IBOARD G1 TECHNICAL DATA SHEET

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

* The material R-values declared are calculated based on the ageing thermal requirements which are called up in NCC2019 using the aged fixed increment method as per AS4859.1

* The combined material R-values are calculated based on the insulation backing thickness at 0.022 W/mK in addition to the 10mm plasterboard sheet at 0.17 W/mK.

** The fire testing applies to the exposed compliant fibre cement sheet facing in accordance with the NCC 2019 requirements.

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