



Advanced Acoustics 4" Class '0' Acoustic Panel Data Sheet

Individual Acoustic Panel Size	24" x 48" (610mm x 1220mm)
Quantity Of Acoustic Tiles Per Box	1
Total Area Covered Per Box	8ft ² (0.744m ²)
Acoustic Panel Thickness	4" (100mm)
Noise Reduction Coefficient (NRC)	1.05
Acoustic Foam Colour	Charcoal
Acoustic Foam Density	90 kg/m ³
Acoustic Foam Composition	Open Cell Polyurethane Acoustic Foam
Fire Classifications	Fire Propagation Index - < 12 (BS 476 pt 6) Surface Spread of Flame - Class '1' (BS 476 pt 7) Building Regs. 1991 (Fire Safety) - Class '0' (BS 467 pt 6 & pt 7) UL94 Classification – 94 V-0 Surface Burning Behaviour – Class A (ASTM E84-95)
Air Erosion Resistance (4001 – 6000 fpm)	Pass (ASTM C10711-91 12.7)
Fungus Resistance Test	Does Not Support Growth (ASTM G 21)
Mildew (Fungus) Resistance	Does Not Support Growth (ASTM D-2020)
Water Vapour Sorption	<9% (ASTM C552-92)
Thermal Conductivity	0.364 Btu-in./hr-ft ² -°F (ASTM C518-91)
Operating Temperature	-30 to 100°C
Profile Description	Plain acoustic foam panel
Additional Notes	Can be bonded onto 6mm MDF if requested

Description

The Class '0' Acoustic Panels are suitable for a wide range of applications. The Class '0' Acoustic Foam Panels conform to a much more stringent fire classification. These acoustic panels can be used for lining



enclosure and ducting. They are used as acoustic panels and can be bonded to 6mm MDF if you require it. The panels can also be fabric wrapped with an open weave cloth.

The Class '0' Acoustic Panels come in standard thicknesses of 1", 2", 3" and 4" with a standard size of 24" by 48". However if you require custom thicknesses or custom sizes we can cut the acoustic foam to suit your needs. The Class '0' Acoustic Panels are a very cost effective form of acoustic treatment and has a wide range of applications and it also has the effective absorption you come to expect from Advanced Acoustics.

The Class '0' Acoustic Foam Panels conform to the highest of fire tests and are safe for even the most demanding requirements so you will have peace of mind that the product you are using is safe no matter what application. And you also have our guarantee that the foam will stand the test of time. The colour we use has been carefully selected to ensure that it doesn't quickly discolour or fade over time. You won't have the problem of the foam crumbling and turning to dust either. We know that treating your studio is a big investment and we want to make sure that your investment stands the test of time. The only way to ensure that is by sticking with Advanced Acoustics. We have many years of experience in acoustic treatment and soundproofing. Acoustic Treatment and Soundproofing are the only products we deal with. You won't see us selling any other forms of foam or bedding. Acoustic foam is all we do and we are very good at it as our outstanding feedback and previous customers will testify. Our products have been used by a full host of companies including the BBC, Williams F1 Team, McLaren, Cisco, Cadburys and ITN just to mention a few.

This item is kept permanently in stock. The foam we use is an open cell polyurethane acoustic foam and is available in charcoal only.



Full performance details are on the next page

SRL

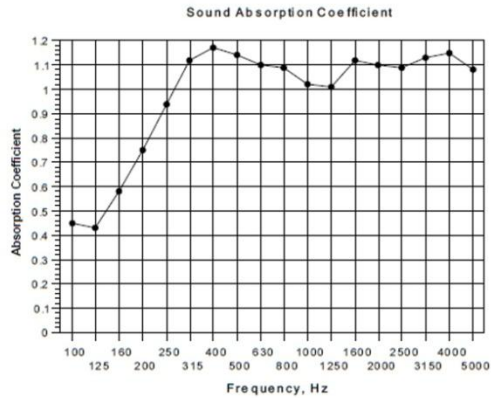
Confidential

[Data Sheet 2](#)

The Laboratory Measurement of Random Incidence Sound Absorption to BS EN ISO 354:2003

Client: **Advanced Acoustics**
 Test Date: 15/08/2014
 Empty Room: Temperature: 18.3 °C Humidity: 71 %RH Pressure: 1008 mbar
 Room with Sample: Temperature: 18.6 °C Humidity: 71 %RH Pressure: 1008 mbar
 Sample Description: 4" Class O Acoustic Foam
 Mounting Method: A
 Sample Area: 12.5 m²
 Chamber Volume: 300 m³

Test 10				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	3.62	3.50	0.04	
63*	4.96	4.26	0.13	n/a
80*	5.98	4.30	0.25	
100	8.32	4.22	0.45	
125	7.21	4.00	0.43	0.50
160	7.09	3.44	0.58	
200	7.03	2.98	0.75	
250	7.31	2.63	0.94	0.95
315	7.35	2.36	1.12	
400	6.64	2.21	1.17	
500	5.51	2.10	1.14	1.00
630	5.06	2.08	1.10	
800	5.41	2.15	1.09	
1000	5.80	2.30	1.02	1.00
1250	5.66	2.29	1.01	
1600	5.26	2.09	1.12	
2000	4.82	2.04	1.10	1.00
2500	4.39	1.97	1.09	
3150	3.79	1.80	1.13	
4000	3.14	1.63	1.15	1.00
5000	2.60	1.51	1.08	
6300*	1.93	1.25	1.10	
8000*	1.48	1.04	1.13	n/a
10000*	1.06	0.83	1.04	



A_w 1.00
 Class A
 Calculated to EN ISO 11654:1997
 NRC 1.05
 Calculated to ASTM C 423-01
 * Denotes frequencies outside the range covered by BS EN ISO 354:2003
 T1, empty room reverberation time
 T2, room reverberation time with sample

Practical absorption coefficient, BS EN ISO 11654:1997