

BS EN ISO 354:2003
Acoustics - Measurement of absorption in a reverberation room

Client: **TECH MATERIALS**
 Unit D, Halesfield 10
 Telford. TF7 4QP

Product Identification: 48mm A01
Description of Sample: Panel absorber

Room Volume: 220 m³ **Location:** Acoustic Transmission Suite
Sample Size: 12.02 m² **Test Room** Large reverberation Room
Sample Thickness: 48 mm **Condition:** Clean

Sample Out		Sample In	
Temperature	18.9 °C	Temperature	19.1 °C
Relative Humidity	51.0 %	Relative Humidity	53.6 %
Static Pressure	100.2 kPa	Static Pressure	100.2 kPa

Random Incidence Sound Absorption Coefficient

Frequency [Hz]	T_1 [s]	T_2 [s]	α_S
100	4.12	3.90	0.04
125	4.64	3.87	0.12
160	3.68	3.09	0.16
200	3.62	2.73	0.27
250	3.79	2.57	0.37
315	4.16	2.34	0.55
400	4.25	2.16	0.67
500	4.50	2.10	0.75
630	4.51	1.98	0.84
800	4.50	1.95	0.86
1000	4.41	1.88	0.91
1250	4.17	1.81	0.92
1600	3.92	1.71	0.97
2000	3.60	1.65	0.97
2500	3.21	1.57	0.97
3150	2.73	1.45	0.97
4000	2.28	1.32	0.97
5000	1.80	1.16	0.94

Test reference: 2118-2039

Date: 15 October 2015

University of Salford, School of Computing Science & Engineering

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Sample Out

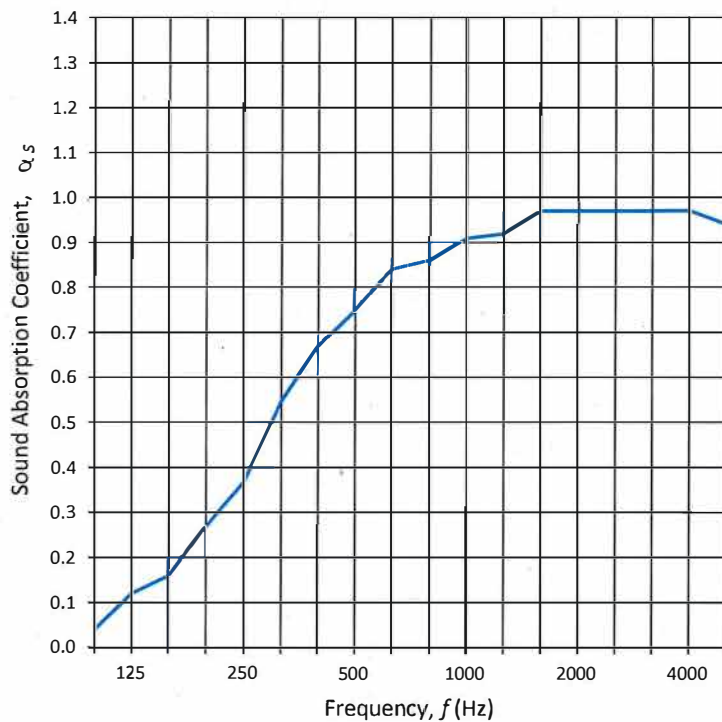
Temperature 18.9 °C
Relative Humidity 51.0 %
Static Pressure 100.2 kPa

Sample In

Temperature 19.1 °C
Relative Humidity 53.6 %
Static Pressure 100.2 kPa

Random Incidence Sound Absorption Coefficient

Frequency [Hz]	α_s
100	0.04
125	0.12
160	0.16
200	0.27
250	0.37
315	0.55
400	0.67
500	0.75
630	0.84
800	0.86
1000	0.91
1250	0.92
1600	0.97
2000	0.97
2500	0.97
3150	0.97
4000	0.97
5000	0.94



Signed: *[Signature]*

Test reference: 2118-2039

Date: 15 October 2015

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BS EN ISO 11654:1997
Acoustics - Sound absorbers for use in buildings

Client: **TECH MATERIALS**
 Unit D, Halesfield 10
 Telford. TF7 4QP

Product Identification: 48mm A01

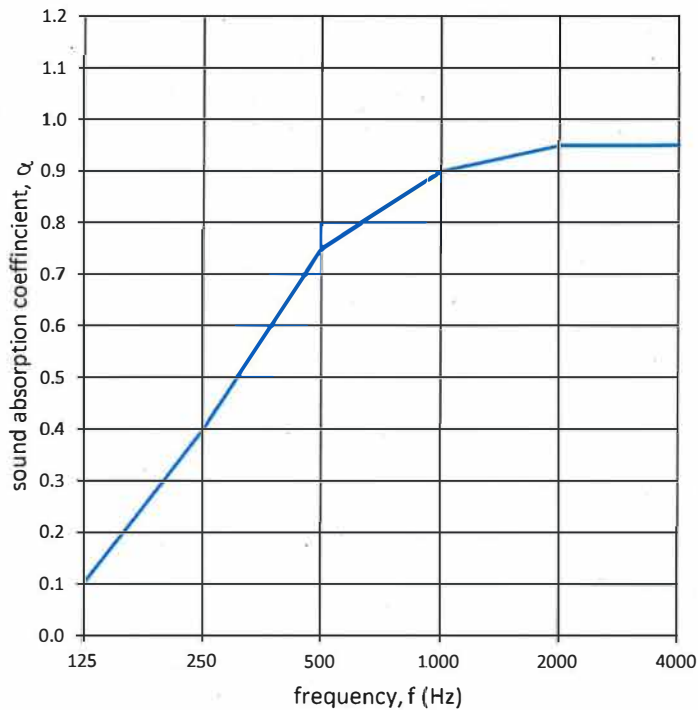
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Sample Size: 12.02 m² **Test Room** Large reverberation Room
Sample Thickness: 48 mm **Condition:** Clean

Sample Out		Sample In	
Temperature	18.9 °C	Temperature	19.1 °C
Relative Humidity	51.0 %	Relative Humidity	53.6 %
Static Pressure	100.2 kPa	Static Pressure	100.2 kPa

Random Incidence Sound Absorption Coefficient

Frequency [Hz]	α_{pi}
125	0.10
250	0.40
500	0.75
1000	0.90
2000	0.95
4000	0.95



$\alpha_w = 0.70$ (H)

Classification: C

Signed: *[Signature]*

If a shape indicator is given, it is strongly recommended to use this single-number rating in combination with the complete absorption coefficient curve that can be obtained on request.

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