



## OVER PURLIN INSULATION



*For the most economical installation, LAMBDA BOARD<sup>®</sup> should be installed above the purlins, below the roof sheathing. Based on 25mm board, LAMBDA BOARD<sup>®</sup> can span up to 1800mm without support on the longitudinal joins.*

It is recommended that LAMBDA BOARD<sup>®</sup> lengths should be ordered to span across a minimum of 3 purlin spacings for best performance. LAMBDA BOARD<sup>®</sup> recommends that the roof sheathing is fixed in accordance with the manufactures specifications. For purlin spacings above maximum span ability, H or T sections are recommended to be used to prevent "deflection". When using H or T sections it is recommended that the sections be pop riveted to the purlin to keep them in place. H sections to be used for thickness up to 40mm; for thicker boards the T section is only required.

Members of:



# OVER PURLIN INSULATION

## DIMENSIONAL STABILITY

LAMBDABOARD® is thermoset foam, which has high compressive strength and excellent dimensional stability. Long term creep temperature cycling, which is encountered in over purlin applications, will not affect LAMBDABOARD® thermal properties, nor will it cause the board to 'deflect' over time.

## R-VALUE PERFORMANCE

LAMBDABOARD® has the highest R-value per 25mm, therefore the design U-value of the roof insulation system can be achieved with a minimum thickness of insulation. This in turn allows the overall footprint of the building to decrease and reduces the cost of construction. Additionally, the thinner insulation helps the mechanical strength and design of the roof structure.

## FIRE PROPRIETIES

SANS 428 - B/B1/2/H&V ASIB Approved

\*Fire Rated only on White Mineral Facing

## SPANNING CAPABILITY

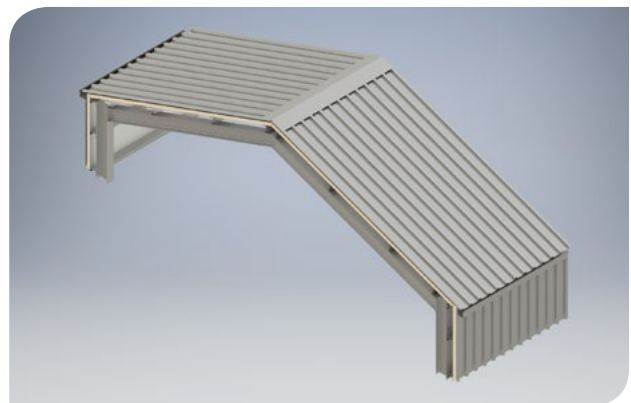
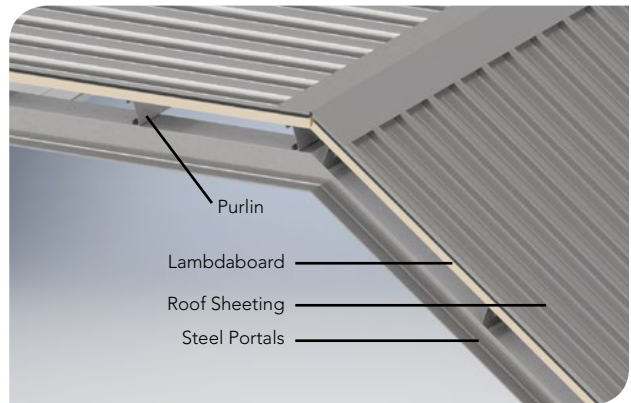
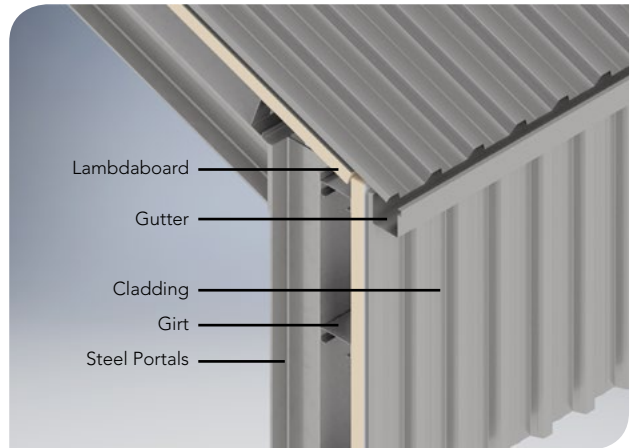
With thicker boards, a longitudinal support is required. Figures based on 3 purlin spacings and more with no longitudinal support. (Weight of roof sheeting not taken into account).

Thickness	R- Value (Km <sup>2</sup> /W)	Span	T-section Support Required
25mm	1,04	1800mm	No
30mm	1,25	1800mm	No
40mm	1,67	1800mm	No
50mm	2,08	1800mm	No
60mm	2,50	1800mm	No
70mm	2,92	2000mm	Yes
80mm	3,33	2000mm	Yes
90mm	3,75	2000mm	Yes
100mm	4,17	2000mm	Yes

\*T/H section supports

## SPECIFICATION FOR BOQ

LAMBDABOARD® laminated polyisocyanurate core board with a minimum core density of 34kg/m<sup>3</sup>, minimum thickness of \_\_\_\_mm; faced with \_\_\_\_, laminated on both sides. Suppliers fixing details supplied in widths of 1220mm, to be fixed above purlins in conjunction with roof covering.



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