

Advanced Acoustics 10/50 Silent Panel Data Sheet

Individual Acoustic Panel	600mm x 1200mm
Size	
Quantity Of Acoustic Tiles	1
Per Box	
Total Area Covered Per	0.72m ²
Box	
Acoustic Panel Thickness	55mm
Sound Reduction Index	36dB
Noise Reduction	0.75
Coefficient (NRC)	
Acoustic Foam Colour	Black
Acoustic Foam Density	90 kg/m ³
Acoustic Foam	Open Cell Polyurethane Acoustic Foam
Composition	
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	Pass (ASTM C10711-91 12.7)
(4001 – 6000 fpm)	,
Fungus Resistance Test	Does Not Support Growth (ASTM G 21)
Mildew (Fungus)	Does Not Support Growth (ASTM D-2020)
Resistance	
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
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Description

Our latest range of acoustic panels, the Silent Panel is a sound barrier and acoustic foam composite with a self adhesive backing on the back of the sound barrier. The sound barrier is a 5kg Mass Loaded Vinyl and the acoustic foam is a 25mm thick, 90kg/m³ Class 0 fire rated open cell acoustic foam.

By having the noise barrier and sound absorber as one product it acts as a highly effective decoupler to isolate vibration. This product has many uses and applications. It is ideally suited to line equipment enclosures to reduce sound transmission. It is used to line walls and ceilings of mechanical rooms and plant rooms to absorb and contain the noise source. The Silent Panel enables you to create soundproof enclosures for machinery and noisy equipment.

If sound absorption and noise reduction are required then all you need is one product, the Silent Panel. With it being one easy to install product it reduces expensive installation time and reduces contractors work load. It can also be used in marine vessels to reduce noise transfer from the engine room.

Because the top layer of the Silent Panel Barrier Foam Composite is a Class 0 Acoustic Foam it has fireproof properties and the acoustic foam is treated against mildew. The Silent Panel is 600mm x 1200mm and is a total of 55mm thick, 5.2mm Sound Barrier and 50mm Class 0 Acoustic Foam. The Silent Panel is only available in black. The Silent Panels also come with a self adhesive backing already applied so there is no need to purchase supplementary adhesives to mount the barrier foam composite acoustic panels with, simply remove the backing and stick in place. The Silent Panels are suitable for mounting onto metal, wood and plastic to dampen noise transfer by reducing surface vibration.

Thanks to the size of the Silent Panel they are very easy to handle and install and is also easy to cut to the required size with either scissors or a utility knife. Mechanical fastening can also be used with this product.

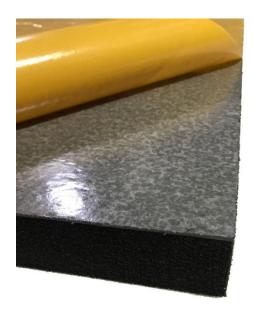
The2mm Soundproofing Mat used in the composition of this product is a flexible polyolefin sound barrier mat. This unique PVC free material has a proprietary polymer structure composed of a blend of polymers compounded with mineral fillers. It can be made use of as the sole sound absorption layer or as part of a multilayer composite with other materials

Silent Panel is currently available in the following options:

- 5kg barrier mat with 25mm Class 0 acoustic foam
- 5kg barrier mat with 50mm Class 0 acoustic foam
- 10kg barrier mat with 50mm Class 0 acoustic foam (this product page)











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SRL



Test Report No: C/23795/T02

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	The	Laborat	ory Mea				m Incid					to B	SEN	ISO	354:	200	3		
Client: Test Date:			ed Acous														-		
		19/07/2			5200	E 120		1001 101		1550								85	
Empty Roor	n:		Temper	ature:	21.	2 °C		Humic	lity:	70		%RH		Pres	sure:		998	mb	bar
Room with Sample Des		Silent P	Temper anel 50/1		21.	6 °C		Humic	lity:	76	(%RH		Pres	sure:		998	mt	bar
Mounting M	ethod:	Α																	
Sample Area	a:	10.59	m²																
Chamber Vo	olume:	300	m³																
		Tes	t 6		1			•							EUSONE I				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp		1.20 =		50	una	Abso	orpt	ion (Loet	TICIE	ent				
50*	5.05	4.73	α _s 0.06	Coeff#	ł	1													
63*	5.73	5.24	0.00	n/a	1	1.10												/	
80*	7.33	5.97	0.14	l	1	1.00											/	1	\top
100	8.84	7.12	0.12		1	0.90		-	-	-			_		-	-		+	+
125	7.89	6.02	0.18	0.20	ent	0.80		-	-					-		_		-	-
160	7.23	5.12	0.26		- E	0.70				/									
200	7.03	4.64	0.33		3	-													
250	7.41	4.17	0.48	0.45	ptior	0.60			1										
315 400	7.58 6.89	3.86	0.58	-	Absorption Coefficient	0.50			/									+	_
500	6.02	2.87	0.76	0.80	٨	0.40		-/		-	-	+		-	-	-	-	+	+
630	5.47	2.68	0.86	0.00	1	0.30		/				-				_		-	-
800	5.63	2.74	0.85		1	0.20	/												
1000	5.96	2.78	0.87	0.85	1														
1250	5.79	2.75	0.86		l	0.10													
1600	5.28	2.56	0.91			0.00	125	00	250	00	000	930	0 0	0	0	0	0	0	0
2000	4.92	2.49	0.90	0.90		10	12	20	25	40			800	1250	1600	2000	2500	3150	4000
2500	4.53	2.34	0.94								Fr	equend	y, Hz						
3150 4000	3.91	2.10	1.01	1.00															
5000	2.75	1.68	1.12	1.00	1														
6300*	2.75	1.43	1.06	1	1														
8000*	1.66	1.21	1.16	n/a	1														
10000*	1.22	0.97	1.19																
	a	w	0.75(H)															
	Cla	ass C	1997																
	NF	RC	0.75																
	Calculated to A				1														
* Der	notes frequencie	s outside the i I ISO 354:200			l														
	T1, empty roo				1														
	T2, room reverbe				l														







Test Report No: C/23795/T01

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Test Number:				Test Room:					ource	Receiving
Client:	Jei.		Acoustics				perature		1.9 °C	21.8 °C
Test Date:		19/07/20					idity:		76 %	76 %
Sample Height: Sample Width: Sample Weight:		2.2 m	. ,			ume:			15 m ³	300 m ³
		0.62 m								
		15.1 kg/m	12					Air F	ressure:	998 mbar
Product										
Identification:		Silent Pan	el 50/10							
				70.0 T						
	Sound Re	eduction								
Freq, f	Index									
Hz				60.0						
	1/3 Oct	Octave		00.0						
50+	24.0									
63+	22.5	19.6		1						
+08	16.3									ши
100	20.0			50.0	+	\vdash	+++	+	+++	
125	20.1	20.9								
160	23.1		9	1						$\mathcal{X} \cap \mathcal{Y} \cap \mathcal{Y}$
200	26.2		۲,							
250	28.4	28.0	Sound Reduction Index, dB	40.0	++-	\vdash	+++		17	++
315	30.5							+-	$Y \mid I$	
400	31.2		tior				11-		111	
500	29.9	30.4	quc				1/1	1/		
630	30.2	1	Rec	30.0	++-	1		+	+++	++++
800	33.5		Pu			1				
1000	37.0	36.1	ino	-		rı				
1250	40.0	1	S		X					
1600	42.8			20.0		Ш	$\perp \perp \perp$	\perp	$\perp \perp \perp$	\bot
2000	44.8	44.4			1					
2500	46.4	1		_[
3150	48.4							-		nd Reduction
4000	50.5	50.2		10.0					Inde	x 📙
5000	53.0	1		10.0			I T T	-	Rw r	eference
6300+	54.6								curv	e
8000+	52.8 *	50.5		1				Γ		TTT
10000+	47.4 *									
Average		Version		0.0	500	0	5 0 0	100	1 1 1	0000
100-3150	33.3	v3.0		100	12.	251	31 40 50 50 50 6	63	100 125 160	2000 2500 3150 4000
,00-3130		+5.0					Frequen	y, Hz		4464
Rating accor	ding to BS I	EN ISO 717		* shows n					-	
				> shows I	measurer	ment l	imited by	backgr	ound	