



**LAMBDABOARD®**  
THE BETTER THERMAL INSULATION



01

**Pro**

Professional's  
Choice

02

**Ho**

Home Owner's  
Choice

LAMBDABOARD®

# OVER PURLIN INSULATION

For the most economical installation, LAMBDABOARD® should be installed above the purlins and below the roof sheeting. Based on 25 mm board, LAMBDABOARD® can span up to 1800 mm without support on the longitudinal joints.

For best performance, it is recommended that LAMBDABOARD® lengths be ordered to span across a minimum of 3 purlin spacings and the roof sheeting is fixed in accordance with the manufacturer's specifications. To prevent 'deflection' in purlin spacings above the maximum spanability, it is recommended that H or T-sections be used. When using H or T-sections, the sections should be pop-riveted to the purlin to keep them secure.



# OVER PURLIN INSULATION

## EXCELLENT DIMENSIONAL STABILITY

LAMBDABOARD® is thermoset foam with high compressive strength and excellent dimensional stability, thus LAMBABOARD is able to sustain a continuation range of -30° C to 120° C without displaying any long-term creep or deformation characteristics.

## R-VALUE PERFORMANCE

LAMBDABOARD® has the highest R-Value per thickness, 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.

## 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-Sections Support Required
25 mm	1.04	1 800 mm	No
30 mm	1.25	1 800 mm	No
40 mm	1.67	1 800 mm	No
50 mm	2.08	1 800 mm	No
60 mm	2.50	1 800 mm	No
70 mm	2.92	1 800 mm	No
80 mm	3.33	1 800 mm	No
90 mm	3.75	1 800 mm	No
100 mm	4.17	1 800 mm	No

It is advised that spans over 1800 mm do require the usage of H/T sections

## SPECIFICATION FOR BOQ

LAMBDABOARD® is a laminated polyisocyanurate core board with a minimum core density of 34 kg/m<sup>3</sup>, a minimum thickness of \_\_\_\_ mm; faced with \_\_\_\_ with a \_\_\_\_ (km<sup>2</sup>/W) R-Value. Finish will be white mineral and natural mineral and laminated on each side. LAMBDABOARD® to be installed above purlin and in conjunction with roof cover in accordance with manufacturer's specifications.

**ENERGY SAVING**

With a rational design

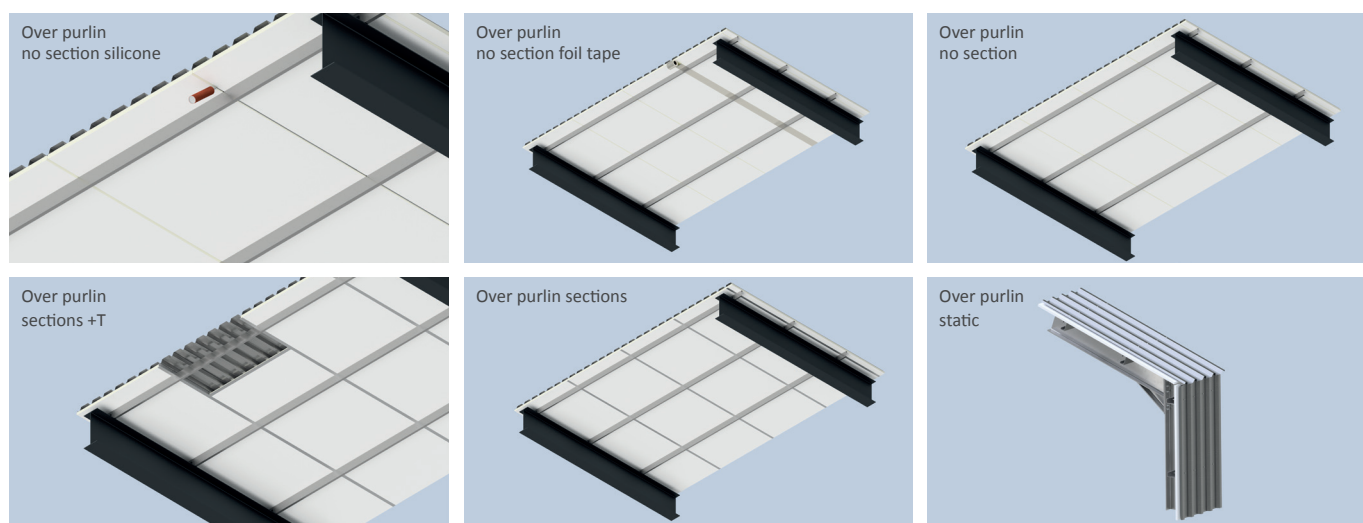
**LOW MAINTENANCE**

Thickness: 25 mm to 100 mm  
Width: 1220 mm  
Length: Cut to size  
Minimum: 1350 mm

**MOISTURE RESISTANCE**

Less than 3% as tested in accordance SABS 1381-1

**FIRE PROPERTIES**  
SANS 428 - B/B1/2/H&V.  
Fire-rated only on white mineral facing.  
Will not melt, drip or propagate flame.



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