



High performance acoustic building board

Maxi HP Partition Datasheet

Maxi HP Partition – 1 Hour Fire Rated

- ✓ *High acoustic performance*
- ✓ *Meets Part E of the building regulations*
- ✓ *Quickly and easily installed*
- ✓ *Cost effective and time efficient*
- ✓ *Can be installed in kitchens and bathrooms*
- ✓ *Suitable for new build and conversion*

Installation

Prior to installation, the self adhesive Maxi HP felt is applied to the recess on the outside of the floor channel. The floor and soffit tracks are then secured prior to fitting Maxi studs, which are positioned at 600mm centres. Please note the studs are not secured to the floor and soffit channels.

All stud mesh profiles are fitted in same direction. 50mm mineral slab, of nominal 590mm width, is placed within the stud cavity. Maxiboard panels are then fixed to the studs in a brick pattern with half panel overlap, using 3.9 x 30mm SRS Maxi screws.

The partition is constructed with the 10mm lighter coloured gypsum side of the board facing outwards, unless specification requirements determine otherwise, ready to be overboarded with a standard plasterboard. Fixings are at a maximum of 250mm centres with the lowest fixing not greater than 30mm from the floor and the uppermost fixing at 60mm from the head. All fixings are positioned at 20mm from the edge of the Maxiboard. The uppermost Maxiboard panels are fitted 5mm short of the perimeters, with a bead of intumescent sealant being used to fill this gap.

SRS Gripfix is applied to all shiplap edges of the Maxiboard panels. All face joints are filled and screw heads spotted out with a standard filler. Where Maxiboard abuts a wall, floor or ceiling, the shiplap edge should be removed so the board sits flush to the adjunct. A bead of SRS Acoustic Sealant should be applied to the edge of the Maxiboard when fitting to ensure isolation from the existing structure.

When installing a door into a Maxi HP partition you will need a door casing to suit the thickness of the partition. The total unplastered thickness is 109mm. It is also important to note that the inclusion of a door, in any partition system, will have a detrimental effect on the overall acoustic performance. For optimum acoustic performance, all sockets and switches should be surface mounted or flush fitted with SRS Acoustic Socket Boxes.

Building Regulations Part E – Resistance to the Passage of Sound

Dwelling-houses and flats - performance standards for walls.

Airborne sound insulation
 $D_{nT,w} + C_w$, 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
 $D_{nT,w} + C_w$, 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



Maxi HP Partition

Airborne
 $D_{nT,w}$ (dB) $D_{nT,w} + C_w$ (dB)

58 51

Tests carried out independently by Noise Control Services 04/08/03. Measured according to BS EN ISO 140-4:1998. Rated to BS EN ISO 717:1 1997. Test reference no. NCS 08032/3. Fire Performance: Achieved 1 hour fire resistance to BS EN 1364-1:1999 (WARRES 129082).



Fire properties:

Fire propagation BS 476:Part 6: 1989 Class 0

Surface spread of flame:

BS 476:Part 7: 1997 Class 1

MAXI HP PARTITION

Fire performance: Achieved 1 hour fire resistance to BS EN 1364-1 : 1999 (WARRES 129082). Actual results were: Integrity 72 minutes. Insulation 72 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.

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



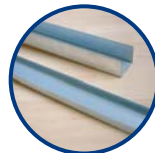
SRS Gripfix



SRS Acoustic Sealant



SRS Maxi Screws



Ceiling track



HP Stud



HP Felt

Maxi HP Accessories

HP Floor & Ceiling Track: Maxi HP Deep Ceiling Track = 4m

Maxi HP Floor Track = 4m

SRS Acoustic Sealant = 900ml tube

SRS Gripfix = 310ml tube

SRS Maxi Screws = 3.9 x 30mm

Maxi HP Stud = 75mm x 3m

Maxi HP Felt = 20m roll

Note: Other stud sizes available on request.

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:

- Maxiboard installed with new/existing stud
- Maxiboard installed on new/existing masonry

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.



sound
reduction
systems

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