



Installation of Horizontally Laid ASMR Insulated Wall Panels

STAGE 1 Support angles and panel bearers

ASMR panels must be fixed to a secondary steel framework running perpendicular to the long side of the panels. Steelwork must be correctly aligned.

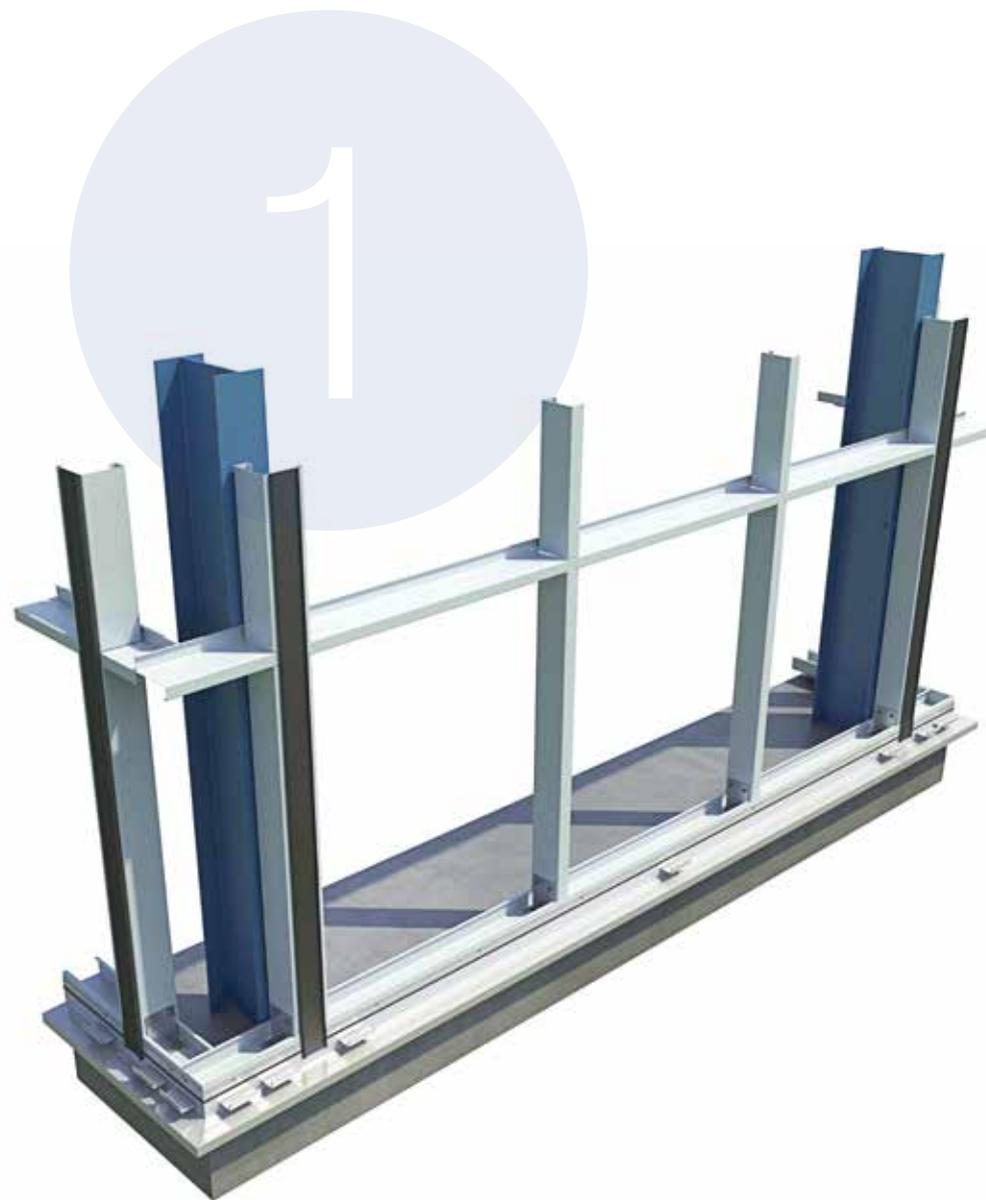
The minimum bearing face for vertical joint steelwork is 140mm. Minimum bearing face for intermediate supports is 50mm, but if project conditions require multiple fasteners a wider support will be required. The number and type of fasteners required depends on the spacing of supports and wind loads. Fasteners must comply with the project engineer's specification.

1. Lay a continuous run of compressible butyl sealant on the floor to receive the drip support angle.
2. Fix the drip support angle to the sheeting rail using low profile fasteners. Ensure the angle compresses the foam seal to form a continuous air seal. Apply a butyl seal to the front face of the support angle to seal up against the drip flashing. Ensure at least one fastener at each panel bearer location.



3. Align and fix the drip flashing using low profile fasteners. Form 100 mm lap joints and seal with two runs of butyl sealant.

4. Fix panel bearers at 1500mm maximum centres, with a bearer 150mm from each panel end. Ensure bearers are level and in line and that the cill detail is such that a 6mm gap is provided between the bottom outer edge of the panel and the cill.



STAGE 2 Fitting and fixing panels

Panel ends are supported on 140mm wide panel joint rails fixed directly to the secondary steelwork. Each panel is also fixed to intermediate vertical supports.

The number of fasteners at each fixing point depends on the wind loads and the spacing of supports.

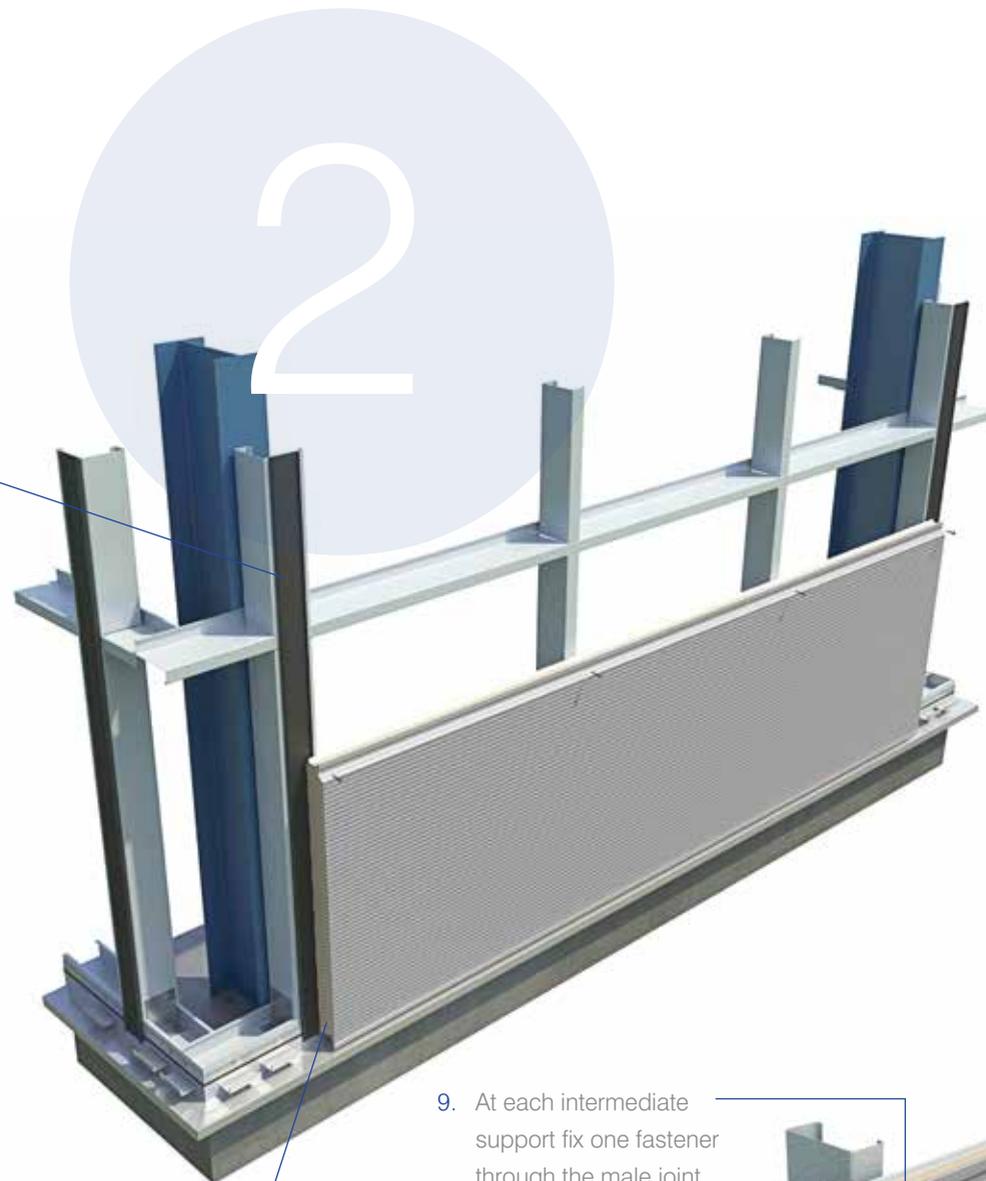
5. Fix the EPDM bubble gasket to the face of each main vertical support to form an air seal. Ensure the gasket laps the vertical leg of the drip flashing. Where gaps occur at joints in the structure, support for the EPDM gasket is required. A flat 0.7mm flashing must be positioned over these gaps to help provide a continuous air seal.



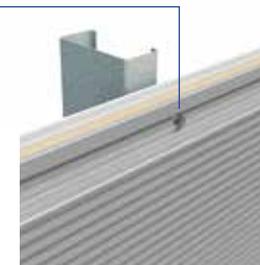
6. Apply a 6mm diameter bead of butyl sealant to the face of the drip support angle. The sealant must meet the bubble gasket.

7. Set the first panel with its bottom edge supported on panel bearers. Ensure the panel is correctly positioned to allow the fitting of vertical top hat joints.

8. At each end of the panel fix fastener(s) through the male joint into the panel joint rail.



9. At each intermediate support fix one fastener through the male joint into the support. (Note: Project specifications may require additional fasteners.)



STAGE 3 Panel joints

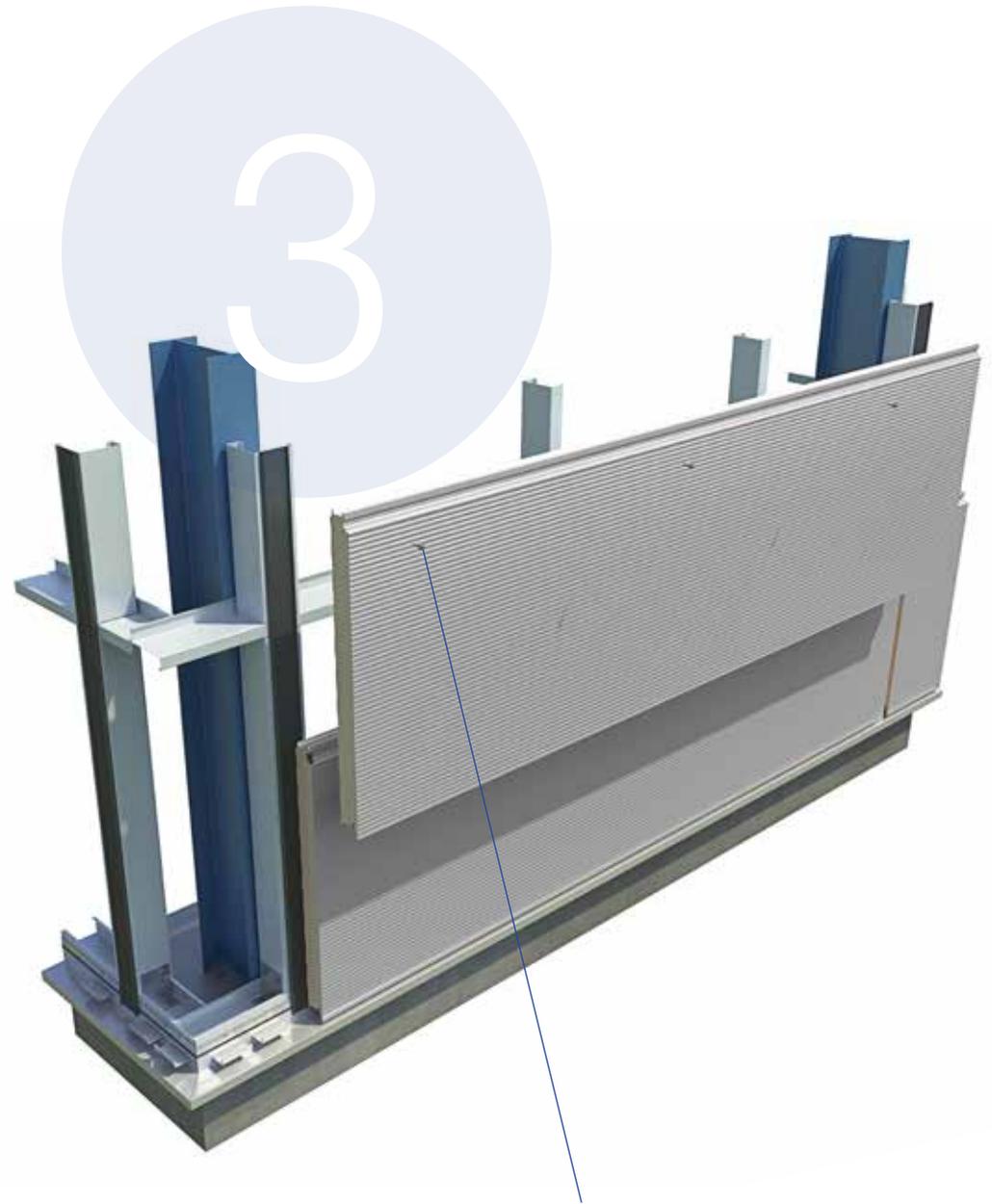
Panel to panel joints are formed by locating the second panel onto the first panel.



10. Bed proprietary joint filler piece in gun-grade sealant at end of panels at the vertical joints.
Run a clear silicone sealant across the depth of the panel to the filler to form a continuous seal.



11. Bed proprietary joint filler piece in gun-grade sealant at end of panels at the vertical joints.
Run a clear silicone sealant across the depth of the panel to the filler to form a continuous seal.



12. Fix at panel ends and intermediate supports.

STAGE 4 Forming junctions (1)

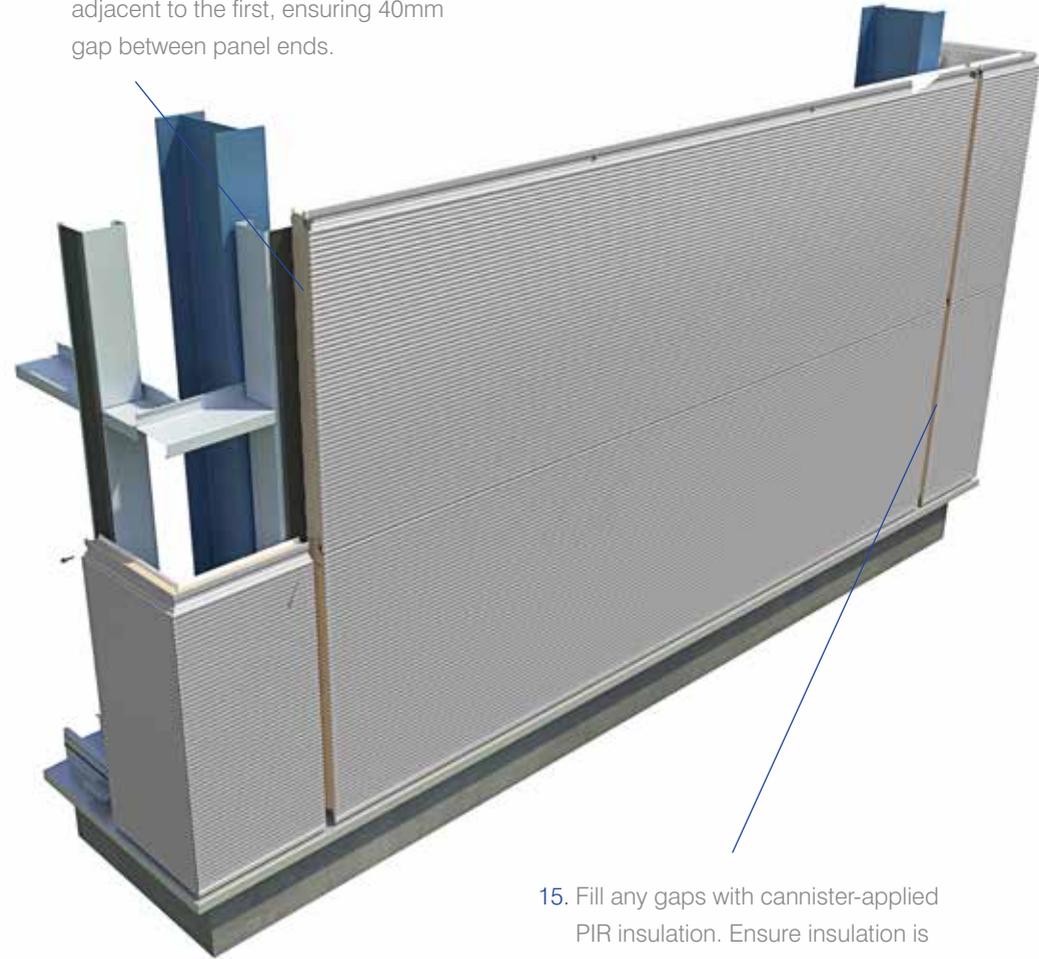
Panel to panel junctions (including those with preformed corner panels) are formed at panel joint rails, by leaving a 40mm gap between panels.



13. Fill the gaps between the panels with PIR insulation board. The depth of the insulation should be cut 30mm less than overall panel thickness to allow clearance for the top hat section.

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14. Install and fix the second run of panels adjacent to the first, ensuring 40mm gap between panel ends.



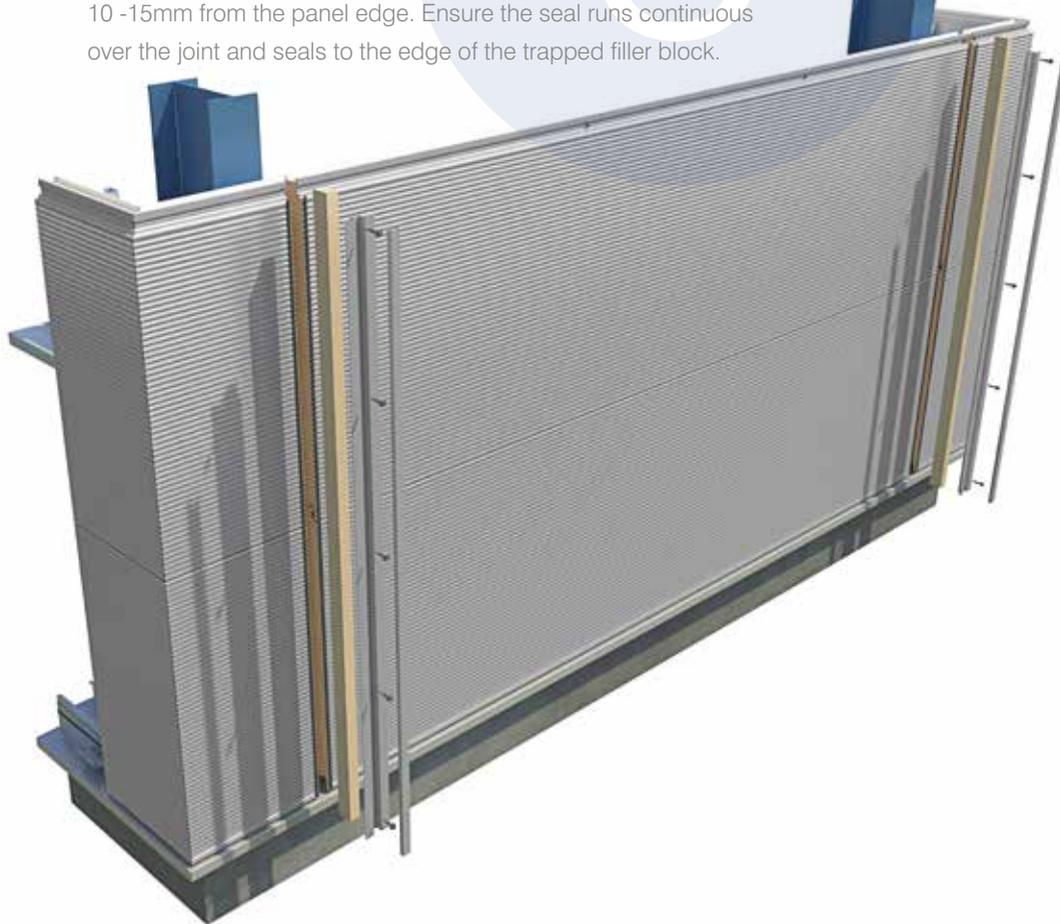
15. Fill any gaps with cannister-applied PIR insulation. Ensure insulation is continuous.



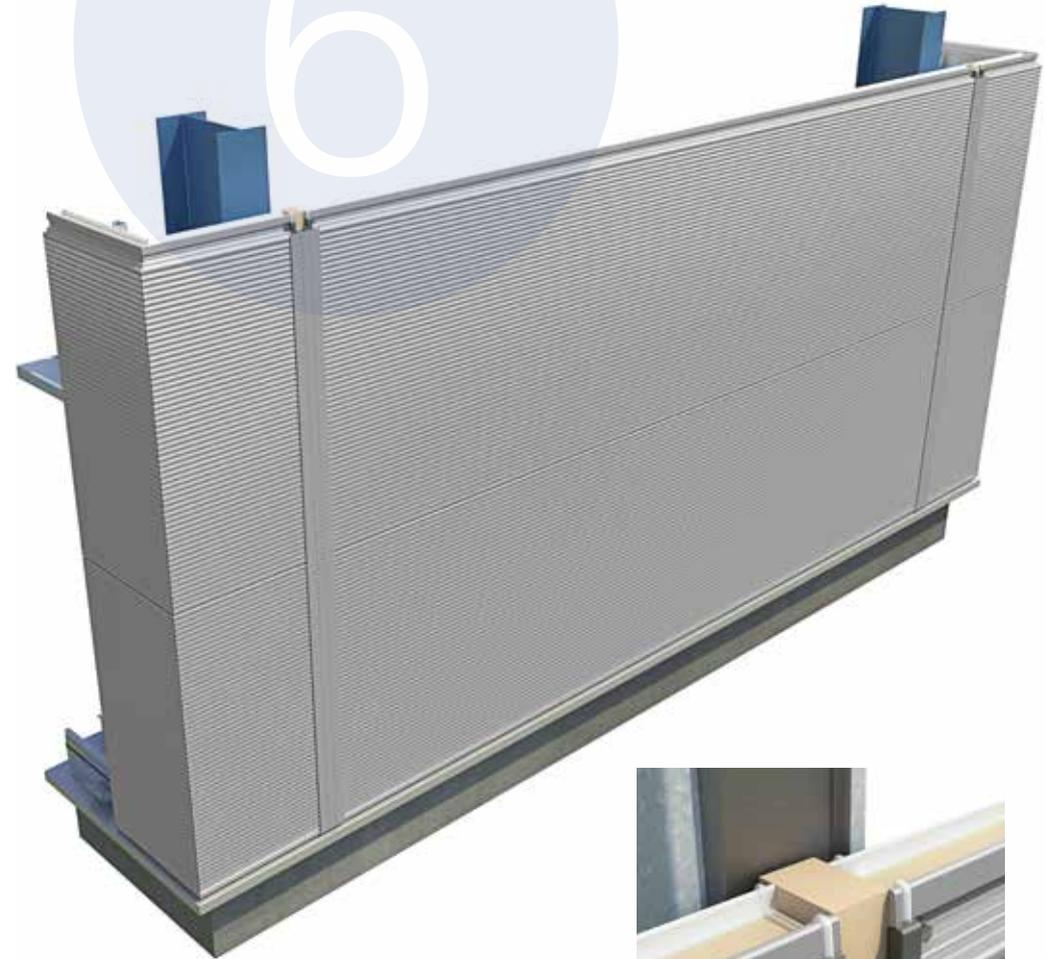
17. Place the top hat flashing into the vertical joint, aligning its base with that of the bottom panel. Fix the top hat flashing to the vertical support at 500mm centres. Ensure the flashing creates an effective weather seal. Do not overdrive the fasteners.

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16. Apply 6x5 butyl sealant to the face of each panel, positioned 10 -15mm from the panel edge. Ensure the seal runs continuous over the joint and seals to the edge of the trapped filler block.



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18. Push fit the snap-on cover flashing into position.
Position 1 -Flush fit
Position 2 recessed fit



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