

Alpha Panel™

Material Datasheet

Product Name	Alpha Panel™	
Composition	100% PET with 75% post-consumer recycled content	
Thickness¹	12 mm (0.47")	24 mm (0.94")
Max. Sheet size¹	1225 x 2800mm (48" x 110")	
Acoustic²	α_w 0.60(MH) NRC 0.75	α_w 0.80(H) NRC 0.95
Density	12 mm: 2.4kg m ²	24 mm: 3.8kg m ²
Colours	42 colours (see Color page for more information)	
Colour Fastness	6-7	
Fire Rating	12 mm: EN 13501-1: B-s1, d0	24 mm: EN 13501-1: B-s2, d0
Certifications	SCS Recycled Content, OEKO-TEX® Standard 100, Certified, Declare Label, RED List Free, Safety of toys - Migration of certain elements (EN 71-3), Global Recycled Standard (GRS) Scope Certificate	
Recyclability³	100% reusable and recyclable material. This product has been designed to be fully recyclable, including both the fabric and the core. No adhesives have been used in its construction, allowing the fabric and core to be easily recycled, recovered, or repurposed to maximise sustainability.	
VOC Emission	GREENGUARD Gold Certified Tested to ISO 16000	
Durability⁴	Moisture, mould, and mildew resistant	
Carbon Footprint⁵	0.042 – 0.066 kg CO ₂ e/m ²	0.084 – 0.132 kg CO ₂ e/m ²

1- all values are nominal
4- relates to core material

2- measured with 50 mm air cavity
5- core only, fabrics not considered

3- this applies to standard products that have been installed without adhesives.



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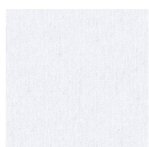
Colours Available in 42 colours



WINE



OCEAN



WHITE



PEACH



BLUSH



WHEAT



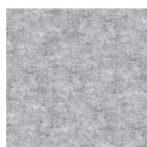
CAMEL



YELLOW



SLATE GREY



ICE WHITE



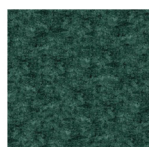
BLACK



OLIVE



MEADOW



FOREST



WILLOW



SAGE



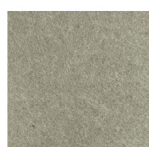
MINT



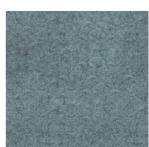
BURNT ORANGE



EDEN



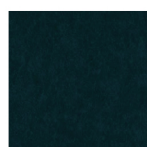
PURBECK



MISTY DEW



MARBLE



EMERALD



CYPRUS



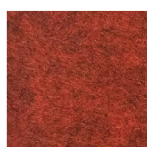
ORANGE



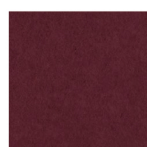
CHARCOAL GREY



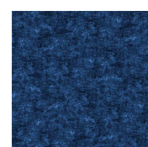
CLAY



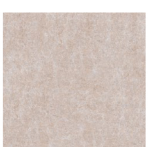
RUST



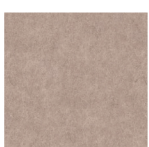
BURGUNDY



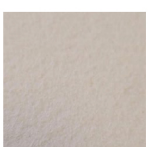
NOVA



OPAL



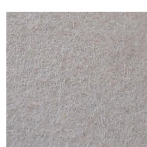
SAND



MAGNOLIA



OYSTER



CLOUDS



NATURAL



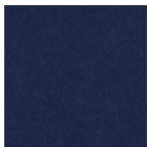
ALICE BLUE



PARADISE



NEPTUNE



BLUEBELL



BREEZE



NOCTURN



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Testing Standards

12 mm

ISO:

f sound absorption in a reverberation room

ISO 11654

Sound absorbers for use in buildings — Rating of sound absorption

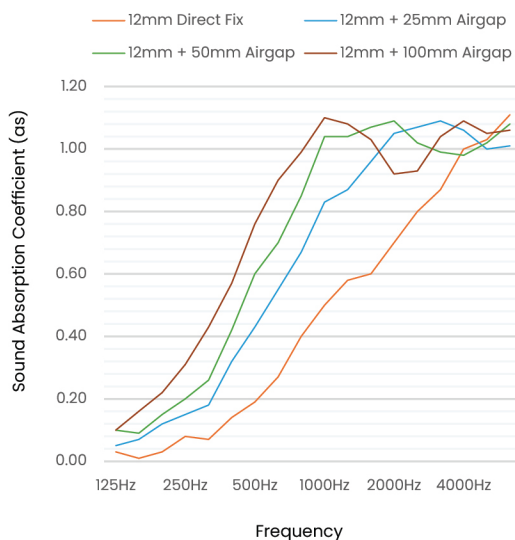
ASTM C423-17

Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method

ACOUSTICS:

Sound absorbers for use in buildings — Rating of sound absorption

FREQUENCY (Hz)	125	250	500	1000	2000	4000	aw	NRC	Class
12mm Direct Fix	0.00	0.10	0.30	0.55	0.80	1.00	0.35 _(H)	0.45	D
12mm + 25mm Airgap	0.10	0.20	0.55	0.90	1.00	1.00	0.50 _(MH)	0.65	D
12mm + 50mm Airgap	0.10	0.30	0.70	1.00	1.00	1.00	0.60 _(MH)	0.75	C
12mm + 75mm Airgap	0.15	0.45	0.85	1.00	1.00	1.00	0.75 _(MH)	0.85	C
12mm + 100mm Airgap	0.15	0.45	0.90	1.00	0.95	1.00	0.75 _(MH)	0.85	C
12mm + 200mm Airgap	0.45	0.85	1.00	0.90	1.00	1.00	1.00	0.95	A
12mm + 300mm Airgap	0.60	0.95	0.90	0.95	1.00	1.00	0.95	1.00	A



Weighted Sound Absorption Coefficient (aw) - Measured in accordance with ISO 11654. Practical sound absorption coefficient ap values at given standard frequencies are compared with reference curve aw.

Noise Reduction Coefficient (NRC) - The mean average as value at frequencies 250, 500, 1000 and 2000 Hz.

Absorption Class - Levels of comparison of absorption values against a reference curve with A as highest and E as lowest. Measured in accordance with ISO 11654.

Practical Sound Absorption Coefficient (ap) - The average of the three as values centered on the 1/3 octave band center frequency, measured in accordance with EN ISO 354.



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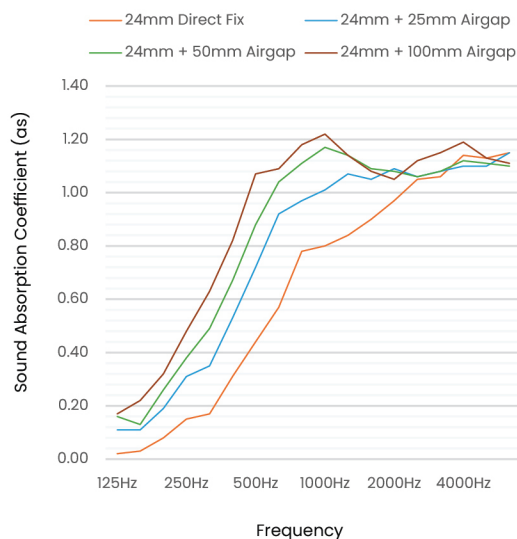
Alpha Panel™

Acoustic Data

24 mm

ISO 354	Measurement of sound absorption in a reverberation room
ISO 11654	Sound absorbers for use in buildings – Rating of sound absorption
ASTM C423-17	Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
ACOUSTICS:	Sound absorbers for use in buildings – Rating of sound absorption

FREQUENCY (Hz)	125	250	500	1000	2000	4000	aw	NRC	Class
24mm Direct Fix	0.05	0.20	0.60	0.85	1.00	1.00	0.50 _(MH)	0.65	D
24mm + 25mm Airgap	0.15	0.40	0.85	1.00	1.00	1.00	0.70 _(MH)	0.85	C
24mm + 50mm Airgap	0.20	0.50	1.00	1.00	1.00	1.00	0.80 _(H)	0.95	B
24mm + 75mm Airgap	0.25	0.60	1.00	1.00	1.00	1.00	0.90	1.00	A
24mm + 100mm Airgap	0.25	0.65	0.90	1.00	0.95	1.00	0.95	1.00	A
24mm + 200mm Airgap	0.50	0.95	1.00	1.00	1.00	1.00	1.00	1.05	A
24mm + 300mm Airgap	0.65	1.00	1.00	1.00	1.00	1.00	1.00	1.00	A



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Care and Maintenance

Caring for an Alpha Panel involves regular dusting with a soft cloth or vacuuming with a brush attachment to keep it clean. For stains, use a mild detergent and water, avoiding harsh chemicals. Periodically inspect the panels for any signs of wear and tear to ensure they maintain optimal acoustic performance. Proper maintenance will keep your acoustic PET panels looking and functioning well for years!

CLEANING METHODS

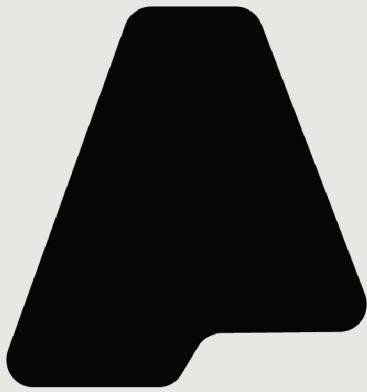
-
- A.** Mop up excess as soon as possible with a sponge or cloth.
-
- B.** Remove surplus with a knife edge or appropriate Instrument.
-
- C.** Sponge with a solution of carpet shampoo working from well outside the stain in a circular motion towards the centre (this avoids spreading the stain). Sponge afterwards with clean warm water and mop excess moisture with a clean dry cloth or sponge. Allow to dry then brush gently with a soft brush. If any stain remains, sponge with a solution of one part household bleach to six parts clear water. Thoroughly rinse after treatment.
-
- D.** Lightly sponge with household dry cleaning fluid and blot. Apply sparingly, as the substance may have an adverse effect on the adhesive.
-
- E.** Lubricate the stain with glycerine or petroleum jelly.
-
- F.** Apply nail polish remover. The nail polish remover should not include lanolin or be of a greasy nature.
-
- G.** Sponge with turpentine (or substitute).
-
- H.** Freeze with ice cubes and scrape away while cold.
-
- I.** Clean with regular extractive carpet cleaner (if possible).
-
- J.** Use circular cutter and remove damaged portion.
-

CLEANING GUIDE

CONTAMINANT	GUIDE			
Blood	A	C		
Burn/Scorch Mark	J			
Chewing Gum	B	C	D	H
Chocolate	B	C	D	
Cooking Oils	B	C	D	
Crayons/Markers	A	C		
Drinks	Vacumm, I, or C			
Dust/Dirt	B	C		
Excrement	C			
Grease	B	C	D	
Ink	D	C		
Lipstick	A	C		

CONTAMINANT	GUIDE			
Mildew	B	C	D	
Milk	C			
Mud	A			
Nail Polish	B	C		
Oil	A	F		
Paint (Water-based)	B	C	D	
Paint (Oil-based)	A	C	E	
Sauces	A	C	D	G
Shoe Polish	B	D	D	
Urine	A	C		
Vomit	A	C	D	
Wine	A	Salt	C	





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