



LAMBDABOARD®

OVER RAFTER/TRUSS

LAMBDABOARD[®] is the ideal choice for ceilings in residential and industrial buildings. It is manufactured in a continuous process with a closed cell PIR core bonded to 2 flexible substrates.

With the high compressive strength and excellent dimensional stability LAMBDABOARD[®] white mineral finish can be used in an over truss application, in a 40 mm/50 mm/60 mm thickness. This engineered system has been designed and approved by MiTek Industries South Africa, leaders in roof truss design and manufacturing. The LAMBDABOARD[®] offers the best possible thermal properties commercially available. LAMBDABOARD[®] does not lose insulation properties during its lifespan.



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Home Owner's

Choice

Pro

Professional's

Choice

OVER RAFTER/TRUSS INSULATION

DESIGN GUIDELINES

- Using MiTek purlin screws (Detail PCS-PSA), connections fixing battens/purlins to rafters through LAMBDABOARD[®] panels in combination with standard lateral bracing can be considered to provide sufficient lateral restraint to timber beams under gravity load
- Fix counter battens to top cord using the MiTek purlin screw as detailed in PCS-PSA dated 28/02/2019
 40 mm LAMBDABOARD[®] - 125 mm (blue) MiTek purlin screw
 50 mm & 60 mm - 165 mm (yellow) MiTek purlin screw
- Rafter bracing refer to MiTek Industries
- If steel sheeting is used LAMBDABOARD[®] will not require a slip sheet
- Install fibrous insulation between the LAMBDABOARD[®] and the steel roof sheeting for sound absorption, if required



INSTALLATION

- Lay LAMBDABOARD[®] perpendicular to roof trusses, spanning a minimum of 3 trusses
- Purlin/counter batten must be fixed through LAMBDABOARD®
- LAMBDABOARD[®] side lap detail can be:
 - Butt joint creating a neat seam
 - Skimmed/flush plastered
 - Aluminium sections (T/H-sections)
- If required LAMBDABOARD[®] should be end lapped over top chord to ensure a seamless joint
- LAMBDABOARD[®] will not require painting if installed correctly
- If flush plastered, then a bonding agent must be applied
- Install fibrous insulation between the LAMBDABOARD[®] and the steel roof sheeting for sound absorption, if required

SPECIFICATION FOR BOQ

LAMBDABOARD[®] is a laminated polyisocyanurate core board with a minimum core density of 34 kg/m³, a minimum thickness of _____ mm; faced with _____ and laminated on both sides. Over rafter installation to be fixed in strict accordance to MiTek design details (PCS-PSA) 28/02/2019.

LAMBDABOARD® R-VALUE

30 mm - 1,25 (Km²/W) 40 mm - 1,67 (Km²/W) 50 mm - 2,08 (Km²/W) 60 mm - 2,50 (Km²/W



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Step1:LAMBDABOARD® tobe placed on top of the rafter's top cord. LAMBDABOARD® length to run perpendicular to rafter.

Step 2: 50 x 76 counter batten to be fixed with purlin fastener through LAMBDABOARD® into the rafter's top cord at 300 mm centres (see table for fastener length).

Fastener length	
LAMBDABOARD®	PURLIN
THICKNESS	FASTENER
	LENGTH
40 mm	125 mm
50 mm	165 mm
60 mm	165 mm

Step 3: Space purlins over counter battens as per required purlin spacings and fix purlins with purlin fasteners through the counter battens, LAMBDABOARD® and top cord of the rafter.

Step 4: Fix the rafter bracing diagonally between purlins and fix through counter battens,LAMBDABOARD® and top cord of rafter.

Step 5: Preferred sheeting to to be fixed directly to the purlins in accordance to the roof sheeting manufacturer's specifications.



Installation - Counter Batten - Recommended installation for over truss application (Designed by Mitek's Truss Engineer)



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