



Acoustic and fire rated ceiling system to be installed directly beneath joists.

|                            |                      |      |  |
|----------------------------|----------------------|------|--|
| Uniclass<br>L586+L542:N372 | EPIC<br>E42+E512:Y45 |      |  |
| CI/SfB<br>(43)+(45)        | R+T                  | (P2) |  |

A SOUND REDUCTION SYSTEMS PRODUCT

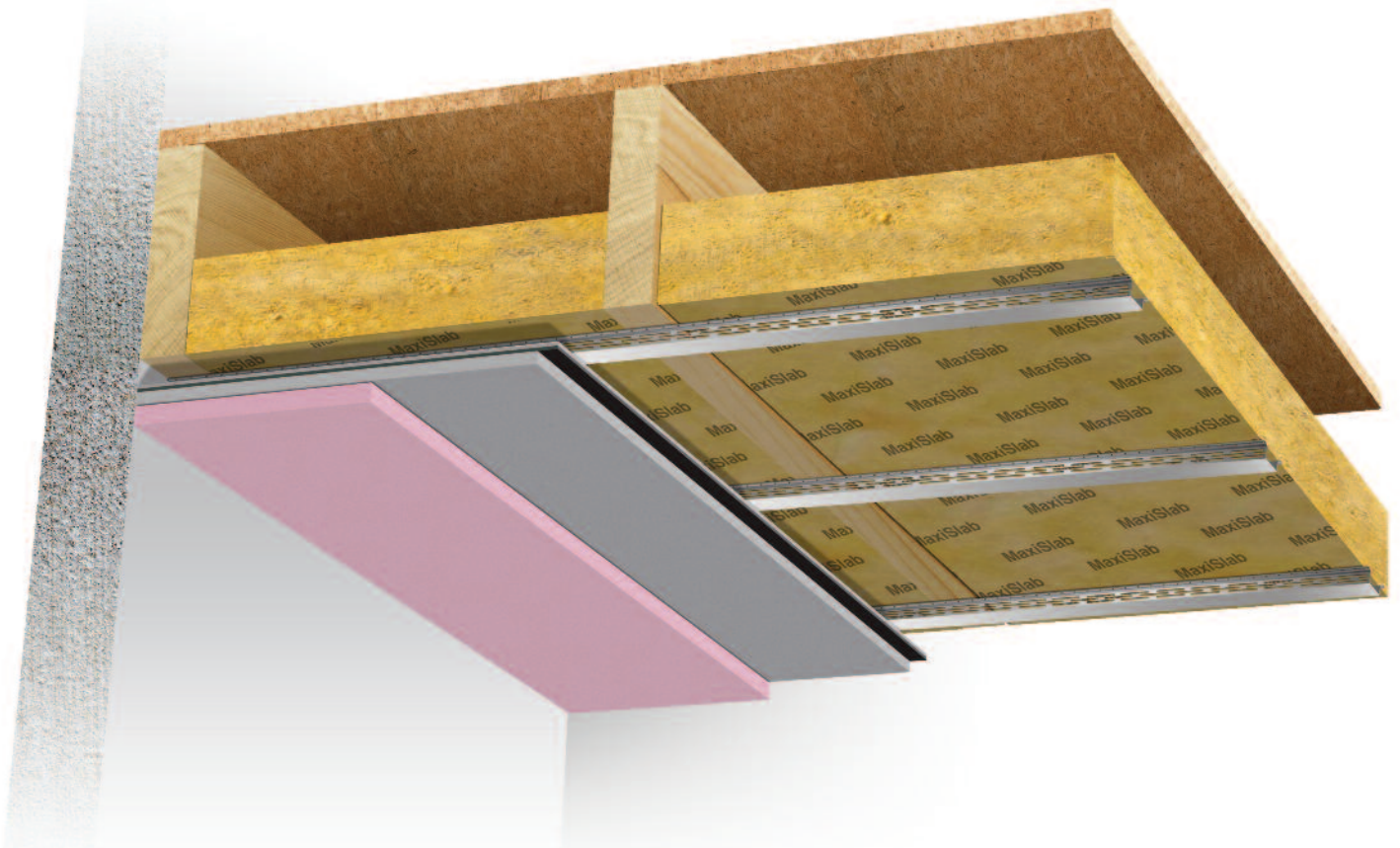
## MAXI 60 CEILING: HIGH PERFORMANCE ACOUSTIC AND FIRE RATED CEILING SYSTEM DESIGNED TO MEET PART E OF THE BUILDING REGULATIONS WITHOUT THE NEED FOR ADDITIONAL FLOOR TREATMENTS.

Maxiboard is an extremely high performance and versatile acoustic building board. Maxiboard can be used as an alternative to plasterboard to dramatically increase the acoustic performance of both existing and newly constructed walls and ceilings.

The Maxi 60 ceiling system is ideal in situations where Building Regulations Part E compliance is required along with a 1 hour fire separation. Simply installed below the joists, the Maxi 60 ceiling system requires no additional floor treatment and, at only 60mm deep, minimises loss of room height.

### KEY BENEFITS:

- Improves impact and airborne sound insulation performance
- Meets Part E of the Building Regulations
- Achieves 1hr fire rating
- Takes screws and nails direct
- Minimal thickness 60mm
- Extremely durable and robust
- Suitable for refurb, conversion and new build projects performance
- Suitable for domestic, commercial and industrial environments
- Noisy neighbour solution



ACOUSTIC & FIRE RATED CEILING SYSTEM

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## INSTALLATION GUIDANCE

### MAXI 60 CEILING – 1 HOUR FIRE RATED

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 Maxislab is 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 SRS Maxi Resilient Bars using 30mm x 3.9mm SRS Maxi Screws. Fixing must be to the SRS Maxi 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 Maxiboards should be fixed to every resilient bar along their length. The screw fixings should be at a maximum of 300mm centres and no closer than 20mm to the edge of the board. 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 Maxi Resilient Bars using 50mm drywall screws.

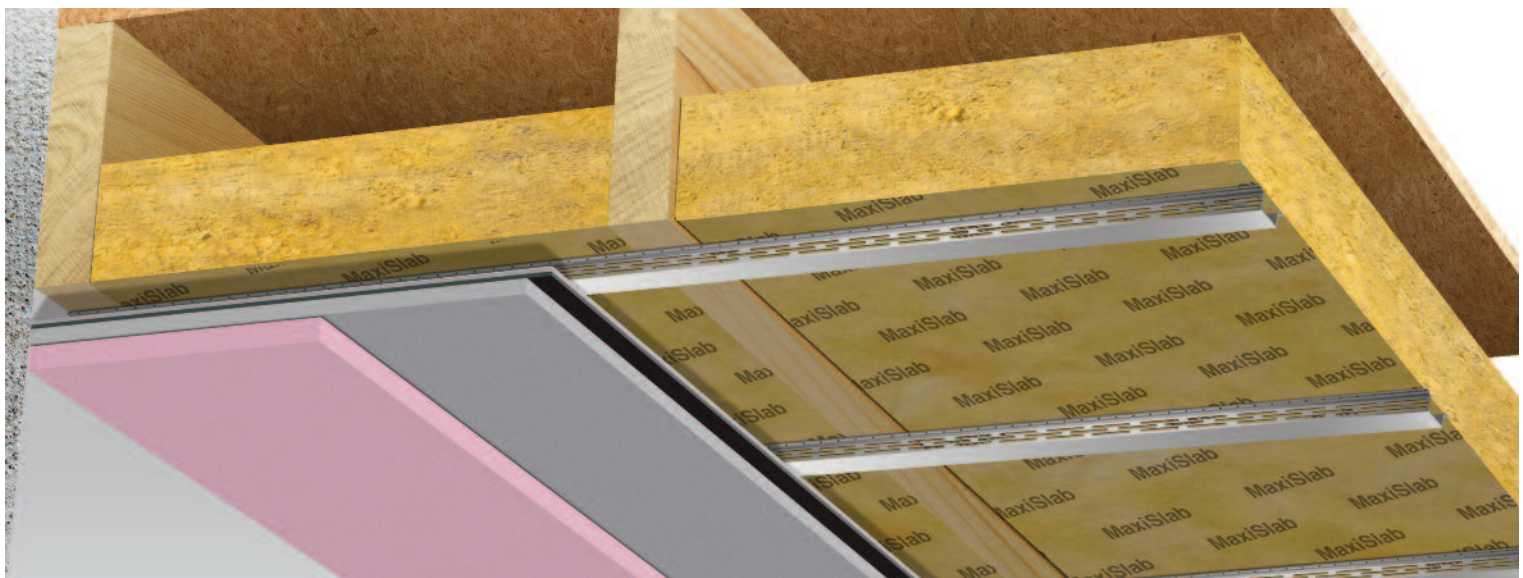
### MAXI 30 CEILING – 1/2 HOUR FIRE RATED

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 Maxi Resilient Bars need only be installed at 400mm centres. The Maxiboard panels can be fixed directly to the Maxi Resilient Bars using 30mm x 3.9mm SRS Maxi Screws.

## HANDLING

Maxiboard is a very heavy product (17.28kg per sheet). Please exercise caution when lifting and installing. The HSE can provide information and guidance on the lifting and handling of heavy goods [www.hse.gov.uk](http://www.hse.gov.uk)

Maxi 60 Ceiling – shiplap edge detail.



## ACOUSTIC DATA

### 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<br>$D_{nT,w} + C_{tr}$ dB<br>(minimum values) | Impact Sound Insulation<br>$L'_{nT,w}$ dB<br>(maximum values) |
| Purpose built dwelling-houses or flats<br>Floors + Stairs  | 45  | 62  |
| Dwelling-houses or flats formed by material change of use<br>Floors + Stairs   | 43  | 64  |

| Rooms for residential purposes - performance standards for separating floors, and stairs that have a separating function. |   |   |
|---|---|---|
|   | Airborne Sound Insulation<br>$D_{nT,w} + C_{tr}$ dB<br>(minimum values) | Impact Sound Insulation<br>$L'_{nT,w}$ dB<br>(maximum values) |
| Purpose built rooms for residential purposes<br>Floors + Stairs   | 45  | 62  |
| Rooms for residential purposes formed by material change of use<br>Floors + Stairs  | 43  | 64  |

## ACOUSTIC PERFORMANCE

| Maxi 60 Ceiling |                             |                          |                            |
|-----------------|-----------------------------|--------------------------|----------------------------|
|                 | Airborne<br>$D_{nT,w}$ (dB) | $D_{nT,w} + C_{tr}$ (dB) | Impact<br>$L'_{nT,w}$ (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<br>$D_{nT,w}$ (dB) | $D_{nT,w} + C_{tr}$ (dB) | Impact<br>$L'_{nT,w}$ (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.



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## PHYSICAL PROPERTIES AND ACCESSORIES

**Fire properties:** Fire propagation BS 476:Part 6: 1989 Class 0

**Surface spread of flame:** BS 476:Part 7: 1997 Class 1

| MAXIBOARD | SIZE                 | THICKNESS | WEIGHT              |
|-----------|----------------------|-----------|---------------------|
|           | 1200x600mm (nominal) | 17mm      | 24Kg/m <sup>2</sup> |

| MAXI 60<br>FIRE RESISTANCE:<br>BS EN 1365-2: 2000 | LOADBEARING CAPACITY | INTEGRITY | INSULATION |
|---|----------------------|-----------|------------|
|   | 86 min               | 85 min    | 85 min     |

| MAXI 30<br>FIRE RESISTANCE:<br>BS EN 1365-2: 2000 | LOADBEARING CAPACITY | INTEGRITY | INSULATION |
|---|----------------------|-----------|------------|
|   | 44 min               | 42 min    | 42 min     |

| MAXI BEAM & BLOCK<br>FIRE RESISTANCE:<br>BS EN 1365-2: 2000 | LOADBEARING CAPACITY | INTEGRITY | INSULATION |
|---|----------------------|-----------|------------|
|   | 132 min              | 132 min   | 132 min    |

**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   | DETAILS                                  |
|-------------------------|--|
| SRS Gripfix             | 310ml Tube                               |
| SRS Acoustic Sealant    | 900ml Tube                               |
| SRS Maxi Resilient Bars | 3000mm x 120 x 30mm                      |
| SRS Maxi Screws         | 3.9 x 30mm                               |
| Maxislab 100            | 45kg m <sup>3</sup> / 1200 x 600 x 100mm |

## 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.

## 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

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

## MAXIBOARD DATASHEETS

The versatility of Maxiboard means it can be used in a wide range of configurations on both walls and ceilings. The datasheets for the various systems below can be obtained by calling **01204 380074** or downloaded from [www.soundreduction.co.uk](http://www.soundreduction.co.uk)

### Ceilings:



**MAXI 60 CEILING:** Acoustic and fire rated ceiling system to be installed directly beneath joists.



**MAXI DROPPED CEILING:** Acoustic ceiling system designed to be installed beneath existing ceilings to minimise disruption.



**MAXI BEAM & BLOCK:** Acoustic and fire rated ceiling system designed to be installed beneath concrete constructions.



**MAXI MF:** Acoustic ceiling system designed to be installed on a British Gypsum MF grid to create larger voids for services etc.

### Walls:



**MAXI MASONRY WALLS:** Acoustic lining for masonry walls.



**MAXI TIMBER STUD:** Acoustic lining for timber frame walls.



**MAXI HP PARTITION:** Extremely high performance acoustic and fire rated partition system.



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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.

