



01
Pro
Professional's
Choice

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Home Owner's
Choice

LAMBDABOARD[®]

OVER RAFTER/TRUSS INSULATION

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.

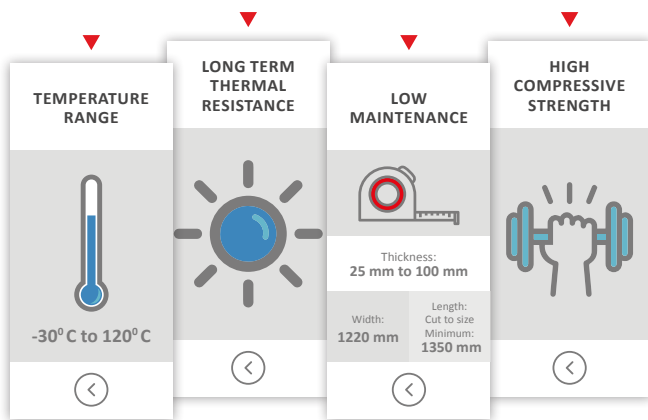
With the high compressive strength and excellent dimensional stability LAMBDABOARD[®] White mineral finish can be used in a over truss application, in a 40 mm/50 mm/60 mm thickness. This engineered system has been designed and approved by MiTek Industries South Africa, leaders in roof truss design and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



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 chord 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 & 60mm - 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 purlin truss 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)



OVER RAFTER/TRUSS INSULATION

50x70 TIMBER PURLIN CONNECTION DETAIL WHERE LAMDABOARD WM/MN (60MM THICKNESS MAX.) OCCURS USING MITEK PURLIN SCREW (MAX TRUSS SPAN OF 15 METERS - SHEETED ROOF WITHOUT STIFFENER FRAMES)

DETAIL PCS-PSA
DATE: 28/02/2019

1 NO. 100MM CLINCHED NAIL (SKEW)

6 NO. 3.5MM DIA.X90MM WIRE NAILS

M8X15 OR G8X18 (TO BOTH SIDES)

SPLAY CUT SPLICE

ALTERNATIVE TIMBER SPLICE

OPTIONAL PLATED SPLICE

PURLIN SPLICE DETAILS

STEP 1

STEP 2

40MM LAMDABOARD WM/MN	125MM (BLUE) MITEK PURLIN SCREW
50MM LAMDABOARD WM/MN	165MM (YELLOW) MITEK PURLIN SCREW
60MM LAMDABOARD WM/MN	165MM (YELLOW) MITEK PURLIN SCREW

NOTE:

- * 40MM ISULATION USE 125MM (BLUE) MITEK PURLIN SCREW.
- * FOR 50MM & 60MM INSULATION USE 165MM (YELLOW) MITEK PURLIN SCREW.
- * CONNECTION OF PURLIN TO COUNTER BATTEN USE DETAIL PC-S

2-PLY USE 50 X 152(5) COUNTER BATTEN

3-PLY USE 50 X 152(5) COUNTER BATTEN

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www.lambdaboard.co.za
lambdaboard@rigifoam.com
 +27 (0)11 421 0313

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