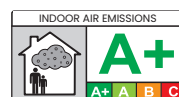


PRB RENDERBOARD FOR EWI & RENDER ONLY SYSTEMS

DESIGNED FOR TIMBER & STEEL FRAMES EXTERNALLY & INTERNALLY



The **A1 fire rated** 2400 x 1200 x 12.5mm **PRB RENDERBOARD** is suitable for both internal wall constructions and external façades of ventilated cavity and directly applied applications. It is designed for the **PRB DIRECTBOND** render systems, **PRB EWI** External Wall Insulation systems, for Render Only Systems and as a sheathing board for both new and renovation applications. It is suitable for buildings of unlimited height.



DESCRIPTION

PRB RENDERBOARD is a strong, robust, impact resistant fibre-reinforced lightweight cement board.

PRB RENDERBOARD is easy to cut and quick and easy to install.

PRB RENDERBOARD is safe to use and is guaranteed by CE mark and European Technical Approval ETA-21/0834.

PRB RENDERBOARD is non-combustible (class A1 fire rating) and provides a sound substrate that is water resistant and suitable for withstanding extreme weather conditions. It does not decay, deform, flake or crumble.

PRB RENDERBOARD can be applied to walls, soffits and ceilings.

With the **PRB RENDERBOARD**, it is possible to achieve the same thermal performance as brick and block with a thinner wall.

APPLICATION

The **PRB RENDERBOARD** is suitable for internal applications e.g. bathrooms, wet rooms, showers, internal fire walls etc and is used in exterior applications for walls, either as a directly-applied render application which may also be known as a water-managed render system, or as a ventilated render system, which is created by forming a cavity using treated timber battens or galvanised or stainless steel rails. An EWI System can also be installed onto the board and the board can also be applied to soffits and ceilings.

The rough textured side of the board is the external face and this is the side that is rendered.

The boards are generally laid horizontally and in a brickwork pattern e.g. the vertical board joints do not align one above the other so they are perpendicular to the direction of the substrate framework, however this may vary subject to the application so before proceeding always check. Before proceeding we recommend you obtain a PRB specification.

FOR A DIRECTLY APPLIED RENDER APPLICATION

The boards should have a 2 – 3 mm gap between them and the joints should be sealed. Across all board joints apply a 100mm wide, 1 – 2 mm layer of **PRB FONDISOL F** or **PRB FONDIMUR** embedded with 100 mm wide strips of **AVN MESH**. Smooth over the basecoat and ensure the mesh is sealed. Overlap the mesh at the joins a minimum of 100 mm.

The board can then receive a 3 – 4 mm minimum layer of either **PRB FONDISOL F** or **PRB FONDIMUR** fully embedded with **AVN MESH** followed by the PRB required finish.

FOR AN EWI APPLICATION

The boards should have a 2 – 3 mm gap between them and the joints should be either sealed or a full bed adhesive layer should be applied to seal the joints. For 'A' rated applications the joints should be sealed across all board joints by applying a 100mm wide, 1 – 2 mm layer of **PRB FONDISOL F** or **PRB FONDIMUR** embedded with 100 mm wide strips of **AVN MESH**. Smooth over the basecoat and ensure the mesh is sealed. Overlap the mesh at the joins a minimum of 100 mm.

The board can then receive the requisite PRB THERMOLOOK (EPS), PRB THERMOROCHE (Mineral Wool) or PRB THERMOBOIS (Wood Fibre) EWI systems **but ensure the insulation fixings also connect into the primary substrate.**

FOR A SHEATHING BOARD APPLICATION

Due to the variations in this type of application please contact the PRB Technical Department for further guidance.

CHARACTERISTICS

GENERAL CHARACTERISTICS

DESCRIPTION	VALUE	TOLERANCE
Dry Density (kg/m ³) (EN 12467)	960	+/- 15%
Weight (kg/m ²) /per 2.4 X 1.2 sheet	12 / 33.56	+/- 15%
Width (mm)	1200	+/- 3.6 mm
Length (mm)	2400	+/- 5 mm
Thickness (mm)	12.5	+/- 1.2 mm
Reaction to fire (EN 13501-1)	A1 - Non Combustible	-

TECHNICAL CHARACTERISTICS

DESCRIPTION	VALUE
Fire resistance (Min)	240
Bending Resistance MoR (in wet conditions)(MPa)according to EN 12467	5.8
Modulus of Elasticity MoE (in wet conditions)(MPa)according to EN 12467	1043
Minimum bending radius - Whole board (m)	2.0
Minimum bending radius - 300 mm wide strip of board (m)	0.9
Thermal conductivity @ 10°C (W/m ² K)	0.20
Thermal conductivity @ 20°C (W/m ² K)	0.20
Water vapour diffusion (μ) according to EN ISO 12572)	31
Specific heat (KJ/Kg K)	1
Shear load resistance of mechanical fixings (N)	840
Pull through resistance of mechanical fixings (N)	803
Resistance to eccentric vertical load (shelf with anchors) (kg)	30
Resistance to soft body impact (50kg) (J)	400
Resistance to hard body impact (50kg) (J)	>6
Tensile strength perpendicular to the plane of the board (MPa)(EN 319)	0.99
Tensile strength parallel with the plane of the board (MPa)(EN 319)	1.05
Water absorption (%)	>20
Length variation in 65 - 85% humid conditions (mm/m) (EN 318)	0.39
Compressive strength (MPa)	4.18
Linear thermal expansion (mm/°C m)	0.013
pH-value	12
Resistance to bacteria	0 - No growth
Fungal resistance	0 - No growth
Total Volatile Organic Content (μg/m ³)	77 (Low)

INSTALLATION PROCEDURE

PREPARATION

Use a fine tooth hand saw or sharp retractable utility knife to cut the **PRB RENDERBOARD**.

For straight edged cuts, use a portable circular saw or similar, fitted with a fine cut blade and dust extraction.

To create holes for pipes or to make cut outs for cables, wiring etc, use a jigsaw or for smaller holes use pre-sized hole cutters or a keyhole saw. Ensure the diameter of the opening is large enough to accept the pipe or cable but is no greater than 10 mm. The hole should be sleeved where appropriate to meet the required fire rating remit and then sealed using an appropriate sealant or sealing strip.

FIXING THE BOARD

Apply the **PRB RENDERBOARD** horizontally to the substrate framework in a staggered brick pattern format to avoid straight vertical lines.

The framework should be at a maximum of 600mm centres. Ensure there is a gap of 2–3 mm between the boards.

Where two boards meet ensure the substrate framework is central behind both boards.

The render board should form an L-shape around all openings to ensure no vertical lines coincide directly in line with window and door reveals at the corners of the openings as movement in the structure could be concentrated at these locations, which could cause cracking in the render

When installing around triangular or other types of angled windows, avoid placing board joints in line with these angled points as movement in the structure could be concentrated at these locations, which could cause cracking in the render. Always bridge these zones with full boards.

Always use the largest board format as possible and avoid installing small 'filler' sections of render board.

Ensure the boards are cut neat and square.

Technical sheet – August 2025

Render board applications may vary subject to the building design, its height, location and proximity to other buildings and wind loading requirements.

To provide a robust weathering solution and where applicable to seal the cavity, it is recommended the render board is installed the full depth of the reveals (through to the inner wall line) to all openings before window installation takes place.

Check the board detail at DPC and soffit level, to ensure the correct weathering and ventilation requirements are achieved and ensure to allow for cross ventilation around all window and door openings when carrying out the battening and tophat rail applications.

Render board fixings:

Use the PRB recommended A2-304 Stainless steel screws designed for the requisite timber or steel substrate. To avoid breaking out the board edge, the screws should be set a min. of 15 mm in from the board edges. Screws should be slightly recessed but not over tightened.

Assuming studs @ 600 mm centres and fixings @ n/e 200 mm centres = 35 screws per board.

Assuming studs @ 400 mm centres and fixings @ n/e 200 mm centres = 49 screws per board.

It is recommended when fitting the render board, to install suitable expanding sealing tape e.g. Compriband or similar, where the render board meets next to locations such as window cills, door and window perimeters, soffit and eave locations, abutments against conservatories etc: This provides a good weather seal before the rendering works are carried out. In addition install suitable meshed stop beads to create neat and straight lines. After the finished render work ensure these locations are also sealed using an appropriate flexible and weatherproof sealant.

HEALTH & SAFETY

- For health and safety information please read the Material Safety Data Sheet for each product.

The only purpose of this technical data sheet is to inform customers about the product and its specific uses. The information it contains is based on current knowledge and experience. The end user must carry out a representative test to ensure the product is suitable for their specific application and no responsibility can be accepted, or any warranty given by our Representatives, Agents or Distributors. Our general terms and conditions of sale shall prevail, and the end user should check to ensure this document has not been replaced by a more updated version.

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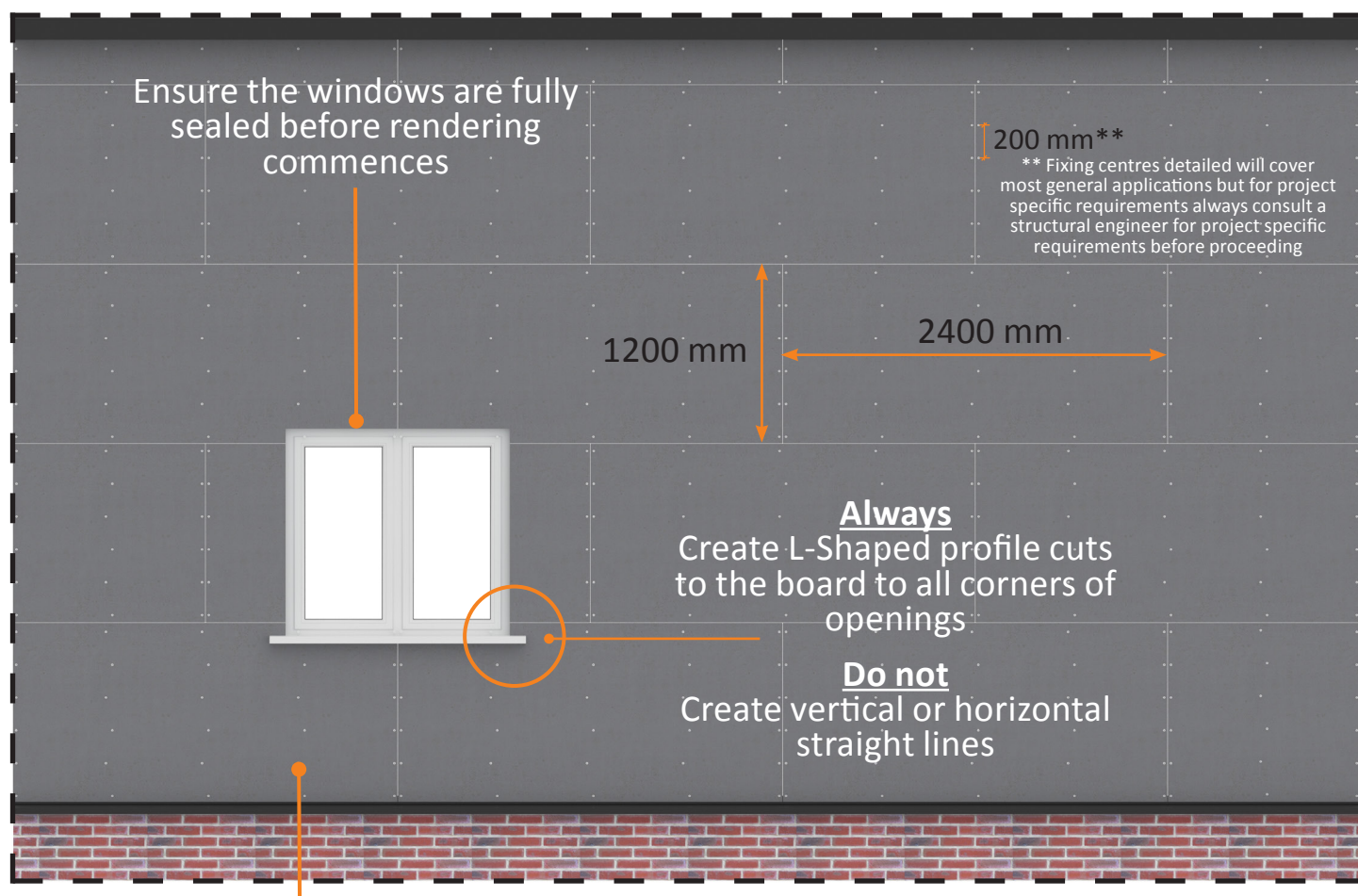
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Ensure the board joints are staggered. **Do not** create vertical joints with two boards one above the other. **Do not** create vertical or horizontal straight lines from the corners of openings. **Do not** insert small filler pieces to make up sections. **Do not** butt board joints together because this does not allow for any substrate movement which can then cause issues in the render system appearance. **Screws** should be slightly recessed but not over tightened.

Minimum board size 1200 x 400 mm (min. one stud wide) whichever is the greater size.



Render board fixings*

The boards should have a 2 - 3 mm gap between them

Render board size 2400 x 1200 mm x 12.5 mm.

Ensure there is suitable allowance for ventilation to the base and top (soffit level) and for cross ventilation around openings when carrying out the battening/rail applications.

To avoid breaking out the board edge the screws should be set a min. of 15 mm in from the board edges.

For studs @ 600 mm centres and fixings @ n/e 200 mm** centres = 35 screws per board.

For studs @ 400 mm centres and fixings @ n/e 200 mm** centres = 49 screws per board.

***Suitable A2-304 stainless steel render board fixings:**

To timber: Rawlplug R-CBS-45032-A2 x (32mm), EJOT SH3-ST5-5 x 42mm (12mm head)

To galvanised or stainless steel rails: Rawlplug R-CBS-45032-A2 x (32mm), EJOT JT3-ST5-2-6 x 28 (14.5mm head)

To aluminium rails: EJOT JT4-ST5-3-5.5 x 24 (12mm head)

Not to scale

Title:

Rev. 1 - Date: 01-08-25

PRB RENDERBOARD

GENERAL BOARD LAYOUT & FIXING CENTRES

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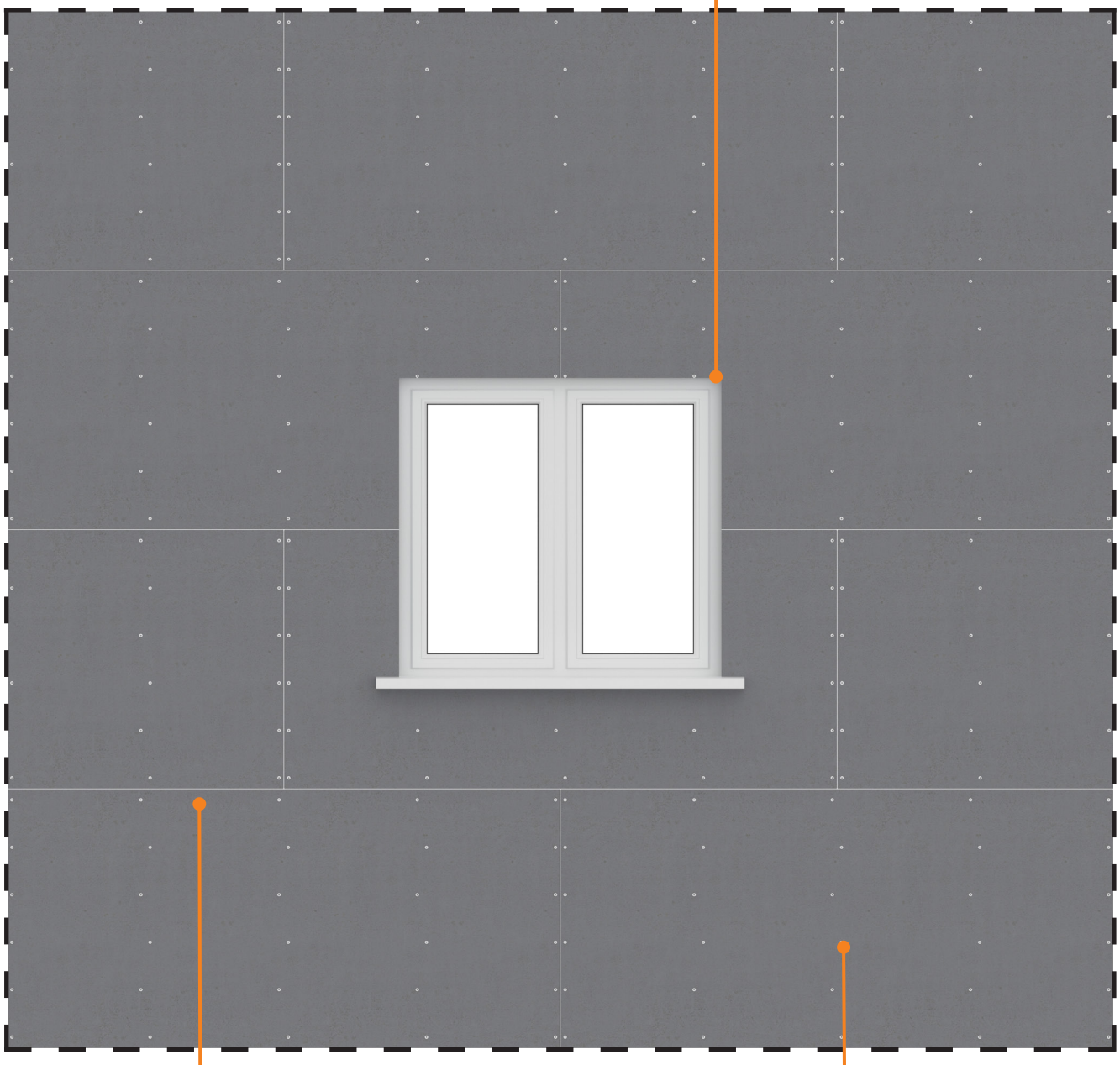
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CORRECT METHOD

An L-Shaped profile cut to the board is required to all corners of openings.

Do not create vertical or horizontal straight lines from the corners of openings. Ensure the board joints are staggered. **Do not** create vertical joints with two boards one above the other. **Do not** insert small filler pieces to make up sections.



The boards should have a 2 - 3 mm gap between them

Render board fixings*

***Suitable A2-304 stainless steel render board fixings:**

To timber: Rawlplug R-CBS-45032-A2 x (32mm), EJOT SH3-ST5-5 x 42mm (12mm head)

To galvanised or stainless steel rails: Rawlplug R-CBS-45032-A2 x (32mm), EJOT JT3-ST5-2-6 x 28 (14.5mm head)

To aluminium rails: EJOT JT4-ST5-3-5.5 x 24 (12mm head)

Not to scale

Title:

Rev. 1 - Date: 01-08-25

PRB RENDERBOARD

CORRECT RENDER BOARD LAYOUT AROUND OPENINGS

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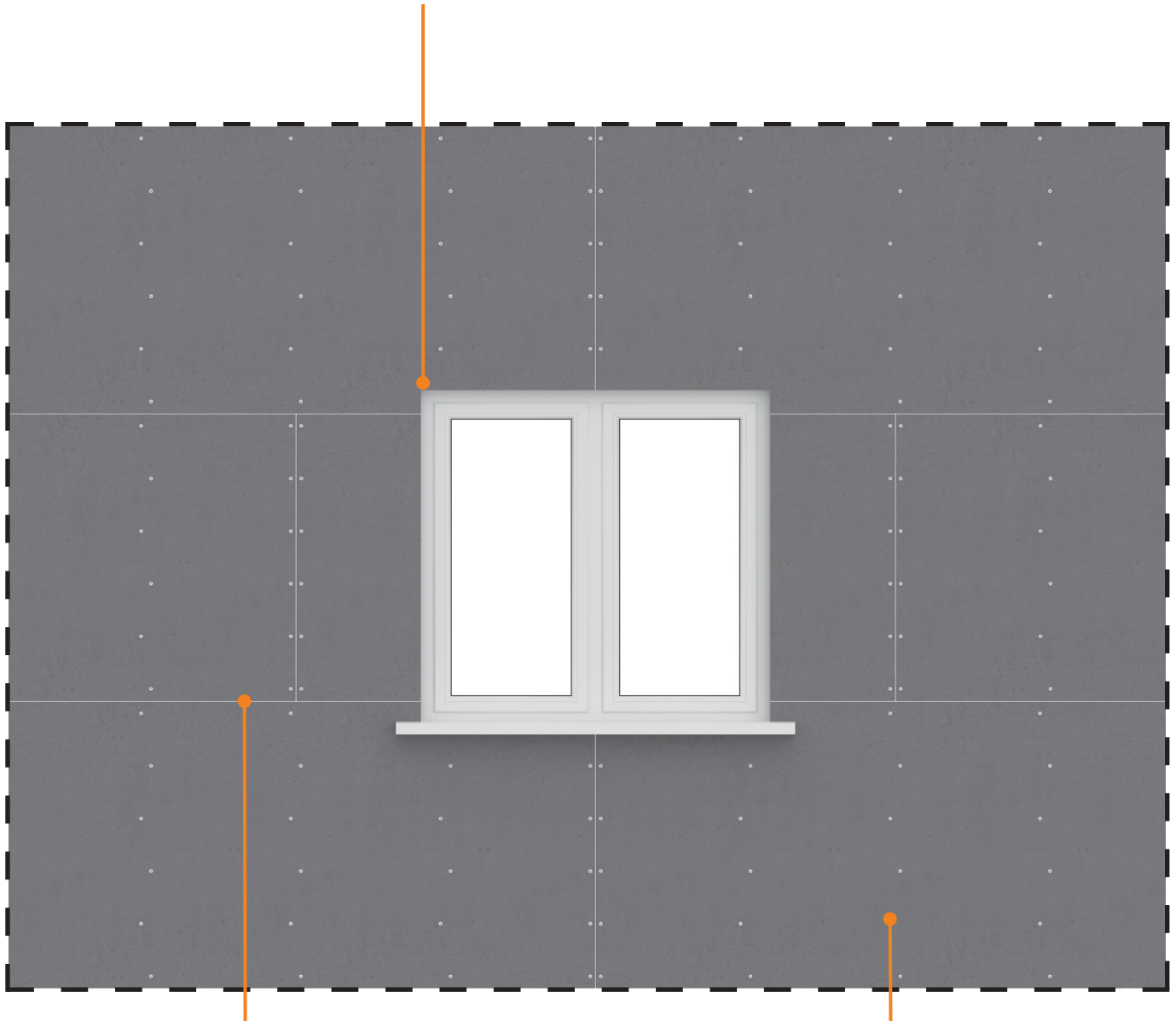
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ALTERNATE CORRECT METHOD

An L-Shaped profile cut to the board is required to all corners of openings.

Do not create vertical or horizontal straight lines from the corners of openings. Ensure the board joints are staggered. **Do not** create vertical joints with two boards one above the other. **Do not** insert small filler pieces to make up sections.



The boards should have a 2 - 3 mm gap between them

Render board fixings*

***Suitable A2-304 stainless steel render board fixings:**

To timber: Rawlplug R-CBS-45032-A2 x (32mm), EJOT SH3-ST5-5 x 42mm (12mm head)

To galvanised or stainless steel rails: Rawlplug R-CBS-45032-A2 x (32mm), EJOT JT3-ST5-2-6 x 28 (14.5mm head)

To aluminium rails: EJOT JT4-ST5-3-5.5 x 24 (12mm head)

Not to scale

Title:

Rev. 1 - Date: 01-08-25

PRB RENDERBOARD

ALTERNATE CORRECT RENDER BOARD LAYOUT AROUND OPENINGS

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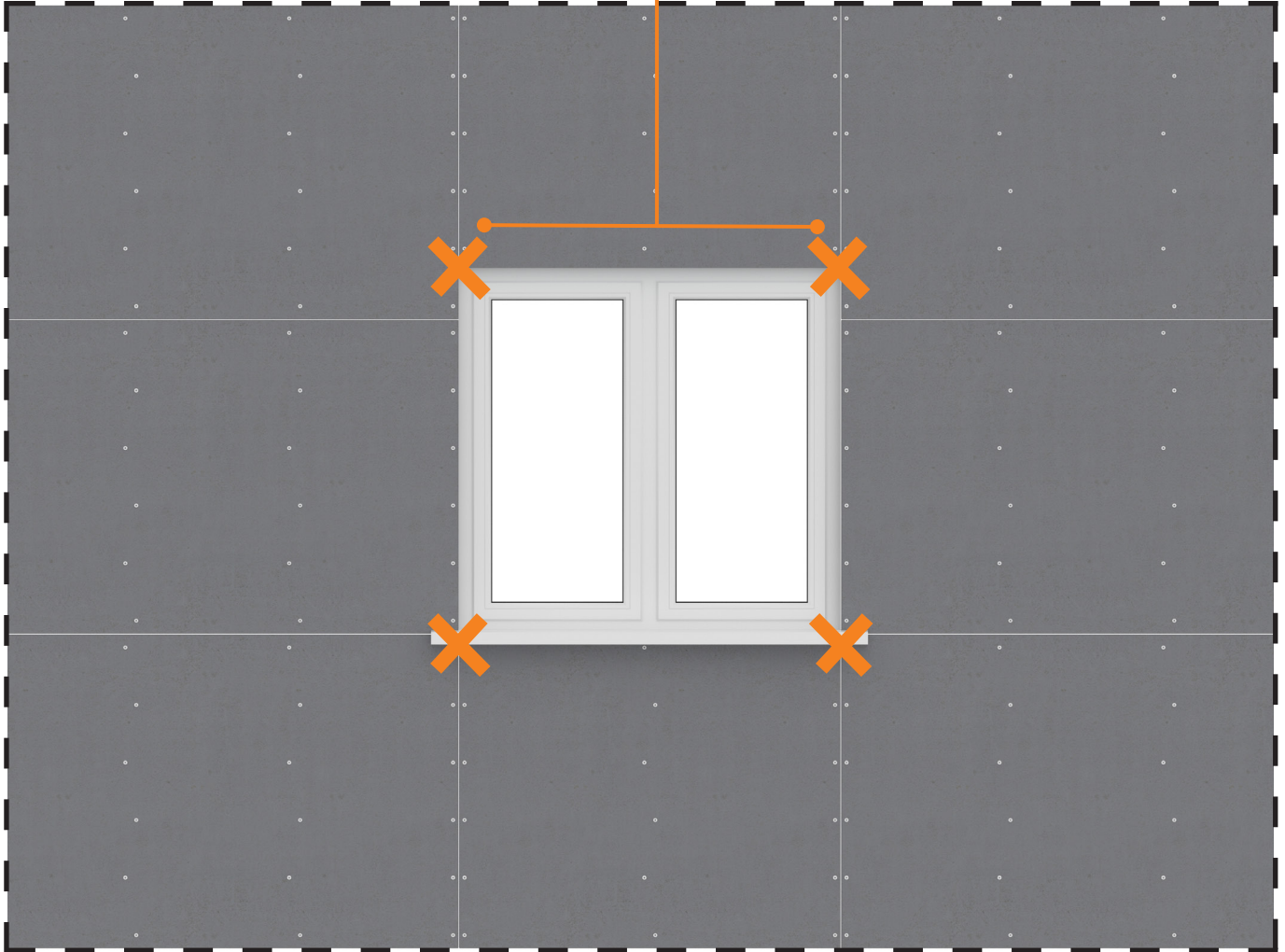


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INCORRECT METHOD

Placing the render board joints in line with the head or side of the opening may cause stress cracks to form in the render at the locations marked with an X.



Not to scale

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PRB RENDERBOARD

INCORRECT RENDER BOARD LAYOUT AROUND OPENINGS

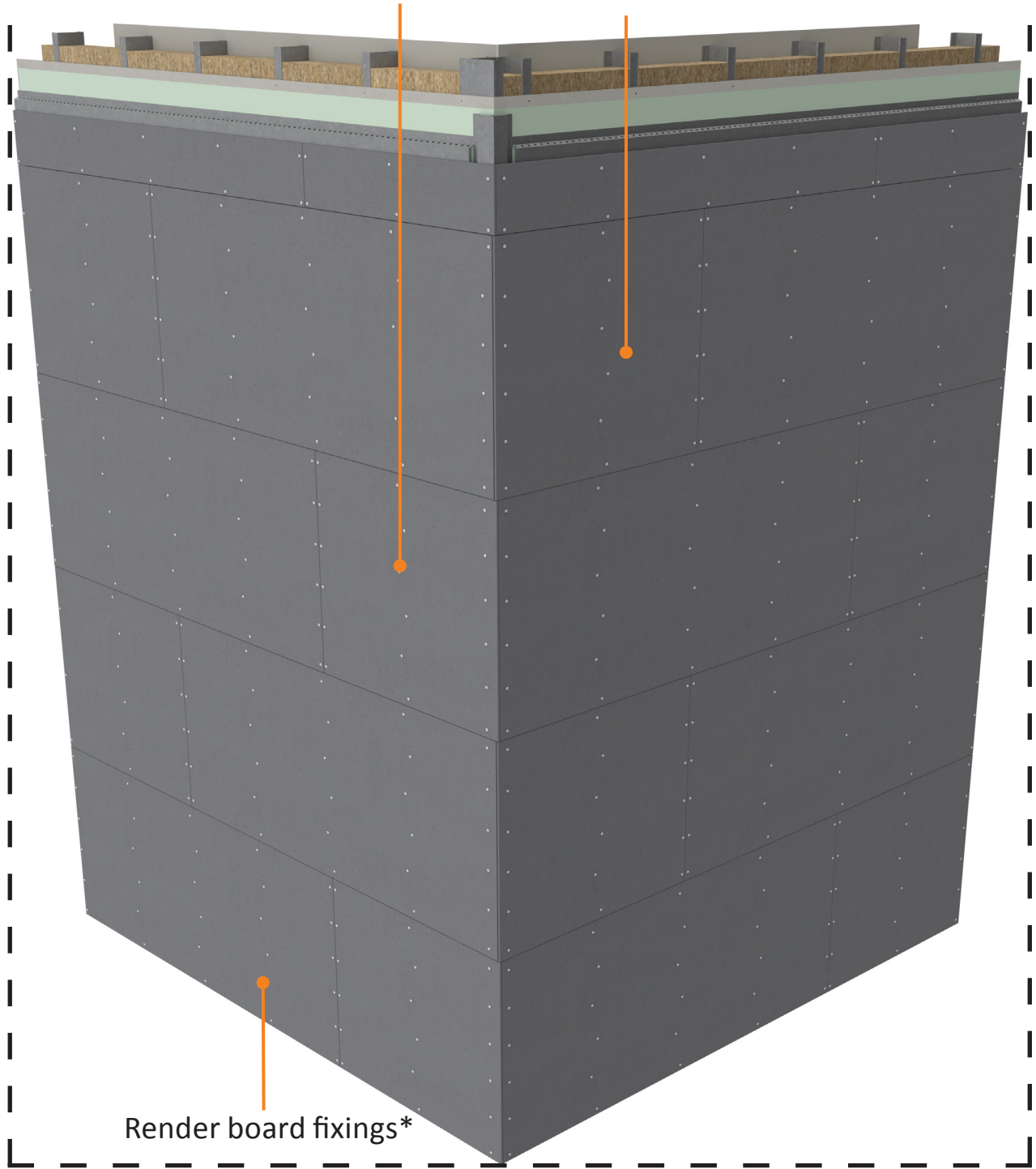
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Alternate corner board size 1200 mm high x 600 mm wide
Minimum board size 1200 x 400 mm (min. one stud wide) whichever is the greater size



Render board fixings*

***Suitable A2-304 stainless steel render board fixings:**

To timber: Rawlplug R-CBS-45032-A2 x (32mm), EJOT SH3-ST5-5 x 42mm (12mm head)

To galvanised or stainless steel rails: Rawlplug R-CBS-45032-A2 x (32mm), EJOT JT3-ST5-2-6 x 28 (14.5mm head)

To aluminium rails: EJOT JT4-ST5-3-5.5 x 24 (12mm head)

Not to scale

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PRB RENDERBOARD

RENDER BOARD LAYOUT AT CORNERS

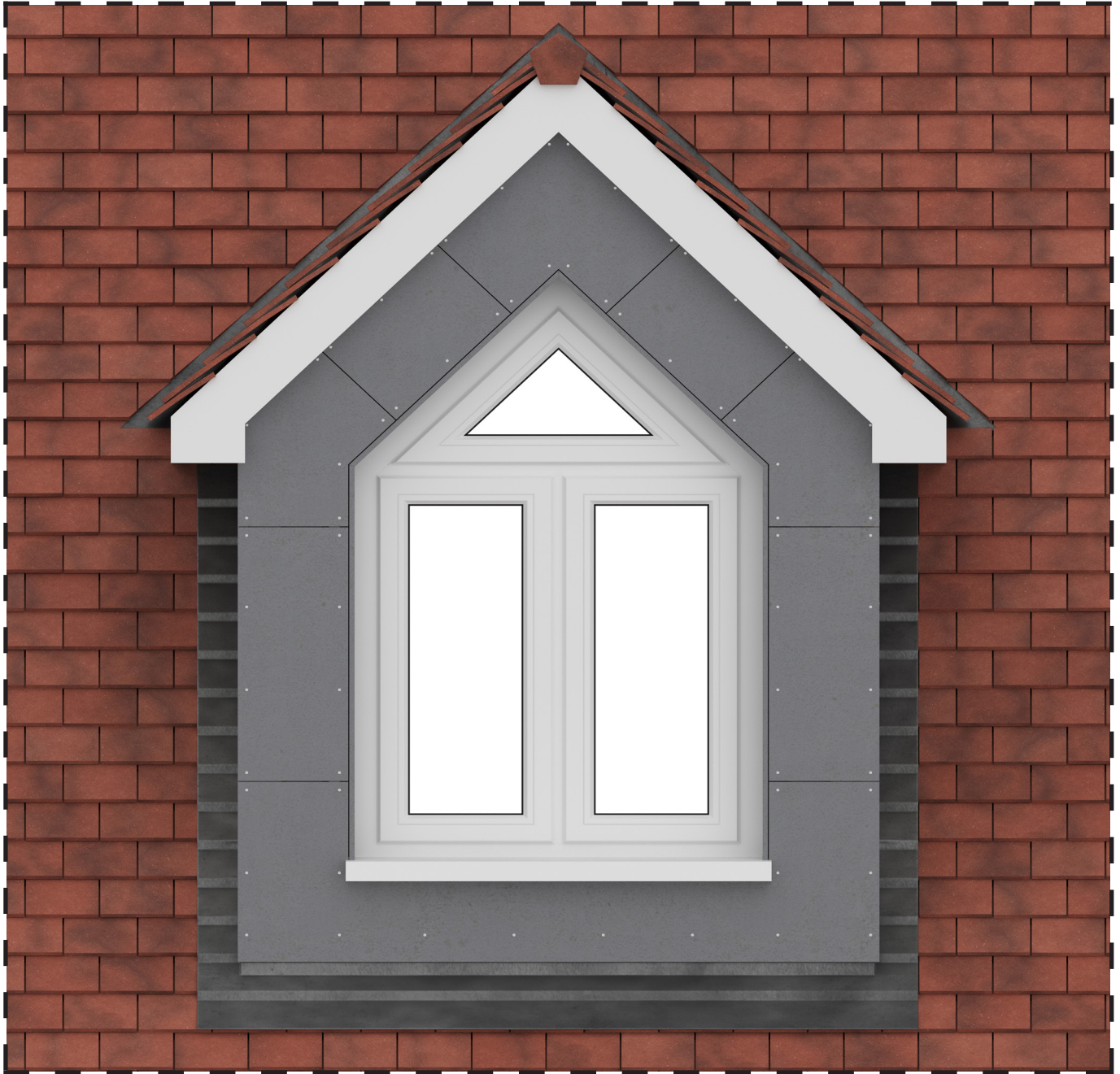
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The boards should have a 2 - 3 mm gap between them



An L-Shaped profile cut is required to the board to the bottom corners of openings.
Do not create vertical, horizontal or diagonal lines from the corners or vertical apex points.
Do not insert small filler pieces to make up sections.

***Suitable A2-304 stainless steel render board fixings:**

To timber: Rawlplug R-CBS-45032-A2 x (32mm), EJOT SH3-ST5-5 x 42mm (12mm head)

To galvanised or stainless steel rails: Rawlplug R-CBS-45032-A2 x (32mm), EJOT JT3-ST5-2-6 x 28 (14.5mm head)

To aluminium rails: EJOT JT4-ST5-3-5.5 x 24 (12mm head)

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PRB RENDERBOARD

RENDER BOARD LAYOUT FOR AN APEX DORMER

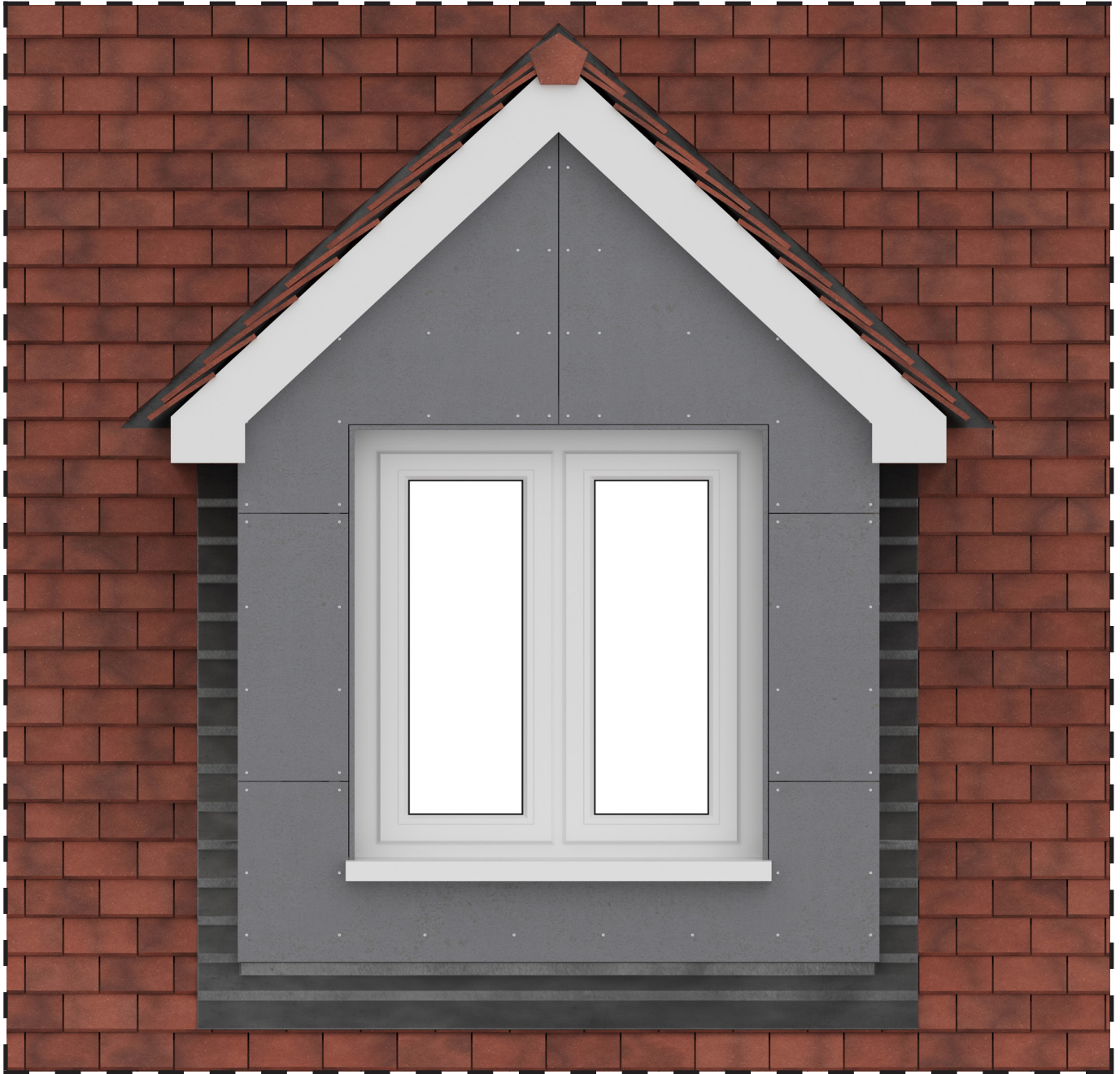
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The boards should have a 2 - 3 mm gap between them



An L-Shaped profile cut to the board is required to all corners of openings.
Do not create vertical or horizontal straight lines to be created from the corners.
Do not insert small filler pieces to make up sections.

***Suitable A2-304 stainless steel render board fixings:**

To timber: Rawlplug R-CBS-45032-A2 x (32mm), EJOT SH3-ST5-5 x 42mm (12mm head)

To galvanised or stainless steel rails: Rawlplug R-CBS-45032-A2 x (32mm), EJOT JT3-ST5-2-6 x 28 (14.5mm head)

To aluminium rails: EJOT JT4-ST5-3-5.5 x 24 (12mm head)

Not to scale

Title:

Rev. 1 - Date: 01-08-25

PRB RENDERBOARD

TRADITIONAL DORMER - 1 of 2 - RENDER BOARD LAYOUT

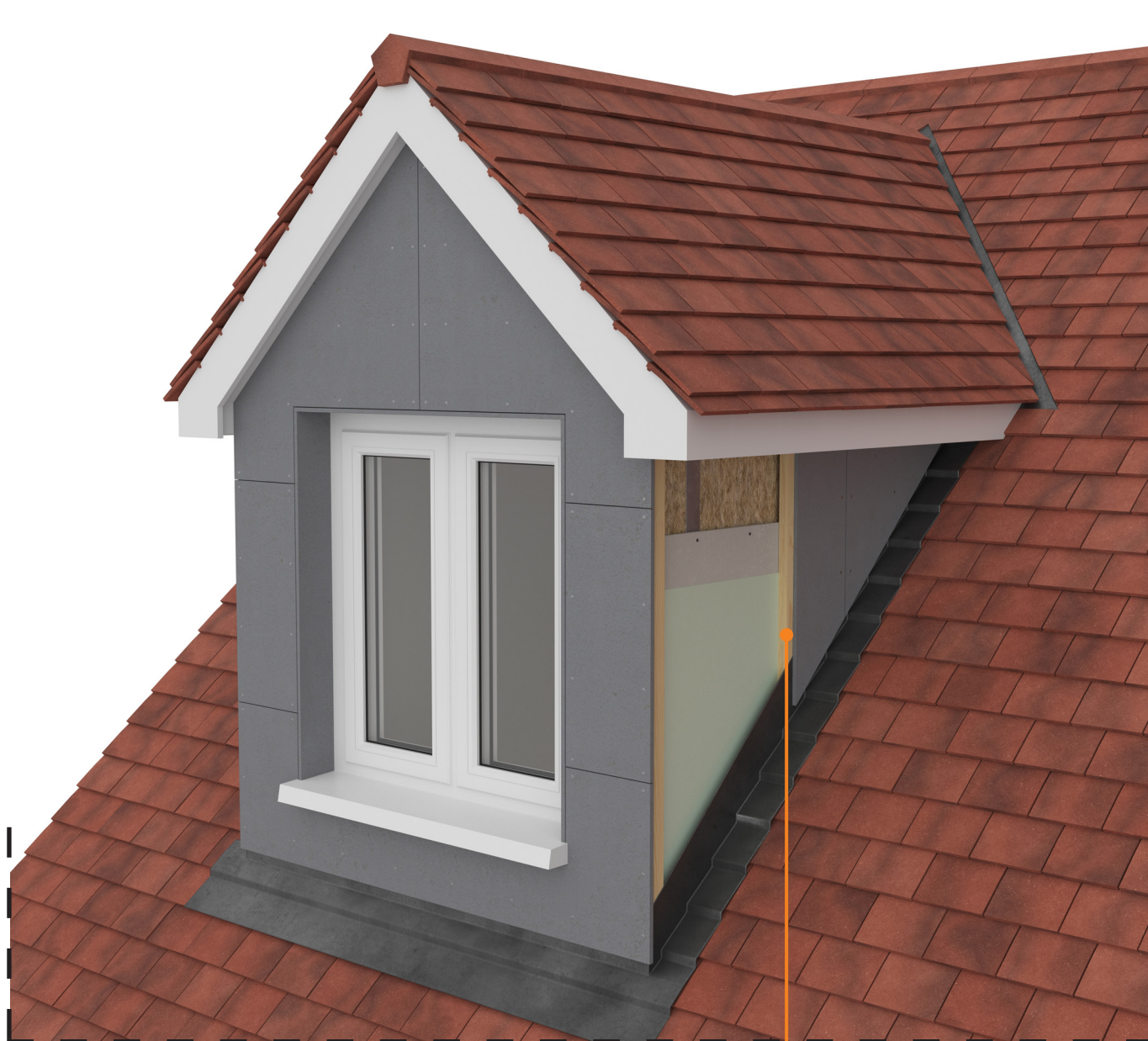
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NOTE: By others - Before installing the render board and to provide robustness against possible condensation variations, it is recommended and good practice to install across the face of all battens a thermal separation tape.
Ensure suitable ventilation of the cavity zone has been allowed for.



NOTE: By others - The dormer construction will generally be timber frame. Ensure the battens used are C16 dry strength graded treated timber batten in accordance with BS EN 14081-1: 2005, min 65 mm wide x 25 mm cavity width and fixed at each stud at the designated fixing centres (by others) using 2 no Rawlplug R-QCP-5070 (or similar approved) proprietary fixings, minimum 70 mm (for a 25 mm batten) directly into the timber frame and achieving a minimum pull out value of 0.7kN.

Not to scale

Title:

Rev. 1 - Date: 01-08-25

PRB RENDERBOARD

TRADITIONAL DORMER - 2 of 2 - RENDER BOARD LAYOUT

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