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

Clie		TECH MATERIALS Unit D, Halesfield 10 Telford. TF7 4QP					
Prod	luct Identification:	51mm Class O foam					
Desc	cription of Sample:	Panel absorber					
Room Volume: Sample Size: Sample Thickness:		220 m³ 11.98 m² 50 mm	8 m ² Test Room Large reverberation Roo				
	Sample Out		Sample In				
Temperature		18.9 °C	Temperature	19.1 °C			
	Relative Humidity	51.0 %	Relative Humidity	52.4 %			
	Static Pressure	100.2 kPa	Static Pressure	100.2 kPa			

Random Incidence Sound Absorption Coefficient

Frequency	T_1	T_2		
[Hz]	[s]	[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

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Client:	TECH MATERIALS Unit D, Halesfield 10 Telford. TF7 4QP	
Product Identification:	51mm Class O foam	
Description of Sample:	Panel absorber	1.11
Room Volume: Sample Size: Sample Thickness:	220 m³ 11.98 m² 50 mm	Location: Acoustic Transmission Suite Test Room Large reverberation Room Condition: Clean
<i>Sample Out</i> Temperature Relative Humidity Static Pressure	18.9 °C 51.0 % 100.2 kPa	Sample InTemperature19.1 °CRelative Humidity52.4 %Static Pressure100.2 kPa

Random Incidence Sound Absorption Coefficient

Frequency	<i>ci</i>		1.4		T		Т						T				
[Hz]	α_{s}		1.3		+	+	+				+	+					_
100	0.19		1.2	\square	_	\square	+	\vdash			-	_					
125	0.29	s	1.1														
160	0.31	รัช															
200	0.43	Ľ,	1.0		-		+	-									-
250	0.47	ciel	0.9				-				_	_	-				-
315	0.57	effi	0.8													/	
400	0.62	Sound Absorption Coefficient,	0.8										-	1	/		
500	0.63	tior	0.7		+-	\vdash	+			-	-	7					
630	0.68	orp	0.6					-			_				_	_	
800	0.70	Abse	0.5				T							\sim			
1000	0.71	/ pc	0.5									100					
1250	0.73	no	0.4	\vdash	1		+				-	-			-	-	
1600	0.76	S S	0.3 -		1		_	-				_					
2000	0.76		0.2	/													
2500	0.75		0.2														
3150	0.81		0.1 -		+		+					- V -					-
4000	0.90		0.0 -				_										
5000	0.91			125		250		50	00		1000)	20	00		400)0
		57	Frequency, <i>f</i> (Hz)														

al Cear Signed:

Test reference: 2118-2036

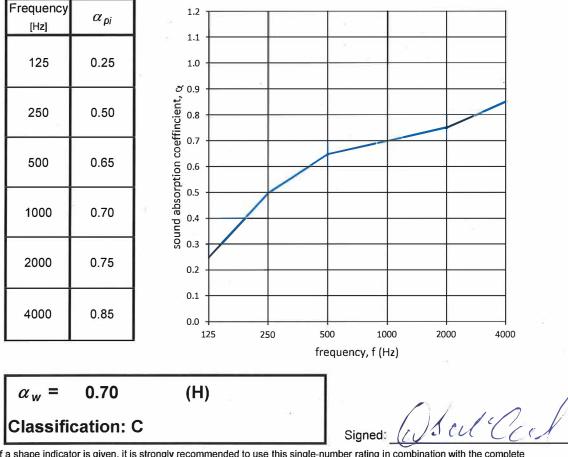
Date: 15 October 2015

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	and the second					
Product Identification:	51mm Class O foam						
Description of Sample:	Panel absorber						
Room Volume:	220 m³	Location: Acoustic T	ransmission Suite				
Sample Size:	11.98 m ²	Test Room Large reverberation Room					
Sample Thickness:	50 mm	Condition: Clean					
Sample Out		Sample In					
Temperature	18.9 °C	Temperature	19.1 °C				
Relative Humidity	51.0 %	Relative Humidity	52.4 %				
Static Pressure	100.2 kPa	Static Pressure	100.2 kPa				

Random Incidence Sound Absorption Coefficient



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

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