



EchoSorb® 25 & 50

PRODUCT DESCRIPTION

EchoSorb® 25 & 50 wall and ceiling panels control reverberated noise, providing superior sound absorption for large spaces.

PHYSICAL PROPERTIES

Name	Thickness (mm)	Width x Length (m)	Weight per panel (g/m ²)	Material
EchoSorb® 25 & 50	EchoSorb® 25: 25mm EchoSorb® 50: 50mm	Standard is 1200mm x 1200mm x 25/50mm or 1200mm x 2400mm x 25/50mm	25mm: 2.3kg/m ² 50mm: 3.8kg/m ²	High density 100% polyester fibre (PET) (up to 60% recycled content)

MEASURED VALUES

Frequency (Hz)	125	250	500	1000	2000	4000
Sound Absorption Coefficients 25mm	0.12	0.47	0.88	0.98	0.99	0.93
Sound Absorption Coefficients 50mm	0.24	0.76	1.09	1.09	1.05	1.01
TL (Transmission Loss) (EchoSorb® 25)	0.13	0.37	0.80	0.94	0.97	0.88

IN ACCORDANCE WITH THE FOLLOWING STANDARDS

- EN13964:2004 (impact resistance)
- ASTM 5036:83 (weatherability)
- ISO 9705:1993 (fire rating) as according to NZBC C/VM2
- AS ISO 9705-2003 (fire rating) in accordance to BCA Specification C1.10-4
- ASISO 9705:2003 (fire rating methodology)
- AS5637.1:2015 (fire rating methodology)
- EN13501-1:2007 (25mm) (Report 185157 – 22nd July 2009)
- EN13501-1:2007 + A1:2009 (50mm) (Report WF 336912 – 25th February 2014)
- VOC tested by Cetec PTY LTD (report CV170908) (chemical emission)

GENERAL PHYSICAL PROPERTIES

EchoSorb® 25 & 50	
Fire class/ fire hazard properties	Group 1-S Smoke Production Rate: <5.0m ² /s Group 1 SMOGR _{Arc} : <100m ² /s ² 25mm – B – s ₂ , d0 50mm – B – s ₂ , d0
Density (kg/m ³)	60 kg/ m ³ Faced with high density polyester – 300kg/m ³
Moisture absorption	<0.03% by weight (when exposed to an atmosphere of 50°C at 90% relative humidity for four days)
VOC concentration	Low VOC 0.009mg/m ³ (7 days)
Impact Resistance	Class 1A (not adversely affected at impact velocities over 16.5m/s)
Weatherability	Suitable for indoor use only; will not rot or deteriorate in intended use situations
NRC (Noise Reduction Coefficient)	EchoSorb 25: 0.85 EchoSorb 50: 1.00

