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Advanced Acoustics Wedge Standard Acoustic Tile

Data Sheet

Individual Acoustic Tile Sizes Available	15” x 15” (381mm x 381mm) 15” x 30” (381mm x 762mm) 30” x 30” (762mm x 762mm)
Quantity Of Acoustic Tiles Per Box	15” x 15” Tiles – 24 15” x 30” Tiles – 12 30” x 30” Tiles - 6
Total Area Covered Per Box	37.5ft^2 (3.48m^2)
Acoustic Tile Thickness	¾” (20mm) at the base, 1 ½” (40mm) at the peak
Noise Reduction Coefficient (NRC)	0.60
Acoustic Foam Colour	Charcoal
Acoustic Foam Density	30 kg/m^3
Acoustic Foam Composition	Open Cell Polyurethane Acoustic Foam
Fire Classification	Crib 5 and Schedule 1, Part 1 of the Furnishings and Furniture (fire)(safety) Regulations 1988 (amended 1989)
Profile Description	CNC cut wedge Profile with 1 ½” (40mm) between peaks

Description

The wedge profiled acoustic tile is the most popular profile of tile that is used for studios, for both professional and home alike. And it is clear to see why, the classic CNC cut of the wedge profile is clean and tidy and the consistent uniform profile makes installation of the tiles a breeze too. Plus with the various ways you can layout the tiles and orientate them you can create some stunning patterns too. Of course, it's not just the look of the tile that is important but it also the performance and durability. You'll be glad to hear we haven't spent all our time making the tile look good and sacrificing those two other more important aspects.

The acoustic foam we use in manufacturing these and all our other acoustic tiles and products has been carefully selected to offer you optimum performance. The structure of the cells, the foam's density and the composition of the foam is perfect for offering even, controlled and balanced absorption. As you can see below even though the product is only 40mm thick it offers very good performance for the mid and high frequencies. This is all thanks not only to the foam we use with its density of 30kg/m^3 and perfect cell structure but it is also thanks to the design of the profile. The wedge profile we have painstakingly developed is the optimum for getting the best performance out of the tile. The surface area of each tile is greatly increased

when compared against a flat piece of foam. That, balanced with not taking too much foam out of the tile to create the wedge profile, means there is still plenty of foam per tile to give you that required absorption.

The acoustic foam we use also conforms to the more stringent fire tests of Crib 5 and Schedule 1, Part 1 of the Furnishings and Furniture Regulations so you will have peace of mind that the product you are using is safe also. 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 testifies. 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.

The shape of the tiles means you can create different arrangements of tiles such as herringbone effect clusters. This item is kept permanently in stock. The foam we use is an open cell polyurethane acoustic foam and is available in charcoal only. A thicker version of this tile is also available.

Full performance details are on the next page.

SRL

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

Client: Advanced Acoustics
Test Date: 21/03/2014
Empty Room: **Temperature:** 16.5 °C **Humidity:** 55 %RH **Pressure:** 998 mbar
Room with Sample: **Temperature:** 15.5 °C **Humidity:** 49 %RH **Pressure:** 998 mbar
Sample Description: Wedge Standard Acoustic Tile

Mounting Method: A
Sample Area: 11.5 m2
Chamber Volume: 300 m3

	Test 8			
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
*50**	*4.13*	*4.52*	*-0.09*	
*63**	*5.45*	*5.45*	*0.00*	*n/a*
*80**	*6.44*	*5.54*	*0.11*	
100	7.26	6.22	0.10	
125	7.13	6.09	0.10	0.10
160	6.70	5.75	0.10	
200	6.71	5.45	0.15	
250	7.26	5.07	0.25	0.25
315	7.13	4.63	0.32	
400	6.43	4.07	0.39	
500	5.37	3.37	0.47	0.50
630	5.06	2.96	0.60	
800	5.54	2.92	0.69	
1000	5.75	2.98	0.69	0.70
1250	5.58	2.74	0.78	
1600	5.10	2.42	0.91	
2000	4.59	2.18	1.00	0.95
2500	4.00	2.01	1.01	
3150	3.39	1.71	1.15	
4000	2.67	1.46	1.19	1.00
5000	2.11	1.23	1.24	
*6300**	*1.48*	*0.95*	*1.31*	
*8000**	*1.20*	*0.79*	*1.41*	*n/a*
*10000**	*0.87*	*0.58*	*1.86*	

α_w 0.50(H)

Class D

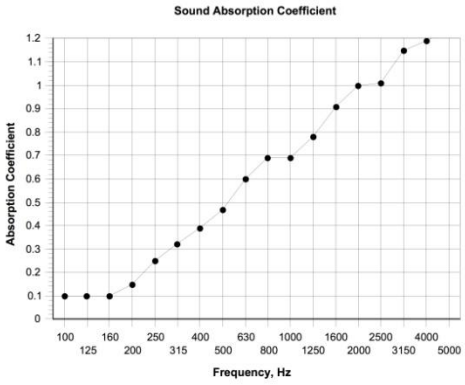
Calculated to EN ISO 11654:1997

NRC 0.60

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

v4.3