IBOARD P17 TECHNICAL DATA SHEET

ITEM	TEST STANDARD	UNIT	RESULT
Unit Weight (Density) ▪ Insulation (30-100mm) ▪ Plasterboard (10mm)	 Actual Actual	 Kg/m3 Kg/m2	 32 7
Thermal Conductivity (Insulation)	EN 13165	W/mK	0.022*
Thermal Conductivity (Plasterboard)	ASTM C518	W/mK	0.17*
Material R-value Combined* ▪ 40mm Thickness ▪ 50mm Thickness ▪ 60mm Thickness ▪ 70mm Thickness ▪ 80mm Thickness ▪ 90mm Thickness ▪ 100mm Thickness ▪ 110mm 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	 1.42* 1.88* 2.33* 2.79* 3.24* 3.70* 4.15* 4.61*
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 ▪ 10% Deformation	 EN 826 EN 826	 kPa kPa	 >110 >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 10mm plasterboard facer at 0.17 W/mK.

**The AS 5637 testing and Group 1 rating applies to the exposed 10mm plasterboard 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**