



## CSIRO - Manufacturing

(ABN: 41 687 119 230)

75 Pigdons Road, Waurin Ponds Vic 3216, Australia

Telephone: (03) 5246 4000

Email: Tony.Pierlot@csiro.au

## Performance Testing Laboratory

### TEST REPORT

Report Number: 16-0207a

Page 1 of 1

Date: 1/12/2016

**Client:** Materialised Pty Ltd  
**Contact:** Dorit Herrmann  
**Address:** 19 Heath Rd  
Blakehurst NSW 2221

**Email:** Dorit.Herrmann@materialised.com

**Sample Reference:** Shimmer

**Description:** white semi-transparent acoustic fabric with striped 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:** 44% **Barometric pressure:** 1010.8HPa

**Characteristic impedance of air:** 416Pa.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	0.50	0.45	0.44	0.52	0.48
500	0.96	0.96	0.96	0.95	0.96
1000	0.75	0.76	0.74	0.76	0.75
2000	0.65	0.65	0.66	0.66	0.65
Noise Reduction Coefficient NRC	0.71	0.70	0.70	0.72	0.71

The results contained in this report apply only to the sample submitted to the laboratory. This report must not be reproduced without the written authority of the laboratory and then shall only be reproduced in full.

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

Australian

Science,

Australia's

Future

MANUFACTURING FLAGSHIP