

**Performance Testing Laboratory****TEST REPORT****Report Number: 16-0207c****Page 1 of 1****Date: 12/12/2016**

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**Sample Reference:** Nightline**Description:** two shade grey striped (16mm repeat) acoustic fabric with black core**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:** 42% **Barometric pressure:** 1019.5HPa  
**Characteristic impedance of air:** 414Pa.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	0.39	0.44	0.44	0.46	0.43
500	0.95	0.95	0.92	0.92	0.93
1000	0.74	0.72	0.68	0.68	0.71
2000	0.63	0.64	0.61	0.62	0.63
Noise Reduction Coefficient NRC	0.68	0.69	0.66	0.67	0.68

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