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

MAXIBOARD

Acoustic and fire rated ceiling system to be installed beneath Rackham Housefloors Beam and Block Floors

A SOUND REDUCTION SYSTEMS PRODUCT

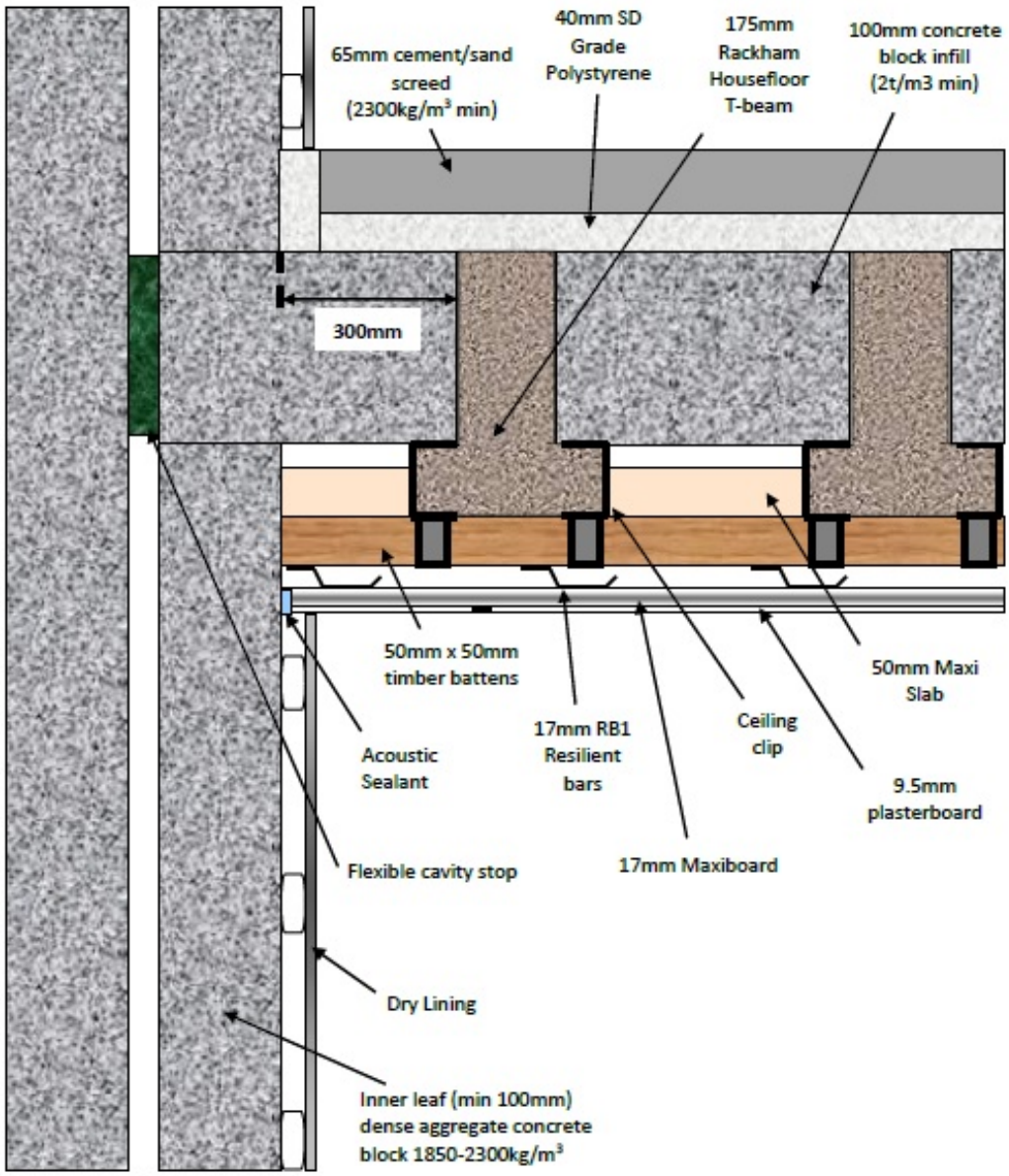
MAXI BEAM AND BLOCK CEILING: HIGH PERFORMANCE ACOUSTIC AND FIRE RATED CEILING SYSTEM

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

The Maxi Beam and Block 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 Rackham Housefloors beam and block floor, the Maxi Beam and Block ceiling system minimises loss of room height.

KEY BENEFITS:

- Meets Part E of the Building Regulations
- Achieves 1hr fire rating
- Takes screws and nails direct
- Minimal thickness
- Extremely durable and robust
- Suitable for new build projects
- Suitable for domestic, commercial and industrial environments



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INSTALLATIONGUIDANCE

MAXI BEAM AND BLOCK CEILING - 1 HOUR FIRE RATED

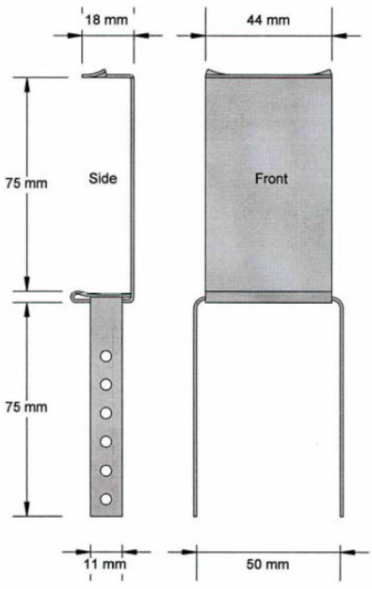
Maxiboard can be installed as a ceiling beneath a Rackham Housefloors Beam and Block Floor construction in order to meet Approved Document E of the Building Regulations (2003) and also achieve 1 hours fire protection.

Prior to grouting, softwood battens are fitted to the beams at 600mm centres. These are fixed using 45mm x 4.5mm self-drilling countersunk screws through proprietary ceiling clips. Clips are fitted both sides of each joist apart from the edges abutting side walls where access allows the use of only a single clip. Maxi Slab 50 sheets are friction fitted between the battens. RB1 resilient bars are fixed at 90 degrees to the softwood battens, across the full width of ceiling. They are secured just short of the extremities of the ceiling and at 400mm centres in between, commencing from one edge using 45mm x 4.5mm self-drilling countersunk screws. Maxiboard panels are fixed to the resilient bars using 3.9mm x 30mm Maxi Screws. Fixing must be to the resilient bar alone and not through into the timber battens. The panels are secured in a staggered half-panel overlap. The shiplap edge is removed where the Maxiboard abuts other surfaces. Acoustic sealant is applied to all cut edges. There are to be three screws along each short edge of the Maxiboard panel, positioned 20mm from the edges and at the midpoint. A bead of Gripfix is applied to each panel's shiplap edges prior to installation.

Once installed, Maxiboard should then be over boarded with standard 9.5mm plasterboard and the plasterboard should then be finished in the conventional manner.

Ceiling Clips - Technical Specification for 175mm Joist

Ceiling clips are to be fixed after the flooring blocks have been laid Report and before the final grouting of the floor. The clip is fixed in position by knocking it into the joint between the beam and the flooring block. The batten is then firmly secured by bending the two side prongs around the batten and securing with 4.5mm x 45mm screws from underneath. Clips are fitted to both sides of each beam, except for those at the edges where only one clip can be fitted for practical reasons. Battens should be fixed at both edges and at 600mm centres from one of the edges.



ACOUSTIC DATA

Building Regulations Part E - Resistance to the Passage of Sound

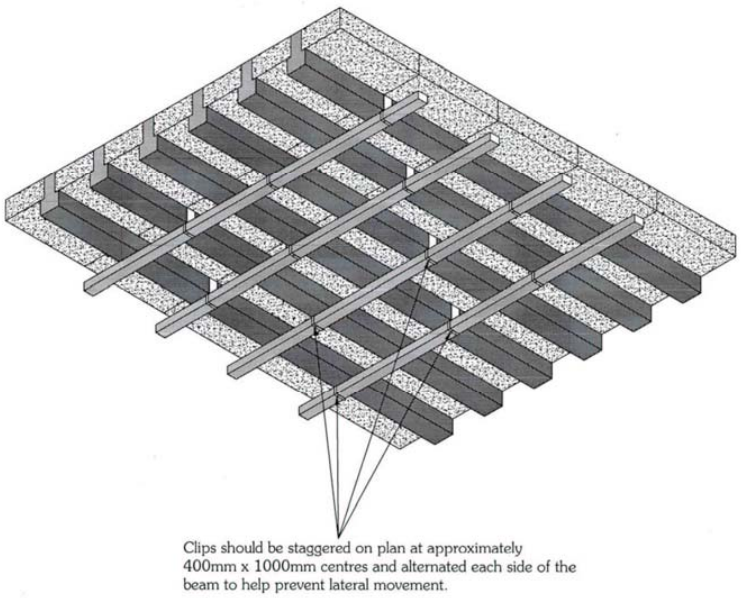
Dwelling-houses and flats - performance standards for separating floors, and stairs that have a separating function.	Airborne Sound Insulation $D_{nT,w} + C_{tr}$ dB (minimum values)	Impact Sound Insulation $L'_{nT,w}$ dB (maximum values)
Purpose built dwelling-houses or flats Floors + Stairs	45	62
Dwelling-houses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

ACOUSTIC PERFORMANCE

Maxi Beam and Block	Airborne $D_{nT,w}$ (dB)	Airborne $D_{nT,w} + C_{tr}$ (dB)	Impact $L'_{nT,w}$ (dB)
Maxi Beam and Block	51	47	52

Acoustic tests carried out by SRS Ltd in accordance with BS EN ISO 140 parts 4 and 7. Rated to BS EN ISO 717 parts 1 and 2. Test references EXET03-04



Clips should be staggered on plan at approximately 400mm x 1000mm centres and alternated each side of the beam to help prevent lateral movement.

Only a selection of ceiling clips have been shown for clarity.

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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^2

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

Fire resistance tests carried out 21/12/2004 by Warrington Fire Research Centre. WFRC Test Report No 143085

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/

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
Maxi Slab 100	45kg m^3 / 1200 x 600 x 100mm

FINISHING & PLASTERING MAXIBOARD

SRS recommend that plasterboard be fitted over 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** 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**

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 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.

SOUND REDUCTION SYSTEMS

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