FOIL BOARD®
INSULATION PANEL

5 Star Energy Efficient

SPECIFICATION & TESTING

PRODUCT SPECIFICATIONS

SPECIFICATION

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. Where volume is sufficient FOILBOARD can be manufactured in thicknesses of up to 100mm. FOILBOARD® INSULATION PANEL is manufactured in Australia from all Australian materials.

	Standard 10	Super 15	Ultra 20	Cathedral 25
Reflectance				
Anti-Glare Face	95%	95%	95%	95%
Reflective Face	97%	97%	97%	97%
Emittance				
Anti-Glare Face	E0.05	E0.05	E0.05	E0.05
Reflective Face	E0.03	E0.03	E0.03	E0.03
Sheet Thickness	10mm	15mm	20mm	25mm
Sheet Size (mm)	2440 x 1200 / 2700 x 1200	2440 x 1200 / 2700 x 1200	2440 x 1200	2440 x 1200
Weight (grams)	767 / 848	995 / 1100	1233	1467
Density (kg/m³)	13.5 kg/m³	13.5 kg/m³	13.5 kg/m³	13.5 kg/m³
Core	Fire Retardant SL Grade EPS	Fire Retardant SL Grade EPS	Fire Retardant SL Grade EPS	Fire Retardant SL Grade EPS
Surface	20 Micron 100% Pure Aluminium	20 Micron 100% Pure Aluminium	20 Micron 100% Pure Aluminium	20 Micron 100% Pure Aluminium
Anti Glare	Metal Etching UV Stabilized Green Ink Spec Formula: 21477	Metal Etching UV Stabilized Green Ink Spec Formula: 21477	Metal Etching UV Stabilized Green Ink Spec Formula: 21477	Metal Etching UV Stabilized Green Ink Spec Formula: 21477
Adhesive	Contact Adhesive Proprietary Formula	Contact Adhesive Proprietary Formula	Contact Adhesive Proprietary Formula	Contact Adhesive Proprietary Formula
Ozone Depleting Substances				
Content	0	0	0	0
Manufacture	0	0	0	0
VOC (volatile organic compound)				
Content	0	0	0	0
Manufacture	< 0.8 g/l	< 0.8 g/l	< 0.8 g/l	< 0.8 g/l
Rate of Vapour (EPS only) Transmission (max) ug/m²s	630	630	630	630

PRODUCT TESTING

Thermal Performance	AS/NZS 4859.1
Surface Corrosion Resistance	AS/NZS 4859.1 Appendix I
Thermal Resistance	ASTM-C 518
Emittance	ASTM-E 408-71
Ignitability	AS 1530.3
Flame Spread	AS 1530.3
Heat Evolved	AS 1530.3
Smoke Developed	AS 1530.3

Rigid Cellular Polystyrene - Moulded	AS 1366.3
Nominal Density	AS 1366.3
Cone Calorimeter	AS/NZS 3837
Vapour Transmission	AS 2498.5
Dry Delamination	AS/NZS 4201.1 Method 1
Wet Delamination	AS/NZS 4201.1 Method 2
Shrinkage	AS/NZS 4201.3 Method 3
Water Barrier	AS/NZS 4201.4

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

Material	Ignitability Index (0-20)	Spread of Flame Index (0-10)	Heat evolved Index (0-10)	Smoke developed Index (0-10)
FOILBOARD®	0	0	0	0-1
EPS	12	0	3	5
Australian Softboard	16	9	7	3
Oregon	13	6	5	3

Source: EBS Notes on the Science of Building NSB66