



Maxiboard Ceiling fitted under a Beam and Block concrete floor

High Performance Acoustic Building Board

Maxi Beam and Block Datasheet

- ✓ Meets Part E of the Building Regulations for **BOTH** airborne and impact noise
- ✓ Achieves 1 hour fire rating
- ✓ Easy to accommodate different ceiling heights
- ✓ Minimal thickness
- ✓ Extremely durable

Installation

Maxiboard ceilings can be installed beneath a beam and block floor structure to minimise both airborne and impact noise.

Prior to grouting between the blocks, 50mm softwood battens are fitted to the beams at 600mm centres using screw fittings through proprietary ceiling clips. Resilient bars are fixed at 90° to the softwood battens, across the full width of the ceiling. They are secured at the extremities of the ceiling, and every 400mm in between, commencing from one edge. 50mm, 45kg/m³ mineral wool slabs are friction fitted between the battens and behind the resilient bars.

Maxiboard panels are fixed to the resilient bars using 30mm x 3.9mm Maxi HP screws. The panels are secured in a staggered half panel overlaps. The shiplap edge is removed where Maxiboard abuts perimeter walls, leaving a ~5mm isolation/expansion gap around the perimeter. This is sealed with a bead of flexible Acoustic Sealant. Where each sheet of Maxiboard crosses a resilient bar, there are to be at least three screws fixing the board to each resilient bar, typically positioned at the midpoint and 20mm from the edges.

Care should be taken to ensure that a precast concrete edge beam or is specified to break the vertical continuity of wall leaves. The inner leaf of the external walls must be at least 1850kg/m². Also, the screed must properly isolated from the structure and all perimeters using a suitable resilient layer such as *Impactafoam* from SRS. The ceiling must be installed prior to any wall linings being fitted.



Building Regulations Part E – Resistance to the Passage of Sound

Dwelling-house and flats – Performance standards for separating floors, and stairs that have a separating function

	Airborne Sound Insulation $D_{nT,w} + C_{tr}$ dB (minimum values)	Impact Sound Insulation $L_{nT,w}$ dB (maximum values)
--	---	--

Purpose built dwelling houses or flats

Floors and Stairs	45	62
-------------------	----	----

Dwelling-houses or flats formed by material change of use

Floors and Stairs	43	64
-------------------	----	----

Rooms for residential purposes – performance standards for separating floors and stairs

	Airborne Sound Insulation $D_{nT,w} + C_{tr}$ dB (minimum values)	Impact Sound Insulation $L_{nT,w}$ dB (maximum values)
--	---	--

Purpose built rooms for residential purposes

Floors and Stairs	45	62
-------------------	----	----

Rooms for residential purposes formed by material change of use

Floors and Stairs	43	64
-------------------	----	----

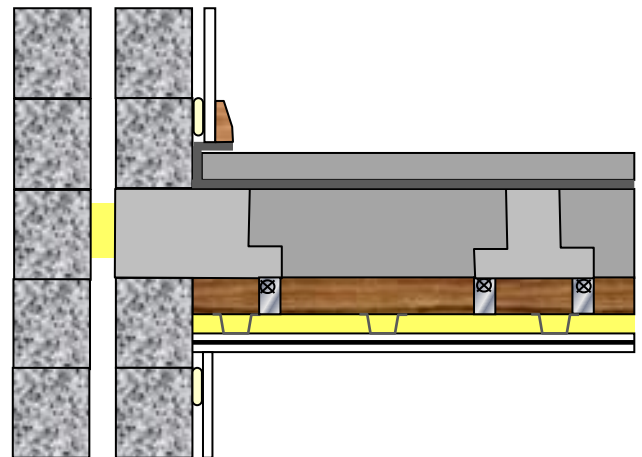


Diagram for illustration only, block design will vary depending on manufacturer.

Maxi Beam and Block Solution

	Airborne		Impact
	$D_{nT,w}$ dB	$D_{nT,w} + C_{tr}$ dB	$L_{nT,w}$ dB
	51	47	52

Acoustic tests carried out by SRS Ltd in accordance with BS EN ISO 140 parts 4 and 7 a rated to ISO 717 parts 1 and 2, test references EXET03-04.



Fire properties:

Fire propagation BS 476:Part 6: 1989 Class 0

Surface spread of flame:

BS 476:Part 7: 1997 Class 1

MAXI Beam and Block CEILING SYSTEM

Achieves 1 hour when tested to BS EN 1365-2:2000 (actual time achieved 133 minutes).

Maxiboard Dimensions:

Size = 1200 x 600mm (nominal)

Thickness = 17mm

Weight = 24kg/m²

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.



Resilient Bars



SRS Gripfix



SRS Acoustic Sealant



Maxi HP Screws

Maxiboard Accessories

Resilient Bars = 3000mm x 120 x 30mm

SRS Gripfix = 310ml tube

SRS Acoustic Sealant = 900ml tube

Maxi HP Screws = 3.9 x 30mm

Finishing & Plastering Maxiboard

12.5mm fire rated plasterboard must 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 our 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 Datasheets:

- Maxiboard beneath existing plasterboard / lath and plaster
- Maxiboard on a British Gypsum MF ceiling
- Maxi60 Ceiling

Walls Datasheets:

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

Floors Datasheets:

- Acoustilay • Maxideck • SubPrimo

Free, Friendly Advice

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.

Patents & Trademarks

'Maxiboard' is a registered trade name of Sound Reduction Systems Ltd, and is a patented product.
Maxiboard Patent No: GB2375358



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