

Alpha Panel™

Material Datasheet

Product Name	Alpha Panel™	
Composition	100% PET with 75% post-consumer recycled content	
Thickness ¹	12 mm (0.47")	24 mm (0.94")
Max. Sheet size ¹	1225 x 2800mm (48" x 110")	
Acoustic ²	α_w 0.60(MH) NRC 0.75	α_w 0.80(H) NRC 0.95
Density ¹	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	
Recyclability ⁴	100% reusable and recyclable material. This product has been designed to be fully recyclable, or repurposed to maximise sustainability.	
VOC Emission	GREENGUARD Gold Certified Tested to ISO 16000	
Durability ⁵	Moisture, mould, and mildew resistant	
Carbon Footprint ⁶	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

2 - measured with 50 mm air gap

3 - other fabrics available

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

5 - relates to core material

6 - core only, fabrics not considered



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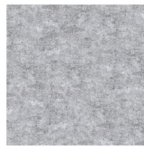
Colours Available in 42 colours



WHITE



MARBLE



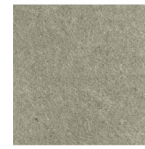
ICE WHITE



MAGNOLIA



NATURAL



PURBECK



OPAL



SAND



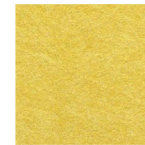
CLOUDS



OYSTER



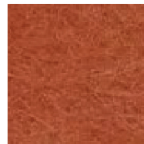
WHEAT



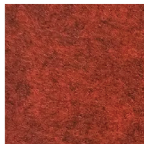
YELLOW



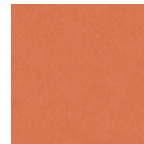
CARAMEL



BURNT ORANGE



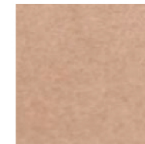
RUST



ORANGE



CLAY



BLUSH



PEACH



WINE



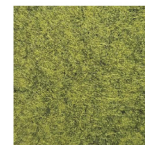
BURGUNDY



MINT



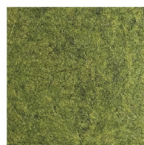
SAGE



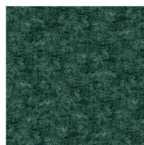
MEADOW



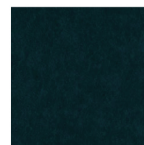
WILLOW



OLIVE



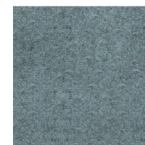
FOREST



EMERALD



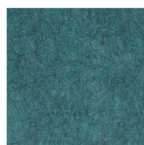
PARADISE



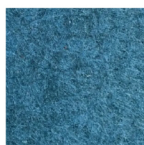
MISTY DEW



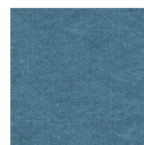
EDEN



NEPTUNE



OCEAN



CYPRUS



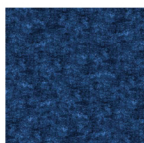
ALICE BLUE



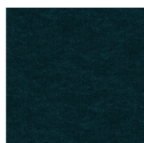
BREEZE



BLUEBELL



NOVA



NOCTURN



SLATE GRAY



CHARCOAL GRAY



BLACK

Availability:

Standard 12mm & 24 mm: Black, Charcoal Grey, Yellow, Paradise, Marble, Clouds, Magnolia, Rust, White, Slate Grey, Sand, Sage, Oyster, Opal, Ocean, Neptune, Natural, Misty Dew, Ice White, Eden, Cyprus, Caramel.

12 mm only: Wine, Peach, Blush, Wheat, Olive, Meadow, Forest, Willow, Mint, Burnt Orange, Emerald, Orange, Clay, Burgundy, Nova, Alice Blue, Breeze.



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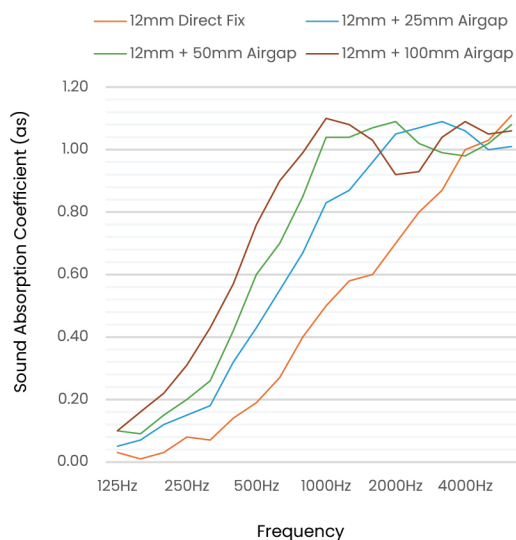
Alpha Panel™

Acoustic Data

12 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
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.



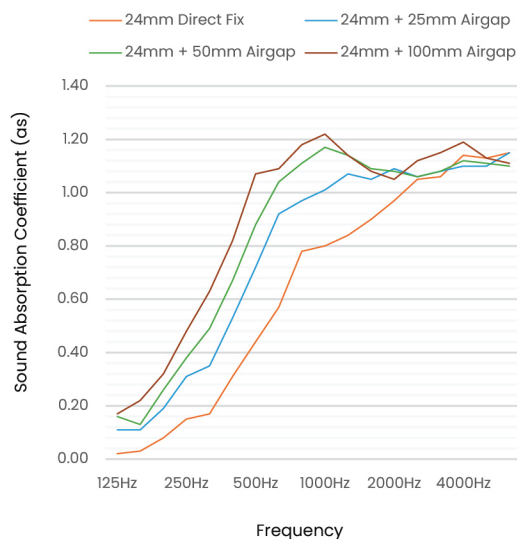
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Acoustic Data

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



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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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

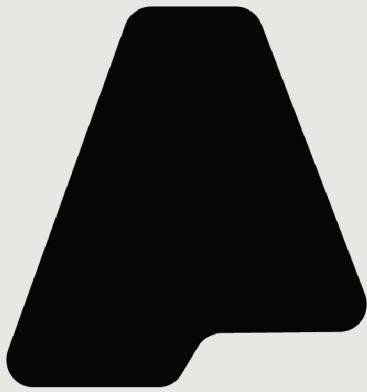
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- A.** Mop up excess as soon as possible with a sponge or cloth.
-
- B.** Remove surplus with a knife edge or appropriate Instrument.
-
- C.** Sponge with a solution of carpet shampoo working from well outside the stain in a circular motion towards 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.
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- 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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