



Abacus Elements Tile Backer Board Data Sheet

Abacus Elements Trade Board is manufactured using a rigid HCFC-Free Extruded Polystyrene core, with a fibreglass reinforced polymer concrete coating.

XPS Core Properties		
Property	Assessed to	Rating
XPS Foam Density	DIN 53420	32±0.02kg/m ³
Thermal Conductivity	EN 12167	0.033W/m.K
Compressive Strength(10% deflection)	EN 826	300kPa(30 tonnes/m ²)
Water Absorption(2-day immersion)	ISO 2896	0.2% by volume
Water Absorption(Capillary)	DIN 53428	Zero
Water Vapour Diffusion Resistivity(μ)	DIN 52615	110-225μ
Flammability	EN 13501	Class E
Ozone Depletion Potential		Zero

Elements Trade Board Properties		
Property	Assessed to	Rating
Maximum Tile Loading Weight	CERAM 121107	62kg/m ²
Flexural Strength	ASTM C203	0.3±0.02Mpa
Compressive Strength(10% deflection)	EN 826	400kPa(40 tonnes/m ²)
EU Controlled Substances	N/A	None
Impact Sound Reduction	BS-ISO 10140	dLw = 21
Water Vapour Permeability	ASTM E-96	0.028ng/Pa.m.s
Working Temperature		-50°C, +75°C

Typical Weights and Dimensions		
Size	Thickness	Weight
1200x600mm	6mm	2.20kg
1200x600mm	10mm	2.40kg
1200x600mm	12mm	2.50kg
1200x600mm	20mm	2.90kg
1200x600mm	30mm	3.40kg
1200x600mm	40mm	3.90kg
1200x600mm	50mm	4.90kg
1200x600mm	80mm	5.90kg
2400x600mm	10mm	4.40kg
2400x600mm	12mm	4.80kg
2400x600mm	20mm	5.00kg
2400x600mm	30mm	5.80kg
2400x600mm	40mm	9.60kg
2400x600mm	50mm	9.60kg
2400x600mm	80mm	11.80kg
2400x600mm	100mm	13.80kg
2400x900mm	10mm	7.20kg
2400x900mm	12mm	7.50kg
2400x1200mm	12mm	9.80kg