sound reduction systems
Manufacturers of Acoustic Insulation Products

Acoustic Wall System Datasheet

maxiboard

High performance acoustic building board

Masonry Wall Datasheet

Maxiboard

- ✔ *Improves airborne sound insulation*
- ✔ *Meets Part E of the building regulations*
- ✔ *Takes screws and nails direct*
- ✔ *Minimal thickness*
- ✔ *Extremely durable*
- ✔ *Excellent Low Frequency Performance*

Installation

Maxiboard can be applied to most 100mm dense and lightweight blockwork or double skinned brick walls to improve the sound insulation or to meet Approved Document E (2003).

SRS Resilient Bars are fixed horizontally across the wall. A resilient bar should be placed at the top and bottom of the wall and then at 600mm centres from the bottom upwards. Where the resilient bars are applied directly to the wall, 25mm mineral fibre should be installed in between them.

The boards are fixed to the resilient bars using 3.9 x 30mm SRS Maxi screws. The existing masonry wall will need to be completely free of moisture before the Maxiboard is installed. To ensure the back of the Maxiboard is protected from moisture, it may be necessary to install a damp proof membrane. Maxiboard must be installed in a brick pattern, with staggered joints, and the utmost care should be taken to ensure there are no gaps. A bead of SRS Gripfix should be applied to the shiplap edge of the Maxiboards as they are placed together.

Where Maxiboard abuts a wall, floor or ceiling, the shiplap edge should be removed so the board sits flush to the adjunct. The edge should then be treated with a bead of SRS Acoustic Sealant to reduce sound transmission into the existing structure. Any further inconsistencies or gaps should be treated with a general purpose filler to ensure acoustic integrity.

For increased acoustic performance or to remedy any unevenness in the existing wall, 25 x 50mm timber battens should be fixed vertically at 600mm centres with 25mm mineral fibre hung between them.

The resilient bars and Maxiboard panels are fixed to the timber battens using the same fixing spacings and installation method as described above.

Building Regulations Part E – Resistance to the Passage of Sound

Dwelling-houses and flats - performance standards for walls.	Airborne sound insulation $D_{nT,w} + C_{tr}$ dB (Minimum Values)
Purpose built dwelling-houses or flats	
Walls	45
Dwelling-houses or flats formed by material change of use	
Walls	43

Rooms for residential purposes - performance standards for separating walls.	Airborne sound insulation $D_{nT,w} + C_{tr}$ dB (Minimum Values)
Purpose built rooms for residential purposes	
Walls	43
Rooms for residential purposes formed by material change of use	
Walls	43

Laboratory values for new internal walls within: dwelling-houses, flats and rooms for residential purposes, whether purpose-built or formed by material change of use.	Airborne sound insulation R_w dB (Minimum Values)
Walls	40

Maxiboard 1 side lightweight blockwork	Airborne	
	$D_{nT,w}$ (dB)	$D_{nT,w} + C_{tr}$ (dB)
	52	47

Maxiboard either side lightweight blockwork	Airborne	
	$D_{nT,w}$ (dB)	$D_{nT,w} + C_{tr}$ (dB)
	60	49

Tests carried out by Noise Control Services 08/11/05, 11/11/05. Measured according to BS EN ISO 140-4:1998. Rated to BS EN ISO 717:1 1997. Test reference nos. NCS 11056/5, 11056/2.

Fire properties:

Fire propagation BS 476:Part 6: 1989 Class 0

Surface spread of flame:

BS 476:Part 7: 1997 Class 1

Maxiboard Dimensions:

Size = 1200 x 600mm (nominal)

Thickness = 17mm

Weight = 24kg/m^2

Cutting:

Best cut using circular saw with dust extraction fitted. Can also be cut using a jigsaw or hand saw fixed with a heavy duty blade.

Storage: Maxiboard must be laid flat and kept dry. Maxiboard should only be stored on site if the building has been sealed and is completely dry.

Patents & Trademarks

'Maxiboard' and 'Acoustilay' are registered trade names of Sound Reduction Systems Ltd. Both are patented products.

Maxiboard Patent No: GB2375358

Acoustilay Patent No: GB2287086

SRS Gripfix

SRS Acoustic Sealant

SRS Maxi Screws

Maxi Resilient Bar = 3m

Maxiboard Accessories

SRS Acoustic Sealant = 900ml tube

Resilient Bars = 3000mm x 120 x 30mm

SRS Gripfix = 310ml tube

SRS Maxi Screws = 3.9 x 30mm

Finishing & Plastering Maxiboard

We recommend that plasterboard be fitted over the Maxiboard and finished according to manufacturer's instructions.

SRS Ltd Acoustic Insulation Datasheets

Sound Reduction Systems Ltd are experts in all areas of sound insulation. For further information on their range of products and systems for reducing sound transmission in buildings and meeting the acoustic requirements of the Building Regulations Approved Document E, please see the following datasheets, which are easily obtained by calling **01204 380074** or downloading from **www.soundreduction.co.uk**.

Ceilings:

- Maxi 60 Ceiling System
- Maxiboard beneath existing plasterboard
- Maxiboard beneath concrete beam and block
- Maxiboard on a British Gypsum MF ceiling

Walls:

- Maxi HP Partition System
- Maxiboard installed with new/existing stud

Floors:

- Acoustilay
- Maxideck
- SubPrimo

If you are unsure of which product or system you require, please contact our industry leading technical department on Tel: **01204 380074** or email **info@soundreduction.co.uk** for free, friendly advice.

Institute of Acoustics sponsoring organisation

sound reduction systems

Manufacturers of Acoustic Insulation Products

Sound Reduction Systems Ltd

Adam St, Off Lever St, Bolton BL3 2AP

Tel: +44 (0)1204 380074 · Fax: +44 (0)1204 380957

E-mail: info@soundreduction.co.uk

Web: www.soundreduction.co.uk

Site conditions and installation standards vary. SRS cannot take responsibility for the performance of any installed system of which SRS products are only a part, or that have been installed incorrectly. Prior to installation, it is necessary to identify and eliminate possible flanking paths that may compromise the acoustic performance of any SRS product.