

ISO BOARD®

ZERO ODP

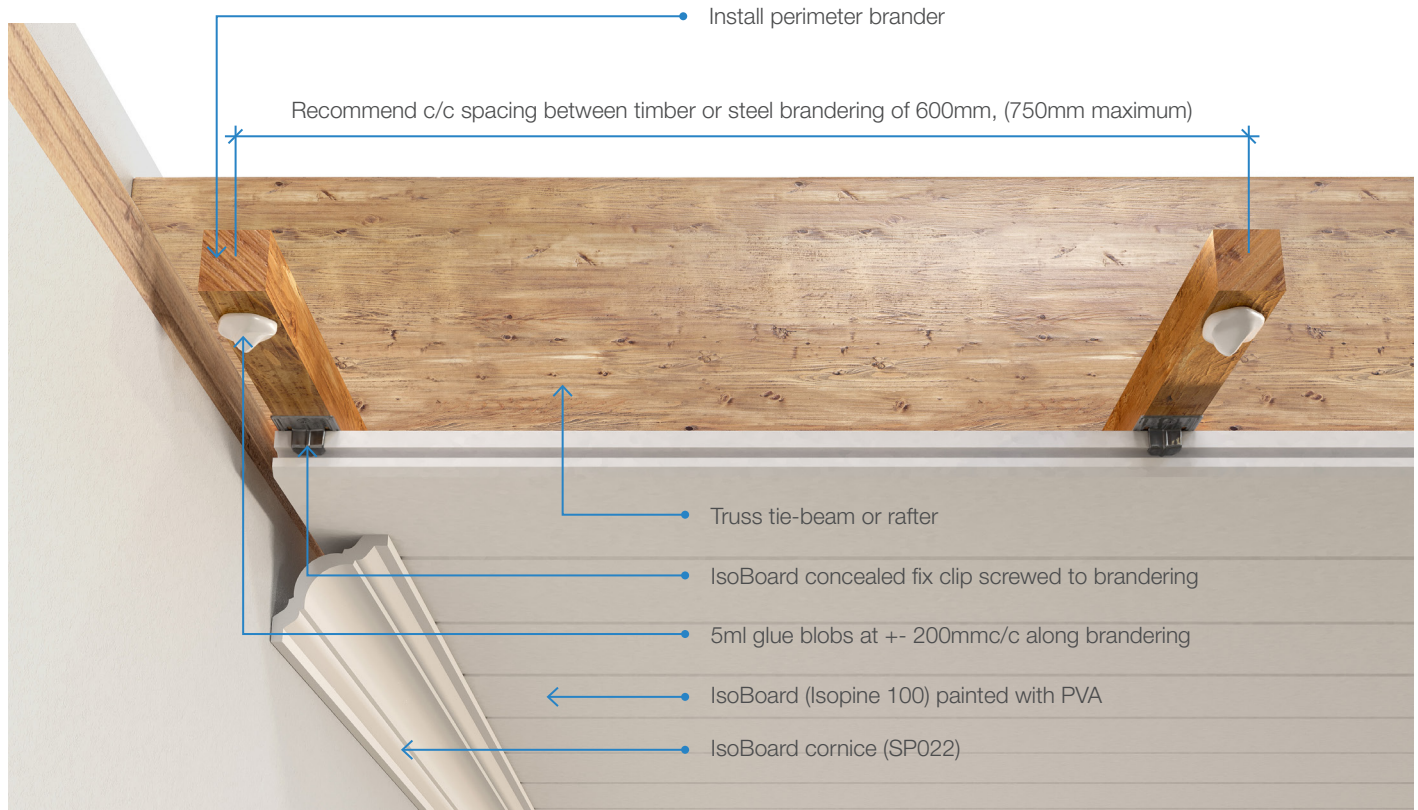
Premier Thermal Insulation for • Roofs • Ceilings • Floors • Walls



Nail Up Insulated Ceilings

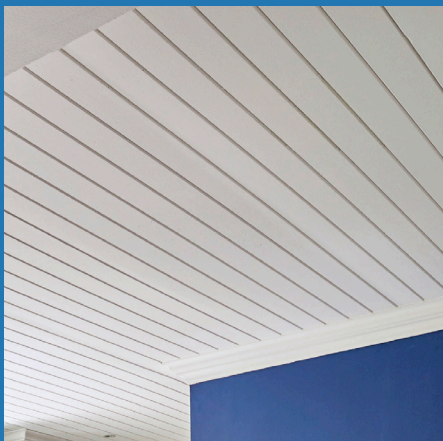
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New Installation

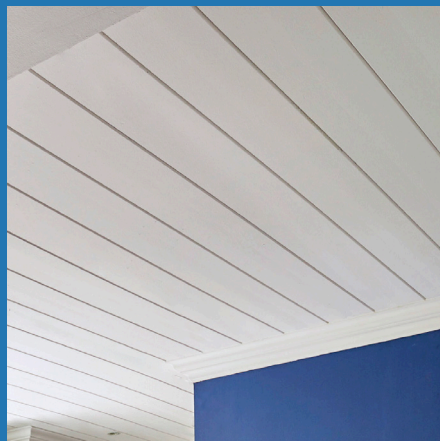


Recommended installation

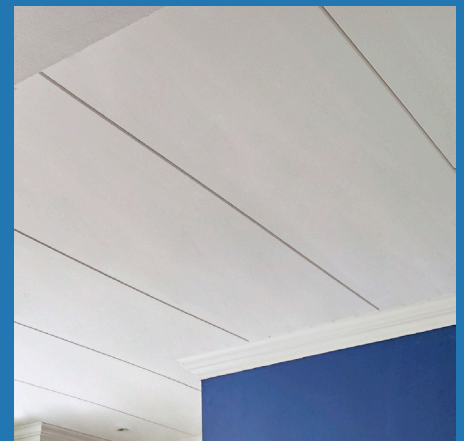
1. Fit timber or steel brander at maximum 600mm centres transversely to the trusses, as well as all around the perimeter of each room.
2. IsoBoard sheets to be of sufficient length to span wall to wall without butt jointing. Trim boards on site, allowing for a 5mm gap to each wall.
3. Apply 5ml blobs of recommended adhesive at 200mm intervals along the brander.
4. Fix initial panel to perimeter brander with screws at 300mm intervals, such as to be concealed with cornice.
5. Break out tongue or top of groove at each intersection of board edge and brander to accept concealed clip.



Isopine 100 (100mm width c/c groove)

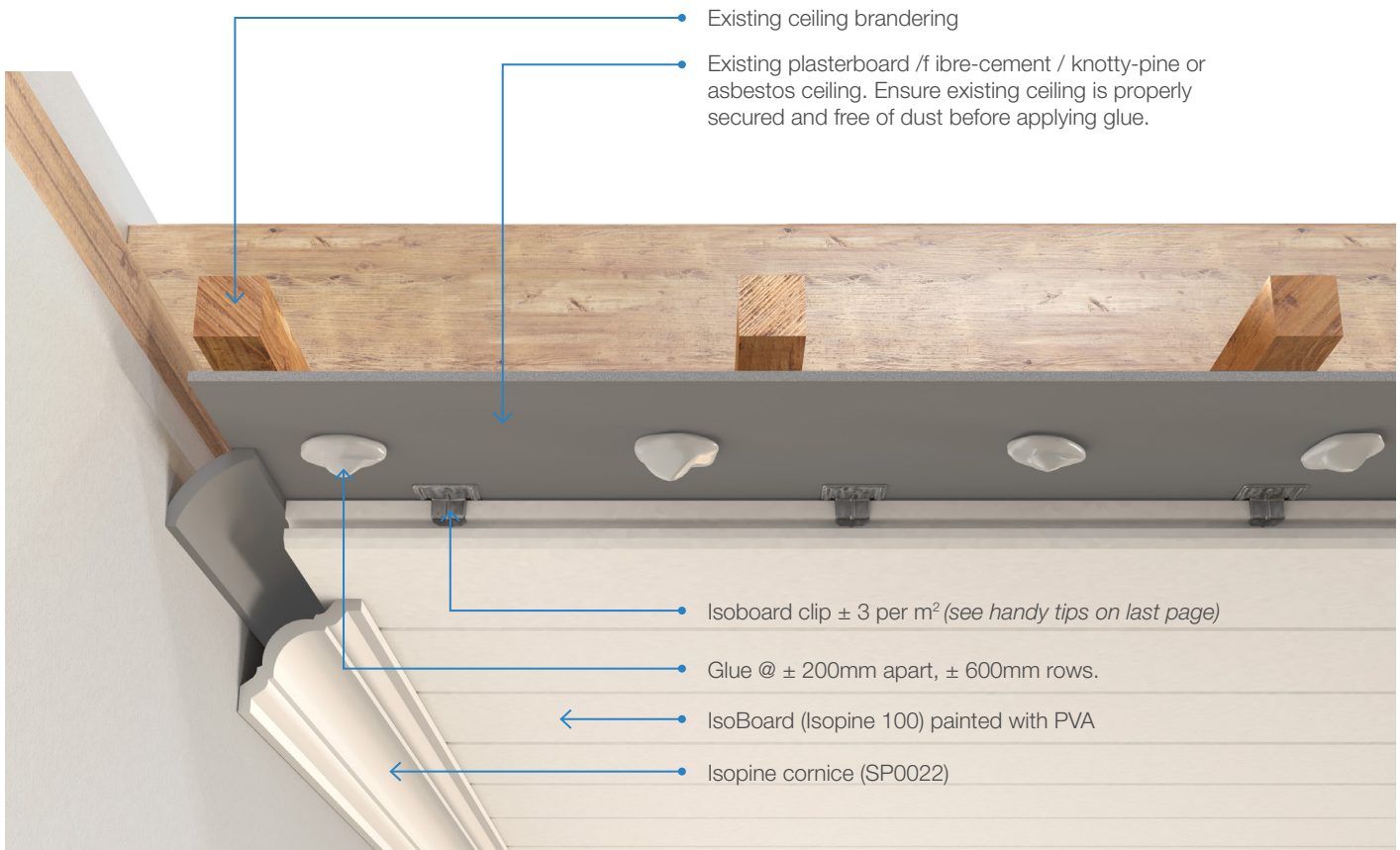


Isopine 200 (200mm width c/c groove)



IsoBoard edge beveled (groove every 600mm)

Retrofit Installation



Recommended installation

1. Ensure existing ceiling securely fixed. Water damaged or sagging ceilings can be cut away, to make level the existing ceiling to accept IsoBoard. Clean existing ceiling to ensure no dust is present prior to applying adhesive.
2. IsoBoard sheets to be of sufficient length to span the length of a room without butt jointing. Trim boards on site, allowing for a 5mm gap to each wall.
3. Apply 5ml blobs of recommended adhesive at 200mm intervals. Install clips at max 600mm to secure the IsoBoard.
4. Fix initial panel to perimeter branderling with screws at 300mm intervals, such as to be concealed with cornice.
5. Break out tongue or top of groove at each intersection of board edge and branderling to accept concealed clip.
6. Ensure that boards are glued close to the board edges to prevent any movement.

Technical specification

"IsoBoard" high density 32-36kg/m³ rigid extruded polystyrene 100% closed cell insulation board of ___mm thickness and 600 mm width, tack-fixed with recommended adhesive at 200 mm intervals to timber/steel branderling installed at maximum 600mm centres transversely to trusses, and edge-fixed with concealed ceiling clips screwed/pop-riveted to timber/steel branderling. Boards to be secured to perimeter branderling with drywall screws and washers at 300mm centres.



Nail-Up Ceiling Clip

Note: Adhesive provides the permanent ceiling bond. The ceiling clips secure the board in position while the adhesive cures.

Handy tips and notes

Using IsoBoard externally under eaves and verandas and in windy areas:

Halve the bracing spacings and double the number of clips/screws and adhesive fixing points where IsoBoard is installed externally or in windy areas. This is to accommodate the effect of wind and air pressure differences. Painting is required to avoid discolouration.

Acoustic Insulation:

IsoBoard is a thermal insulator and should not be used in isolation to achieve noise reduction. Please consult a specialist with respect to noise reduction systems. (Generally a wool blanket will reduce sound transmission.)

Adhesion:

Apply adhesive close to edges and end of boards to prevent movement.

Lighting and IsoBoard ceilings

Lamp holders fixed through IsoBoard or adjacent should be fitted with lamps not exceeding operating temperatures of 70°C. Above this temperature IsoBoard will soften and ultimately retract from the heat source.

Space fluorescent lamp holders (with fitted ballast) approximately 3mm away from IsoBoard using washers, and fix to supporting bracing or trusses. Use compact fluorescent or LED lamps when installing other lamp fittings in close proximity to IsoBoard. Heavier light fittings and ceiling fans should always be hung from timber fixed above the IsoBoard.

Downlighters:

Use Energy Saver or LED lamps only. For 12V installations, position transformers off the board on battens/truss and 200mm away from the lamp fittings. Allow a minimum of 150mm airspace above the IsoBoard for sufficient ventilation.

Ordering information

- IsoBoard thermal insulation is available in standard lengths from 4.8m to 7.2m with 0.6m increments and in 8m and halves for 30, 40, 50mm boards. Board length tolerance ± 5 mm.
- Common ceiling thicknesses range between 25mm, 30mm, 40mm up to 80mm, with board thicknesses of 60 mm and above made to order.
- IsoBoard can be ordered with the Isopine 100 or Isopine 200 grooved finish, which resembles a tongue and groove knotty-pine appearance. Also edge-beveled, which results in a groove every 600mm.

- IsoBoard is always 600mm (± 2 mm) wide, with a tongue and groove edge profile so adjacent boards interlock.
- Please consult a representative for the appropriate thickness for use in your region to comply with energy usage requirements.



How to identify IsoBoard:

IsoBoard can be identified by the logo and manufacturing details on the tongue of the board.

	R-Value	U-Value
Thickness (mm)	Thermal Resistance (m ² ·K/W)	Thermal Transmittance (W/m ² ·K)
25	0,953	1,049
30	1,143	0,875
40	1,524	0,656
50	1,905	0,525
60	2,287	0,437
70	2,668	0,375
80	3,049	0,328

Thermal Conductivity tested to SANS 8301	
IsoBoard thermal conductivity k value	0.02624 W/m.K - Test result available
Fire Classification: 10400 Part T and SANS 428	
IsoBoard B/B1/2 horizontal and vertical / with or without Sprinklers	
Fire tested insulation combinations:	50mm IsoBoard & 135mm Knauf Bulk Insulation FTC 18/256 2018 B/B1/2/H only (USP)
	40mm IsoBoard & 50mm Isotherm B polyester blanket FTC 18/027 B/B1 Residential
	40mm IsoBoard & 70mm Starlite A blanket FTC 16/177 B/B1 Residential



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