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One of the isomass systems range

isocheck™

Isowave 23 System for walls



AIRBORNE AND FLANKING NOISE IMPROVEMENT SYSTEM

- Refurbishments, Domestic Upgrade
- Conversions
- New Build

Independently laboratory tested

Institute of Acoustics Sound•Noise•Vibration 1974-2024 Sponsoring Organisation

MADE IN THE UK

QAS International ISO 9001:2015 REGISTERED COMPANY

Taking the *mystery* out of Acoustics

DESCRIPTION

- The Isowave 23 system can be used for the treatment of excessive flanking sound that bypasses a separating floor via lightweight structural walls.
- The Isowave 23 system can also be used as a means of reducing nuisance noise emanating from neighbouring properties.
- Isowave 23 consists of a 10mm thick acoustic foam compliant with to BS 4443 and BS EN ISO 845:2009 bonded to 12.5mm high density, square edged fibre-reinforced gypsum board.
- When incorporated within a wall construction as detailed, Isowave 23 will individually achieve ½ hour fire protection.

APPLICATIONS

- To construct or upgrade separating and external walls for conversions and refurbishments.
- To upgrade separating and external walls in conversion and newbuild projects or where noise nuisance is prevalent.



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acoustic insulating products

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Isowave 23 system for walls

Product data

Overall board size:	Circa 1197 x 597 x 22.5mm
Resilient layer:	10mm
Board density:	1300 Kg/m^3
Foam density:	less than 90kg/m^3
Weight:	17.3kg/m^2
Acoustic performance:	Ceiling dependent; please contact Isomass

Performance

Reduces unwanted flanking and directly transmitted noise. Can be used to provide compliance with Approved Document E 2003 and subsequent amendments.

SPECIFICATION

The acoustic floor shall be:

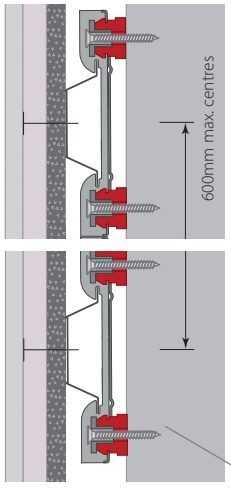
- Isocheck Isowave 23, supplied by Isomass Ltd. Unit 14 Papworth Business Park, Stirling Way, Papworth Everard, Cambridgeshire CB23 3GY and installed in accordance with manufacturer's instructions / recommendations.

Isowave 23 component parts perform under the following classifications:

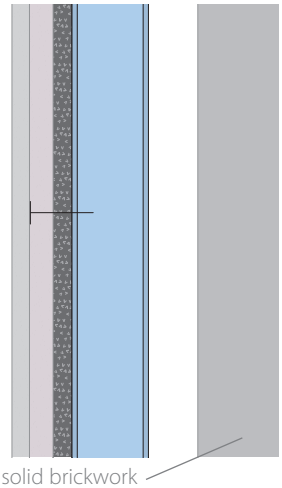
- Fire protection 30 minutes (for a single layer of board)
- BS476-7 Fire Propagation Index <12 (foam layer)
- BS476-6 Surface Spread of Flame Class 1 (foam layer)
- Building Regulations Paragraph A13 (b) Class O (spread of flame)

NB: Please contact Isomass for any fire protection-specific project

Detail 1



Detail 2



Typical Construction

Detail 1

- 12.5mm tapered-edged plasterboard with all joints taped.
- Isowave 23.
- Isoblock & Isobar system bar fitted to brick / block wall construction at max. 600mm centres and 150mm from edges..

Detail 2

- 12.5mm tapered-edged plasterboard with all joints taped.
- Isowave 23 on timber or metal stud.
- Min. 20mm air space between stud and brick / block wall construction.

TYPICAL INSTALLATION

- Fix securely to all supports working from the centre of each board outward to the edges using the specified method of fixing at 250mm maximum centres with countersunk cross-slot screws (eg. drywall type) located through the Isocheck Isobar - fixed at 600mm max centres and 150mm max. from top and bottom edges (Detail 1) or into the metal independent studwork (Detail 2). Position fixings not less than 20mm from board edges and 50mm from corners.
- Do not over-sink screw heads, to avoid board damage
- The square edged Isowave 23 board should be tightly abutted to each other and remaining gaps or holes sealed with Isocheck Acoustic FR Sealant.. Any excess sealant to be removed once it has fully hardened.
- a min. 12.5mm thick sound-grade fire rated plasterboard layer should then be installed with tightly abutted, staggered joints and any remaining gaps or holes sealed with Isocheck Acoustic FR Sealant.
- Electric socket and light switches may require additional treatment. For advice on treatment of services and penetrations, consult our brochure or visit our website.

Please ask Isomass for guidance when considering correct selection of blockwork, specifically relating to lower density blocks (eg. aerated).

Every effort has been taken in the preparation of this sheet to ensure the accuracy of representations contained herein. Recommendations as to the use of materials, construction details and methods of installation are given in good faith and relate to typical situations. However, every site has different characteristics and reliance should not be placed upon the foregoing recommendations. Advice can be given as to specific applications of the products, upon request to Isomass Ltd.

www.isomass.co.uk

isomass® building acoustics

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