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Performance Testing Laboratory

TEST REPORT

Report Number: 16-0103d

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Date: 27/4/2016

Client: Materialised Pty Ltd
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Sample Reference: Frequency

Description: white and beige samples, semi-transparent acoustic fabric, stripe pattern

Test Method: ASTM E1050-12 Standard Test Method for Impedance and Absorption of Acoustical Materials Using a Tube, Two Microphones and a digital Frequency Analysis System

Test Parameters

Mounting method: perimeter fixed; 100 mm from end wall (100 mm air gap)
Air temperature: 21.9 °C **Relative humidity:** 35% **Barometric pressure:** 102.5 kPa
Characteristic impedance of air: 416 Pa.s/m
Instrument: 34 mm and 78 mm tube diameter, sampling frequency 44.1 kHz, frequency resolution of 10 Hz, number of averages 300, Hanning windowing of 4096 points.

Results

Frequency band Hz	Absorption Coefficient				
	Sample 1	Sample 2	Sample 3	Sample 4	Mean
250	0.27	0.25	0.24	0.23	0.25
500	0.76	0.76	0.72	0.66	0.72
1000	0.70	0.71	0.67	0.68	0.69
2000	0.63	0.64	0.65	0.64	0.64
Noise Reduction Coefficient NRC	0.59	0.59	0.57	0.55	0.58

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Approved by: **Stuart Lucas** - Research Operations Manager