

## TECHNICAL DATA SHEET

Manufactured to Australian Standard.  
AS/NZ 4859.1

### PRODUCT SPECIFICATIONS

Foilboard Insulation Panel is manufactured from fire retardant expanded polystyrene with pure aluminium foil laminated to both sides, an anti-glare ink is applied to one side that is designed to not impede with the reflectiveness of the foil. Foilboard Insulation Panel is manufactured from Australian sourced materials.

	GREEN 10	GREEN 15	GREEN 20	GREEN 25	GREEN 30	GREEN 40	GREEN 50
<b>R Value</b> (K.m <sup>2</sup> /W)	R0.30	R0.43	R0.55	R0.67	R0.77	R1.0	R1.2
<b>Thickness</b> (mm)	10	15	20	25	30	40	50
<b>Declared Thermal Conductivity</b> (W/m.K)	0.033	0.035	0.036	0.038	0.039	0.040	0.041
<b>Sheet Size</b> (mm)	2400x 1200 2700 x 1200	2400x 1200 2700 x 1200	2400x 1200	2400x 1200	2400x 1200	2400x 1200	2400x 1200
<b>Weight</b> (g)	767 848	995 1100	1233	1467	1622	2170	2500
<b>Density</b> (kg/m <sup>3</sup> )	13.5						
<b>Core</b>	Fire retardant SL grade EPS 70 kPa at 10% compression						
<b>Surface</b>	100% pure reflective aluminium						
<b>Antiglare</b>	Metal etching UV stabilised green ink						
<b>Adhesive</b>	Contact adhesive proprietary formula						

Emittance	
<b>Silver Face</b>	E0.03
<b>Antiglare Face</b>	E0.06

Ozone depleting substances	
<b>Content</b>	0
<b>Manufacture</b>	0

VOC (volatile organic compounds)	
<b>Content</b>	0
<b>Manufacture</b>	0
<b>Rate of vapour transmission</b> (max) (ug/m <sup>2</sup> s)	0

### PRODUCT TESTING & COMPLIANCE

<b>Thermal performance</b>	AS/NZS 4859.1
<b>Surface corrosion &amp; wet delamination resistance</b>	AS/NZS 4859.1 Appendix E
<b>Thermal resistance AS/NZ4859.1 2018</b>	ASTM-C 518
<b>Emittance</b>	AS/NZS 4201-5-1994 ASTM E408
<b>Ignitability</b>	AS 1530.3
<b>Flame spread</b>	AS 1530.3
<b>Heat evolved</b>	AS 1530.3
<b>Smoke developed</b>	AS 1530.3
<b>Rigid cellular polystyrene – moulded</b>	AS 1366.3
<b>Nominal density</b>	AS 1366.3
<b>Water barrier</b>	AS/NZS 4201.4
<b>Shrinkage</b>	AS/NZS 4201.3
<b>Vapour Transmission</b>	AS 2498.5
<b>Dry Delamination</b>	AS/NZS 4201.1

### Comparative testing of some materials to AS 1530.3 Early Fire Hazard Test

	Ignitability index (0-20)	Spread of flame index (0-10)	Heat evolved index (0-10)	Smoke developed index (0-10)
<b>Foilboard</b>	0	0	0	0-1
<b>EPS</b>	12	0	3	5
<b>Australian Softboard</b>	16	9	7	3
<b>Oregon</b>	13	6	5	3

SOURCE  
EBS Notes on the Science of Building NSB66 Foilboard® Australia Pty Ltd is the owner of registered trademark no: 674507. Registered design no: 142133.

MANUFACTURING PLANT  
The Foilboard Insulation Panels are manufactured in Pakenham, Victoria.

DISCLAIMER  
All statements and technical information contained herein are based on tests we believe to be reliable, but the accuracy thereof is not guaranteed. Users assume all risk and liability resulting from the use of the product and must confirm the suitability thereof by their own calculations. Conditions of Sale contain a limited warranty against manufacturing defects.

