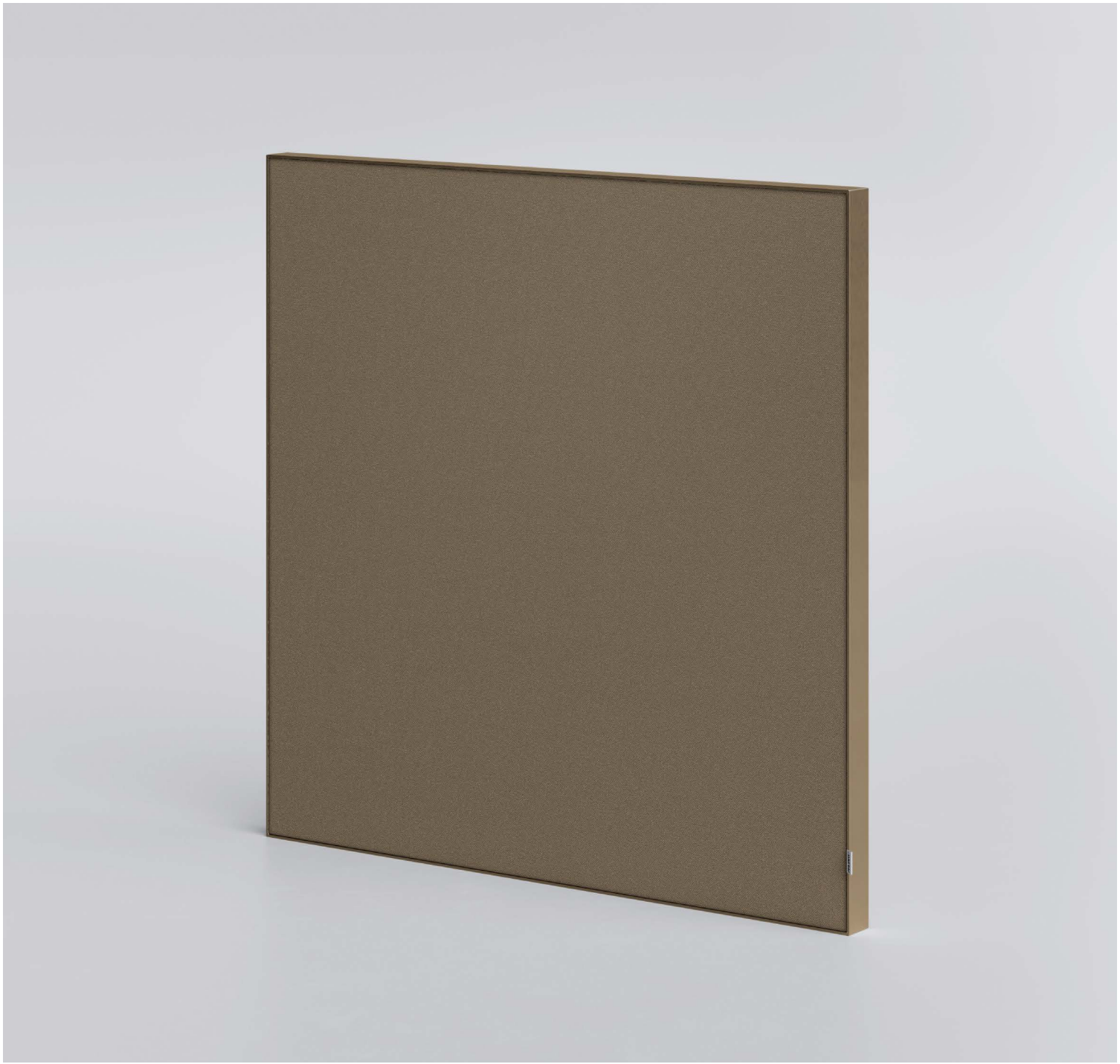
Supersonic Wall Panel

SPECIFICATION SHEET 2026

AKUART



Specification Overview 1/2

PRODUCT & APPLICATION

Product	Supersonic Wall Panel
Product Type	Acoustic wall panel
Applications	Offices, Education, Healthcare, Hospitality
Manufacturing	Made to specified dimensions, eliminating on-site cutting and waste.
Country of Origin	Poland
Lead Time	3–4 weeks
Warranty	10 Years
Expected Service Life	Expected service life 50+ years

PERFORMANCE

Sound Absorption Class	Class A
Acoustic Standard	EN ISO 11654
αw	0.95
NRC	0.95
Fire Classification	B-s1,d0 (Component level)
Light Fastness	>5 (EN ISO 105-B02:2014)

CONSTRUCTION & FUNCTIONALITY

Overall Thickness	55 mm
Construction	Mechanical assembly
Frame	55 mm Hydro CIRCAL® 100R (100% recycled aluminium)
Frame Finish	Fine-structured powder coating
Acoustic Core	50 mm PET (75% recycled fibres)
Canvas	100% recycled polyester
Corner Inserts	Zinc
Fasteners	Steel
Surface	Soft acoustic textile
Pinnable	✓
Replaceable Canvas	✓
Demountable	✓

Learn more about the Supersonic Wall Panel→

Specification Overview 2/2

CIRCULARITY

Total Recycled Content	84%
Frame Recycled Content	100% post-consumer recycled aluminium
Acoustic Core	75% recycled PET
Canvas	100% recycled polyester
Designed for Disassembly	✓
Replaceable Components	✓
Replaceable Canvas	✓
Repairable	✓
Recyclable	✓
Digital Product Passport	Integrated NFC
Carbon Footprint	✓

DOCUMENTATION

EPD	✓
Möbelfakta	✓
Oeko-Tex® Standard 100	✓
REACH Compliance	✓
Akuart LCA Calculator	✓
Installation Guide	✓
Maintenance Guide	✓
Digital Product Passport	✓
3D Files	DWG, FBX, 3DS, OBJ, USDZ, GLB

DESIGN OPTIONS

Standard Frame Finish	24 powder-coated colours
Metallic Frame Finish	Raw Aluminium
Standard Canvas Colours	24 textile colours (Transformer) coordinated with the standard frame colours
Standard Canvas Photos	Curated Photography Collection available through www.akuartgallery.com
Bespoke Canvas Designs	Patterns, graphics, visual designs, branding and wayfinding
Replaceable Canvas	Yes

Core Features



Class A Acoustic Performance	Delivers Class A sound absorption, reducing reverberation and improving speech intelligibility.
Circular Construction	Designed for disassembly using mechanical assembly.
Replaceable Canvas	Refresh the visual appearance without replacing the acoustic core.
Low Carbon Materials	84% total recycled content.
Pinnable Surface	Soft acoustic textile surface suitable for pinning notes, sketches and lightweight materials.
Bespoke Dimensions	Available in standard sizes and bespoke dimensions to suit project requirements.
Continuous Installations	Modular construction for seamless wall compositions.
Digital Product Passport	NFC-enabled access to technical and environmental documentation.
Installation Optimised	Engineered mounting principle ensuring accurate alignment.

Learn more about the Supersonic Wall Panel→

Design Options 1/2

FRAME DESIGN OPTIONS

The aluminium frame is available in 24 powder-coated colours, organised into eight colour families, each offered in three tonal variations:

- Muted
- Base
- Accent

Additionally, the frame is available in Raw Aluminium.

CANVAS DESIGN OPTIONS

→ The Transformer Collection is Akuart's coordinated textile collection, developed to perfectly match the 24 standard frame colours. Using the same colour logic (Muted, Base and Accent), architects can specify:

- Matching frame and canvas combinations
- Contrasting frame and canvas combinations
- Tonal compositions across spaces


→ Muted Olive


Muted Red


Muted Yellow


Muted Purple


Muted Earth


Muted Green


Muted Blue


White


Base Olive


Base Red


Base Yellow


Base Purple


Base Earth


Base Green


Base Blue


Grey


Accent Olive


Accent Red


Accent Yellow


Accent Purple


Accent Earth


Accent Green


Accent Blue

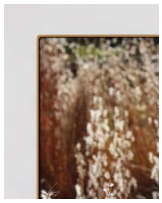

Black


Raw Aluminium

Design Options 2/2

CANVAS DESIGN OPTIONS

→ The Photography Collection is Akuart's curated collection of photographic artwork, offering a wide range of ready-to-specify visual designs.



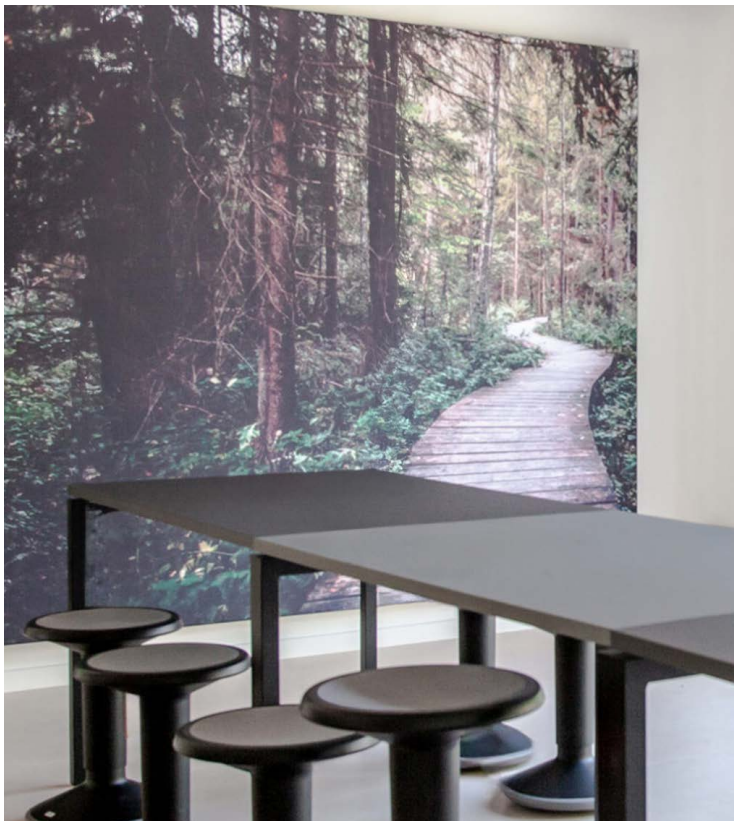
→ Photography

BESPOKE CANVAS DESIGN OPTIONS

The canvas can also be specified with bespoke patterns, graphics, visual designs, branding and wayfinding → Akuart Custom Graphics



→ Custom

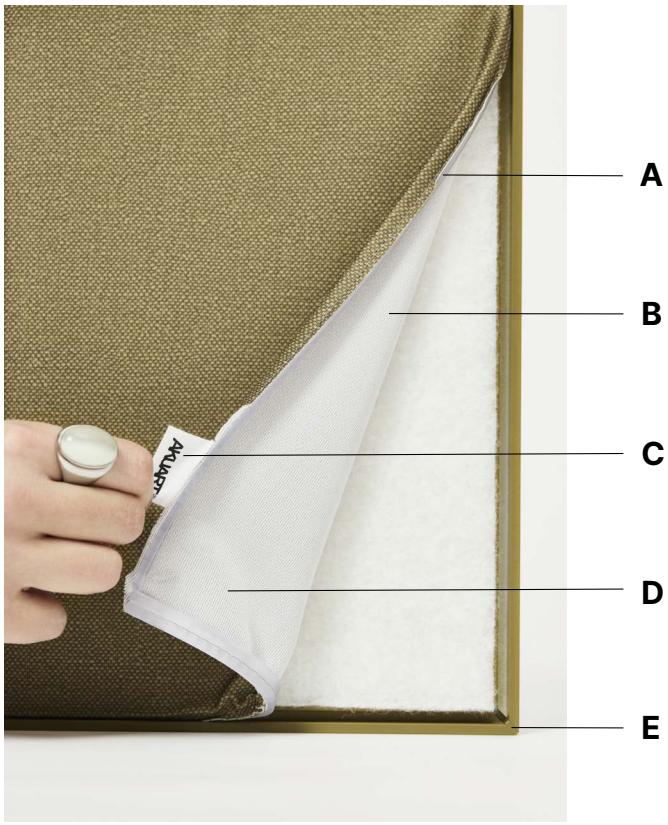




Learn more about the Supersonic Wall Panel→

Materials & Construction 1/2

The panel is constructed with bolt-on components with a high percentage of recycled content. It is 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 while preserving the core structure for continued use over time.



Overall Thickness	55 mm
Construction	Mechanical assembly
Frame (A)	55 mm Hydro CIRCAL® 100R (100% recycled aluminium)
Frame Finish (A)	Fine-structured powder coating
Acoustic Core (B)	50 mm PET (75% recycled fibres)
Canvas (D)	100% recycled polyester
DPP (C)	Integrated NFC
Corner Inserts (E)	Zinc
Fasteners	Steel
Pinnable	✓
Replaceable Canvas (D)	✓
Demountable	✓

Learn more about the Supersonic Wall Panel→

Materials & Construction 2/2





WEIGHT GUIDE

Panel Area	Weight
1 m²	7.0 kg
2 m²	11.8 kg
3 m²	16.5 kg
4 m²	21.3 kg
5 m²	26.1 kg
6 m²	30.9 kg
7 m²	35.7 kg
8 m²	40.5 kg
9 m²	45.2 kg
10 m²	50.0 kg

Learn more about the Supersonic Wall Panel→

Circularity & Sustainability

Supersonic Wall Panel is designed with circularity in mind. Made-to-order production minimises excess production and eliminates on-site cutting and associated waste. Mechanical assembly enables disassembly for maintenance, repair and material recovery, while the replaceable textile canvas extends product longevity by allowing the visual expression to evolve without replacing the acoustic core or frame.

CIRCULAR MATERIAL FLOW



CARBON

Environmental impacts are documented through independently verified Environmental Product Declarations (EPDs), providing transparent life cycle data to support informed specification decisions and whole-life carbon assessments.

Example: Supersonic Wall Panel, 1000 × 1000 × 55 mm → Global Warming Potential (A1–A3): 5.39 kg CO_2e

Refer to the carbon footprint table on page 10 for values across all standard panel dimensions.
Carbon footprints for bespoke panel dimensions are available through the → AKUART LCA Calculator.

ENVIRONMENTAL DOCUMENTATION

Comprehensive environmental documentation is available to support specification, compliance and lifecycle transparency.

- Environmental Product Declaration (EPD)
- Möbelfakta
- REACH Compliance
- OEKO-TEX® Certification
- Digital Product Passport (DPP)

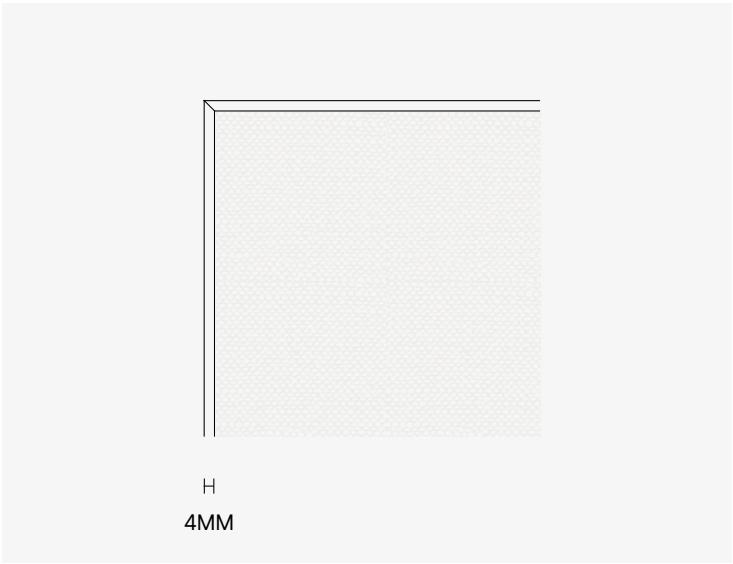
CONTRIBUTION TO BUILDING CERTIFICATION

The documentation and certification in the specification sheet can contribute towards sustainable building certification schemes through documented material transparency, environmental performance and indoor environmental quality.

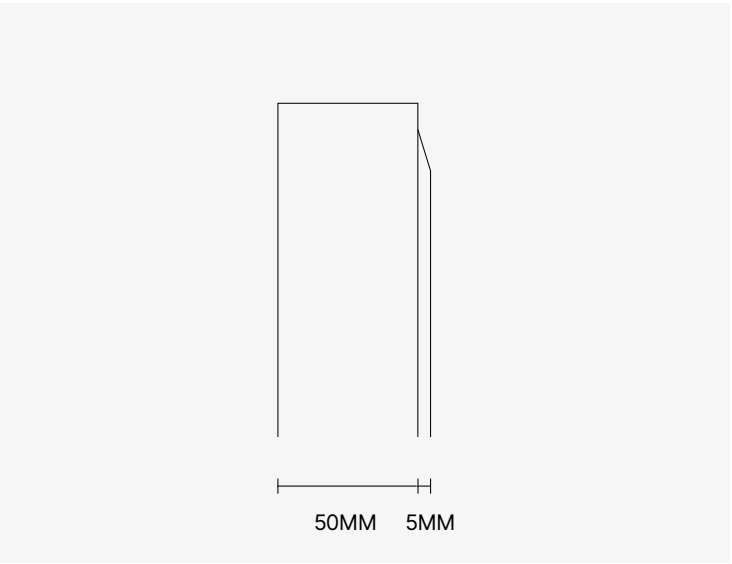
- DGNB
- LEED
- WELL
- BREEAM

Dimensions & Configurations 1/2

FRONT VIEW



SIDE VIEW



VERTICAL FORMATS

W x H x D mm	Kg $C0_2e$ (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 $C0_2e$ (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 $C0_2e$ (A1-A3)
1000 × 1000 × 55	5.39
1200 × 1200 × 55	7.76
1500 × 1500 × 55	21.56

BESPOKE DIMENSIONS

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

Height: 200–3000 mm
Length: 200 mm minimum, no practical maximum. Frame profiles can be joined seamlessly using concealed connector fittings to create continuous wall installations.

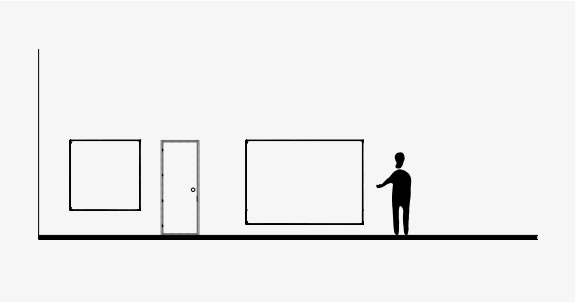
Learn more about the Supersonic Wall Panel→

Dimensions & Configurations 2/2

Supersonic Wall Panel can be configured to suit a wide range of architectural and acoustic requirements, offering solutions from individual panels to large-scale continuous wall installations.

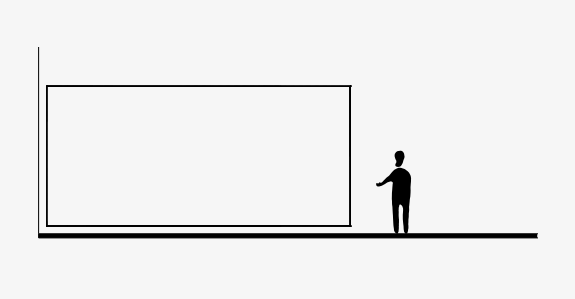
SINGLE PANELS

Standalone acoustic panels for targeted sound absorption and architectural feature walls.



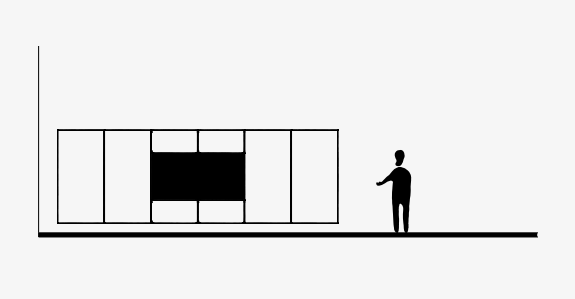
OVERSIZE PANELS (WALL-TO-WALL)

Seamlessly connected frame profiles enable continuous wall installations with virtually unlimited lengths.



MULTI-PANEL CONFIGURATIONS

Multiple panel formats can be combined into bespoke architectural compositions, allowing elements such as monitors and other functions to be seamlessly integrated.



Acoustic Performance 1/2

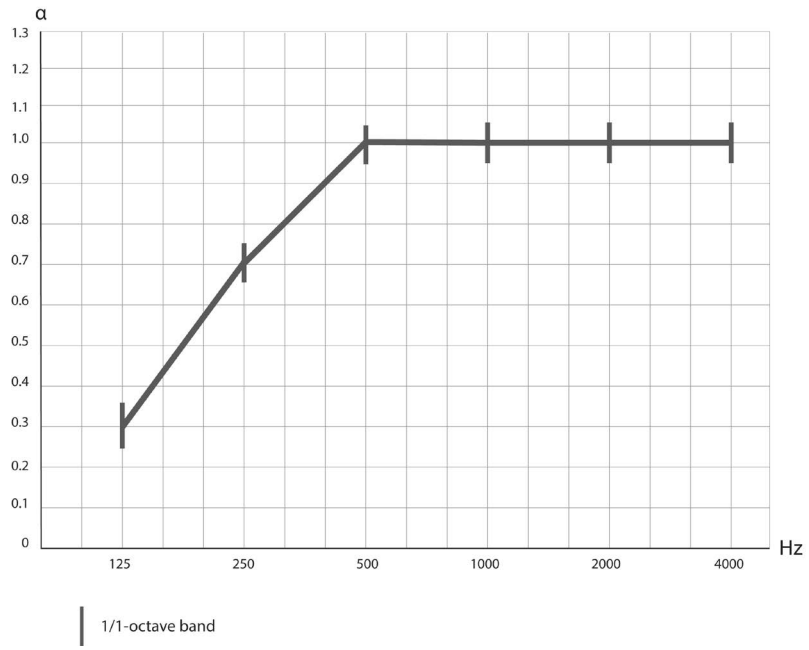
Supersonic Wall Panel delivers Class A sound absorption, providing highly effective control of reverberation to improve speech intelligibility, acoustic comfort and overall wellbeing across a wide range of interior environments. The performance is based on direct wall mounting, without the use of an air cavity behind the panel.

LABORATORY PERFORMANCE

Test Standard: ISO 354
Classification: EN ISO 11654

Property	Value
Sound Absorption Class	A
αw	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	



Acoustic Performance 2/2

SOUND ABSORPTION CLASSIFICATION

Absorption Class	αw
A	0.90 – 1.00
B	0.80 – 0.85
C	0.60 – 0.75
D	0.30 – 0.55
E	0.15 – 0.25

Supersonic Wall Panel (αw 0.95): Tested with direct wall mounting (no air cavity)

RECOMMENDED APPLICATIONS

Supersonic Wall Panel is suitable for a wide range of interior environments, including:

- Meeting Rooms
- Open Offices
- Education
- Healthcare
- Hospitality
- Reception Areas
- Collaboration Spaces
- Libraries
- Corridors
- Breakout Areas

ACOUSTIC DESIGN CONSIDERATIONS

Optimal acoustic performance is achieved by combining the appropriate quantity, size and placement of panels for each project. Akuart can provide project-specific acoustic guidance where required.

Learn more about the Supersonic Wall Panel→

Installation & Maintenance

INSTALLATION

Suitable for installation on:

- Concrete
- Masonry
- Plasterboard
- Timber

using appropriate fixings.

MOUNTING

Wall-mounted using the engineered Akuart mounting system for accurate alignment and secure installation. Panels can be demounted without damage for maintenance, relocation or component replacement.

CARE & MAINTENANCE

Canvas

- Vacuum or dust regularly.
- Spot clean stains immediately.
- Machine washable up to 60°C.
- Ensure canvas is fully dry before reinstallation.

Frame

- Vacuum or dust regularly.
- Clean using antibacterial wipes or mild cleaning agents as required.

LONG-TERM MAINTENANCE

The replaceable canvas system allows the visual appearance to be renewed without replacing the acoustic core or frame, extending the functional and aesthetic lifespan of the product.

WARRANTY

10-year warranty against defects in materials and workmanship when installed and maintained in accordance with Akuart guidelines.

Learn more about the Supersonic Wall Panel→

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www.akuart.com

