

OVER TRUSS INSULATION

For the purpose of this installation: a truss is defined as a built up structural assembly consisting of top and bottom chords, as well as vertical and/or diagonal web elements.

IsoBoard over Truss Roof System design notes:

1. Roof truss systems using IsoBoard should be approved by a roofing engineer.
2. When using IsoBoard over truss, bracing elements must be fixed below the IsoBoard within the roof system, so as to provide lateral restraint to the top chord truss member. **NB. Battens and purlins fixed above IsoBoard do not provide the required lateral restraint to top chord truss members.**
3. Only fix battens/purlins through IsoBoard using minimum 150 x 4.4mm timberfix or equivalent screws. Pre-drill guide holes to ensure screws are centered on purlin/batten and truss member. Screws provide adequate resistance to uplift forces.
4. Please see tables below describing the limitation of the spacing of the battens/purlins and trusses, depending on the roof covering type, as well as the dimensions of the batten/purlin.

Following these guidelines ensures that the compressive bearing pressure of IsoBoard is not exceeded.

Table 1 : Spacing limits for battens and truss of tiled roofs		
Member sizes Battens on Truss (mm on mm)	Maximum allowed Supporting area (m ²)	Examples of limits Batten x Truss (mm x mm)
38 x 50	0.195	310 x 629
38 x 75	0.257	310 x 945
50 x 50	0.293	350 x 735
50 x 75	0.385	350 x 1100

Table 2 : Spacing limits for purlins and truss of sheeted roofs		
Member sizes Purlin on Truss (mm on mm)	Maximum allowed Supporting area (m ²)	Examples of spacing limits Purlin x Truss (mm x mm)
38 x 50	0.323	600 x 535
38 x 75	0.484	600 x 806
50 x 50	0.425	600 x 705 705 x 600
50 x 75	0.635	1000 x 635 800 x 790 1050 x 600

5. Battens/Purlins and Truss top cord members shall be SA Pine Grade 4 or better. Top chord minimum 50 mm wide.
6. IsoBoard is a thermal insulator and is not a good sound absorption material. Where steel roof sheeting is used, a layer of 75 mm fibre acoustic insulation can be laid over the IsoBoard to assist with the dampening of weather noise.

Suggested Bill of Quantity Specification:

IsoBoard high density 32-36 kg/m³ rigid extruded polystyrene 100% closed cell insulation board of ___mm thickness and 600 mm width with IsoPine/edge bevelled finish laid horizontally over trusses and secured with timberfix screws through purlins/battens. Purlin/Batten dimensions ___mm x ___mm fixed at ___mm on truss spacings of ___mm.



IsoBoard Over truss installation viewed from beneath, including additional top-chord bracing as required by truss designer.



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Installation guidelines:

1. Brace truss top chords to prevent lateral deflection as per architect/engineer specifications.
2. Lay IsoBoard horizontally across trusses, ensuring any butt joints are effected over truss top chords.
3. Fix double sided tape to truss to prevent boards moving during the installation process if necessary.
4. Guide holes must be pre-drilled in the battens/purlins before fixing screws through IsoBoard into trusses. Ensure that screws are properly centered in joint.
5. Place battens/purlins over IsoBoard at required centres and secure with timberfix screws or equivalent through IsoBoard into truss.
6. A quarter round or similar edge can be secured to the truss beneath the IsoBoard to finish the installation.
7. Fix a counter batten between purlins running along the truss top chord to secure IsoBoard to prevent uplift. Alternatively, secure each board with screws and washers. Do not overtighten the screws, which may cause the board to deflect.
8. Paint visible face of IsoBoard with two coats of good quality Acrylic or PVA. IsoBoard can be painted before installation.
9. Install fibrous sound insulation above the IsoBoard below steel sheet roofs if required.

Ordering Information

- IsoBoard thermal insulation is available in standard lengths of 8, 6, and 4.8 m, and halves thereof. Regional Distribution stores may carry additional standard lengths.
- Thickness range: 25 mm, 30 mm, 40 mm and 50 mm.
- IsoBoard can be ordered with the Isopine surface finish, which looks similar to a tongue and groove pine surface, having grooves at 100 mm centers down the length of the board, or, with beveled edge, to achieve a panelled look finish.
- IsoBoard is always 600 mm in width, with a tongue and groove edge profile so that adjacent boards interlock.
- Please consult a representative for the appropriate thickness of your IsoBoard for use in your region.

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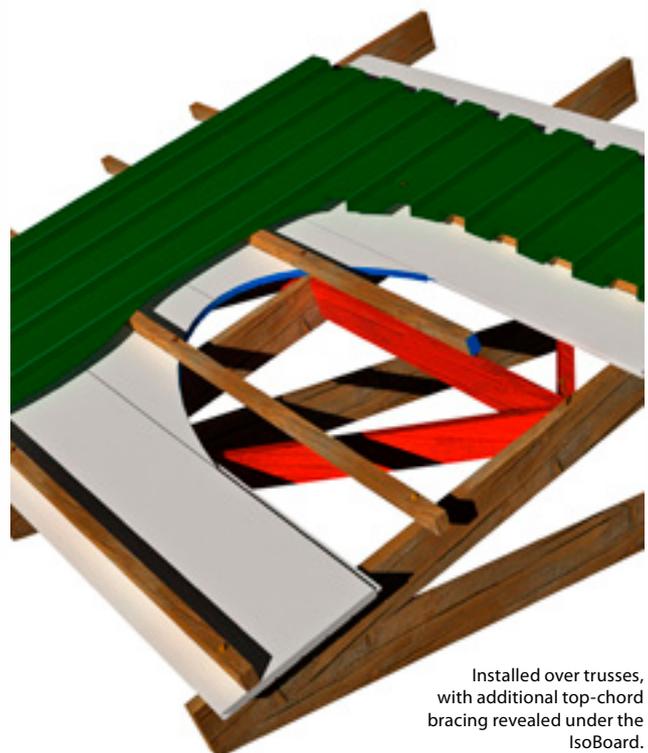
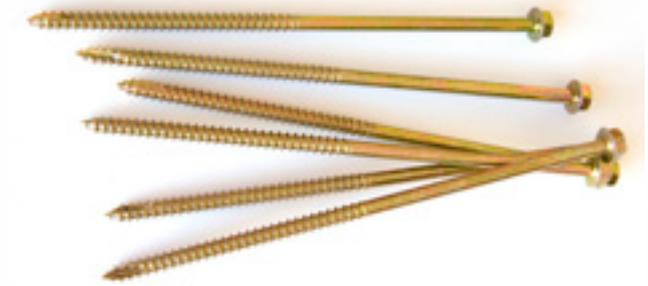
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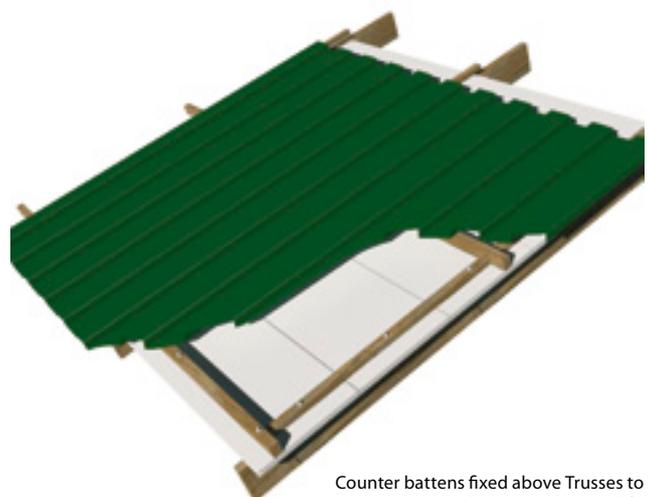
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Installed over trusses, with additional top-chord bracing revealed under the IsoBoard.



Counter battens fixed above Trusses to secure IsoBoard panels against uplift.

ISO BOARD®

Produced by Isofoam SA (Pty) Ltd Reg no: CK 95/03958/07

It's a whole new season

AutoSpec

Estimated by
billcost®