

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: 51mm Class O foam
Description of Sample: Panel absorber

Room Volume: 220 m³ Location: Acoustic Transmission Suite
Sample Size: 11.98 m² Test Room Large reverberation Room
Sample Thickness: 50 mm Condition: Clean

Sample Out

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

Sample In

Temperature 19.1 °C
Relative Humidity 52.4 %
Static Pressure 100.2 kPa

Random Incidence Sound Absorption Coefficient

Frequency [Hz]	T_1 [s]	T_2 [s]	α_S
100	4.12	3.23	0.19
125	4.64	3.17	0.29
160	3.68	2.66	0.31
200	3.62	2.39	0.43
250	3.79	2.38	0.47
315	4.16	2.31	0.57
400	4.25	2.26	0.62
500	4.50	2.28	0.63
630	4.51	2.21	0.68
800	4.50	2.19	0.70
1000	4.41	2.15	0.71
1250	4.17	2.05	0.73
1600	3.92	1.95	0.76
2000	3.60	1.87	0.76
2500	3.21	1.77	0.75
3150	2.73	1.57	0.81
4000	2.28	1.36	0.90
5000	1.80	1.17	0.91

Test reference: 2118-2036

Date: 15 October 2015

University of Salford, School of Computing Science & Engineering

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

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

Product Identification: 51mm Class O foam

Description of Sample: Panel absorber

Room Volume: 220 m³
Sample Size: 11.98 m²
Sample Thickness: 50 mm

Location: Acoustic Transmission Suite
Test Room Large reverberation Room
Condition: Clean

Sample Out

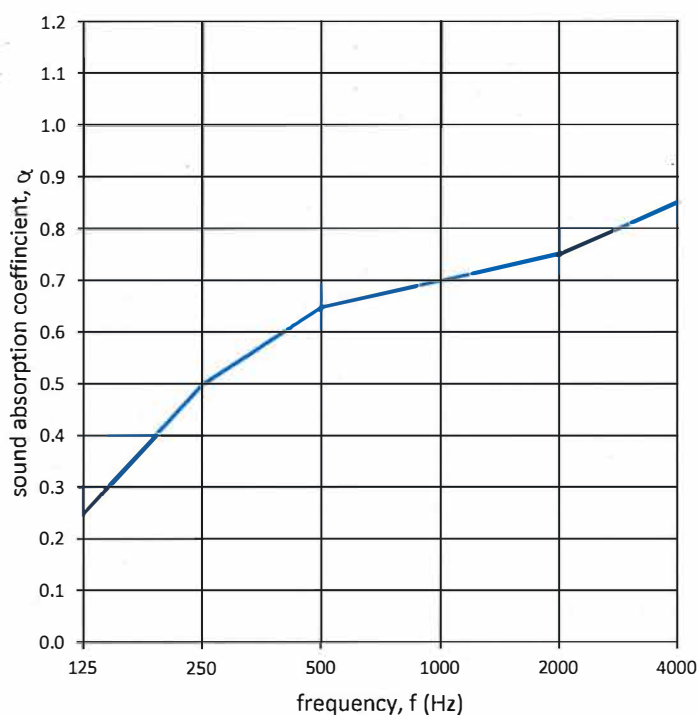
Temperature 18.9 °C
Relative Humidity 51.0 %
Static Pressure 100.2 kPa

Sample In

Temperature 19.1 °C
Relative Humidity 52.4 %
Static Pressure 100.2 kPa

Random Incidence Sound Absorption Coefficient

Frequency [Hz]	α_{pi}
125	0.25
250	0.50
500	0.65
1000	0.70
2000	0.75
4000	0.85



$\alpha_w = 0.70$ (H)

Classification: C

Signed: 

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.

Test reference: 2118-2036

Date: 15 October 2015

University of Salford, School of Computing Science & Engineering