

ISO BOARD®

**ZERO
ODP**

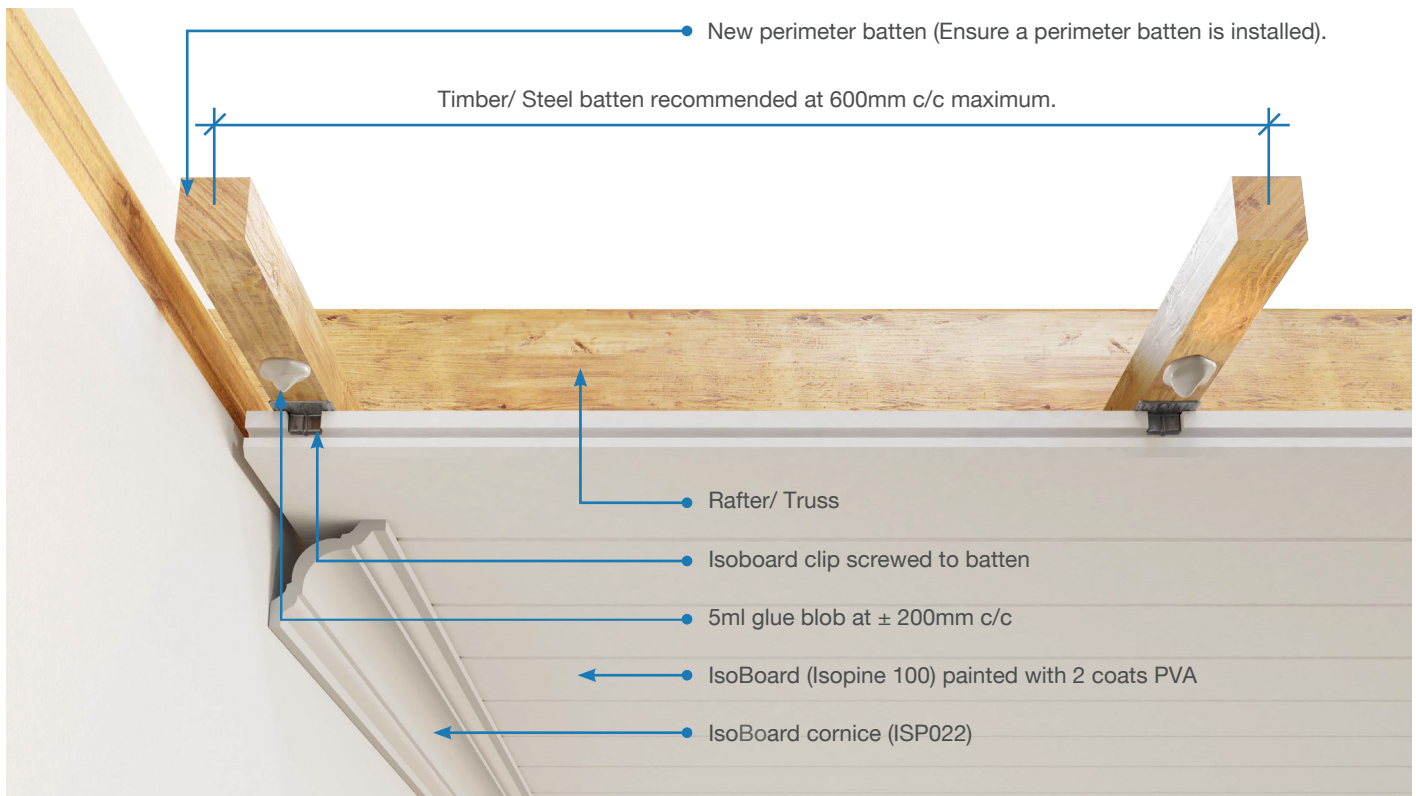
Premier Thermal Insulation for • Roofs • Ceilings • Floors • Walls



Nail-Up Thermally Insulated Ceilings

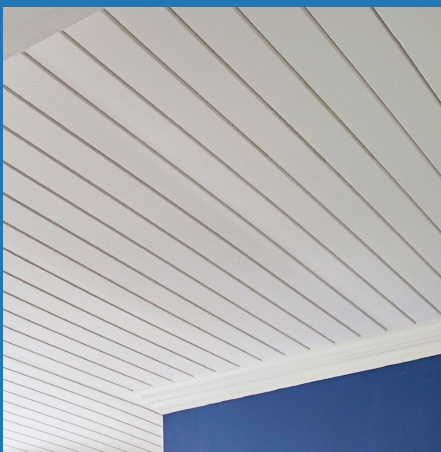
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New Installation

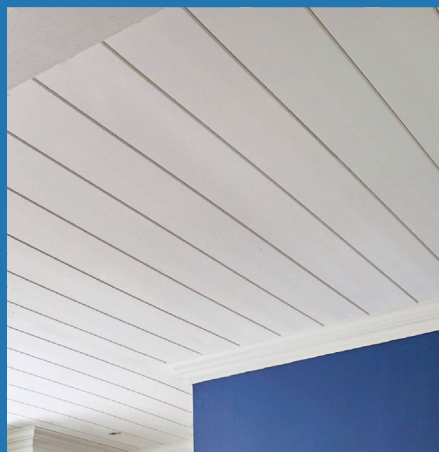


Recommended installation

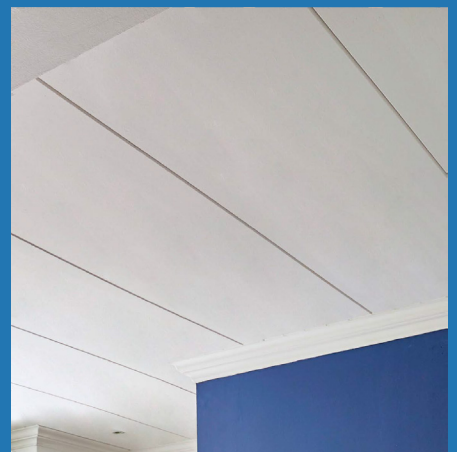
1. Fit timber or steel brandering at maximum 600mm centres transversely to the trusses, as well as all around the perimeter of each room.
2. IsoBoard sheets to be of sufficient length to span wall to wall without butt jointing. Trim boards on site, allowing for a 5mm gap to each wall.
3. Apply 5ml blobs of recommended adhesive at 200mm intervals along the brandering.
4. Fix initial panel to perimeter brandering 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 brandering to accept concealed clip.



Isopine 100 (100mm wide spacing)

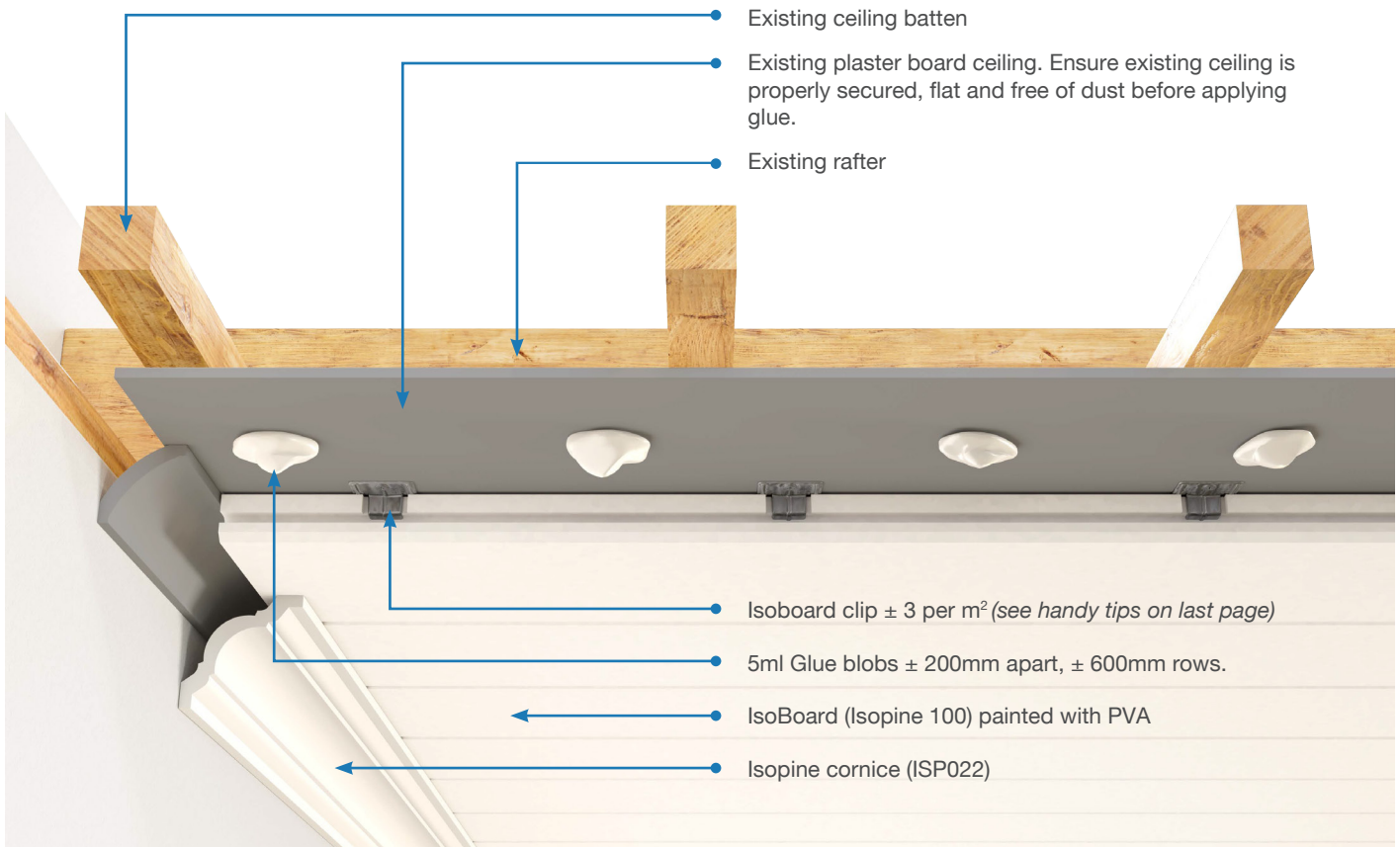


Isopine 200 (200mm wide spacing)



Bevel Edge (600mm wide spacing)

Retrofit Installation



Recommended installation

1. Ensure existing ceiling securely fixed. Water damaged or sagging ceilings can be cut away, level the existing ceiling where cut outs are made. 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 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.
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 brander installed at maximum 600mm centres transversely to trusses, and edge-fixed with concealed ceiling clips screwed/ pop-riveted to timber/steel brander. Boards to be secured to perimeter brander with drywall screws and washers at 300mm centres.



Nail-Up Ceiling Clip

Note: It is important to use glue with the clips as the clip is only to secure the board while the glue sets.

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 necessary to avoid discoloration of external IsoBoard applications exposed to direct or indirect sunlight.

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 fibrous blanket will reduce acoustic transmission.)

Gluing:

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 a perating 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 florescent 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 board length. Tolerance ± 5 mm. Enquire availability of lengths of thicker board.
- Common ceiling thicknesses range between 30mm, 40mm and 50mm, with board thicknesses of 60 mm and above made to order.
- IsoBoard can be ordered with the Isopine 100/200 surface finish, which looks similar to a tongue and groove pine surface. Isopine 100 c/c groove or 200 c/c groove, or beveled edges, resulting in grooves every 600mm.

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



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

HOW TO IDENTIFY ISOBOARD

	R-Value	U-Value
Thickness (mm)	Thermal Resistance (m. ² K/W)	Thermal Transmittance (W/m ² °K)
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
90	3,429	0,292
100	3,811	0,262

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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