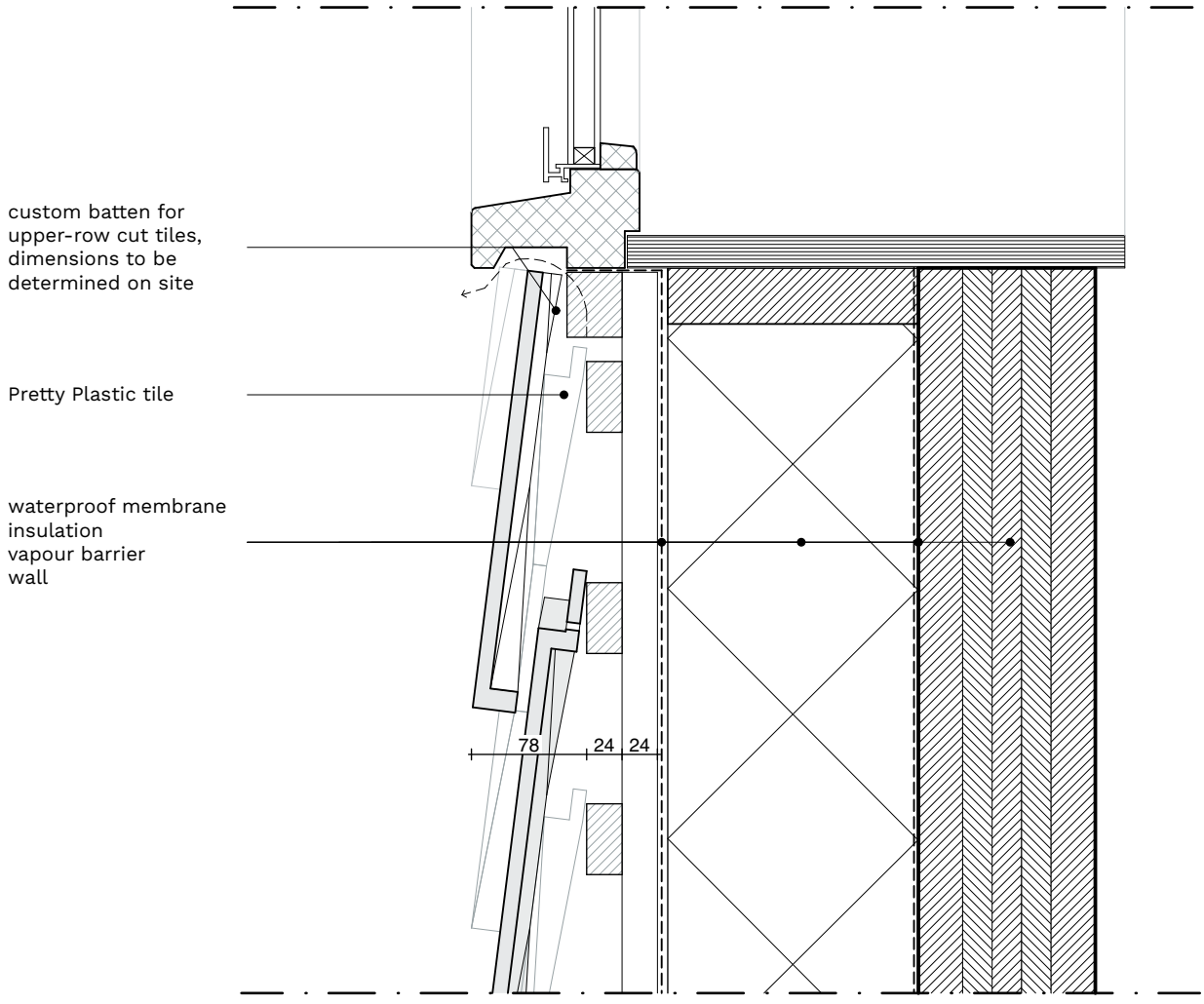
D2 - BOTTOM CONNECTION WINDOW FRAME

SCALE 1:5



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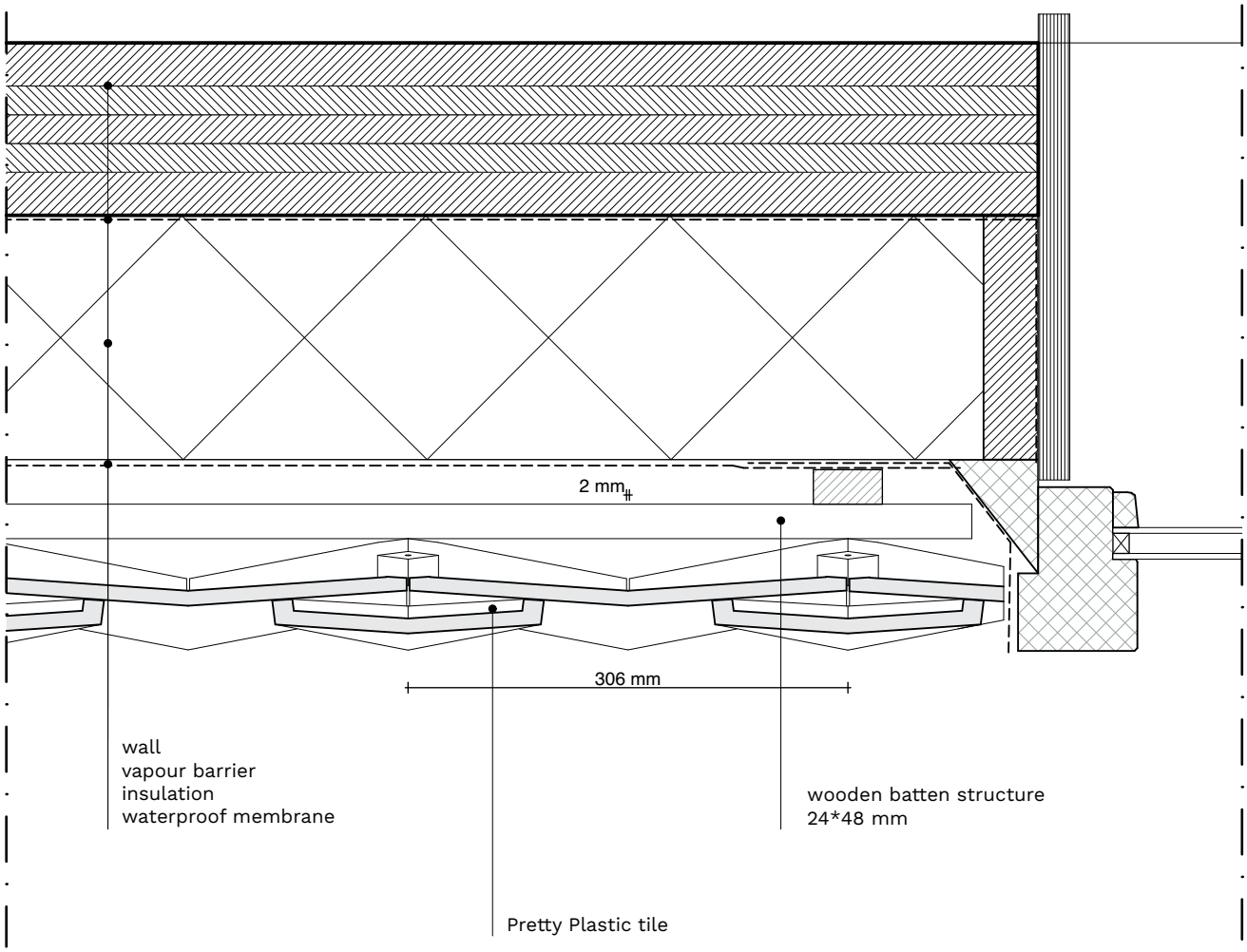
D3 - WINDOW FRAME HORIZONTAL

SCALE 1:5



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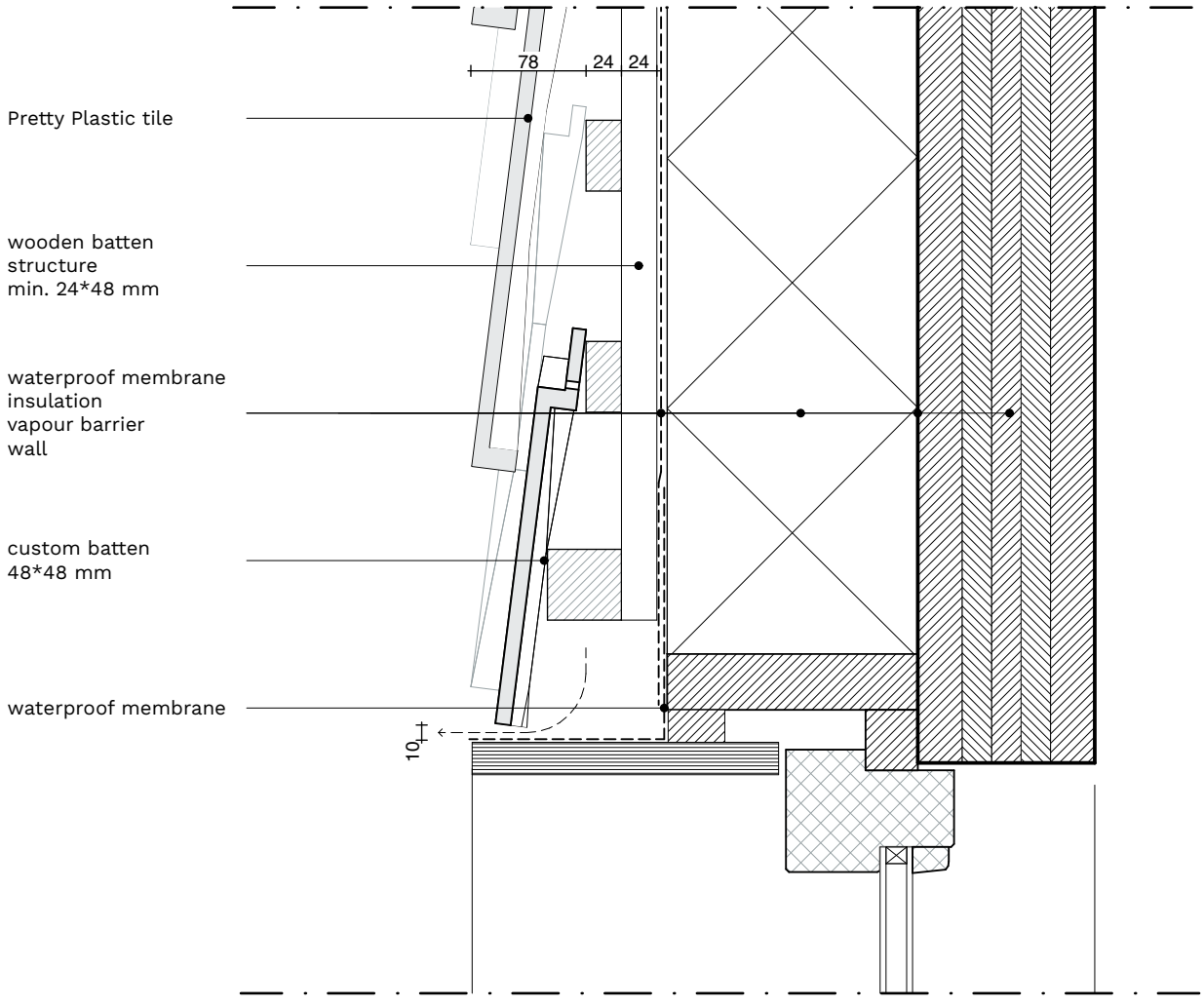
D4 - TOP CONNECTION WINDOW FRAME

SCALE 1:5



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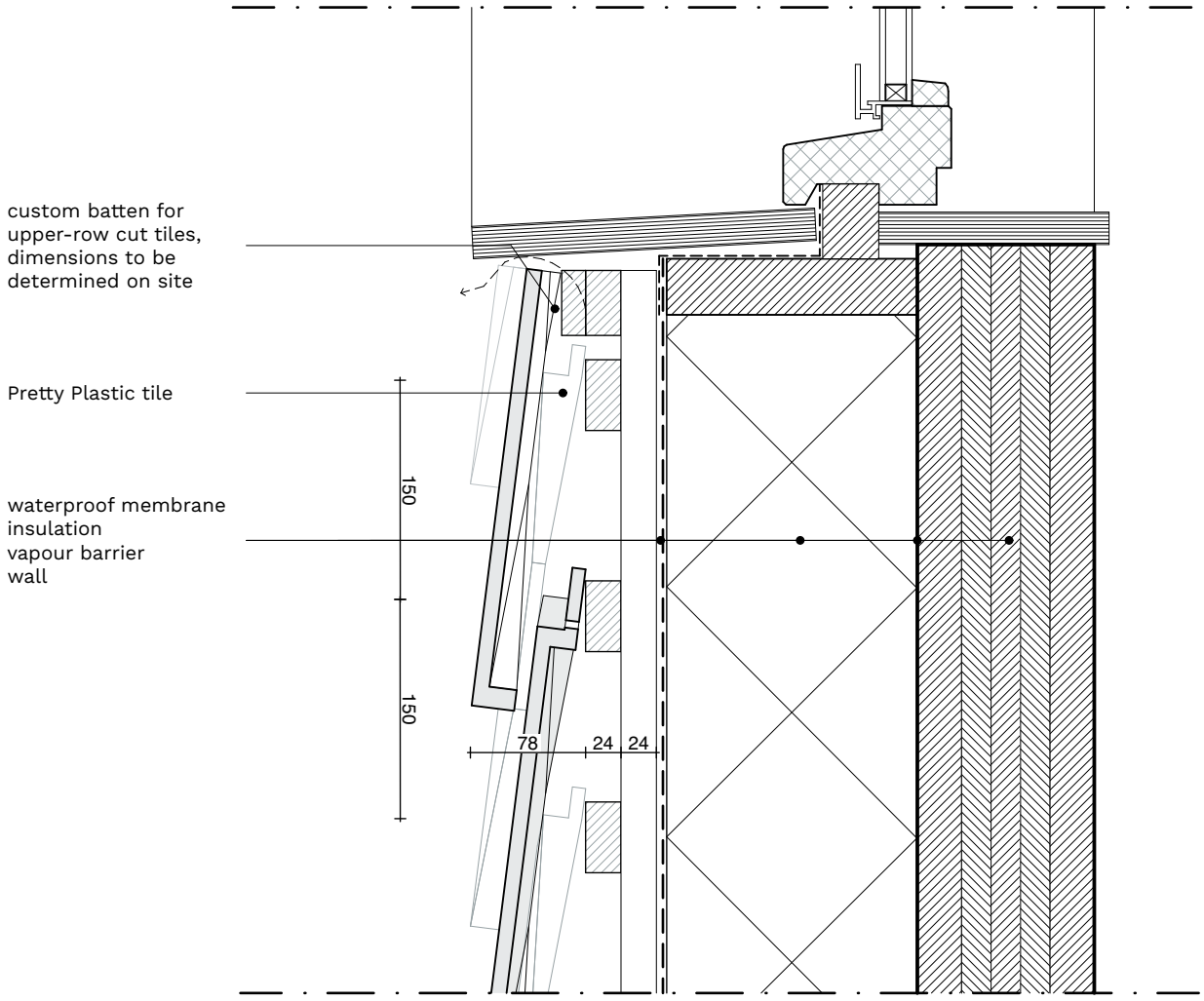
D5 - BOTTOM CONNECTION WINDOW FRAME

SCALE 1:5



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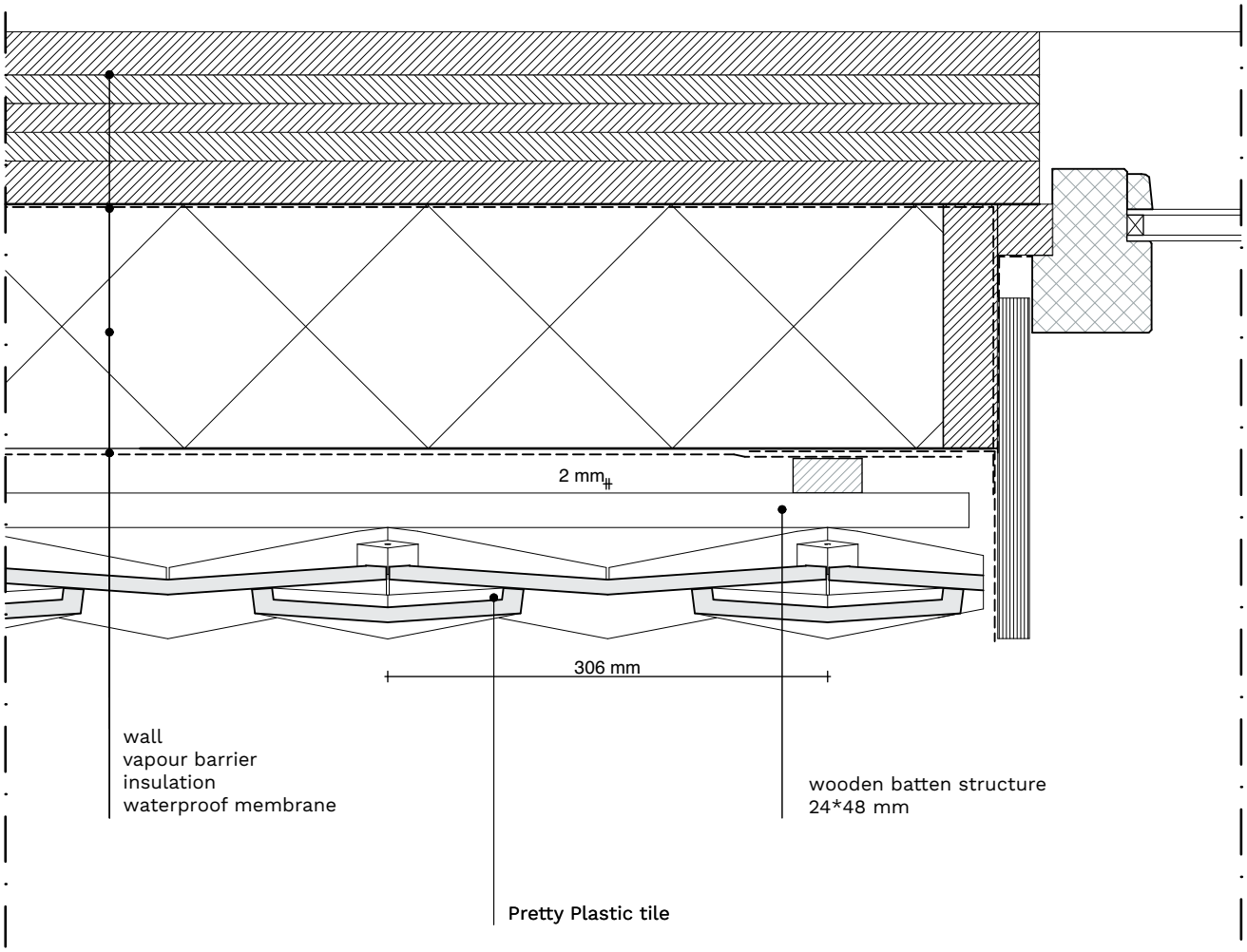
D6 - WINDOW FRAME HORIZONTAL

SCALE 1:5



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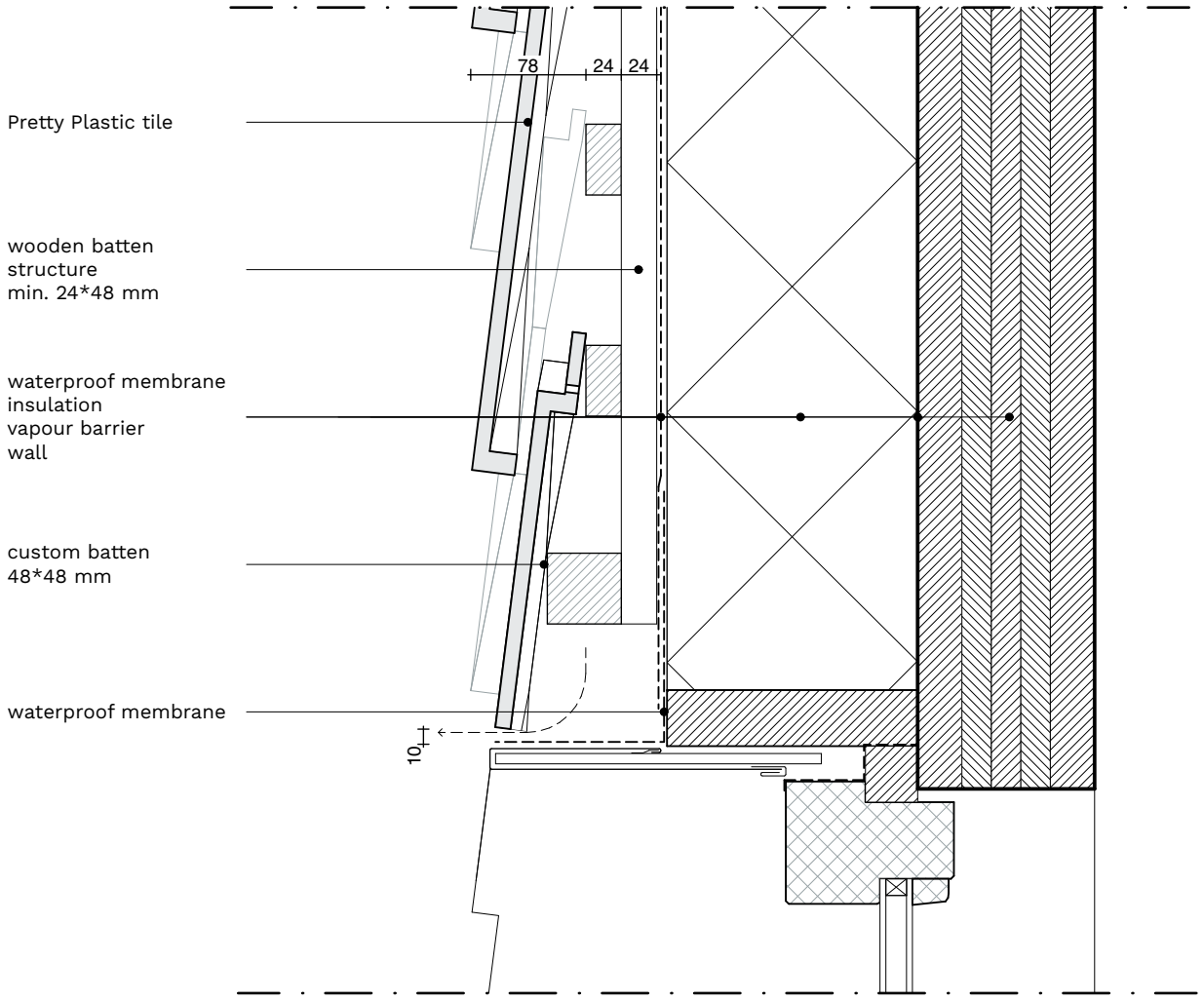
D7 - TOP CONNECTION WINDOW FRAME

SCALE 1:5



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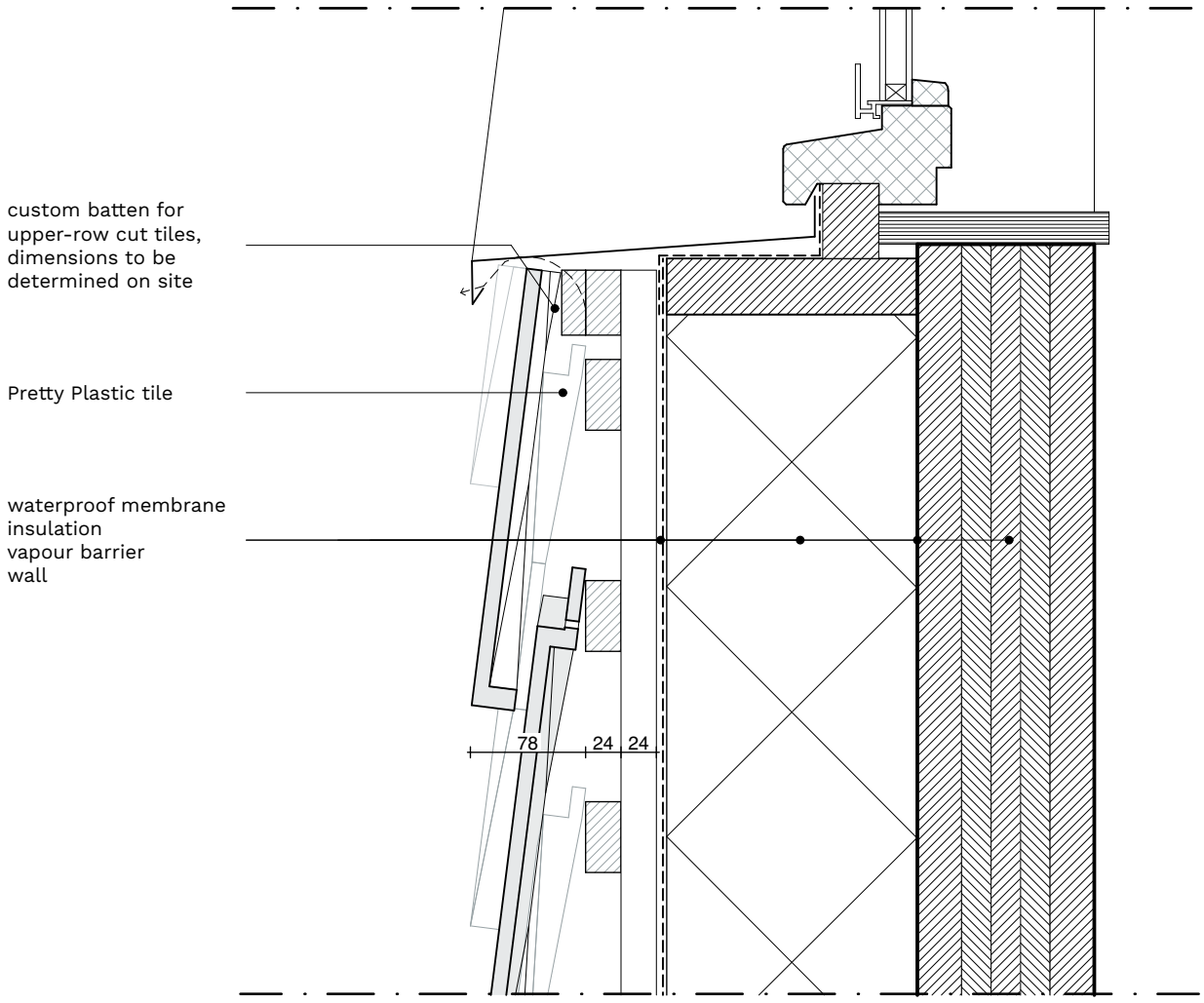
D8 - BOTTOM CONNECTION WINDOW FRAME

SCALE 1:5



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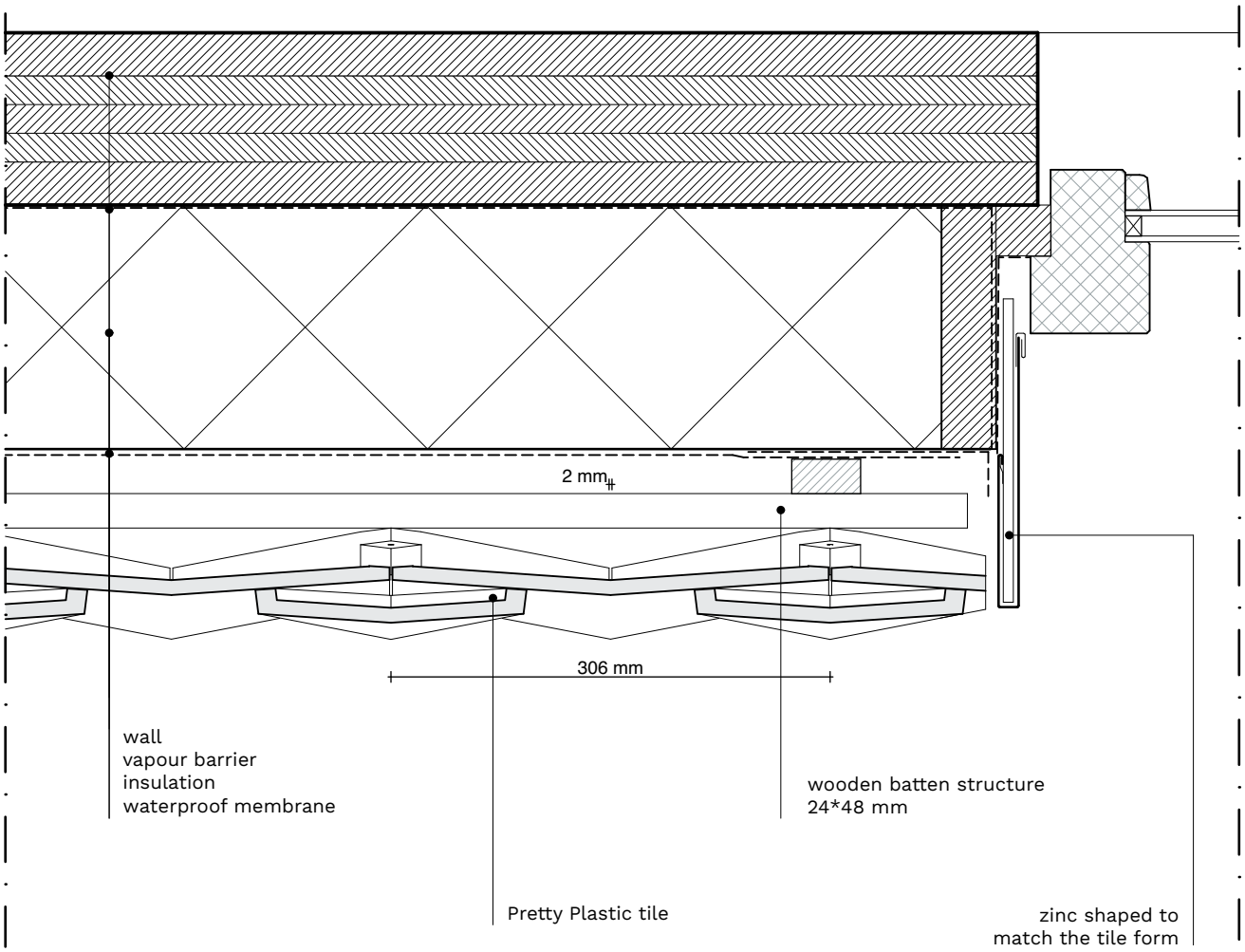
D9 - WINDOW FRAME HORIZONTAL

SCALE 1:5



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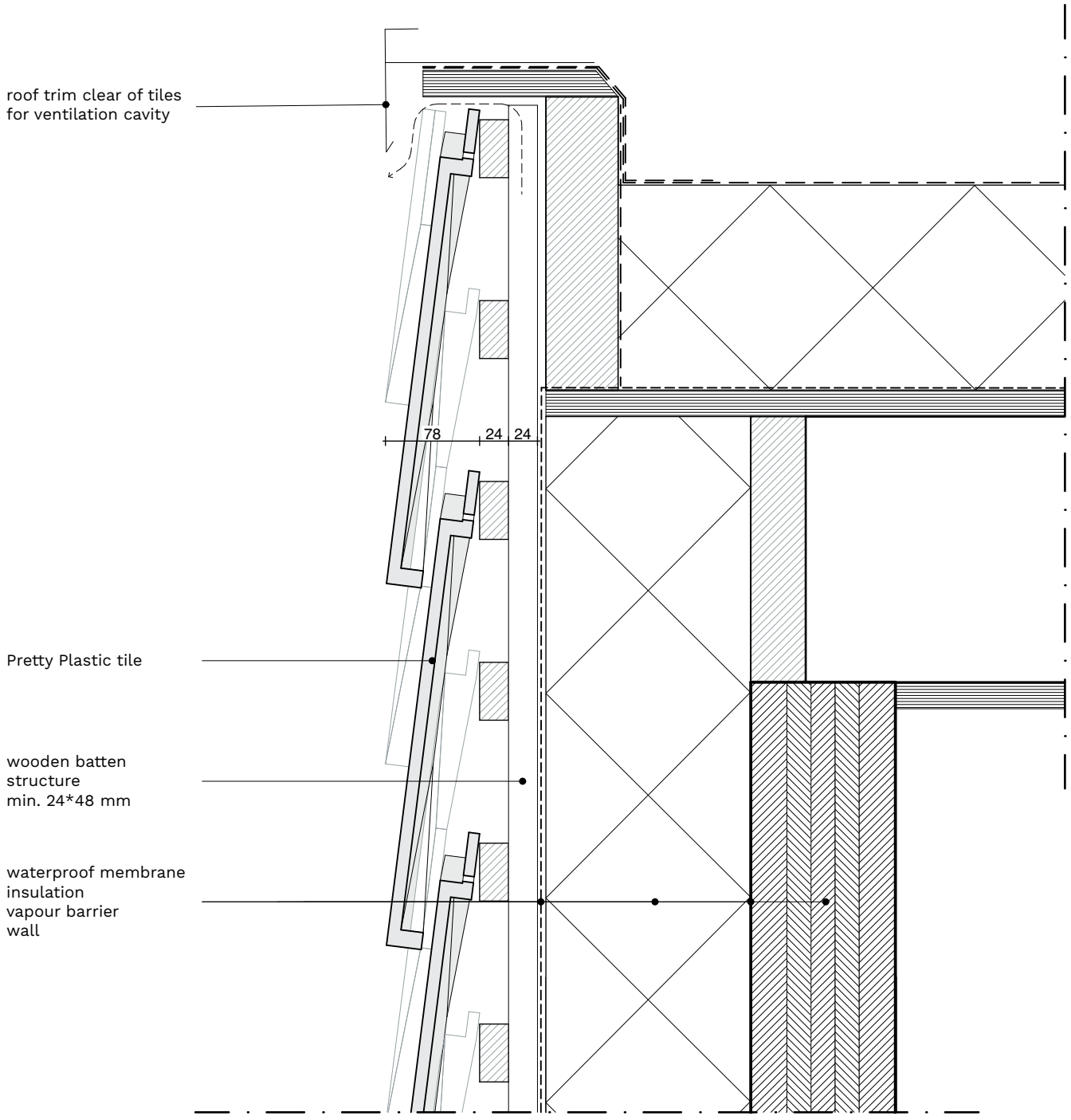
D10 - ROOF CONNECTION

SCALE 1:5



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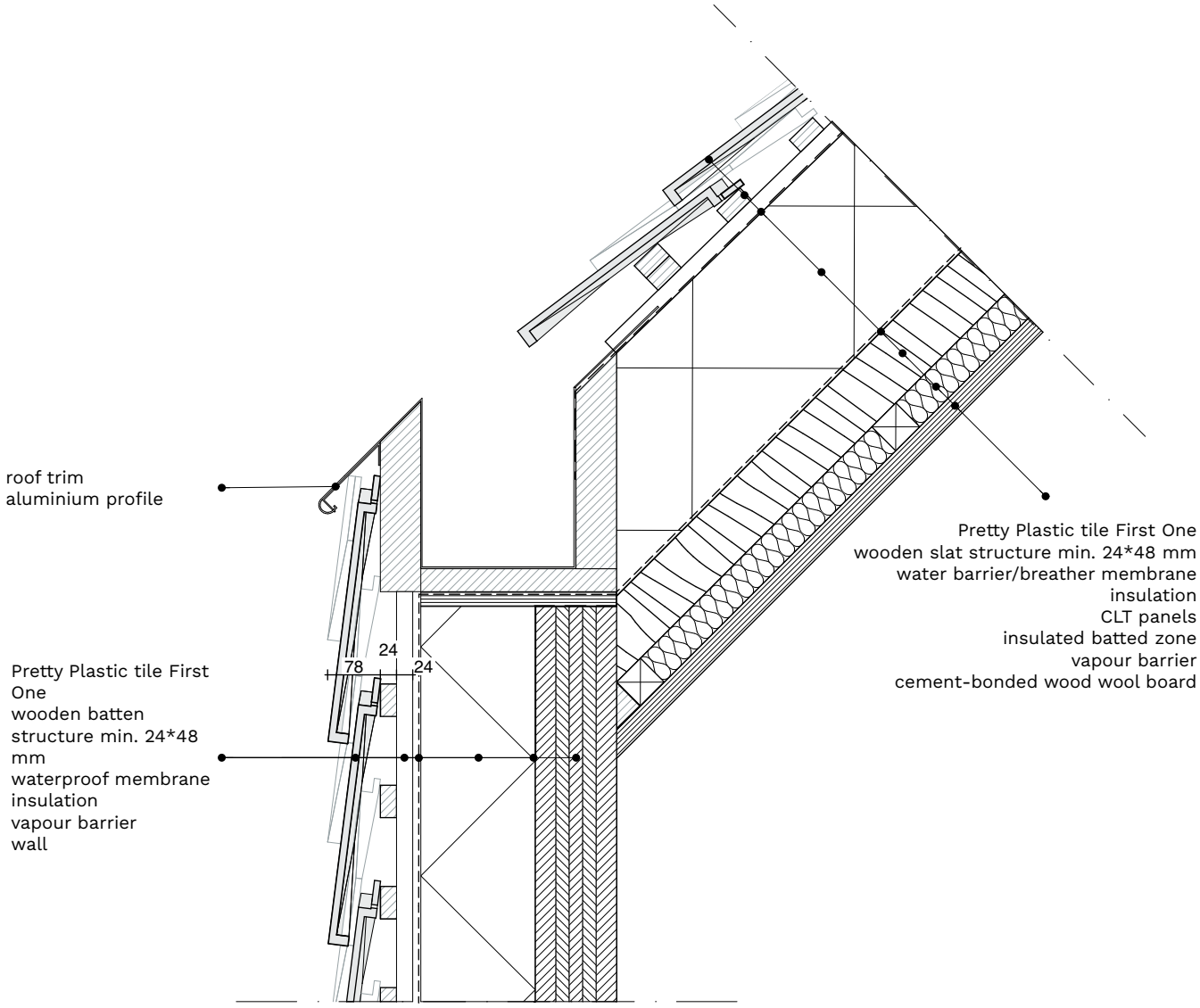
D10BIS - ROOF CONNECTION

SCALE 1:10



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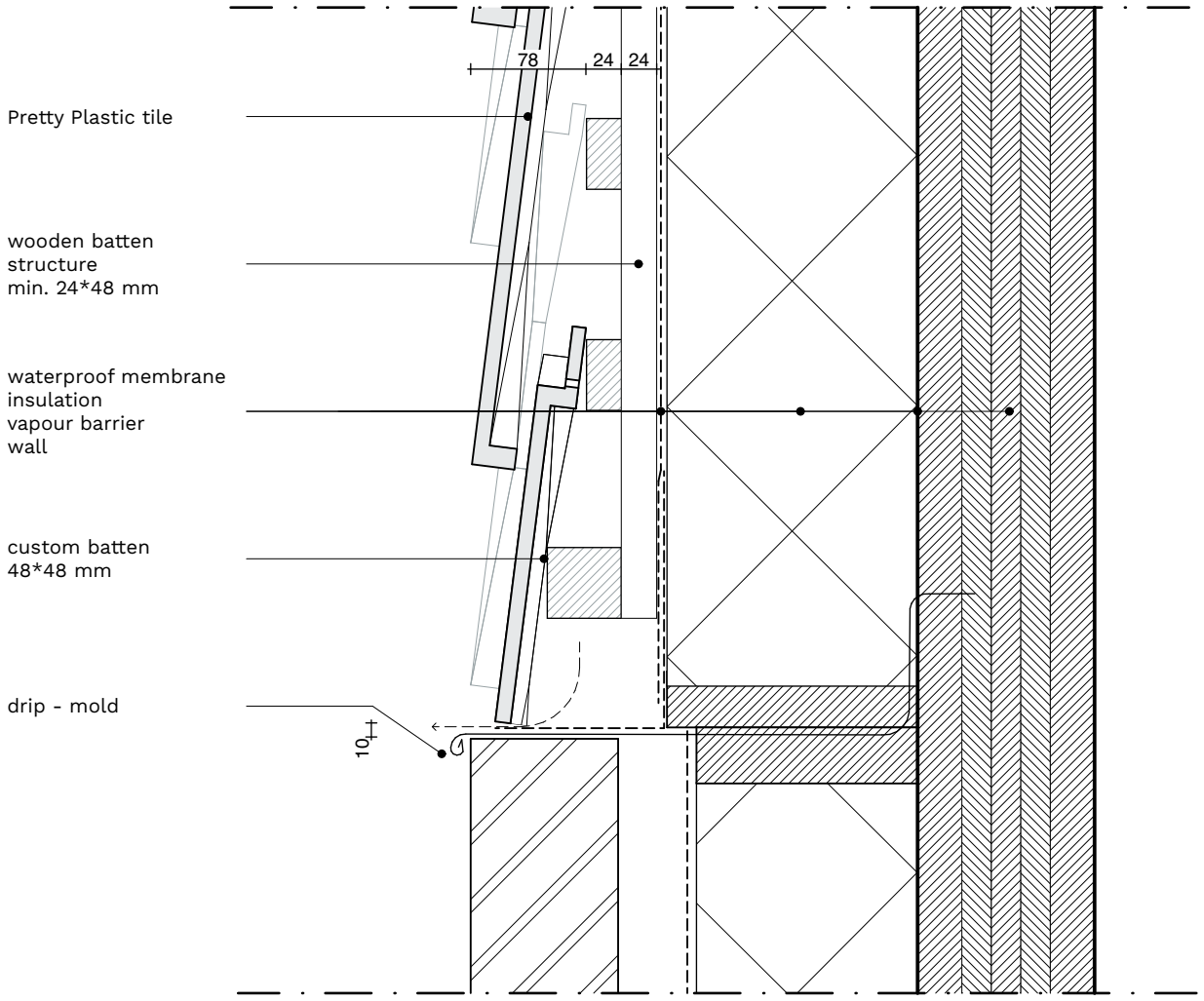
D11 - WALL CONNECTION

SCALE 1:5



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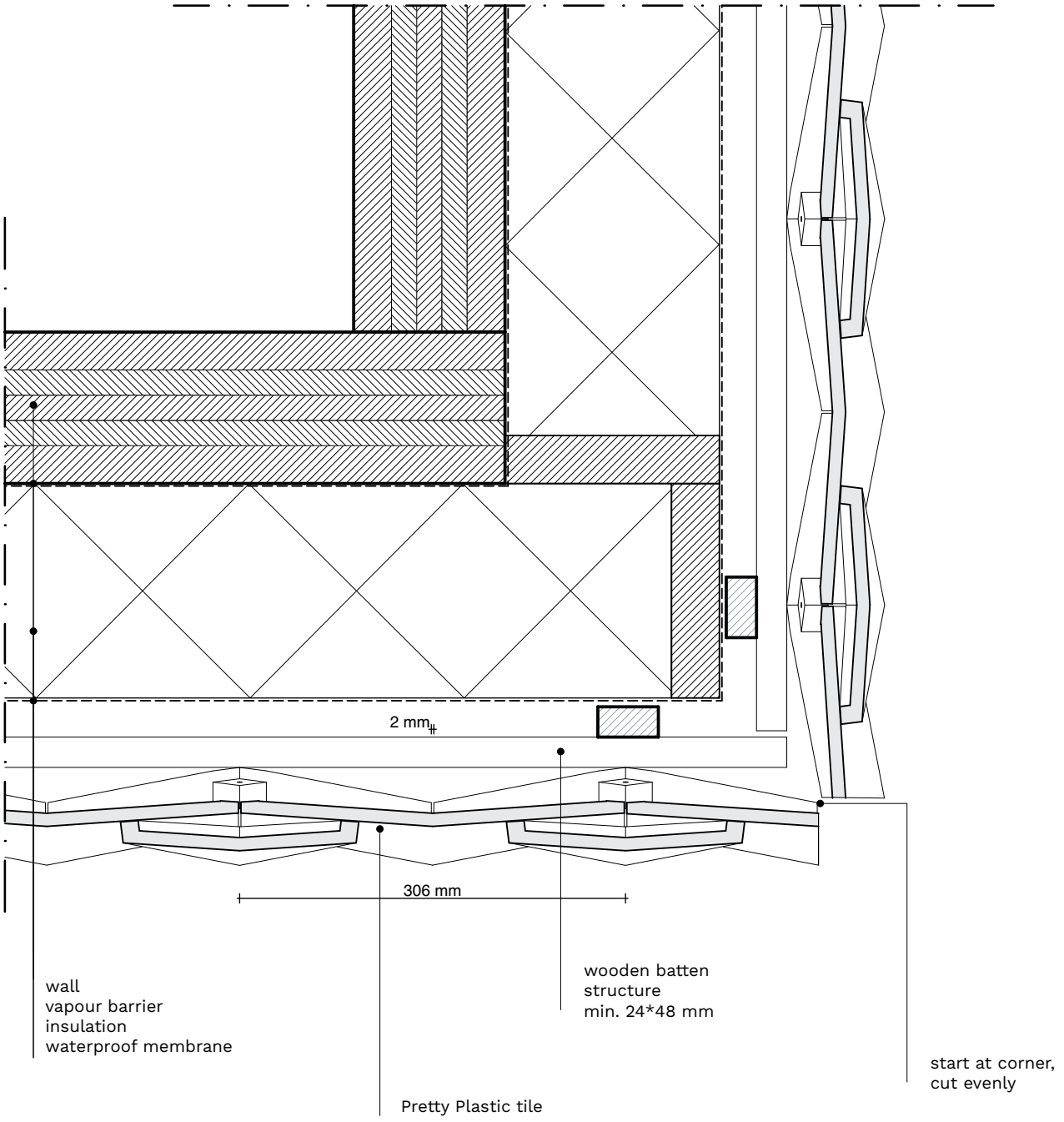
D12 - CORNER CONNECTION

SCALE 1:5



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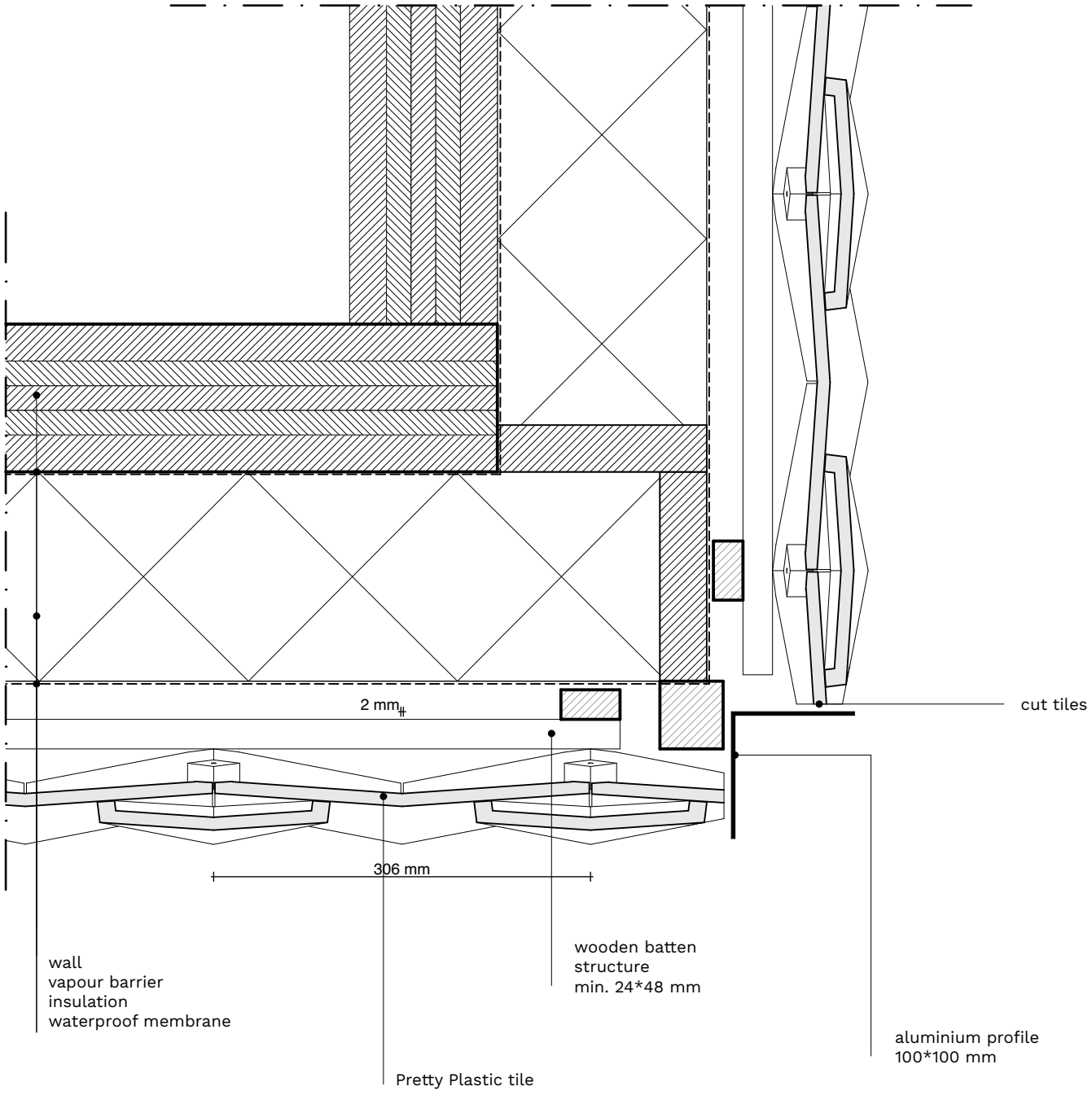
D13 - CORNER CONNECTION

SCALE 1:5



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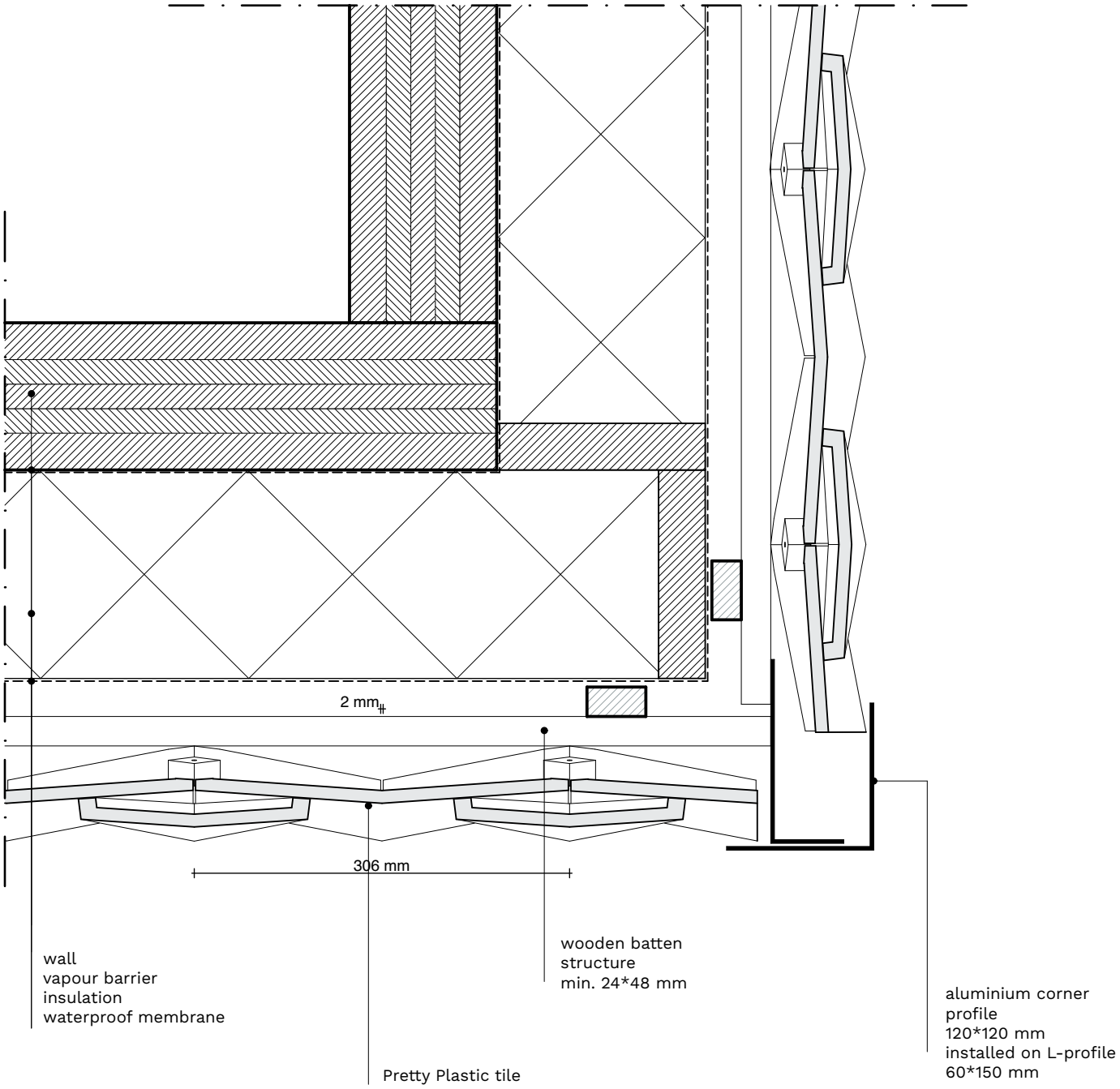
D14 - CORNER CONNECTION

SCALE 1:5



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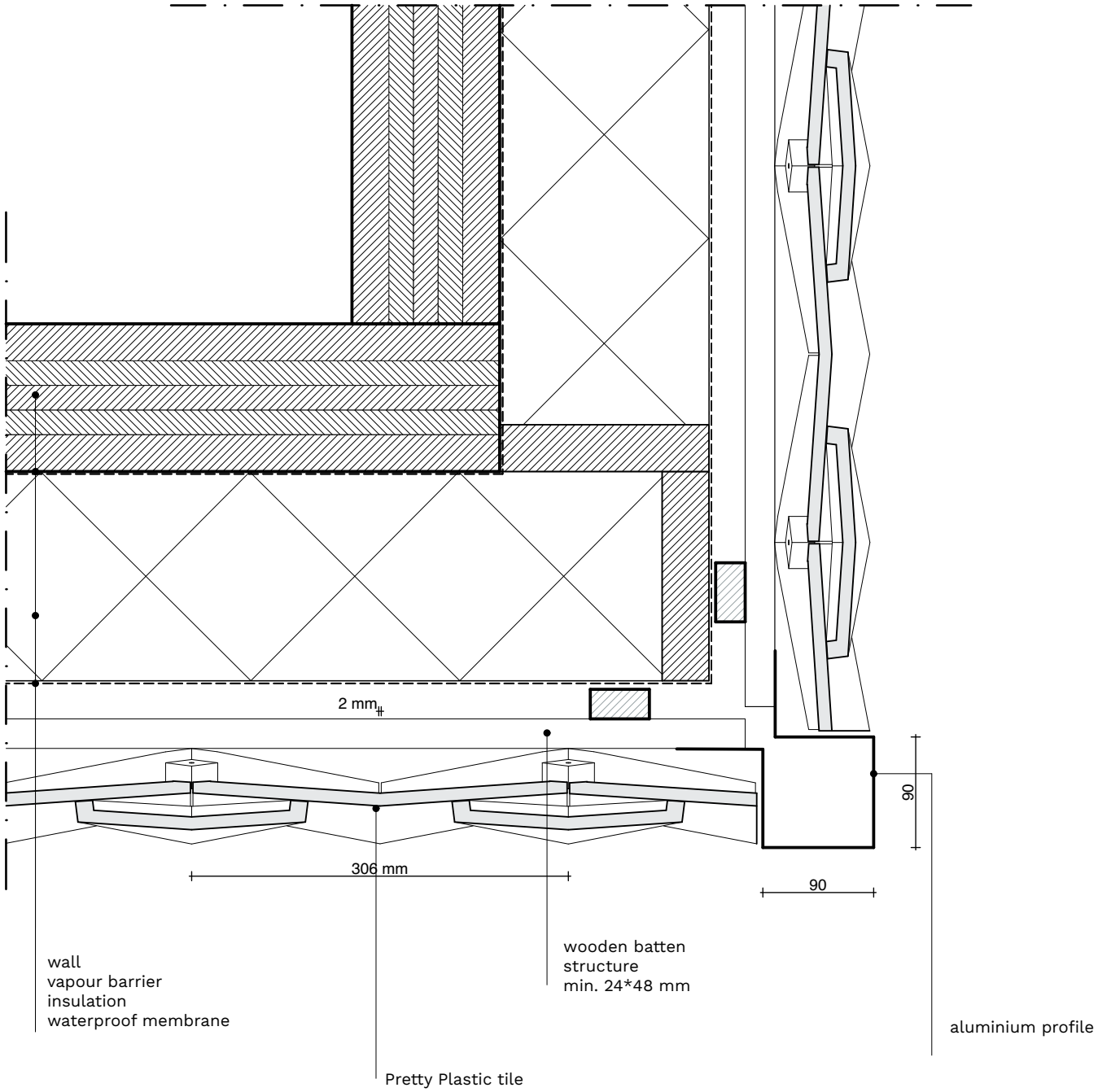
D15 - CORNER CONNECTION

SCALE 1:5



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D16 - CORNER CONNECTION

SCALE 1:5