

Maxiboard

Maxiboard



Multipurpose
Acoustic Building Board
For Walls

SRS



The Benefits

Improves acoustic performance of heavy block walls by up to 14dB

Quickly and easily installed on walls, floors and ceilings.

Can be used to form an independent structure

Can be used to form enclosures

Can take screws and nails direct

Extremely durable

Forms a smooth surface for plastering and painting

Minimal thickness, only 17mm

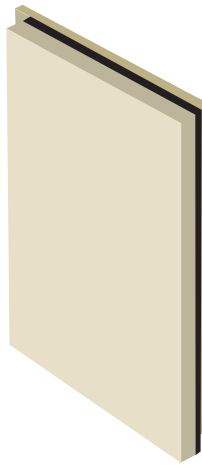
Easy and clean to handle

Moisture resistant

Class 0 fire rating

Introduction

Maxiboard is a high performance acoustic building board. Suitable for use wherever the passage of sound needs to be attenuated, **Maxiboard** is ideal for reducing sound transmission through new or existing walls and floors within buildings. **Maxiboard** can be used alongside existing structures or on its own to form independent partitions or enclosures that 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.



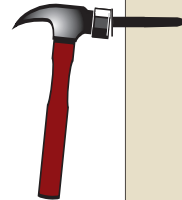
Actual thickness 17 mm

Maxiboard for all situations



A 5mm chipboard screw fixed directly into Maxiboard will take a load of 50Kg

Can take nails direct



Can take screws direct



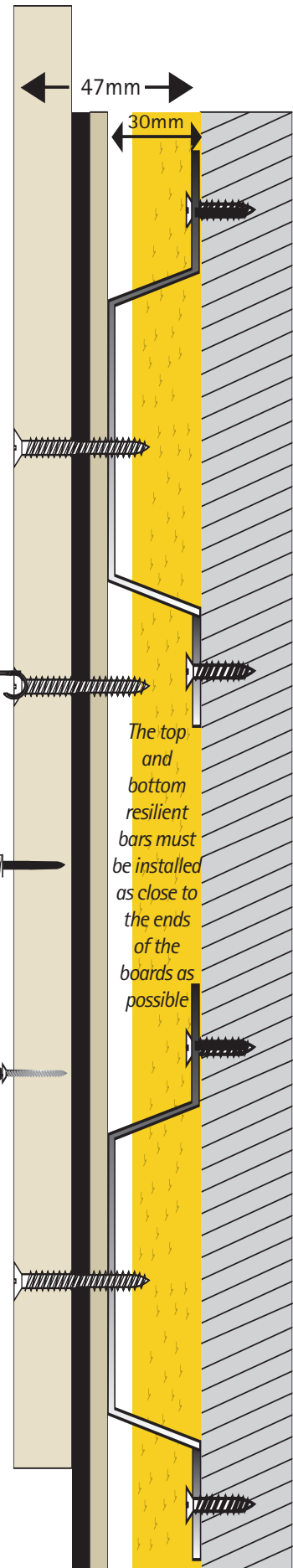
Moisture resistant



Fire resistant Class 0.



Strong and tough able to withstand hard knocks



Installation

Maxiboard can be sold as a system and is made up of the following products:

Maxiboard Panels

Resilient bars

SRS Gripfix

SRS Acoustic Sealant

SRS Socket Boxes

Upgrading Masonry Walls

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 glass fibre should be installed in between them. The **Maxiboard** panels are fixed into the resilient bars using 30 x 3.9mm Maxi HP screws. The 10mm, lighter coloured board should face outward, unless specification requirements determine otherwise. 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.

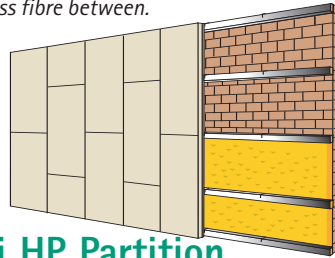
Maxiboard must be installed in a brick pattern with staggered joints and the utmost care should be taken to ensure there are no gaps. A bead of SRS Gripfix should be applied to the shiplap edge of the **Maxiboards** as they are placed together. Where **Maxiboard** abuts a wall, floor or ceiling, the 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 optimum acoustic performance, sockets and switches should be surface mounted or flush fitted using SRS Socket Boxes. Please see separate leaflet for details.

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 glass fibre hung between them. The resilient bars and Maxiboard panels are fixed to the timber battens as described above.

Upgrading Partition Walls

Resilient bars should be placed at the top and bottom of the wall and then at 600mm centres from the bottom upwards. The resilient bar fixings should penetrate the existing studwork for maximum stability. The **Maxiboards** are then installed exactly as described in the 'Upgrading Masonry Walls' section above. For optimum acoustic performance the plasterboard can be removed from one side of the partition and the cavity filled with a 50mm glass fibre partition roll. The resilient bars are then attached directly to the top and bottom of the studs and at 600mm centres from the bottom upwards. The **Maxiboard** panels are installed as previously detailed.

When fixing to timber battens these must be installed at maximum 600mm centres with 25mm thick glass fibre between.



Maxi HP Partition

Maxiboard forms a high performance acoustic partition that complies with Document E (2003) for separating walls, and also offers 1 hour fire resistance. The boards are installed with staggered joints, and are screwed direct to SRS acoustic metal studwork.

Ceilings

Maxiboard can be incorporated in a 1 hour fire rated ceiling construction which also complies with Approved Document E (2003) for sound insulation through separating floors. **Maxiboard** is fixed to resilient bars at 300mm centres, with 1 layer of fire resistant plasterboard and 100mm mineral wool slab in the cavity. Please see SRS Floors and Ceilings brochure for further details.

Housings and Casings

Maxiboard is perfect for constructing small acoustic housings for noisy machinery and services, or whole room enclosures. The durability of **Maxiboard** combined with its capacity to take direct fixings makes it simple to use as a basic building board. To add acoustic absorption to enclosures and housings **SRS Coustifoam** should be applied to the internal surfaces. (See separate leaflet).

Flooring Application

Maxiboard is ideal for increasing the airborne sound insulation of a timber floor and can be laid directly onto an existing floor in a brick pattern with staggered joints. **Maxiboard** is then screwed directly to the timber boarding forming an acoustic barrier reducing both impact and airborne sound; yet still allows full access to the existing floor.

Finishes

Maxiboard must be over boarded with a plasterboard or skimmed with plaster before decorating.

Plastering

If you don't want to have a wet trade on site, you can overboard the maxiboard with standard 9.5mm plasterboard and fill the joints. However, should you wish to skim the Maxiboard, we recommend plastering on the 10mm lighter coloured, gypsum board side of the Maxiboard. All joints should be filled with proprietary joint filler and taped, using paper tape, applied with undiluted plastering PVA. The whole surface should then be bonded with PVA, diluted according to the manufacturers recommendations. A skim coat of multi-finish may then be applied.

Painting and Decorating

When painting or wallpapering the plastered finish, the manufacturer's instructions should be followed at all times.

Accessories

Resilient Bars - Galvanised steel isolating strip used to separate the **Maxiboard** from the existing structure, enhancing its performance.

SRS Gripfix - Adhesive for use on **Maxiboard** joints.

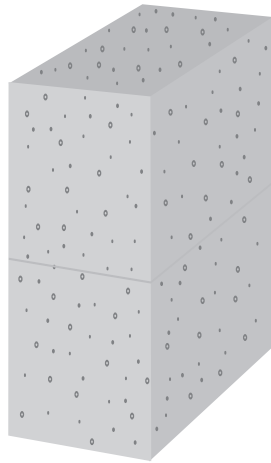
SRS Sealant - Resilient sealer for use where **Maxiboard** abuts walls, floors or ceilings.

Sockets & Switches - Any electrical sockets or switches should be surface mounted or flush fitted using Maxi socket boxes. Wires can be fed through a small hole in the **Maxiboard**, which should be sealed up with SRS Gripfix.

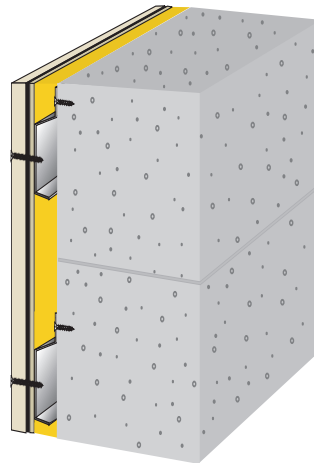
Maxibord

Acoustic Performance

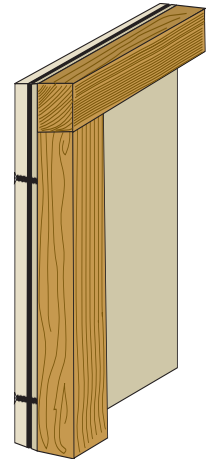
The Building Regulations require a figure for $R_w + C_{tr}$ of 43dB or higher for airborne noise between dwellings within a converted property. The higher the figure the better insulation against airborne noise, such as television, music and speech.



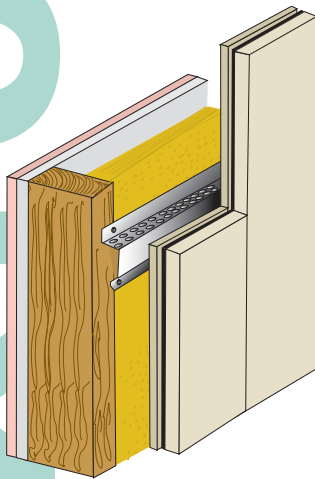
100mm thick solid kg/m ³ concrete block wall.	
R_w	
47dB	



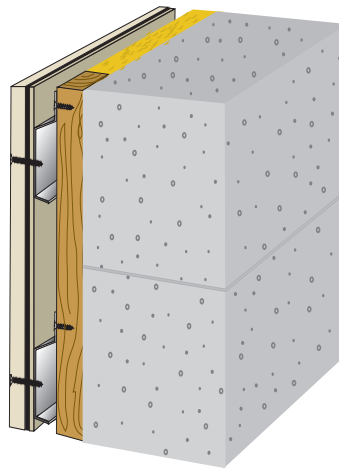
Maxibord fixed with resilient bars + 12.5mm glass fibre (in the receiving room).	
R_w	$R_w + C_{tr}$
54dB	48dB



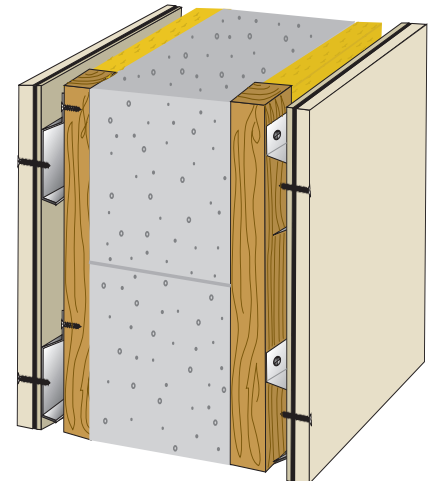
Maxibord fixed direct to one side of the timber stud.	
R_w	$R_w + C_{tr}$
39dB	35dB



Maxibord fixed on resilient bars on an existing partition.	
D_nT_w	$D_nT_w + C_{tr}$
54dB	45dB



Maxibord fixed to resilient bars / fixed to 25 x 50mm timber battens + 25mm glass fibre (average of both directions).	
R_w	$R_w + C_{tr}$
57dB	52dB



Maxibord fixed to resilient bars / fixed to 25 x 50mm timber battens + 25mm glass fibre (fixed on both sides).	
R_w	$R_w + C_{tr}$
61dB	56dB

Site conditions and installation standards vary. SRS cannot take responsibility for the performance of any installed system of which Maxibord is only a part, or that has 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 system.

For all technical details please contact SRS.



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Patent pending

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