



Strong Sound High impact metal sound absorption products for walls and ceilings

The Product

Decorative impact resistant perforated metal wall or ceiling panels in-filled with sound absorbing mineral wool. Designed to reduce reverberation and absorb airborne sound within a room to create a comfortable acoustic environment. Ideal for architectural and industrial buildings that require a decorative yet robust, low maintenance product. Strong Sound can be used to cover entire areas or as a design feature.

Strong Sound P (perforated steel)

The standard metal panels are manufactured from perforated steel which provides a 33% staggered pitch absorption area. The acoustically absorbing mineral wool in-fill is face covered with a black or white tissue or special colour to suit. For special applications the mineral wool can be totally encapsulated to prevent the ingress of water and other liquids. Strong Sound P provides a high degree of impact resistance plus a cleanable surface. Many standard perforation and open area patterns are available to meet the acoustic performance or design requirements.

Strong Sound P (heavy duty)

Manufactured from a heavier gauge metal, this product is recommended for surfaces where frequent high impact traffic is expected e.g. Prisons and Detention Centres.

Strong Sound M (mesh)

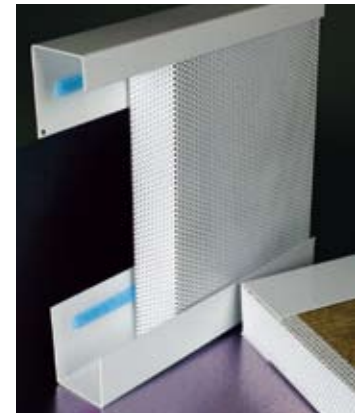
Strong Sound M panels are manufactured from expanded steel mesh, creating a diamond pattern that provides a 30% absorption area. The sound absorbing mineral wool infill is faced with a black or white tissue or special colour to suit. For specialist applications the mineral wool can be totally encapsulated to prevent the ingress of water, fuel oil or other liquids.

Applications

- Airports
- Sports and multi purpose arenas
- Recording studios
- Schools
- Plant rooms
- Factories
- Theatres
- Workshops and machine areas

Colours and Finishes

Strong Sound P and M are available in a black or white powder coating or plain finish as standard. Alternatively both can be powder coated to any British Standard or RAL colour, subject to minimum order quantities.



Installation Guidance

The system design enables panels to easily slide into place and close butt against each other. Higher or wider bespoke panels may be available dependent on the application, subject to discussion.

Technical Advice

Our qualified and experienced acoustic engineers can provide architects, consultants and contractors with detailed technical advice on product specifications, suitability, installation and reverberation time (RT) calculations needed to meet the required acoustic performance.

Impact Resistance

Strong Sound P: Achieves Class 2A when tested in accordance with BS EN 13964:2004, Suspended Ceilings – Requirements and Test Methods, Annex D.

Strong Sound M: Designed to resist mild impacts. Installation is suggested in higher level areas where impact abuse is unlikely.

Operating Temperature

Strong Sound is compatible with all normal building temperatures.

Fire Performance

The steel panels comply with the Class "O" requirements of Building Regulations when tested to BS476: Part 6 1981 and Part 7 1987. The mineral wool in Strong Sound panels is non-combustible when tested in accordance with BS476: Part 4: 1970 (1984).

Thermal conductivity (standard infill): 0.033W/mk @ 10°C

APPLICATIONS

- Offices
- Meeting Rooms
- Hotels
- Conference Centres
- Leisure Centres
- Schools
- Restaurants
- Showrooms



Strong Sound

Acoustic Performance

Product	Thickness mm	Sound Absorption Co-efficient (tested to BS EN ISO 354)					
		125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz
Strong Sound M	30	0.05	0.39	1.00	1.00	1.00	1.00
	50	0.20	0.63	1.00	1.00	1.00	1.00
	75	0.39	0.76	1.00	1.00	1.00	1.00
	100	0.48	0.84	1.00	1.00	1.00	1.00
Strong Sound P	30	0.08	0.42	1.00	1.00	1.00	1.00
	50	0.29	0.68	1.00	1.00	1.00	1.00
	75	0.50	0.81	1.00	1.00	1.00	1.00
	100	0.61	0.88	1.00	1.00	1.00	1.00

The figures quoted are when Strong Sound is applied directly to a wall or ceiling.

Dimensions and Weight

Product	Thickness mm	Length mm	Width mm	Weight kg/m ²
Strong Sound M	30	2500	306	5
	50	2500	266 and 475	7
	75	2500	425	8
	100	2500	375	9
Strong Sound P	30	2500	306	6
	50	2500	266 and 475	9
	75	2500	425	10
	100	2500	375	11

Note: Other thicknesses, widths and lengths up to 3000mm are available subject to minimum order quantities. Further details available on request.

Moisture Resistance

Strong Sound panels resist high levels of humidity and suffer no harmful effects. Encapsulating the moisture resistant mineral wool within a moisture resistant film provides additional protection against water penetration. Please ask for further details.

Handling and Storage

We recommend that the Strong Sound panels are stored under cover, flat and in a well-ventilated, dry area. They should also be protected from dust and dirt. Careful handling will prevent scratching or other damage.

Application and Fixing

Colour co-ordinated metal top, bottom and end channels with concealed fixings are used to fix Strong Sound panels to walls. Further details are available on request.

Building Regulation Classification

Strong Sound M and P	Absorber Classification (When tested to BS EN ISO 11654 - 1997)
30mm	C
50mm	A
75mm	A
100mm	A

Please contact John C Wilkins for specialist advice before fixing horizontally below ceilings, soffits, etc.

**For further details, call John C Wilkins
Acoustic Installations on 01204 548400.**

APPLICATIONS

- Offices • Meeting Rooms • Hotels • Conference Centres
- Leisure Centres • Schools • Restaurants • Showrooms

JOHN C WILKINS ACOUSTIC SUPPLIES

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