

Trim Acoustics

Acoustic Walls & Ceilings

Maxiboard

Maxiboard is a high performance acoustic building board. Designed to reduce sound transmission through new or existing ceilings and walls. Maxiboard can provide maximum sound protection in both domestic and commercial applications. Maxiboard is constructed of cement and gypsum with a polymeric core. The composite produced is a very strong, high impact resistant board, suitable for taking screws and fixings direct. At only 17mm thick Maxiboard offers maximum performance for minimum thickness. When mounted on Isolation Bars, Maxiboard can provide a high performance ceiling and wall system for both Sound and Fire

Benefits

- Document E solution for walls & ceilings
- Quickly and easily installed
- Can be used to form an independent structure
- Can be used to form enclosures
- Can take screws and nails direct
- Extremely durable
- Minimal thickness, only 17mm
- Moisture resistant
- Class 0 fire rating
- Easy and clean to handle (sheet size:1200 x 600m)

Performance

| Product | Airborne | |
|---------|------------|---------------------|
| | $D_{nT,w}$ | $D_{nT,w} + C_{tr}$ |

Maxiboard 1 side - lightweight blockwork

| | | |
|----------------|------|------|
| Maxiboard Wall | 52dB | 47dB |
|----------------|------|------|

Maxiboard both sides-lightweight blockwork

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|----------------|------|------|
| Maxiboard Wall | 60dB | 49dB |
|----------------|------|------|

Maxiboard on resilient bars - partition

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|----------------|------|------|
| Maxiboard Wall | 54dB | 45dB |
|----------------|------|------|

Maxi HP Partition System

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|----------------|------|------|
| Maxiboard Wall | 58dB | 51dB |
|----------------|------|------|

| Product | Airborne | Impact |
|---------|---------------------|-----------|
| | $D_{nT,w} + C_{tr}$ | L_{nTw} |

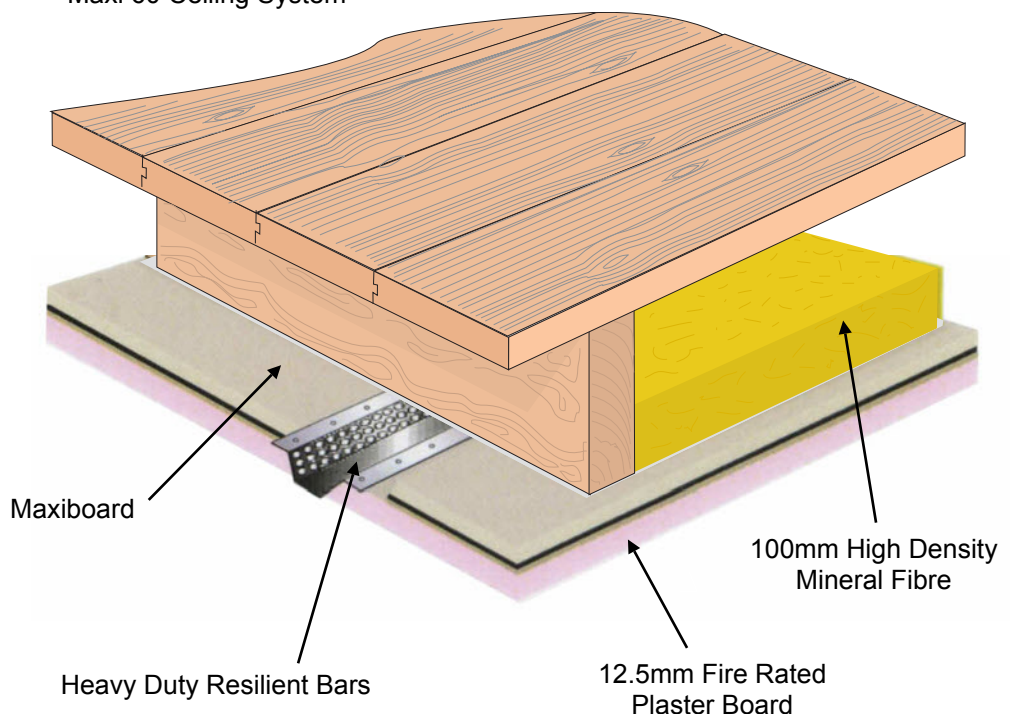
Maxi 30 Ceiling system

| | | |
|-------------------|------|------|
| Maxiboard Ceiling | 43dB | 61dB |
|-------------------|------|------|

Maxi 60 Ceiling system

| | | |
|-------------------|------|------|
| Maxiboard Ceiling | 48dB | 57dB |
|-------------------|------|------|

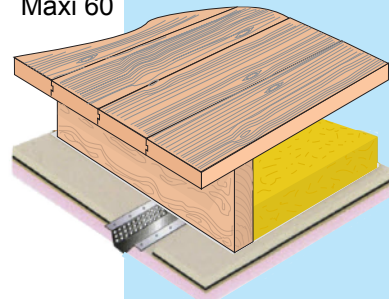
Maxi 60 Ceiling System



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 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 60



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.

Maxiboard on stud walls

Should the plasterboard remain on the studwork it should be removed from one side of the partition and the area between the existing studs filled with a 50mm mineral fibre. SRS Resilient bars should then be placed at the top and bottom of the wall and then at 600mm centres from the bottom upwards. The boards are fixed to the resilient bars using 3.9 x 30mm SRS Maxi screws. 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. If the plasterboard on the other side of the studwork is in good condition it can remain, with an extra layer of 12.5mm fire rated plasterboard fixed directly through the existing plasterboard, into the studwork. If the existing boards are damaged, they should be replaced by two layers of 12.5mm fire rated plasterboard, with offset joints for best results. For the Optimum acoustic performance any sockets or switches that need to be installed on the Maxiboard wall should be surface mounted, or flush fitted using SRS Acoustic Socket Boxes.



Maxiboard on masonry walls

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.

