



Maxiboard Ceiling suspended from an British Gypsum MF Grid

High Performance Acoustic Building Board

Maxi 60 MF Datasheet

- ✓ Meets Part E of the Building Regulations for **BOTH** airborne and impact noise
- ✓ Achieves 1 hour fire rating
- ✓ Suitable for use under timber or concrete floor structures
- ✓ Easy to accommodate different ceiling heights
- ✓ Minimal thickness
- ✓ Extremely durable

Installation

The Casoline MF grid is suspended at 1200mm centres, using Gyproc Soffit Cleats, to the soffit from GA1 angle suspension points. The grid may also be suspended from Gyprame GAH1 or GAH2 acoustic hangers using these specifications. If any extra loading is to be applied to the ceiling in addition to the specification described below, please contact British Gypsum to confirm the grid suspension specification.

The MF grid is constructed from MF7 channels at 600mm centres and MF5 ceiling sections are fixed perpendicular to these at 400mm centres. Dense mineral wool quilt (~45kgm³) is then laid over the top of the grid prior to the installation of the ceiling.

Maxiboard panels are attached to the MF5 ceiling sections using 30mm x 3.9mm Maxi HP screws. 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 into the MF5's using 50mm drywall screws.



Building Regulations Part E – Resistance to the Passage of Sound

Dwelling-house and flats – Performance standards for separating floors, and stairs that have a separating function

Airborne Sound Insulation	Impact Sound Insulation
$D_{nT,w} + C_{tr}$ dB	$L_{nT,w}$ dB
(minimum values)	(maximum values)

Purpose built dwelling houses or flats

Floors and Stairs	45	62
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Dwelling-houses or flats formed by material change of use

Floors and Stairs	43	64
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Rooms for residential purposes – performance standards for separating floors and stairs

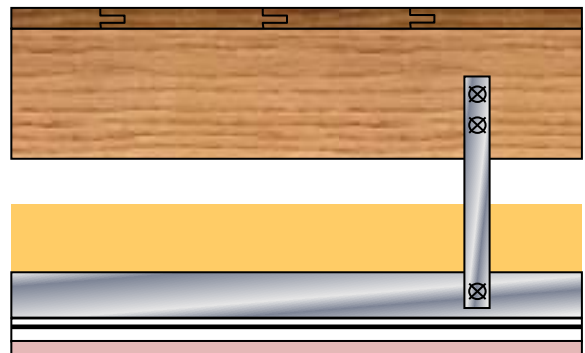
Airborne Sound Insulation	Impact Sound Insulation
$D_{nT,w} + C_{tr}$ dB	$L_{nT,w}$ dB
(minimum values)	(maximum values)

Purpose built rooms for residential purposes

Floors and Stairs	45	62
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Rooms for residential purposes formed by material change of use

Floors and Stairs	43	64
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Maxi 60 ceiling suspended from a MF Grid

Airborne		Impact
$D_{nT,w}$ dB	$D_{nT,w} + C_{tr}$ dB	$L_{nT,w}$ dB
56	49	59

Independent acoustic tests carried out by Noise Control Services Ltd in accordance with BS EN ISO 140 parts 4 and 7 a rated to ISO 717 parts 1 and 2, test references NCS 11056/4 and NCS 11056/6



Fire properties:

Fire propagation BS 476:Part 6: 1989 Class 0

Surface spread of flame:

BS 476:Part 7: 1997 Class 1

MAXI 60 MF CEILING SYSTEM

Fire resistance: The fire performance of the Maxi 60 BG MF system has been assessed as giving 60 minutes load-bearing capacity, integrity, and insulation performance by Bodycote Warrington Fire Research Centre (WF Assessment Report 168012, 25th October 2007).

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.



Resilient Bars



SRS Gripfix



SRS Acoustic Sealant



Maxi HP Screws

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

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 ceiling
- MaxiBoard beneath concrete beam and block

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' is a registered trade name of Sound Reduction Systems Ltd. MaxiBoard Patent No: GB2375358



**sound
reduction
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