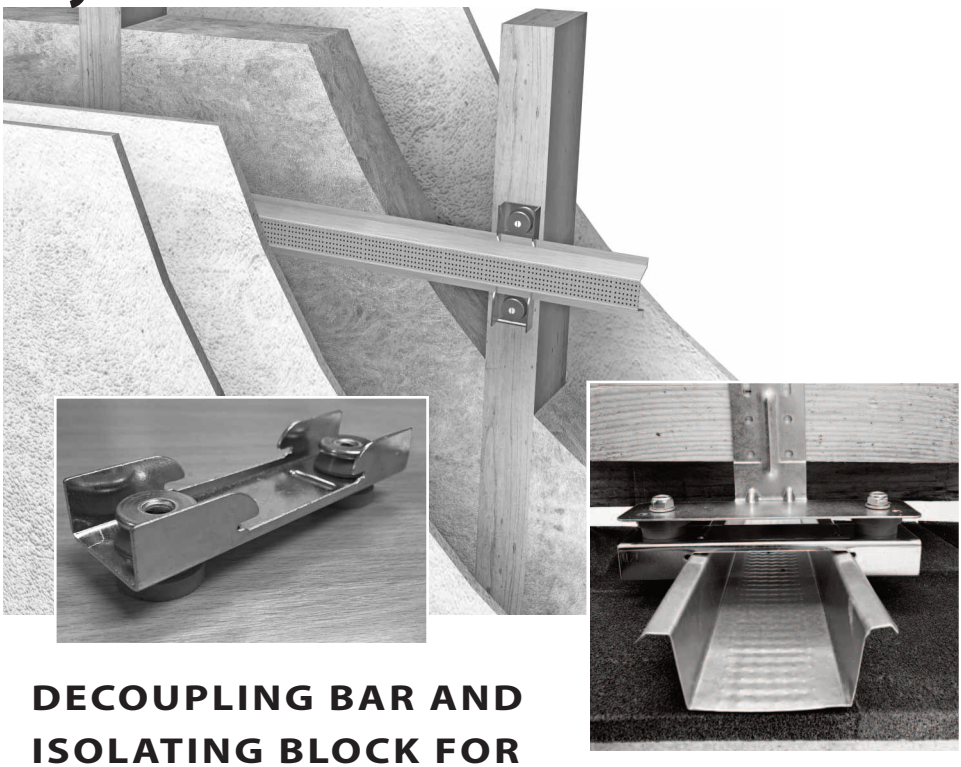
Issue 1.11 • January 2026

isocheck™
acoustic insulating products

One of the isomass systems range

Isoblock & Isobar System

Installation instructions



DECOUPLING BAR AND ISOLATING BLOCK FOR ACOUSTIC FLOORS AND WALLS

- New build
- Conversions
- Refurbishments and noise complaints

Independently laboratory tested

Institute of Acoustics Sound • Noise • Vibration 50 1974–2024
Sponsoring Organisation

QAS International ISO 9001:2015 REGISTERED COMPANY

Product data

Isobar dimensions: Isobar weight:	78mm wide x 26mm deep x 1800mm long approx. 0.47kg/lm
Isoblock dimensions: Isoblock weight:	35mm wide x 28mm deep x 138mm long approx. 102g
Isoblock Support Bracket dimensions: Isoblock Support Bracket weight:	138mm wide x 35mm deep x 100mm high approx. 100g
Acoustic performance:	Multiple test results are available including extensive data from Sound Research Laboratories. Please contact Isomass to discuss project specific requirements.

DESCRIPTION

- ❏ Isoblock & Isobar is a high performing sound reduction system designed to offer a more robust alternative to a standard resilient bar with similar low profile (space saving) features.
- ❏ The isocheck Isoblock and Isobar system comprises a vibration absorbing steel clip which securely holds a steel channel.
- ❏ Isoblock and Isobar enables isolation of plasterboard from ceiling joists, timber and metal studs.
- ❏ Isoblock and Isobar is typically used in the construction of separating (party) walls and ceilings

INSTALLATION - GENERAL

- ❏ The Isocheck Isoblock and Isobar system is designed to support one or two layers of plasterboard. Alternatvely, one layer of isomass Isowave 23 and one layer of plasterboard
- ❏ Spacing of Isoblocks on the Isobar system must be in accordance with diagrams 1 & 2 (see page 4), which related to installation of two layers of plasterboard with a max combined mass of 28kg/m2.
- ❏ All gaps around service outlets, window or door frames should be sealed with Isocheck FR acoustic sealant.

INSTALLATION - WALLS ONLY

- ❏ The first row of gypsum wallboard sheets at the bottom of the wall shall be installed with the long dimension supported on 5mm thick Isocheck Isolation Strip.

INSTALLATION - CEILINGS ONLY

- ❏ Optional Isoblock Support Brackets can be used to create a level ceiling and can provide additional depth for incorporation of services etc.
- ❏ The Isoblock Support Bracket can be bolted to the Isoblock with the fixings provided. This can be affixed to the joist using a min. of 3 suitable screw fixings to secure the bracket. Screws should not be installed so close to the joists edge that splitting or weakening of timber occurs.
- ❏ The diagrams shown on page 4 relate to installation of two layers of plasterboard. Should additional loading be necessary (eg. secondary suspended ceiling) please contact Isomass for technical assistance.

INSTALLATION

- ❏ Isoblocks may either be affixed before inserting the Isobar or slid onto the Isobar before fixing to the joist, wall, etc.
- ❏ Quickest installation is often achieved by pinching the Isobar bridge slightly, so that the Isoblocks can be clipped easily into position (figure 1).
- ❏ Fix the Isoblocks with suitable screws, through the circular metal inserts on each end (figure 2). Typically, torque setting on drills etc. should be medium to ensure that the Isoblock latex grommets are not overly compressed during installation.
- ❏ The acoustic Isoblocks should be within 150mm of the ceiling perimeter at the end of the Isobar length. The first row of bar at the ceiling perimeter should be a maximum 150mm from the wall (see typical layout on back page).
- ❏ Isobars are installed within Isoblocks so as to be perpendicular to any framing members.
- ❏ Once secured, overlap bar ends by approximately 100mm and screw together.
- ❏ Affix Isowave 23 or appropriate plasterboard to the Isobars with screws suitable for self drilling into the isobars with a max. length of 15mm beyond its collective depth (figure 3).
- ❏ When using multiple layers of board, increase the screws in length to compensate for the depth.

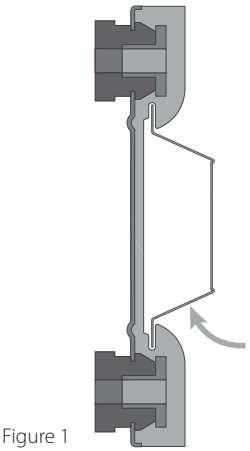


Figure 1

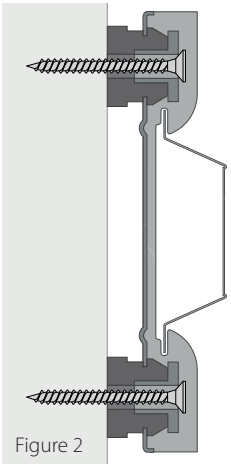


Figure 2

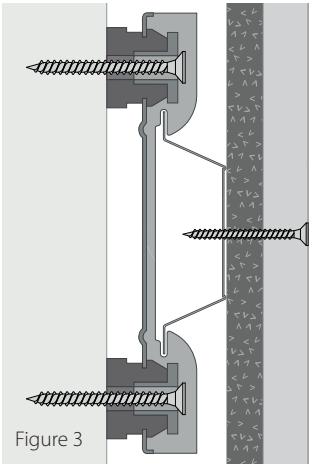


Figure 3

IMPORTANT

- ❏ **Never allow fixings to exceed the depth of construction, thus causing "bridging" to occur, as this will negatively affect acoustic isolation performance!**

If in doubt on any area, please call Isomass prior to commencement of work.

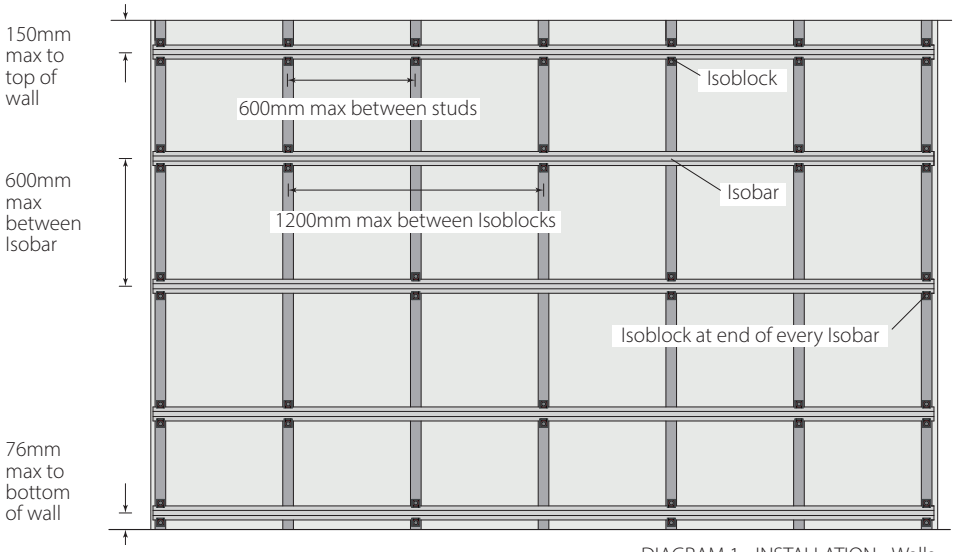


DIAGRAM 1 - INSTALLATION - Walls

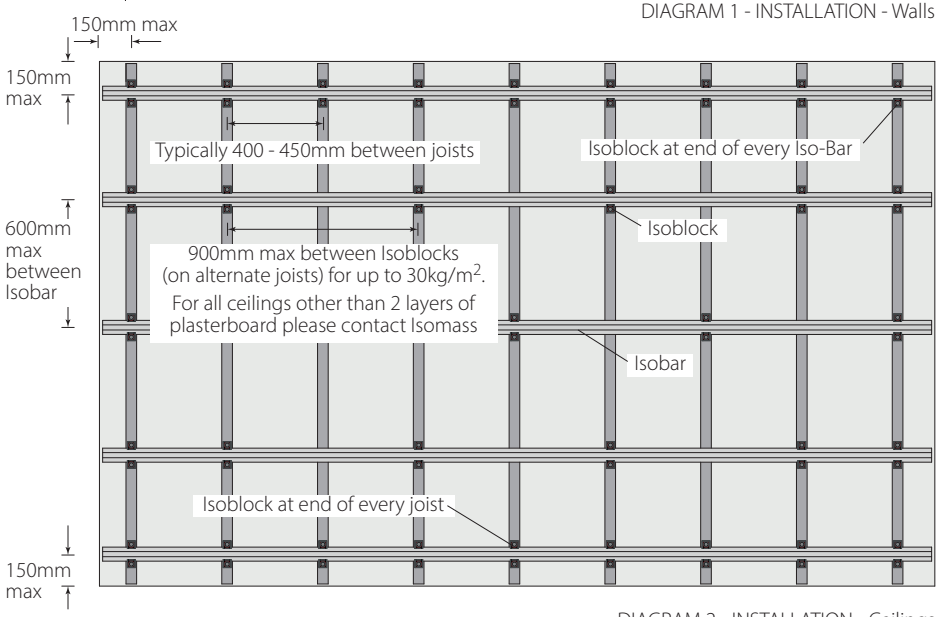


DIAGRAM 2 - INSTALLATION - Ceilings

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.

isomass® building acoustics

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