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ECHOBOARD[®] 24MM DATASHEET

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PRODUCT NAME

EchoBoard® 24mm

DESCRIPTION

High-performance acoustic sound absorber with textile surface made of 100% PET.

EchoBoard® 24mm is made of robust high-tech felt with homogeneous texture and colour throughout. This sound absorber with a recycled PET content of over 50% is ideal for functional and aesthetic acoustic solutions and a direct answer to questions about ecological and economic sustainability that arise in contemporary interior design, interior decoration and renovation."

PRODUCT PROPERTIES

Dimensions: 2380mm x 1800mm

Thickness: 24mm

Weight: 3600g/m² (± 10%)

ACOUSTIC PERFORMANCE

aw: 0.50 - 1.00

NRC: 0.70 - 0.95.

INSTALLATION

- Quick installation with EchoGlue® contact adhesive
- Suitable for use in rooms as well as roofed outdoor areas
- Very easy to trim with a knife

MATERIAL PROPERTIES

- Extremely robust and shockproof
- Very high colour fastness of the all-round homogeneous textile surface available in 21 colours
- Flame retardant. B-s2,d0 certified according to EN 13501
- Extremely low volatile organic compounds below < 0.5mg/m²/h, certified according to ASTM D5116
- Formaldehyde emission below < 0.1mg/m²/h, certified according to ASTM D5116
- Dimensionally stable up to 50°C and 95%rH
- Melting point: 250 °C
- Decomposition Temp: > 250 °C
- Alkalinity: pH: 7.8 (pH 7 is neutral)

CLEANING & CARE

Can be cleaned dry and damp with chlorine or hydrogen peroxide.

ENVIRONMENT

- 100% PET with a content of over 50% from recycled PET bottles
- 100% recyclable
- eco-1 rating within eco-bau & Minergie-Eco requirements

DISPOSAL

The product is recyclable as part of ECHOJAZZ's stewardship programme.

DATASHEET ECHOBOARD® 24MM



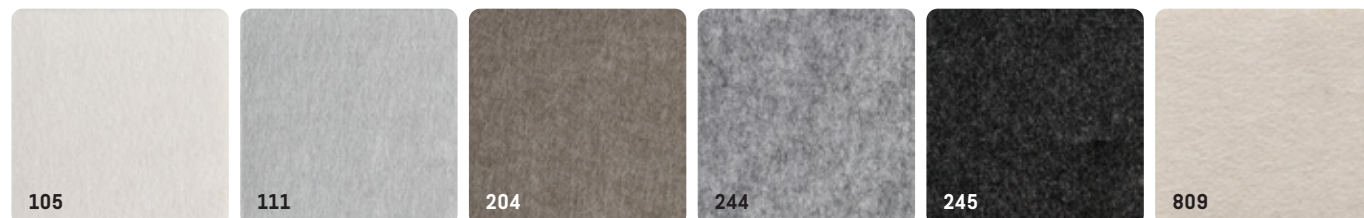
EchoBoard® 24mm is a high quality sound absorber with an α_w of up to 1.00 and a NRC of up to 0.95, which can be used for acoustic ceilings, walls, office desks or room dividers.

DESCRIPTION	EchoBoard® 24mm																												
DIMENSIONS	1800mm (± 1mm) x 2380mm (± 1mm)																												
COMPOSITION	100% PET (> 50% recycled PET)																												
PET BOTTLES* PER PANEEL	303 PET Bottles *The number of PET bottles refers to 500ml PET bottles with a bottle weight of 24g.																												
WEIGHT	3600g/m² (± 10%)																												
MATERIAL THICKNESS	24mm																												
LIGHTFASTNESS ISO 105-B02-1994	> 7																												
FIRE TEST EN 13501	B-s2, d0																												
VOC EMISSIONS ASTM D5116	< 0.5mg/m²/h																												
FORMALDEHYDE EMISSIONS ASTM D5116	< 0.1mg/m²/h																												
ENVIRONMENTAL CERTIFICATIONS	eco1 Minergie-Eco Cradle to Cradle Certified® Bronze M1 emission-free materials																												
SOUND ABSORPTION DIN EN ISO 11654 ASTM C423	aw 0.50 (direct mount) aw 0.65 (50mm wall/ceiling distance) aw 1.00 (200mm wall/ceiling distance) NRC = 0.70 (direct mount) NRC = 0.80 (50mm wall/ceiling distance) NRC = 0.95 (200mm wall/ceiling distance)																												
COLOURS	21																												
SOUND ABSORPTION GRAPH	<p>The graph plots the Sound Absorption Coefficient (Y-axis, 0.00 to 1.20) against Frequency in Hertz (X-axis, 125 to 4000 Hz). Three data series are shown: direct mount (green line), 50mm distance (yellow line), and 200mm distance (blue line). The 200mm distance series shows the highest absorption across most frequencies, peaking around 1.05 at 1000 Hz. The 50mm distance series peaks around 1.05 at 2000 Hz. The direct mount series shows the lowest absorption, peaking around 1.05 at 2000 Hz.</p> <table><caption>Approximate data points from the Sound Absorption Graph</caption><thead><tr><th>Frequency (Hz)</th><th>Direct Mount (Green)</th><th>50mm Distance (Yellow)</th><th>200mm Distance (Blue)</th></tr></thead><tbody><tr><td>125</td><td>0.05</td><td>0.15</td><td>0.55</td></tr><tr><td>250</td><td>0.15</td><td>0.35</td><td>0.85</td></tr><tr><td>500</td><td>0.45</td><td>0.75</td><td>0.95</td></tr><tr><td>1000</td><td>0.85</td><td>1.05</td><td>0.95</td></tr><tr><td>2000</td><td>1.05</td><td>1.05</td><td>0.95</td></tr><tr><td>4000</td><td>1.05</td><td>1.05</td><td>1.05</td></tr></tbody></table>	Frequency (Hz)	Direct Mount (Green)	50mm Distance (Yellow)	200mm Distance (Blue)	125	0.05	0.15	0.55	250	0.15	0.35	0.85	500	0.45	0.75	0.95	1000	0.85	1.05	0.95	2000	1.05	1.05	0.95	4000	1.05	1.05	1.05
Frequency (Hz)	Direct Mount (Green)	50mm Distance (Yellow)	200mm Distance (Blue)																										
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4000	1.05	1.05	1.05																										

COLOURS ECHOBOARD® 24MM



ECHOBOARD® 24MM CATEGORY I



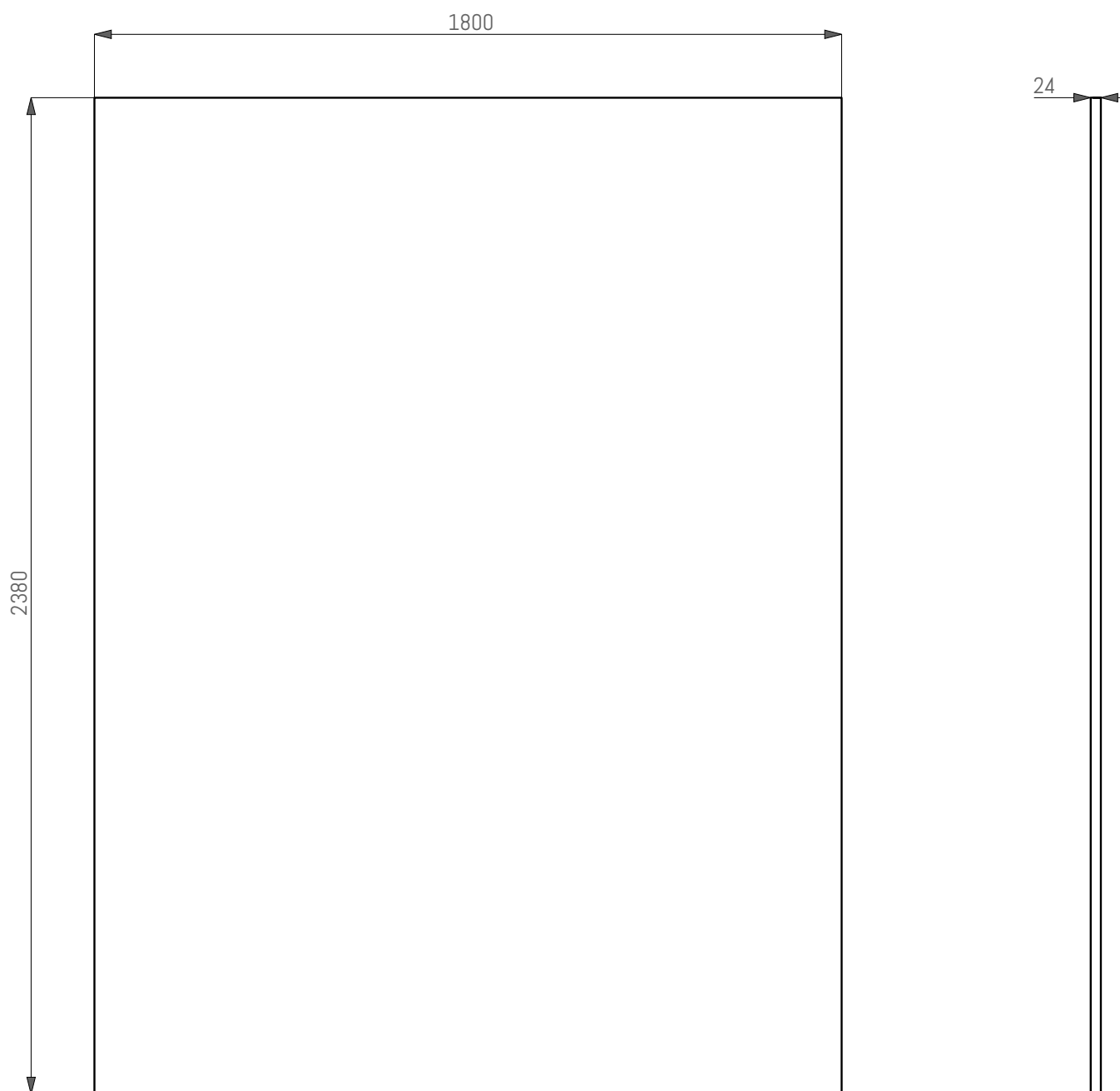
ECHOBOARD® 24MM CATEGORY II



DIMENSIONS & PARTS



ECHOBOARD® 24MM
PET24REC
2380x1800x24mm



SURFACE DISINFECTION

Spray disinfectants can be used for rapid surface disinfection.



DUSTER/VACUUM CLEANER

For dusting use duster or vacuum cleaner.



SPARKLING WATER

For slight contamination apply sparkling water to polluted area. Wipe carefully with a sponge.



UPHOLSTERY CLEANER

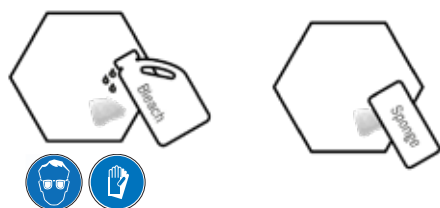
For medium contamination apply upholstery cleaner to polluted area. Wipe carefully with a sponge.



BLEACH

For heavy contamination apply bleach as chlorine or hydrogen peroxide on polluted area. Wipe carefully with a sponge and sparkling water.

Use of protection gloves and glasses is mandatory!



Please make first a cleaning attempt on an inconspicuous spot. Follow the instructions of the cleaning agents.