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

Client: **Contemporary Acoustic Solutions Ltd**
Unit D, Halesfield 10
Telford. TF7 4QP

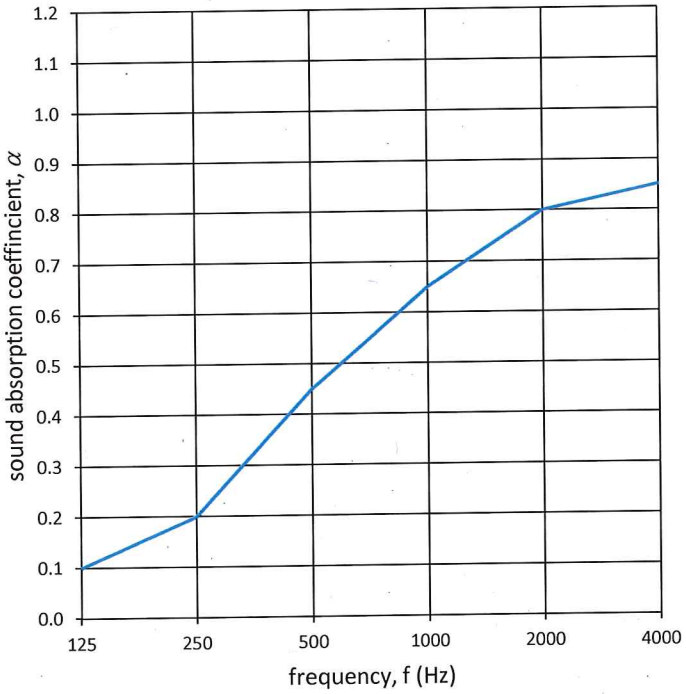
Product Identification: 24mm A72 Melamine foam
Description of Sample: Wall/Ceiling panel - Bare

Room Volume:	220 m³	Location:	Acoustic Transmission Suite
Sample Size:	12.00 m²	Test Room	Large reverberation Room
Sample Thickness:	24 mm	Condition:	Clean

Sample Out		***Sample In***	
Temperature	18.9 °C	Temperature	19.2 °C
Relative Humidity	51.0 %	Relative Humidity	51.7 %
Static Pressure	100.2 kPa	Static Pressure	100.2 kPa

Random Incidence Sound Absorption Coefficient

Frequency [Hz]	α_{pi}
125	0.10
250	0.20
500	0.45
1000	0.65
2000	0.80
4000	0.85



α_w = **0.45** **(H)**

Classification: D

Signed:

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

Test reference: 2118-2033

Date: 15 October 2015

University of Salford, School of Computing Science & Engineering

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

Client: **Contemporary Acoustic Solutions Ltd**
Unit D, Halesfield 10
Telford. TF7 4QP

Product Identification: 51mm Cara Melamine foam
Description of Sample: Wall/Ceiling panel

Room Volume:	220 m³	Location:	Acoustic Transmission Suite
Sample Size:	11.98 m²	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]	T_1 [s]	T_2 [s]	α_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 & Engineering

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

Client: **Contemporary Acoustic Solutions Ltd**
Unit D, Halesfield 10
Telford. TF7 4QP

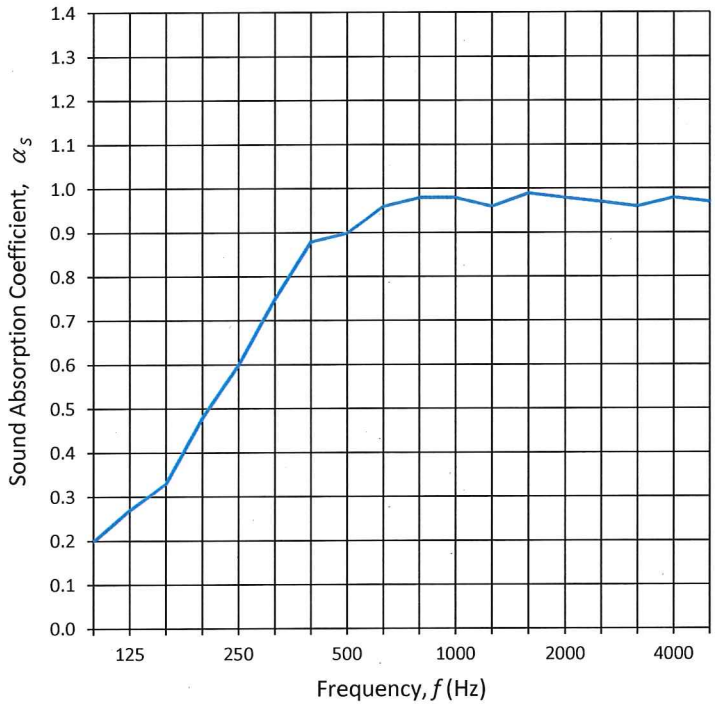
Product Identification: 51mm Cara Melamine foam
Description of Sample: Wall/Ceiling panel

Room Volume:	220 m³	Location:	Acoustic Transmission Suite
Sample Size:	11.98 m²	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]	α_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

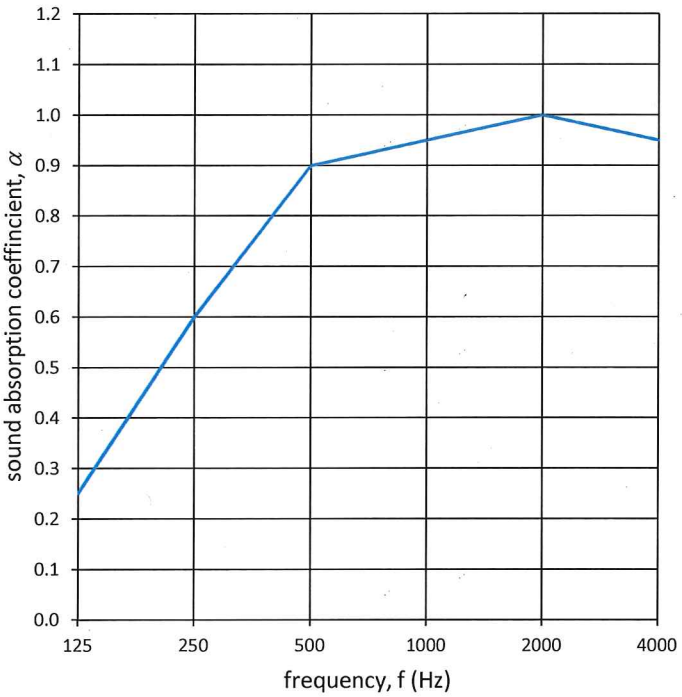
Client:	**Contemporary Acoustic Solutions Ltd**
	Unit D, Halesfield 10
	Telford. TF7 4QP
Product Identification:	51mm Cara Melamine foam
Description of Sample:	Wall/Ceiling panel

Room Volume:	220 m³	Location:	Acoustic Transmission Suite
Sample Size:	11.98 m²	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]	α_{pi}
125	0.25
250	0.60
500	0.90
1000	0.95
2000	1.00
4000	0.95



α_w = 0.90

Classification: A

Signed:

Test reference: 2118-2034

Date: 15 October 2015

University of Salford, School of Computing Science & Engineering

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

Client: **Contemporary Acoustic Solutions Ltd**
Unit D, Halesfield 10
Telford. TF7 4QP

Product Identification: 58mm A72 Melamine foam
Description of Sample: Wall/Ceiling panel - Bare

Room Volume:	220 m³	Location:	Acoustic Transmission Suite
Sample Size:	12.02 m²	Test Room	Large reverberation Room
Sample Thickness:	58 mm	Condition:	Clean

Sample Out		***Sample In***	
Temperature	18.9 °C	Temperature	19.1 °C
Relative Humidity	51.0 %	Relative Humidity	49.8 %
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	3.16	0.22
125	4.64	3.06	0.32
160	3.68	2.57	0.35
200	3.62	2.24	0.51
250	3.79	2.04	0.67
315	4.16	1.92	0.83
400	4.25	1.83	0.92
500	4.50	1.89	0.91
630	4.51	1.87	0.93
800	4.50	1.87	0.92
1000	4.41	1.88	0.91
1250	4.17	1.86	0.88
1600	3.92	1.76	0.92
2000	3.60	1.70	0.92
2500	3.21	1.57	0.96
3150	2.73	1.44	0.97
4000	2.28	1.30	0.97
5000	1.80	1.13	0.96

Test reference: 2118-2030

Date: 15 October 2015

University of Salford, School of Computing Science & Engineering

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

Client: **Contemporary Acoustic Solutions Ltd**
Unit D, Halesfield 10
Telford. TF7 4QP

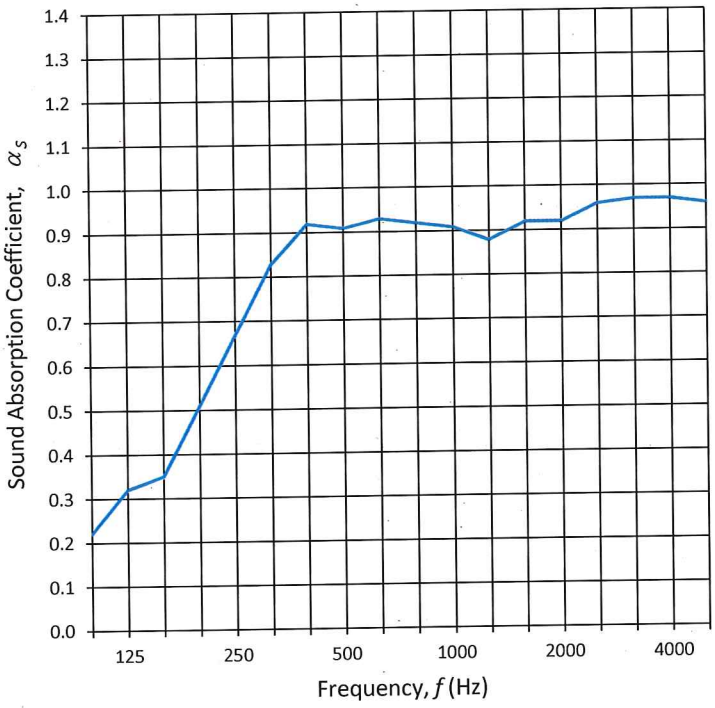
Product Identification: 58mm A72 Melamine foam
Description of Sample: Wall/Ceiling panel - Bare

Room Volume:	220 m³	Location:	Acoustic Transmission Suite
Sample Size:	12.02 m²	Test Room	Large reverberation Room
Sample Thickness:	58 mm	Condition:	Clean

Sample Out		***Sample In***	
Temperature	18.9 °C	Temperature	19.1 °C
Relative Humidity	51.0 %	Relative Humidity	49.8 %
Static Pressure	100.2 kPa	Static Pressure	100.2 kPa

Random Incidence Sound Absorption Coefficient

Frequency [Hz]	α_s
100	0.22
125	0.32
160	0.35
200	0.51
250	0.67
315	0.83
400	0.92
500	0.91
630	0.93
800	0.92
1000	0.91
1250	0.88
1600	0.92
2000	0.92
2500	0.96
3150	0.97
4000	0.97
5000	0.96



Signed: _____

Test reference: 2118-2030

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: **Contemporary Acoustic Solutions Ltd**
Unit D, Halesfield 10
Telford. TF7 4QP

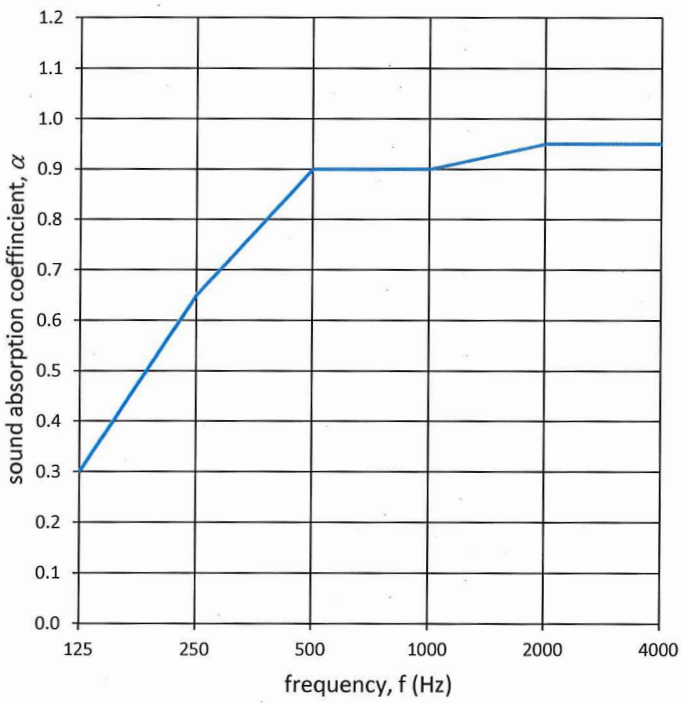
Product Identification: 58mm A72 Melamine foam
Description of Sample: Wall/Ceiling panel - Bare

Room Volume:	220 m³	Location:	Acoustic Transmission Suite
Sample Size:	12.02 m²	Test Room	Large reverberation Room
Sample Thickness:	58 mm	Condition:	Clean

Sample Out		***Sample In***	
Temperature	18.9 °C	Temperature	19.1 °C
Relative Humidity	51.0 %	Relative Humidity	49.8 %
Static Pressure	100.2 kPa	Static Pressure	100.2 kPa

Random Incidence Sound Absorption Coefficient

Frequency [Hz]	α_{pi}
125	0.30
250	0.65
500	0.90
1000	0.90
2000	0.95
4000	0.95



α_w = 0.90

Classification: A

Signed:

Test reference: 2118-2030 Date: 15 October 2015

University of Salford, School of Computing Science & Engineering

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

Client: **Contemporary Acoustic Solutions Ltd**
Unit D, Halesfield 10
Telford. TF7 4QP

Product Identification: 74mm A72 Melamine foam
Description of Sample: Wall/Ceiling panel - Bare

Room Volume:	220 m^3	Location:	Acoustic Transmission Suite
Sample Size:	12.00 m^2	Test Room	Large reverberation Room
Sample Thickness:	74 mm	Condition:	Clean

Sample Out		***Sample In***	
Temperature	18.9 °C	Temperature	19.1 °C
Relative Humidity	51.0 %	Relative Humidity	50.6 %
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	2.95	0.28
125	4.64	2.97	0.36
160	3.68	2.36	0.45
200	3.62	1.96	0.69
250	3.79	1.76	0.90
315	4.16	1.73	1.00
400	4.25	1.73	1.02
500	4.50	1.81	0.98
630	4.51	1.82	0.98
800	4.50	1.84	0.95
1000	4.41	1.85	0.93
1250	4.17	1.80	0.93
1600	3.92	1.72	0.97
2000	3.60	1.68	0.93
2500	3.21	1.57	0.96
3150	2.73	1.43	0.98
4000	2.28	1.31	0.97
5000	1.80	1.13	0.98

Test reference: 2118-2031 Date: 15 October 2015

University of Salford, School of Computing Science & Engineering

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

Client: **Contemporary Acoustic Solutions Ltd**
Unit D, Halesfield 10
Telford. TF7 4QP

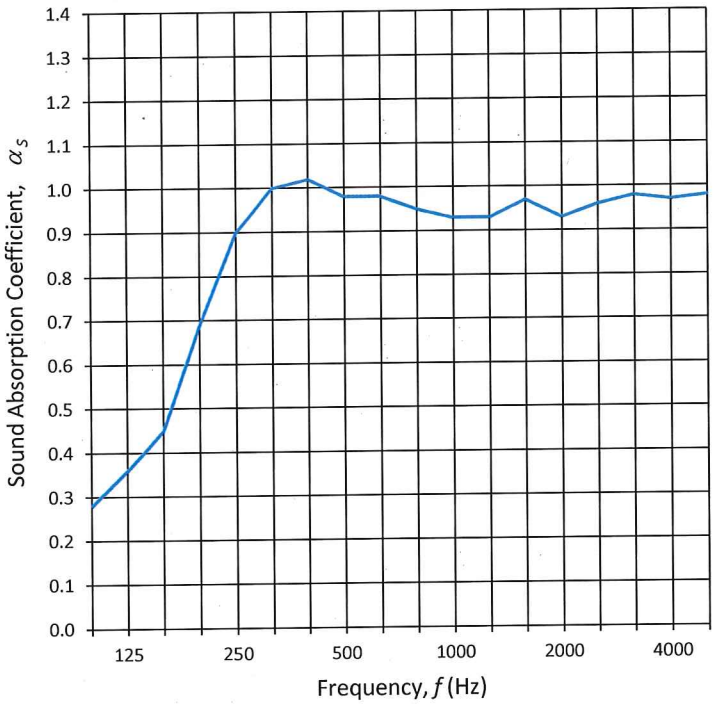
Product Identification: 74mm A72 Melamine foam
Description of Sample: Wall/Ceiling panel - Bare

Room Volume:	220 m³	Location:	Acoustic Transmission Suite
Sample Size:	12.00 m²	Test Room	Large reverberation Room
Sample Thickness:	74 mm	Condition:	Clean

Sample Out		***Sample In***	
Temperature	18.9 °C	Temperature	19.1 °C
Relative Humidity	51.0 %	Relative Humidity	50.6 %
Static Pressure	100.2 kPa	Static Pressure	100.2 kPa

Random Incidence Sound Absorption Coefficient

Frequency [Hz]	α_S
100	0.28
125	0.36
160	0.45
200	0.69
250	0.90
315	1.00
400	1.02
500	0.98
630	0.98
800	0.95
1000	0.93
1250	0.93
1600	0.97
2000	0.93
2500	0.96
3150	0.98
4000	0.97
5000	0.98



Signed: _____

Test reference: 2118-2031

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: **Contemporary Acoustic Solutions Ltd**
Unit D, Halesfield 10
Telford. TF7 4QP

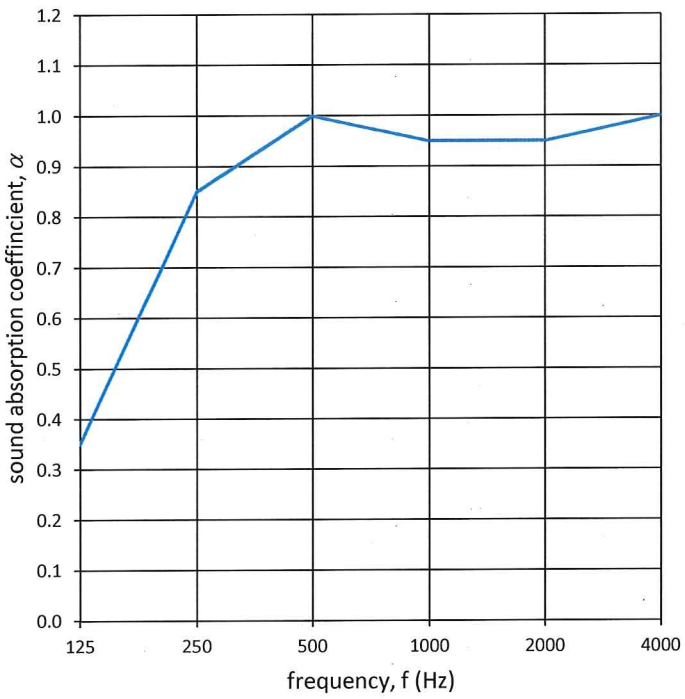
Product Identification: 74mm A72 Melamine foam
Description of Sample: Wall/Ceiling panel - Bare

Room Volume:	220 m³	Location:	Acoustic Transmission Suite
Sample Size:	12.00 m²	Test Room	Large reverberation Room
Sample Thickness:	74 mm	Condition:	Clean

Sample Out		***Sample In***	
Temperature	18.9 °C	Temperature	19.1 °C
Relative Humidity	51.0 %	Relative Humidity	50.6 %
Static Pressure	100.2 kPa	Static Pressure	100.2 kPa

Random Incidence Sound Absorption Coefficient

Frequency [Hz]	α_{pi}
125	0.35
250	0.85
500	1.00
1000	0.95
2000	0.95
4000	1.00



α_w = 1.00

Classification: A

Signed:

Test reference: 2118-2031

Date: 15 October 2015

University of Salford, School of Computing Science & Engineering

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

Client: **Contemporary Acoustic Solutions Ltd**
Unit D, Halesfield 10
Telford. TF7 4QP

Product Identification: 100mm A72 Melamine foam
Description of Sample: Wall/Ceiling panel - Bare

Room Volume:	220 m³	Location:	Acoustic Transmission Suite
Sample Size:	12.01 m²	Test Room	Large reverberation Room
Sample Thickness:	100 mm	Condition:	Clean

Sample Out		***Sample In***	
Temperature	18.9 °C	Temperature	19.1 °C
Relative Humidity	51.0 %	Relative Humidity	51.5 %
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	2.72	0.37
125	4.64	2.68	0.47
160	3.68	2.05	0.64
200	3.62	1.67	0.96
250	3.79	1.55	1.13
315	4.16	1.58	1.16
400	4.25	1.63	1.12
500	4.50	1.71	1.07
630	4.51	1.79	1.00
800	4.50	1.77	1.02
1000	4.41	1.75	1.02
1250	4.17	1.75	0.98
1600	3.92	1.69	0.99
2000	3.60	1.63	0.99
2500	3.21	1.56	0.97
3150	2.73	1.43	0.98
4000	2.28	1.30	0.99
5000	1.80	1.14	0.96

Test reference: 2118-2032

Date: 15 October 2015

University of Salford, School of Computing Science & Engineering

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

Client: **Contemporary Acoustic Solutions Ltd**
Unit D, Halesfield 10
Telford. TF7 4QP

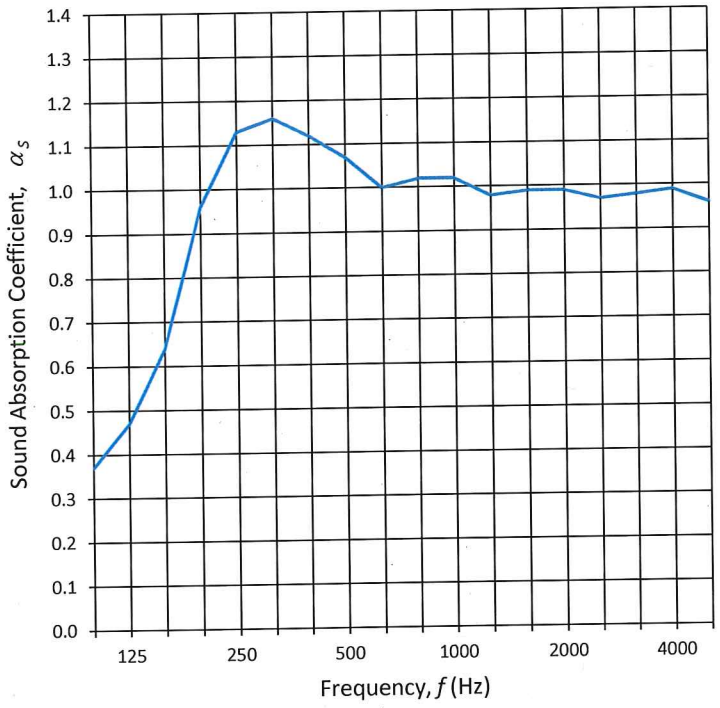
Product Identification: 100mm A72 Melamine foam
Description of Sample: Wall/Ceiling panel - Bare

Room Volume:	220 m³	Location:	Acoustic Transmission Suite
Sample Size:	12.01 m²	Test Room	Large reverberation Room
Sample Thickness:	100 mm	Condition:	Clean

Sample Out		***Sample In***	
Temperature	18.9 °C	Temperature	19.1 °C
Relative Humidity	51.0 %	Relative Humidity	51.5 %
Static Pressure	100.2 kPa	Static Pressure	100.2 kPa

Random Incidence Sound Absorption Coefficient

Frequency [Hz]	α_s
100	0.37
125	0.47
160	0.64
200	0.96
250	1.13
315	1.16
400	1.12
500	1.07
630	1.00
800	1.02
1000	1.02
1250	0.98
1600	0.99
2000	0.99
2500	0.97
3150	0.98
4000	0.99
5000	0.96



Signed: _____

Test reference: 2118-2032

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: **Contemporary Acoustic Solutions Ltd**
Unit D, Halesfield 10
Telford. TF7 4QP

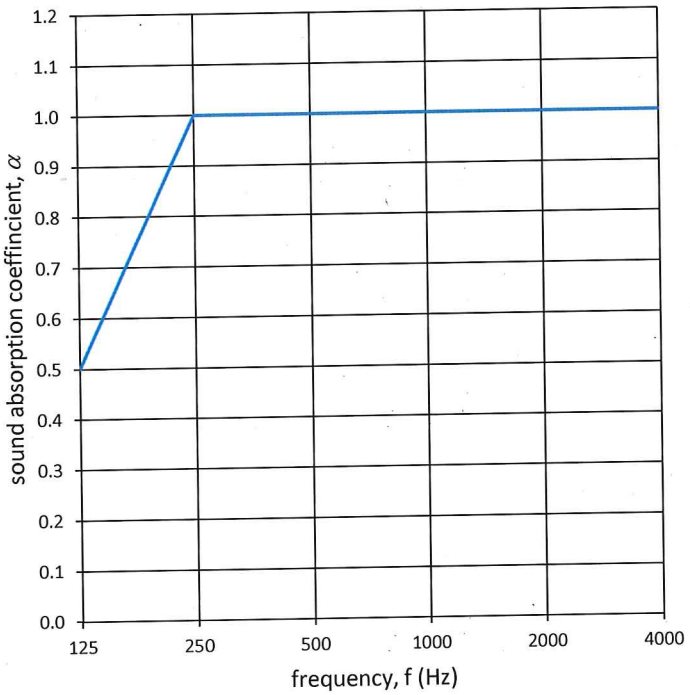
Product Identification: 100mm A72 Melamine foam
Description of Sample: Wall/Ceiling panel - Bare

Room Volume:	220 m³	Location:	Acoustic Transmission Suite
Sample Size:	12.01 m²	Test Room	Large reverberation Room
Sample Thickness:	100 mm	Condition:	Clean

Sample Out		***Sample In***	
Temperature	18.9 °C	Temperature	19.1 °C
Relative Humidity	51.0 %	Relative Humidity	51.5 %
Static Pressure	100.2 kPa	Static Pressure	100.2 kPa

Random Incidence Sound Absorption Coefficient

Frequency [Hz]	α_{pi}
125	0.50
250	1.00
500	1.00
1000	1.00
2000	1.00
4000	1.00



α_w = 1.00

Classification: A

Signed:

Test reference: 2118-2032

Date: 15 October 2015

University of Salford, School of Computing Science & Engineering

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

Client: **Contemporary Acoustic Solutions Ltd**
Unit D, Halesfield 10
Telford. TF7 4QP

Product Identification: 24mm A72 Melamine foam
Description of Sample: Wall/Ceiling panel - Bare

Room Volume:	220 m³	Location:	Acoustic Transmission Suite
Sample Size:	12.00 m²	Test Room	Large reverberation Room
Sample Thickness:	24 mm	Condition:	Clean

Sample Out		***Sample In***	
Temperature	18.9 °C	Temperature	19.2 °C
Relative Humidity	51.0 %	Relative Humidity	51.7 %
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	3.74	0.07
125	4.64	3.91	0.12
160	3.68	3.32	0.09
200	3.62	3.06	0.15
250	3.79	3.09	0.18
315	4.16	2.94	0.29
400	4.25	2.72	0.39
500	4.50	2.67	0.45
630	4.51	2.47	0.54
800	4.50	2.33	0.62
1000	4.41	2.21	0.67
1250	4.17	2.05	0.73
1600	3.92	1.93	0.78
2000	3.60	1.85	0.78
2500	3.21	1.71	0.81
3150	2.73	1.56	0.82
4000	2.28	1.38	0.86
5000	1.80	1.20	0.83

Test reference: 2118-2033

Date: 15 October 2015

University of Salford, School of Computing Science & Engineering

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

Client: **Contemporary Acoustic Solutions Ltd**
Unit D, Halesfield 10
Telford. TF7 4QP

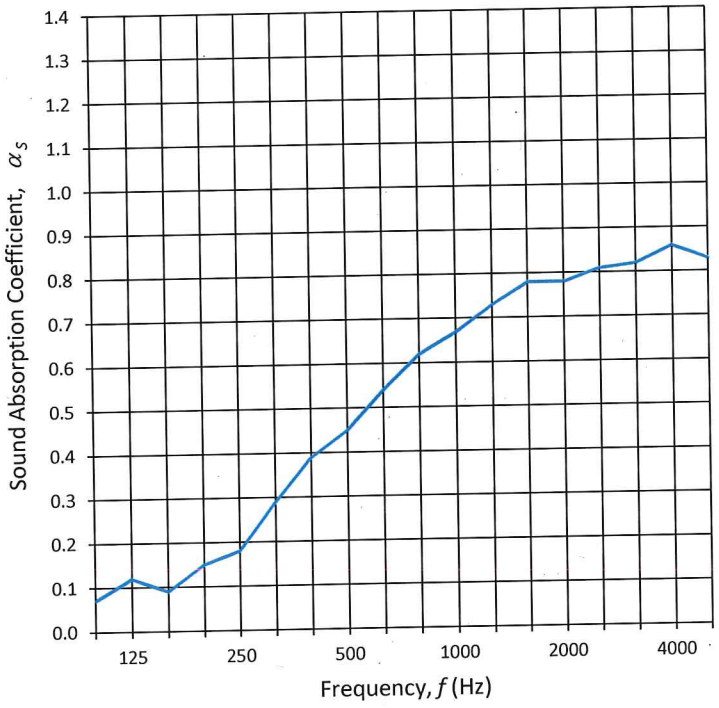
Product Identification: 24mm A72 Melamine foam
Description of Sample: Wall/Ceiling panel - Bare

Room Volume:	220 m³	Location:	Acoustic Transmission Suite
Sample Size:	12.00 m²	Test Room	Large reverberation Room
Sample Thickness:	24 mm	Condition:	Clean

Sample Out		***Sample In***	
Temperature	18.9 °C	Temperature	19.2 °C
Relative Humidity	51.0 %	Relative Humidity	51.7 %
Static Pressure	100.2 kPa	Static Pressure	100.2 kPa

Random Incidence Sound Absorption Coefficient

Frequency [Hz]	α_S
100	0.07
125	0.12
160	0.09
200	0.15
250	0.18
315	0.29
400	0.39
500	0.45
630	0.54
800	0.62
1000	0.67
1250	0.73
1600	0.78
2000	0.78
2500	0.81
3150	0.82
4000	0.86
5000	0.83



Signed: _____

Test reference: 2118-2033

Date: 15 October 2015

University of Salford, School of Computing Science & Engineering

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

Client: **Contemporary Acoustic Solutions Ltd**
Unit D, Halesfield 10
Telford. TF7 4QP

Product Identification: 62mm Cara Melamine foam
Description of Sample: Wall/Ceiling panel

Room Volume:	220 m^3	Location:	Acoustic Transmission Suite
Sample Size:	11.97 m^2	Test Room	Large reverberation Room
Sample Thickness:	62 mm	Condition:	Clean

Sample Out		***Sample In***	
Temperature	18.9 °C	Temperature	19.2 °C
Relative Humidity	51.0 %	Relative Humidity	52.1 %
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	3.14	0.23
125	4.64	3.13	0.31
160	3.68	2.42	0.42
200	3.62	2.11	0.59
250	3.79	1.88	0.79
315	4.16	1.84	0.90
400	4.25	1.79	0.96
500	4.50	1.82	0.97
630	4.51	1.82	0.98
800	4.50	1.84	0.95
1000	4.41	1.85	0.94
1250	4.17	1.82	0.92
1600	3.92	1.75	0.94
2000	3.60	1.69	0.93
2500	3.21	1.60	0.94
3150	2.73	1.45	0.96
4000	2.28	1.31	0.99
5000	1.80	1.15	0.95

Test reference: 2118-2035 Date: 15 October 2015

University of Salford, School of Computing Science & Engineering

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

Client: **Contemporary Acoustic Solutions Ltd**
Unit D, Halesfield 10
Telford. TF7 4QP

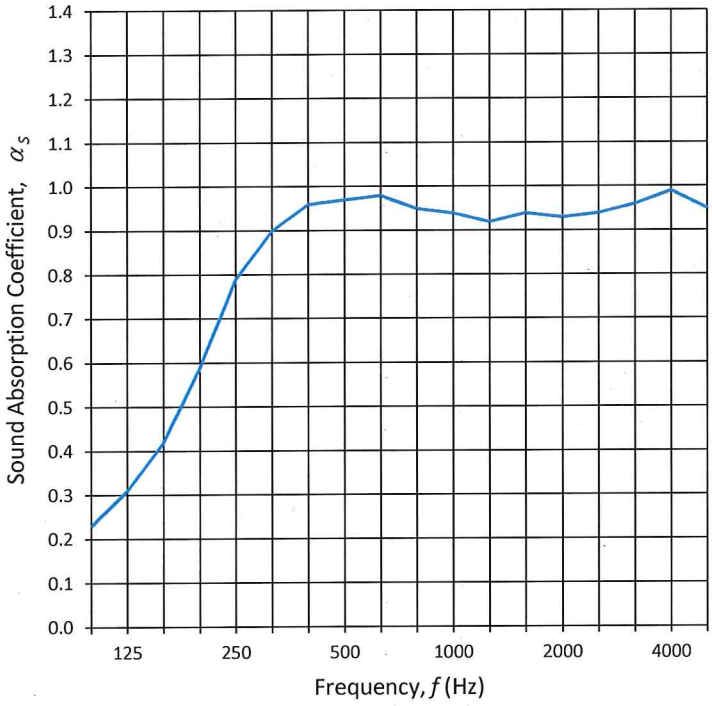
Product Identification: 62mm Cara Melamine foam
Description of Sample: Wall/Ceiling panel

Room Volume:	220 m³	Location:	Acoustic Transmission Suite
Sample Size:	11.97 m²	Test Room	Large reverberation Room
Sample Thickness:	62 mm	Condition:	Clean

Sample Out		***Sample In***	
Temperature	18.9 °C	Temperature	19.2 °C
Relative Humidity	51.0 %	Relative Humidity	52.1 %
Static Pressure	100.2 kPa	Static Pressure	100.2 kPa

Random Incidence Sound Absorption Coefficient

Frequency [Hz]	α_s
100	0.23
125	0.31
160	0.42
200	0.59
250	0.79
315	0.90
400	0.96
500	0.97
630	0.98
800	0.95
1000	0.94
1250	0.92
1600	0.94
2000	0.93
2500	0.94
3150	0.96
4000	0.99
5000	0.95



Signed: _____

Test reference: 2118-2035

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: **Contemporary Acoustic Solutions Ltd**
Unit D, Halesfield 10
Telford. TF7 4QP

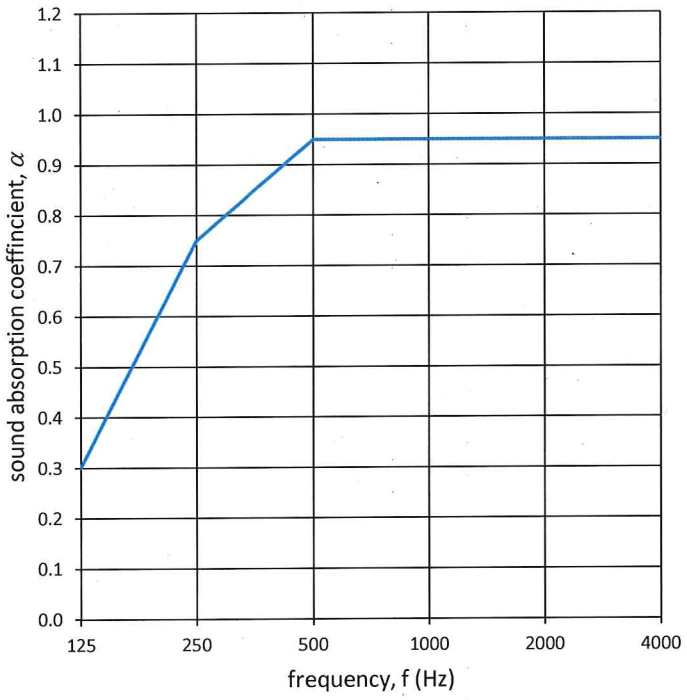
Product Identification: 62mm Cara Melamine foam
Description of Sample: Wall/Ceiling panel

Room Volume:	220 m³	Location:	Acoustic Transmission Suite
Sample Size:	11.97 m²	Test Room	Large reverberation Room
Sample Thickness:	62 mm	Condition:	Clean

Sample Out		***Sample In***	
Temperature	18.9 °C	Temperature	19.2 °C
Relative Humidity	51.0 %	Relative Humidity	52.1 %
Static Pressure	100.2 kPa	Static Pressure	100.2 kPa

Random Incidence Sound Absorption Coefficient

Frequency [Hz]	α_{pi}
125	0.30
250	0.75
500	0.95
1000	0.95
2000	0.95
4000	0.95



α_w = 0.95

Classification: A

Signed:

Test reference: 2118-2035

Date: 15 October 2015

University of Salford, School of Computing Science & Engineering