

IBOARD G1 TECHNICAL DATA SHEET

ITEM	TEST STANDARD	UNIT	RESULT
Unit Weight (Density)			
▪ Insulation (30-100mm)	Actual	Kg/m3	32
▪ Fibre Cement (6mm)	Actual	Kg/m2	9
Thermal Conductivity (Insulation)	EN 13165	W/mK	0.022*
Thermal Conductivity (Fibre Cement)	ASTM C518	W/mK	0.23*
Material R-value Combined*			
▪ 36mm Thickness	ASTM C518	R-value	1.38*
▪ 46mm Thickness	ASTM C518	R-value	1.84*
▪ 56mm Thickness	ASTM C518	R-value	2.29*
▪ 66mm Thickness	ASTM C518	R-value	2.75*
▪ 76mm Thickness	ASTM C518	R-value	3.20*
▪ 86mm Thickness	ASTM C518	R-value	3.66*
▪ 96mm Thickness	ASTM C518	R-value	4.11*
▪ 106mm Thickness	ASTM C518	R-value	4.57*
Group Rating	AS 5637	-	Group 1**
Average Specific Extinction Area	AS 5637	m2/kg	<250**
Smoke Growth Rate (SMOGRA)	AS 5637	m2/s2x1000	<100**
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***
Tensile Strength	EN 1607	kPa	80
Compressive Strength			
▪ 0% Deformation	EN 826	kPa	>110
▪ 10% Deformation	EN 826	kPa	>150

*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

*The combined material R-values are calculated based on the insulation thickness at 0.022 W/mK in addition to the 6mm fibre cement facer at 0.23 W/mK.

**The AS 5637 testing and Group 1 rating applies to the exposed 6mm fibre cement facer, being the wall or ceiling lining, in accordance with the NCC 2019 requirements.

***The AS 1530.3 testing applies to the PIR insulation board, being a concealed insulation material, in accordance with the NCC 2019 requirements.

For further information on the concealed insulation refer to the **IBOARD Technical Data Sheet**