

**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 Cara Melamine foam

**Description of Sample:** Wall/Ceiling panel

Room Volume: 220 m<sup>3</sup>      Location: Acoustic Transmission Suite  
Sample Size: 11.98 m<sup>2</sup>      Test Room Large reverberation Room  
Sample Thickness: 52 mm      Condition: Clean

**Sample Out**

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

**Sample In**

Temperature 19.2 °C  
Relative Humidity 52.0 %  
Static Pressure 100.2 kPa

**Random Incidence Sound Absorption Coefficient**

Frequency [Hz]	$T_1$ [s]	$T_2$ [s]	$\alpha_S$
100	4.12	3.20	0.20
125	4.64	3.25	0.27
160	3.68	2.62	0.33
200	3.62	2.29	0.48
250	3.79	2.15	0.60
315	4.16	2.03	0.75
400	4.25	1.89	0.88
500	4.50	1.90	0.90
630	4.51	1.84	0.96
800	4.50	1.81	0.98
1000	4.41	1.79	0.98
1250	4.17	1.77	0.96
1600	3.92	1.69	0.99
2000	3.60	1.65	0.98
2500	3.21	1.57	0.97
3150	2.73	1.45	0.96
4000	2.28	1.31	0.98
5000	1.80	1.14	0.97

Test reference: 2118-2034

Date: 15 October 2015

University of Salford, School of Computing Science &amp; Engineering

**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 Cara Melamine foam  
**Description of Sample:** Wall/Ceiling panel

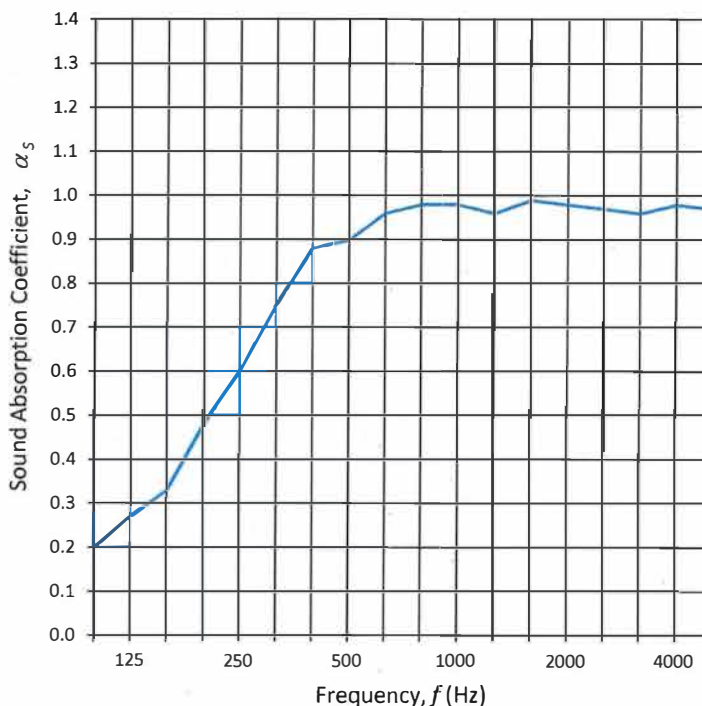
Room Volume: 220 m<sup>3</sup>      Location: Acoustic Transmission Suite  
 Sample Size: 11.98 m<sup>2</sup>      Test Room Large reverberation Room  
 Sample Thickness: 52 mm      Condition: Clean

**Sample Out**      **Sample In**

Temperature 18.9 °C      Temperature 19.2 °C  
 Relative Humidity 51.0 %      Relative Humidity 52.0 %  
 Static Pressure 100.2 kPa      Static Pressure 100.2 kPa

**Random Incidence Sound Absorption Coefficient**

Frequency [Hz]	$\alpha_s$
100	0.20
125	0.27
160	0.33
200	0.48
250	0.60
315	0.75
400	0.88
500	0.90
630	0.96
800	0.98
1000	0.98
1250	0.96
1600	0.99
2000	0.98
2500	0.97
3150	0.96
4000	0.98
5000	0.97



Signed: 

**Test reference: 2118-2034**

**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 Cara Melamine foam

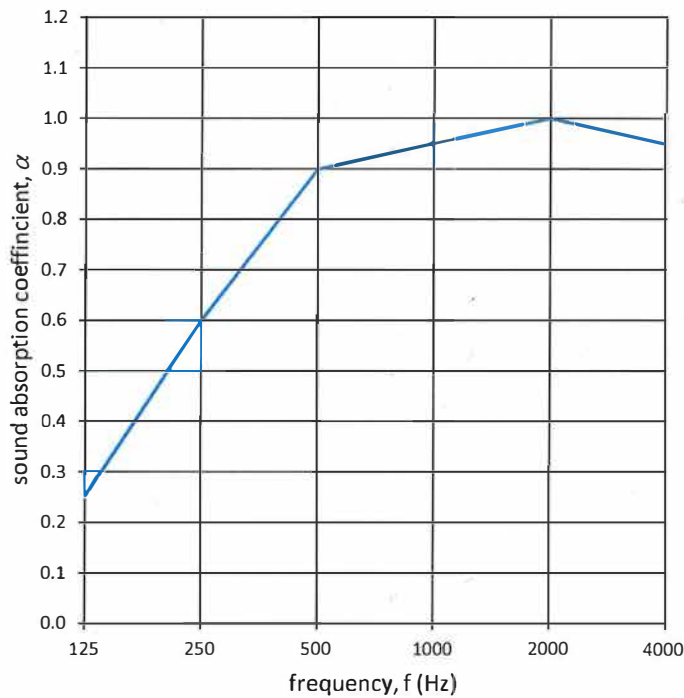
**Description of Sample:** Wall/Ceiling panel

**Room Volume:** 220 m<sup>3</sup>      **Location:** Acoustic Transmission Suite  
**Sample Size:** 11.98 m<sup>2</sup>      **Test Room** Large reverberation Room  
**Sample Thickness:** 52 mm      **Condition:** Clean

<b>Sample Out</b>		<b>Sample In</b>	
Temperature	18.9 °C	Temperature	19.2 °C
Relative Humidity	51.0 %	Relative Humidity	52.0 %
Static Pressure	100.2 kPa	Static Pressure	100.2 kPa

**Random Incidence Sound Absorption Coefficient**

Frequency [Hz]	$\alpha_{pi}$
125	0.25
250	0.60
500	0.90
1000	0.95
2000	1.00
4000	0.95



$\alpha_w = 0.90$ <b>Classification: A</b>
---

Signed: *[Signature]*

**Test reference: 2118-2034**

Date: 15 October 2015

University of Salford, School of Computing Science & Engineering