BLUECHIP
Insulation Products

IBOARD TECHNICAL DATA SHEET

ITEM	TEST STANDARD	UNIT	RESULT
Unit Weight (Density)	Actual	Kg/m3	32
Aged Thermal Conductivity	EN 13165	W/mK	0.022*
Emittance of Foil Facings	ASTM E408-71	E	0.05
Material R-value at 0.022W/mK*			
▪ 27mm Thickness	ASTM C518	R-value	1.23
▪ 37mm Thickness	ASTM C518	R-value	1.68
▪ 47mm Thickness	ASTM C518	R-value	2.14
▪ 57mm Thickness	ASTM C518	R-value	2.59
▪ 30mm Thickness	ASTM C518	R-value	1.36
▪ 40mm Thickness	ASTM C518	R-value	1.82
▪ 50mm Thickness	ASTM C518	R-value	2.27
▪ 60mm Thickness	ASTM C518	R-value	2.73
▪ 70mm Thickness	ASTM C518	R-value	3.18
▪ 80mm Thickness	ASTM C518	R-value	3.64
▪ 90mm Thickness	ASTM C518	R-value	4.09
▪ 100mm Thickness	ASTM C518	R-value	4.55
Ignitability Index	AS 1530.3	-	0
Spread of Flame Index	AS 1530.3	-	0
Heat Evolved Index	AS 1530.3	-	0
Smoke Developed Index	AS 1530.3	-	2
Compressive Strength			
▪ 0% Deformation	EN 826	kPa	110
▪ 10% Deformation	EN 826	kPa	150
Tensile Strength	EN 1607	kPa	80
Closed Cells	Actual	%	90-95
Dry Delamination	AS 4201.1	-	Pass
Wet Delamination	AS 4202.2	-	Pass
Surface Corrosion	AS 4859.1	-	Pass
Water Vapour Diffusion			
▪ PIR Foam	Actual	μ	60
▪ Foil Facings	Actual	μ	100,000
Water Absorption (After 28 Days Total Immersion)	EN 12087	%	1
Water Absorption (Partial Immersion)	EN 1609	%	0.1
Formaldehyde Content	Actual	%	0
CFC/HCFC Content	Actual	%	0
Ozone Depletion Potential (ODP)	Actual	%	0
Corrosive Content	Actual	%	0

*The material R-values declared are calculated based on the ageing thermal requirements which are called up in NCC 2019 using the aged fixed increment method as per AS 4859.1