

Supersonic Wall Panel

SPECIFICATION SHEET 2026

AKUART



KEY SPECIFICATIONS

- Class A sound absorption (EN ISO 11654) when directly mounted on wall, reducing reverberation and improving speech intelligibility.
- 84% total recycled content, including Hydro CIRCAL 100R aluminium frame, 75% recycled PET absorber and 100% recycled polyester textile.
- Design for disassembly, mechanically assembled to allow demounting, repair and material separation.
- Extended service life, supported by replaceable front textile without intervention in the acoustic core.
- Modular system architecture, enabling large scale single or continuous wall installations with visual and acoustic alignment.
- Comprehensive specification documentation available, including EPD (EN 15804), Möbelfakta, Oeko-Tex® and REACH compliance.
- Installation-optimised construction with a pre-engineered mounting principle ensuring precise alignment, controlled load distribution and reduced on-site complexity across all formats, including large-scale panels.

PRODUCT DESCRIPTION

The Supersonic Wall Panel is a high-performance wall absorber delivering Class A sound absorption. It reduces reverberation time and improves speech clarity, making it optimised for professional environments including offices, education, healthcare, and hospitality.

The panel features a clean, architectural design and a modular construction that enables coherent wall compositions, ranging from single panels to large, continuous installations with consistent acoustic and visual alignment. A robust aluminium frame ensures dimensional stability and precise component fit. Extensive format flexibility, a wide range of frame colours, and multiple canvas options support adaptation to diverse architectural contexts.

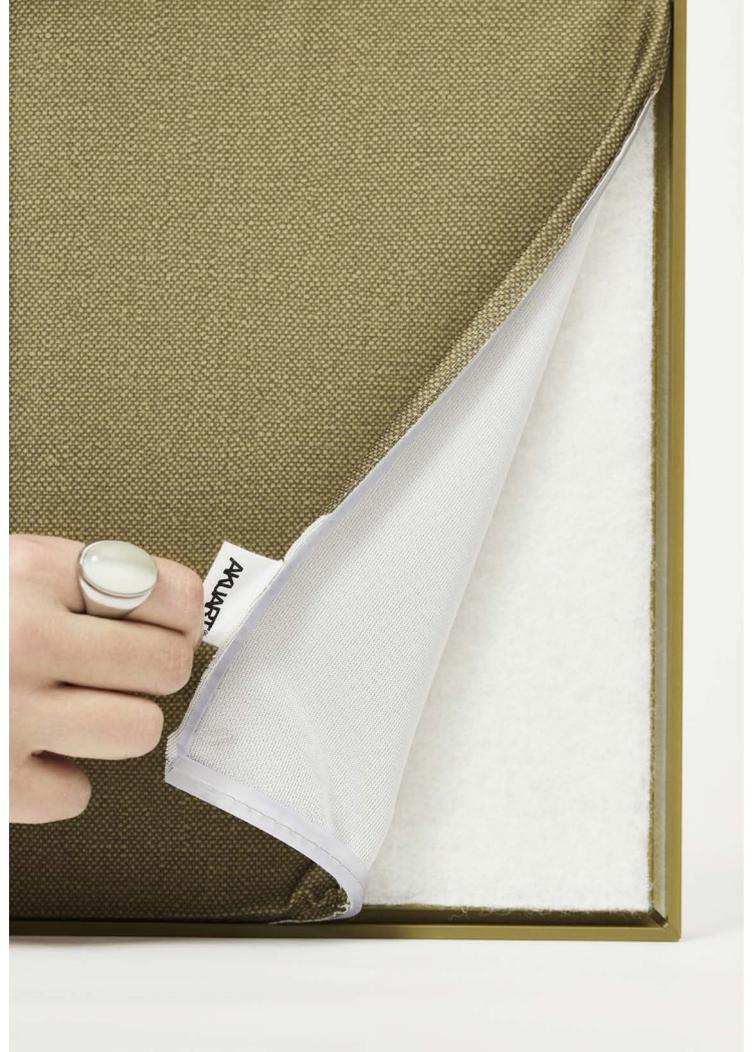
Engineered with a total of 84% recycled materials, the wall panel follows a design-for-disassembly principle. Components can be separated, repaired, and recycled individually, while the changeable front canvas extends product lifespan. With a significantly lower carbon footprint than conventional aluminium-based wall panels, the Supersonic Wall Panel offers a low-impact acoustic solution aligned with current material and performance requirements.

Features



PINNABLE SURFACE

The Wall Panel features a soft acoustic surface that allows notes and lightweight materials to be pinned without compromising acoustic performance or surface integrity.



CHANGEABLE CANVAS TEXTILE

The front canvas textile can be removed and replaced independently without disassembling the panel or affecting the acoustic core. This enables visual updates and surface replacement with minimal downtime, reduced material use, and an extended product lifespan.

Features



REINFORCED CORNERS

Integrated metal corner inserts ensure precise frame assembly and eliminate exposed or sharp edges, improving durability, safety, and overall finish quality.



WALL OFFSET FRAME PROFILE

The wall offset frame profile compensates for uneven wall surfaces, ensuring precise alignment and a clean, consistent shadow line.

Dimensions

VERTICAL FORMATS

W x H x D mm	Kg CO ₂ e (A1-A3)
600 × 1200 × 55	3.88
800 × 1200 × 55	5.17
1000 × 1200 × 55	6.47
1200 × 1500 × 55	9.70
1200 × 1800 × 55	11.64
1200 × 2400 × 55	15.52
1000 × 1500 × 55	8.09
1000 × 2000 × 55	10.78
1500 × 2000 × 55	16.17
2000 × 3000 × 55	32.34
2000 × 4000 × 55	43.12

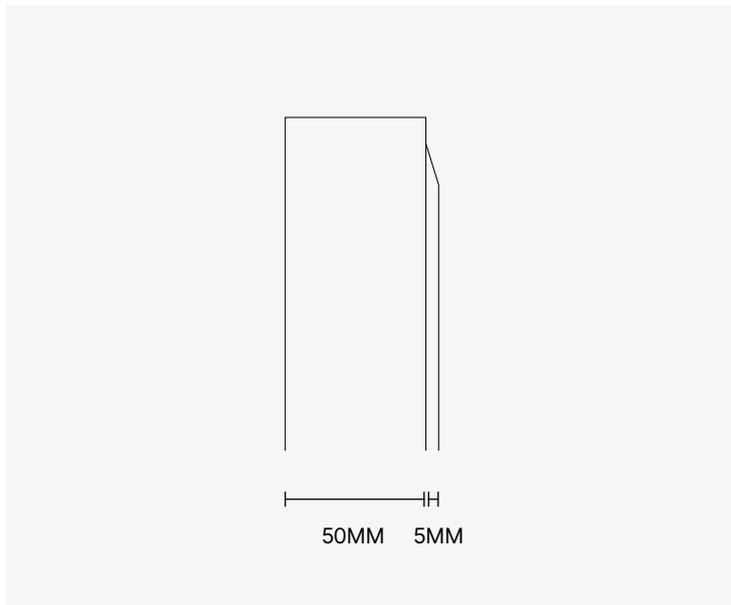
HORIZONTAL FORMATS

W x H x D mm	Kg CO ₂ e (A1-A3)
1200 × 600 × 55	3.88
1200 × 800 × 55	5.17
1200 × 1000 × 55	6.47
1500 × 1200 × 55	9.70
1800 × 1200 × 55	11.64
2400 × 1200 × 55	15.52
1500 × 1000 × 55	8.09
2000 × 1000 × 55	10.78
2000 × 1500 × 55	16.17
3000 × 2000 × 55	32.34
4000 × 2000 × 55	43.12

SQUARE FORMATS

W x H x D mm	Kg CO ₂ e (A1-A3)
1000 × 1000 × 55	5.39
1200 × 1200 × 55	7.76
1500 × 1500 × 55	21.56

SIDE VIEW



BESPOKE SIZES

The Supersonic Wall Panel is available in bespoke dimensions to accommodate specific architectural and spatial requirements.

Height: min. 200mm – max. 3000mm

Length: min. 200mm – no maximum limitation*

*Frame profiles can be extended continuously in length using connector fittings.

Frame and Canvas Design

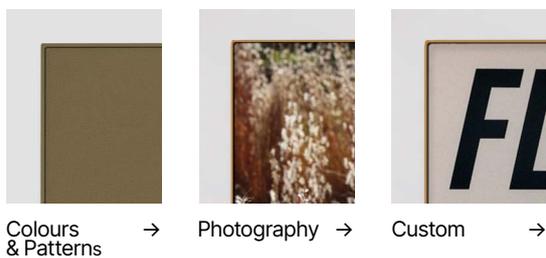
STANDARD FRAME DESIGN OPTIONS

The Supersonic frame colour system is structured around eight foundational colours, each developed in three calibrated tonal variants: Muted, Base, and Accent. This hierarchy establishes a consistent architectural colour logic that accommodates both restrained and expressive spatial compositions, while supporting long-term relevance and specification longevity.



CANVAS DESIGN OPTIONS

The Supersonic Wall Panel supports a broad range of visual expressions, including curated colours, graphic patterns, photographic imagery, and fully bespoke designs. This flexibility allows the panel to function either as a discreet architectural surface or as a more expressive visual element, while maintaining consistent acoustic performance and enabling visual updates over time without replacing the core structure.



Certifications & Documentation

- Third-party-verified Environmental Product Declaration (EPD) aligned with EN-15804, covering cradle-to-gate and end-of-life phases.
- Möbelfakta certified, supporting transparent product data and responsible sourcing.
- Oeko-Tex® Standard 100 certification for textile and acoustic absorber.
- Fire classification B-s1,d0 in accordance with EN 13501-1 (component level for textile and absorber).
- Compliance with the REACH Regulation.



Materials

The panel is constructed with bolt-on components designed for straightforward dismantling, enabling efficient sorting, repair, recycling, and reuse. Individual components can be replaced as required, reducing material waste and extending service life. The exchangeable front canvas allows the visual expression to be updated without replacing the entire panel, ensuring long-term adaptability to changing interiors or branding while preserving the core structure for continued use over time.

Country of origin: Poland

CANVAS

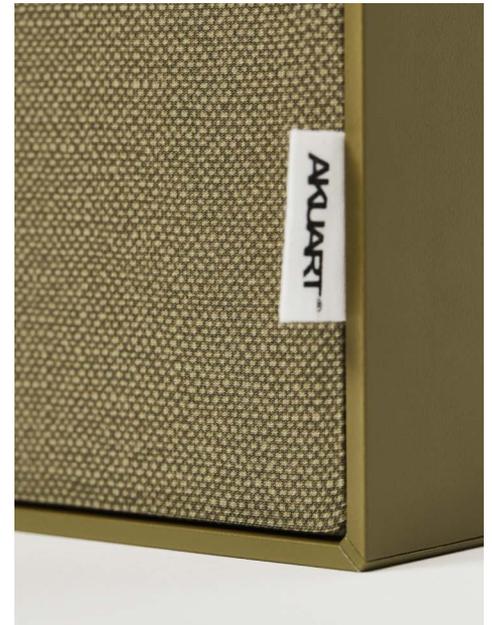
The changeable canvas is manufactured from 100% recycled polyester fibres and is certified to Oeko-Tex® Standard 100. It meets reaction-to-fire classification B-s1,d0. The printing ink complies with Oeko-Tex® Standard 100 and the REACH Regulation, ensuring material safety and regulatory compliance.

ACOUSTIC MATERIAL

The acoustic core consists of 50 mm PET manufactured from 75% recycled fibres derived from plastic bottles. It complies with the REACH Regulation (EC 1907/2006), meets reaction-to-fire classification B-s1,d0, and is certified to Oeko-Tex® Standard 100.

FRAME

The frame is manufactured from Hydro CIRCAL 100R aluminium produced from 100% upcycled post-consumer scrap and finished with a fine-structured powder coating. The powder coating complies with the REACH Regulation (EC) No 1907/2006 and the CLP Regulation (EC) No 1272/2008.



Acoustic Functionality

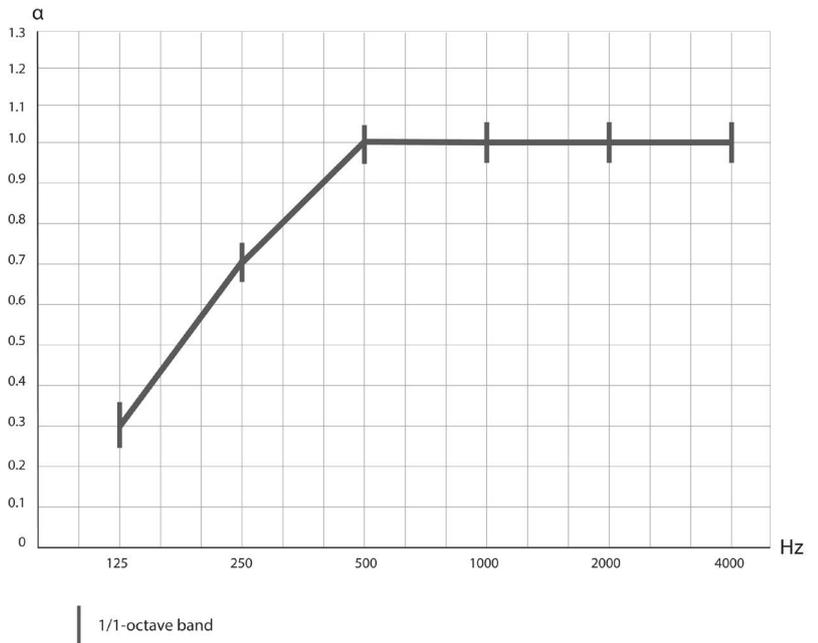
SOUND ABSORPTION MEASUREMENTS

The acoustic performance of the Supersonic Wall Panel is tested by independent acoustic engineers in a sound engineering laboratory at the Technical University of Denmark in accordance with ISO 354.

ACOUSTIC FUNCTIONALITY

Sound absorption class: A
 Absorption coefficient(α): 0.95
 NRC: 0.95

Freq. [Hz]	Absorption coefficient	
	1/3-oct.	1/1-oct.
100	0.22	0.30
125	0.27	
160	0.43	
200	0.54	0.70
250	0.70	
315	0.84	
400	0.98	1.00
500	1.06	
630	1.13	
800	1.15	1.00
1000	1.21	
1250	1.24	
1600	1.22	1.00
2000	1.18	
2500	1.11	
3150	1.10	1.00
4000	1.21	
5000	1.24	



Installation, Use & Maintenance

INSTALLATION

The panel is mounted using wall mounts or fixed directly to the wall. Installation is suitable for common wall constructions, including concrete, masonry, and plasterboard, when appropriate fixings are used. Installation must be carried out by qualified installers in accordance with local building regulations. The panel can be demounted without damage, allowing reinstallation, servicing, or component replacement as required.

CARE & MAINTENANCE

Canvas

- Regularly dust with a soft brush or vacuum to prevent dirt accumulation.
- Treat stains promptly to prevent them from setting. Absorb excess liquid immediately.
- Disinfect using antibacterial wipes or sprays, always following the manufacturer's instructions.
- The detachable Supersonic canvas textile is machine washable. Remove the canvas using the AKUART hand tag.
- Wash at temperatures up to 60 °C. Ensure the canvas is completely dry before remounting.

Frame

- Regularly clean with a soft brush or vacuum to prevent dirt from accumulating.
- Disinfect using antibacterial wipes or sprays, ensuring you follow the manufacturer's instructions.

WARRANTY

The Supersonic Wall Panel is covered by a 10-year warranty against defects in materials and workmanship under normal use and installation conditions. The warranty applies provided the product is installed and maintained in accordance with Akuart's installation and care guidelines.

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