dBoard { Independent Wall Lining Specification

A SOUND REDUCTION SYSTEMS PRODUCT

dBoard is a high performance and versatile acoustic building board. dBoard can be used as an alternative to plasterboard to dramatically increase the acoustic performance of existing and newly constructed walls and ceilings. The dBoard Independent Wall Lining Specification is ideal for reducing the sound transfer through separating walls in terrace and semidetached housing as well as flats and apartments. Whether you need to meet the requirements of Building Regulations Part E or are looking for increased comfort and privacy, dBoard will offer high performance and minimal loss of room space. Using an independent metal stud as the support structure, rather than a clip and channel system or resilient bar, means it is not necessary to drill into the wall, saving time, money, and disruption.

Key Benefits:

- Can be used to comply with Part E of the Building Regulations
- Suitable for New build, change of use, and refurbishment projects
- Built-in MLV damping layer – no additional membranes required
- Noisy neighbour solution

Installation Guidance:

The dBoard Independent acoustic wall lining can be applied to existing and newly constructed masonry wall constructions to meet Part E of the Building Regulations or to improve domestic comfort/privacy.

Firstly, a framework should be built using Protektor ECO or DIN 50mm metal studwork (or equivalent) with associated floor and ceiling channels. The floor and ceiling channel should be isolated using SRS Impactafoam self-adhesive strips. The studs should have a minimum 10mm isolation gap away from the masonry wall that is being upgraded for isolation.

Maxi Slab 50 should be friction- fitted between the studs for absorption within the cavity.

dBoards are then fixed to the metal studs using 3.9x30mm Maxi screws. The black barrier of the dBoard should face into the room. dBoard should be installed in a brick-bond pattern, with staggered joints, and the utmost care should be taken to ensure there are no gaps.

15mm Soundshield Plus plasterboard (or equivalent) should then be installed over the dBoard using appropriate fixings.

Where the wall lining abuts a wall, floor or ceiling, the edges of the dboard and plasterboard should finish 3-5mm away from the surface and this gap should be treated with a bead of SRS Acoustic Sealant. This helps to improve airtightness and reduce sound transmission into the existing structure.

Part E Requirements:

Dwelling-houses and Flats - Performance Standards for Walls that have a Separating Function	
	DnT,w + Ctr dB (Min)
Purpose built dwelling-houses or flats - Walls	45
Dwelling-houses or flats formed by material change of use - Walls	43
Rooms for Residential Purposes - Performance Standards for Walls that have a Separating Function	
	DnT,w + Ctr dB (Min)
Purpose built Rooms for Residential Purposes - Walls	45
Rooms for Residential Purposes formed by material change of use - Walls	43

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Acoustic Performance:

Acoustic Performance – dBoard Independent Masonry Wall Lining • 100mm thick H H Celcon Standard Block (600kg/m³) • 10mm air-gap • 50mm deep Protektor ECO metal studwork • 13mm SRS dBoard • 15mm Soundshield Plus Plasterboard		
Airborne	$D_{nT,w}$	$D_{nT,w}+C_{tr}$
100mm thick Lightweight Block Wall (600kg/m³)	38dB	35dB
dBoard Independent Masonry Wall Lining	55dB	52dB
Improvement	**+17dB**	**+17dB**

Tests carried out in accordance with BS EN ISO 140 Part 4 and rated to BS EN ISO 717 Parts 1 and 7 by Spratt and Hamer (UKAS). Test references: 14348S-9 and 23113S-1

Note: Building Regulations Approved Document E (England and Wales) uses a unit of measurement for airborne sound insulation which places much more emphasis on low frequency performance. Due to the inherent difficulties of measuring low frequency noise, a significant tolerance on the accuracy of airborne sound test results should be expected. Site conditions and workmanship can also limit reproducible results and therefore the above should be viewed as indicative of performance only.

Physical Properties and Accessories:

dBoard	SIZE	THICKNESS	WEIGHT
	1180 x 580mm	13mm	19kg/m²

Accessories:

ACCESSORIES
SRS Acoustic Sealant
Maxi Screws
SRS Acoustic Socket Boxes
Impactafoam 50mm x 5mm self-adhesive strips
Protecktor ECO/DIN 50mm Metal Studs and floor/ceiling tracks

Storage:

dBoard must be laid flat and kept dry. dBoard should only be stored on site if the building has been sealed and is completely dry.

Cutting:

dBoard is best cut using a circular saw with dust extraction fitted, however, it can also be cut using a handsaw or a jigsaw with a heavy-duty blade fitted for small areas.

Handling:

dBoard is a heavy product (13kg per 1180 x 580mm board). Please exercise caution when lifting and installing. HSE provide guidance on the lifting and handling at www.hse.gov.uk.

Finishing:

We recommend that 15mm Soundshield Plus plasterboard (or equivalent) be fitted over the dBoard and finished according to manufacturer's instructions.

General Notes:

Any plasterboard on dabs should be removed prior to the installation of dBoard. The existing masonry wall needs to be completely free of moisture before the dBoard is installed. To ensure the back of the product is protected from moisture, it may be necessary to install a damp proof membrane.

VISIT OUR WEBSITE TO REQUEST YOUR FREE QUOTATION

We offer free, no obligation quotes for all our acoustic products and systems. Please visit **www.soundreduction.co.uk/quote** to submit your details and we will normally get back to you within 24 hours.

Other SRS Wall Lining Systems:

WallArmour dB is a cost-effective, direct-to-wall sound insulation solution for masonry and blockwork walls in domestic projects. WallArmour dB is a low profile, high-mass laminated wall lining product

The Maxiboard Masonry Wall Specification is a high-performance acoustic system designed to meet the sound insulation requirements of Building Regulations Part E. Maxiboard, the core product within the specification, is an extremely high-performance and versatile acoustic building board. The Maxiboard Masonry Wall Specification offers the maximum performance in the minimum thickness.

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