

One of the **isomass** systems range

# isocheck™

## Isowave 23 System for ceilings



### AIRBORNE AND FLANKING IMPROVEMENT SYSTEM

- Refurbishments
- Conversions

#### DESCRIPTION

- ❑ The Isowave 23 system is for the treatment of excessive flanking sound that bypasses a separating floor via lightweight structural walls. It is ideal for upgrading separating floors/ceilings where access to the top of the floor is not possible
- ❑ Isowave 23 incorporates acoustic foam which is semi rigid and is an excellent absorber with high damping characteristics when bonded to an acoustically reflective stiff surface. Isowave foam is manufactured using water as a blowing agent and is free of CFCs, HFCs or HCFCs.
- ❑ Isowave 23 complies with requirements of EU Regulation No 2037/2000 for ozone depletion and offers good thermal properties.
- ❑ When incorporated within a wall or ceiling construction as detailed, Isowave 23 will individually achieve ½ hour fire protection.

#### APPLICATIONS

- ❑ To construct or upgrade separating ceilings for conversions, new build and refurbishments projects.



Taking the *mystery* out of Acoustics

**isocheck™**  
acoustic insulating products

## Product data

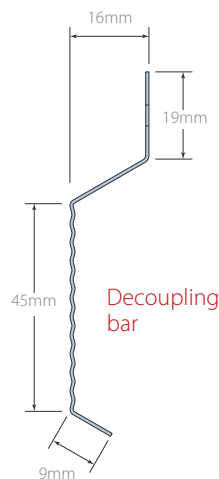
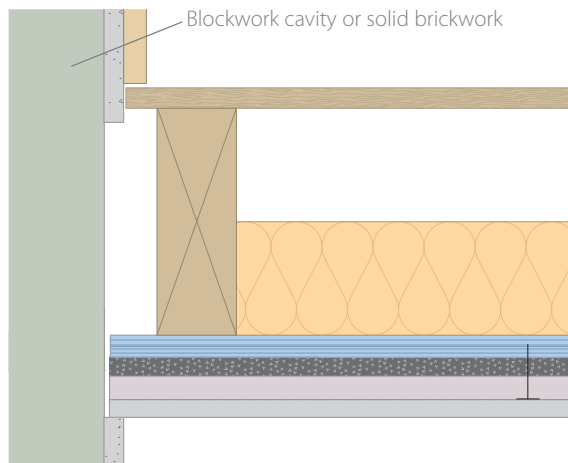
Overall board size:	1197mm x 597mm x 22.5mm
Resilient layer:	10mm
Board density:	1300 Kg/m <sup>3</sup>
Foam density:	less than 90kg/m <sup>3</sup>
Weight:	17.3kg/m <sup>2</sup>
Sound Absorption:	$\alpha_w$ 0.26

## Performance

Compliance with Approved Document E standards can be achieved; please contact Isomass with specific requirements.

Isowave performs under the following classifications:

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



## SPECIFICATION

The acoustic ceiling shall be:

- ❑ Isocheck Isowave 23 manufactured by Isomass Ltd. Units 10 & 11, Avenue Business Park, Elsworth, Cambridgeshire CB23 4EY and installed in accordance with manufacturer's instructions / recommendations.

## Typical Detail

- ❑ 200mm x 70mm timber joists @ 450mm centres.
- ❑ Resilient bars @ 400mm centres perpendicular to the joists.
- ❑ 100mm 45kg/m<sup>3</sup> insulation between joists.
- ❑ Isowave 23.
- ❑ 12.5mm tapered-edged plasterboard with all joints taped.

## 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 3.9 x 30mm positioned through the decoupling bar. Position fixings not less than 20mm from board edges and 50mm from corners.
- ❑ The heads of all fixings should be sunk into the surface of the board and stopped with joint filler.
- ❑ The square edged cement particle board should be sealed with an intumescent sealant, joints to be a maximum 1mm wide. Any excess adhesive to be removed using a spatula once the adhesive has fully hardened.
- ❑ A 12.5mm tapered edge plasterboard with all edges taped should then be fitted. Skim and lightly sand if required.

For advice on treatment of services and penetrations, consult our brochure or visit our website.

Please ask Isomass for guidance when considering the weight of any new blocks which will be incorporated in a wall directly surrounding a timber separating floor.

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 building products.