



High performance acoustic building board

Maxi 60 Datasheet

Maxi 60 Ceiling – 1 Hour Fire Rated

- ✓ Improves impact & airborne sound insulation
- ✓ Meets Part E of the building regulations
- ✓ Achieves 1hr fire rating
- ✓ Takes screws and nails direct
- ✓ Minimal thickness
- ✓ Extremely durable

Installation

Maxiboard can be installed onto a ceiling in order to meet Approved Document E of the Building Regulations (2003) and also achieves 1 hours fire protection. Firstly 100mm 45kg/m³ mineral wool slabs are friction fitted between the joists. SRS Maxi Resilient Bars are then fixed to span the timber joists across the full width of ceiling, using 70mm x 5mm self-drilling screws. They are fitted at the edges of the ceiling and at a maximum of 300mm centres in between.

The Maxiboard panels are fixed into the resilient bars using 30mm x 3.9mm Maxi HP screws. Fixing must be to the resilient bar alone and not through into the timber joists. The Maxiboards are secured in a staggered half panel overlap, with the 10mm white gypsum layer facing outwards, unless specification requirements determine otherwise.

The screw fixings are at a maximum of 300mm centres, positioned 20mm from the edges of each board and at the midpoint. A bead of SRS Gripfix is applied to each panel's shiplap edge prior to installation.

Where the Maxiboard panels adjoin a perimeter wall, the shiplap edge should be removed, and a bead of SRS Acoustic Sealant applied to the edge. It is essential that no gaps occur between the Maxiboard panels.

12.5mm fire rated plasterboards are then fixed through the Maxiboard and into the resilient bars using 50mm drywall screws.

Maxi 30 Ceiling – 1/2 Hour Fire Rated

For a half hour fire rating through the ceiling, the 12.5mm fire rated plasterboard is omitted from the previously detailed Maxi 60 ceiling construction and the resilient bars need only be installed at 400mm centres. The Maxiboard panels can be fixed directly to the resilient bars using 30mm x 3.9mm Maxi HP screws.

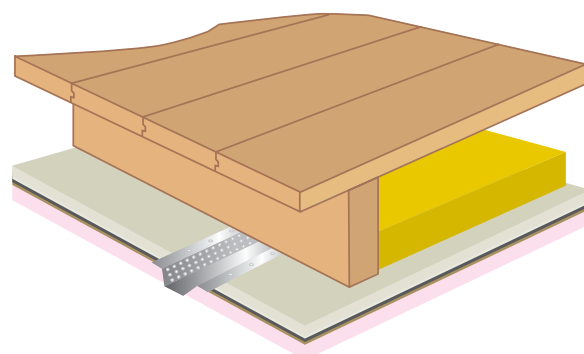
Building Regulations Part E – Resistance to the Passage of Sound

Dwelling-houses 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 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 rooms for residential purposes | | |
| Floors and Stairs | 45 | 62 |
| Rooms for residential purposes formed by material change of use | | |
| Floors and Stairs | 43 | 64 |



section through Maxi 60 ceiling

Maxi 60 Ceiling

| | Airborne $D_{nt,w}$ (dB) | Airborne $D_{nt,w} + C_{tr}$ (dB) | Impact $L_{nt,w}$ (dB) |
|--------------|-----------------------------|--------------------------------------|---------------------------|
| Maxi 60 only | 53 | 48 | 57 |

Fire performance: achieves 1 hour fire resistance to BE EN 1365-2 floor/roof (WARRES 127725).

Maxi 30 Ceiling

| | Airborne $D_{nt,w}$ (dB) | Airborne $D_{nt,w} + C_{tr}$ (dB) | Impact $L_{nt,w}$ (dB) |
|--------------|-----------------------------|--------------------------------------|---------------------------|
| Maxi 30 only | 50 | 43 | 61 |

Fire performance: achieves 1/2 hour fire resistance to BE EN 1365-2 floor/roof (WARRES 124986).

Acoustic tests on Maxi 30/60 ceilings carried out independently by Noise Control Services 16/05/03 in accordance with ISO 140 parts 4 and 7. Rated to ISO 717 parts 1 and 2. Test reference numbers: 5031-5036 & 06031/1-4.



Resilient Bars



SRS Gripfix



SRS Acoustic Sealant



Maxi HP Screws

Fire properties:

Fire propagation BS 476:Part 6: 1989 Class 0

Surface spread of flame:

BS 476:Part 7: 1997 Class 1

MAXI 60 CEILING SYSTEM

Fire resistance: BS EN 1365-2: 2000

| | |
|----------------------|--------|
| Loadbearing capacity | 86 min |
| Integrity | 85 min |
| Insulation | 85 min |

MAXI 30 CEILING SYSTEM

Fire resistance: BS EN 1365-2: 2000

| | |
|----------------------|--------|
| Loadbearing capacity | 44 min |
| Integrity | 42 min |
| Insulation | 42 min |

MAXI BEAM & BLOCK SYSTEM

Fire resistance:

BS EN 1365-2: 2000

| | |
|----------------------|---------|
| Loadbearing capacity | 132 min |
| Integrity | 132 min |
| Insulation | 132 min |

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.

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

Maxi 30 Ceiling:

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

Maxi 60 ceiling:

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 beneath concrete beam and block
- Maxiboard on a British Gypsum MF 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' and 'Acoustilay' are registered trade names of Sound Reduction Systems Ltd. Both are patented products.

Maxiboard Patent No: GB2375358 Acoustilay Patent No: GB2287086



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reduction
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