

Product Performance Test Results

Test	standard	Criteria	Results	
FIRE PERFORMANCE:				
Fire Spread and Burning		Maximum temp rise of 36C° above 750C°	0	
Smoke Development	ASTM E84	No flaming	0	
Smoke Generation	ASTM D136	Weight loss not to exceed 20%	0	
Combustibility	CAN/ULC-S114-M80		Material classified as Non Combustible	
Fire Resistance Rating	AS 1530.4 1997	Resistance to heat; refer BRANZ Fire Resistance Test FR 3524	FRR 240/240/240	
PHYSICAL PROPERTIES:				
Sorptivity - Initial Rate of Water Absorption	ASTM C1585.04	mm/sec^0.5	Litecrete = 0.0107 @ 12Mpa; normal concrete = 0.0215 @ 30MPa	
Vapour Flow Resistance		N/A	30 -100	(GN.s/kg.m)
Thermal Conductivity (k) Value Thermal resistance (R) Value	AS/NZS 4859.1 NZS 4218:2009	0.32 +/- 0.003 Wm-1K-1 0.16 +/- 0.06 m² KW-1 (for 50 mm)	Tests conducted at Curtin University, Perth: ASTM C-177, ASTM C-653, ASTM C-167. Meets Code requirements (solid construction) for Climate Zone 1: 220 mm thick = R0.8	
Environ. Compatibility	EPA M 1311	No pollution	No detrimental effects.	
Mould and Mildew	MIL STD 810E	Susceptibility	Does not support fungal growth. Rated: 0	
Modulus of Elasticity	ASTM-C469-02	N/A	4580 MPa (28 days)	
Modulus of Rupture	NZS 3112 P2	N/A	1.45 MPa (28 days)	
Coefficient of Thermal Exp.	ASTM C531	N/A	5.51 (AVE) x 10 ⁻⁶ / F°	
Shrinkage	NZS 3151:1974	N/A	< 1000 με (microstrains)	
Compressive Strength	NZS 3151:1974	N/A	> 10 MPa (28 days)	
Density	NZS 3112 P3	N/A	1700 kg/m³ at delivery min 14 days 1550 kg/m³ (28 days) reinforced 1450 kg/m³ (28 days) un-reinforced	
Tensile Strength	NZS 3112 P2	N/A	1.3 MPa (28 days)	
Bracing Units		Uni of Auckland	3000x1200x220 mm panel = 640 BU's	
ACOUSTIC PERFORM Specification	STC Class		Fire Resistance	Test Criteria
150 wall panels strapped/ lined 260 mm thick panel	STC 60 STC 55		240/240/240 240/240/240	ISO 140 Part 3 ISO 140 Part 3

ARCHITECTURAL CATALOGUE

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