

## CORE COMPARISONS

Based on 100mm Insulated Panel Thickness

Insulated Panel Core Comparisons & Technical Information

AUSTRALIAN STANDARDS & TESTING	XFLAM	Volcore	EPSFR	PIR
<b>FIRE PERFORMANCE</b>				
C1.1 Non Combustible C1.9e	Combustible	Non Combustible	Combustible	Combustible
AS 1530.3: Fire Indices per NCC	Indices 0/0/0/1	Indices 0/0/0/2	Indices 0/0/0/2	Indices 0/0/0/2
C1.1 FRL AS 1530.4/ or Equivalent.	/ 120 / 30	/ 60 / 60	NA	/ 30 / 30
NCC C1.10 AS 5637.1: Test ISO 9705	Group 1	Group 1	Group 1	Group 2
SMOGRA (m <sup>2</sup> / s <sup>2</sup> x 1000) *CP4	2.2	0.0	3.8	21.4
*CP4 requires materials and assemblies to resist spread of fire and limit the generation of smoke and toxic gases during evacuation.				
<b>THERMAL PERFORMANCE</b>				
Mean Temp: 15 Degrees Celsius	3.3	2.6	2.8	4.1
Mean Temp -35 Degrees Celsius	4.0	3.2	3.2	4.3
<b>STRUCTURAL PERFORMANCE</b>				
Maximum Wall Span: Based on Min. UDL / ULS @ 0.5 kPa	8.1	4.6	6.9	7.4
Cyclonic	8kPa/250 (2.0m Span)	Project Specific	Project Specific	8kPa/250 (1.8m Span)
<b>ACOUSTIC PERFORMANCE</b>				
Rw Values	25	29	23	24
<b>MOISTURE / WEATHER PERFORMANCE</b>				
AS 4284	2016 NCC Certified	2016 NCC Certified	2016 NCC Certified	Project Specific
AS 2498.5 Water Vapour Transmission ug/m2.s	180	N/A	217	215
<b>PHYSICAL PROPERTIES</b>				
Core Density - kg/m <sup>3</sup>	32-36	100-120	13.5-15	37.5-42.5
Panel Weight - kg/m <sup>2</sup>	11.7	18.3	9.75	12.1
Workability	Good	PPE required	Good	Full PPE required
Trafficability - ceiling foot traffic per standard span	Yes	crawl boards required	Yes	Subject to design
Manufacturing Tolerances (Thickness <100)	+/-1mm (T=2mm)	+/-2mm (T=2mm)	+/-1mm (T=2mm)	+/-4mm (T=8mm)
Maximum manufactured Panel Length	25,000mm	13,500mm	25,000mm	16,000mm
Sustainability	100% Recyclable + Greentag		100% Recyclable	Greentag
Insurance - Factory Mutual Approved	4880, 4881, 4471, 4882	NA	No	4880, 4881, 4471