

Cube™ (6, 12, 24)

PRODUCT DESCRIPTION

Cube™ are panels designed to reduce reverberation in most situations.

PHYSICAL PROPERTIES

Name	Thickness (mm)	Width x Length (m)	Weight per panel (g/m ²)	Material
Cube™	12mm & 24mm	1.2m x 2.4m some colours are available in 1.2m x 2.7m	12mm – 2.4kg 24mm – 4.8kg	100% Polyester fibre

MEASURED VALUES

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Sound Absorption Coefficients (12mm)	0.05	0.1	0.3	0.65	0.9	0.95	0.45
Sound Absorption Coefficients (12mm with 25mm air gap)	0.02	0.27	0.61	0.91	0.97	0.85	0.7
Sound Absorption Coefficients (24mm)	0.1	0.25	0.6	0.9	0.95	0.95	0.65
Sound Absorption Coefficients (24mm with 25mm air gap)	0.15	0.4	0.85	0.95	0.95	0.95	0.8

IN ACCORDANCE WITH THE FOLLOWING STANDARDS

- ISO 9705:1993 (fire rating) (as required by NZBC C/VM2)
- ISO 9705:2003 (fire rating) (as required by BCA C1.10)
- EN13501-1:2018 (fire rating)
- ASTM E-84-15a (fire rating)
- ASTM D5116 (VOC emissions)
- ASTM C1104 / C1104M-13a (water vapour sorption)
- ASTM G21-15 (microbial resistance)
- ISO 105-B02:2014 (colour fastness to light)
- ISO 105-X12:2016 (colour fastness to rubbing)

GENERAL PHYSICAL PROPERTIES

Cube™	
Thermal Performance	10-12mm R0.22 (@15°C)
Tolerance	(+ 5mm) (+ 10mm)
Fire class/fire hazard properties	Group 1-S Smoke Production Rate: <0.5m ² /s ² Group 1 SMOGRARC: <100m ² /s ² B – s1, d0 Class A, FS:5 – SD:25
VOC Concentration	Low VOC VOC concentration: 0.009mg/m ³ (7 days)
Water Vapour Sorption	Test Conditions: 49°C, 95% RH Water vapour absorbed and adsorbed after 4 days: 0.4% by weight
Moisture Absorption	Conditions: 50°C, 90% RH, 4 days <0.03% by weight
Microbial Resistance	Growth rating: 0 (No growth)
Colour Fastness to Light	Rating: 6 (Highest = 7)
Colour Fastness to Rubbing	Dry rating: 4-5 Wet rating: 4-5 (Highest for both = 5)
NRC (Noise Reduction Coefficient)	0.40
Sound Absorption Class	Class D

