

## IBOARD P17 TECHNICAL DATA SHEET

ITEM	TEST STANDARD	UNIT	RESULT
Unit Weight (Density)			
▪ Insulation (30-100mm)	Actual	Kg/m <sup>3</sup>	32
▪ Plasterboard (10mm)	Actual	Kg/m <sup>2</sup>	7
Compressive Strength			
▪ 0% Deformation	EN 826	kPa	>110
▪ 10% Deformation	EN 826	kPa	>150
Tensile Strength	EN 1607	kPa	80
Ignitability Index	AS 1530.3	-	13 **
Spread of Flame Index	AS 1530.3	-	0 **
Heat Evolved Index	AS 1530.3	-	1 **
Smoke Developed Index	AS 1530.3	-	3 **
Group Rating	AS 5637	-	Group 1 **
Average Specific Extinction Area	-	m <sup>2</sup> /kg	<250 **
Smoke Growth Rate (SMOGRA)	-	m <sup>2</sup> /s <sup>2</sup> x1000	<100 **
Thermal Conductivity (Insulation)	EN 13165	W/mK	0.022 *
Thermal Conductivity (Plasterboard)	ASTM C518	W/mK	0.17 *
Material R-value Combined			
▪ 40mm Thickness	ASTM C518	R-value	1.42
▪ 50mm Thickness	ASTM C518	R-value	1.88
▪ 60mm Thickness	ASTM C518	R-value	2.33
▪ 70mm Thickness	ASTM C518	R-value	2.79
▪ 80mm Thickness	ASTM C518	R-value	3.24
▪ 90mm Thickness	ASTM C518	R-value	3.70
▪ 100mm Thickness	ASTM C518	R-value	4.15
▪ 110mm Thickness	ASTM C518	R-value	4.61

\* 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 plasterboard sheet facing in accordance with the NCC 2019 requirements.

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