Issue 2.6 • December 2020

One of the isomass systems range

isocheck™

Isoblock & Isobar System

NEW ISOMASS PATENT APPLIED FOR DESIGN

DECOUPLING BAR AND ISOLATING CLIP FOR ACOUSTIC FLOORS AND WALLS

- New build
- Conservation
- Refurbishments

TESTED BY NHBC ACOUSTIC SERVICES

Institute of Acoustics sponsoring organisation

MADE IN THE UK

ISO 9001:2015

Taking the *mystery* out of Acoustics

DESCRIPTION

- Isocheck 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 channel which is secured to studs and joists with isolation blocks.
- Attaching the isolation block to ceiling joists, timber and metal studs simply and easily secures the Isobar furring channel and decouples the gypsum board from the structure. The resulting construction provides a resilient isolation solution to enhance or construct separating and partition walls and ceilings.

APPLICATIONS

- The Isoblock and Isobar system is suitable for enhancing separating ceilings and walls.
- For low-cost, space saving ceilings and walls that provide superior noise control.

E1 NEWBUILD · E1 CHANGE · DOMESTIC

N · R · C

isocheck™ acoustic insulating products

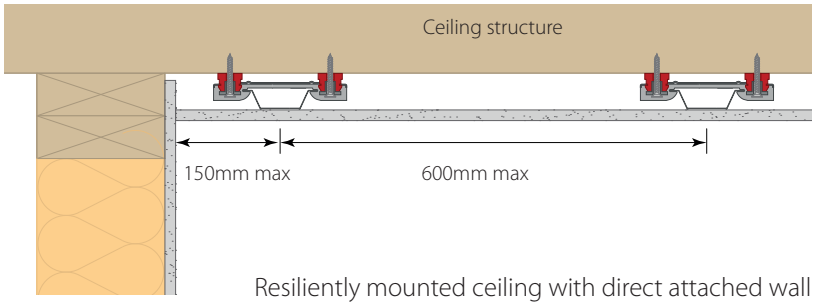
isocheck™

impact sound reduction system

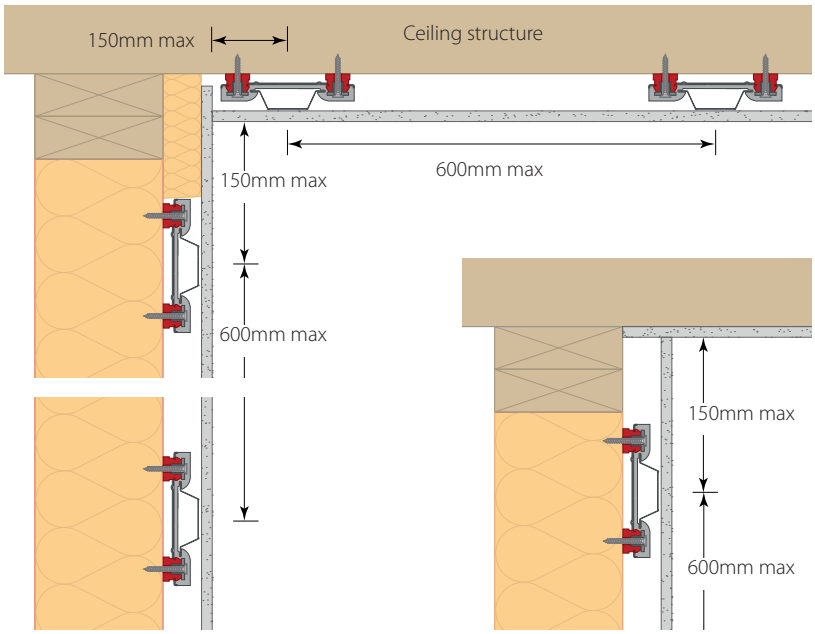
Product data

Isobar dimensions:	78mm wide x 22mm deep x 1800mm long
Isobar weight:	approx. 0.44kg/lm
Isobar composition:	Roll formed galvanised steel to BS EN 10346:2009. Continuously hot-dip coated steel flat products.
Isoblock dimensions:	35mm wide x 28mm deep x 138mm long

Wall	Description	Performance (Rw)
Timber stud (1)	15mm gypsum board; 50 x 100mm timber stud wall; Fibreglass Insulation; Isocheck Isoblock with 22mm drywall Isobar furring channel; 15mm gypsum board.	56dB
Timber stud (2)	as (1) with two layers of 15mm gypsum board.	60dB
Timber frame refurbishment (3)	15mm gypsum board; 50 x 100mm timber stud wall; 15mm gypsum board; Isocheck Isoblock with 22mm drywall Isobar furring channel; Fibreglass insulation; 15mm gypsum board.	46dB
Timber frame refurbishment (4)	as (3) with two layers of 15mm gypsum board.	60dB



Resiliently mounted ceiling with direct attached wall

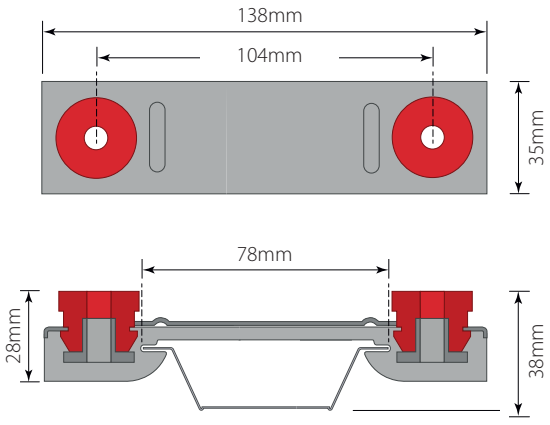


Resiliently mounted ceiling and wall

Resiliently mounted ceiling

BENEFITS

- Weight capacity of 45 - 60lbs. maximum, see installation guidelines
- Economical, easy to install system. Attaches simply to ceiling joists, wall studs and masonry.
- Significant improvement on the use of resilient bars alone.
- Error free installation of standard drywall furring channel; maximizes available occupied space
- Withstands greater loads than standard systems to provide peace of mind for developers and dwellers.
- Isocheck Isoblocks simply attach to ceiling joists, wall studs or masonry and easily secure the Isobar furring channel.
- One or more layers of gypsum board are hung to this channel using good construction practices.
- Offering consistent high values than standard resilient bar, the isocheck Isoblock ensures that installers are unable to inadvertently bridge the 'resilient' leg of the channel into the joist or stud.



isocheck™

impact sound reduction system

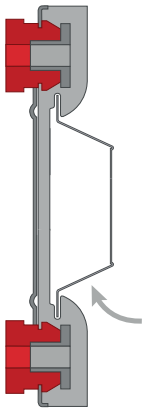


Figure 1

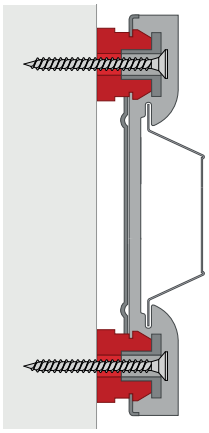


Figure 2

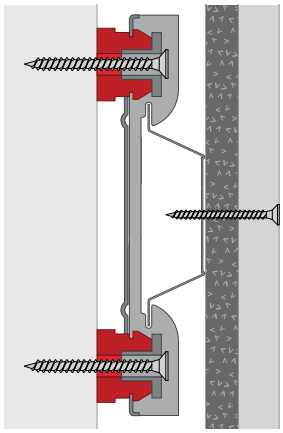
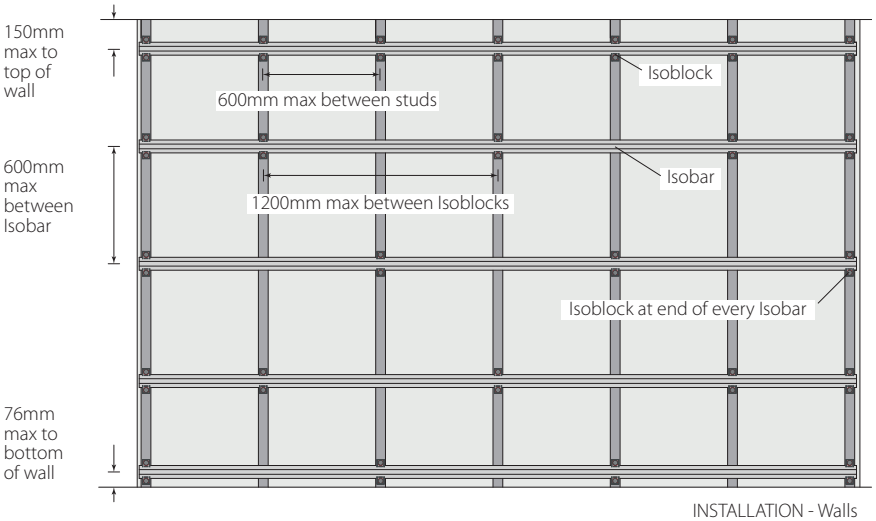
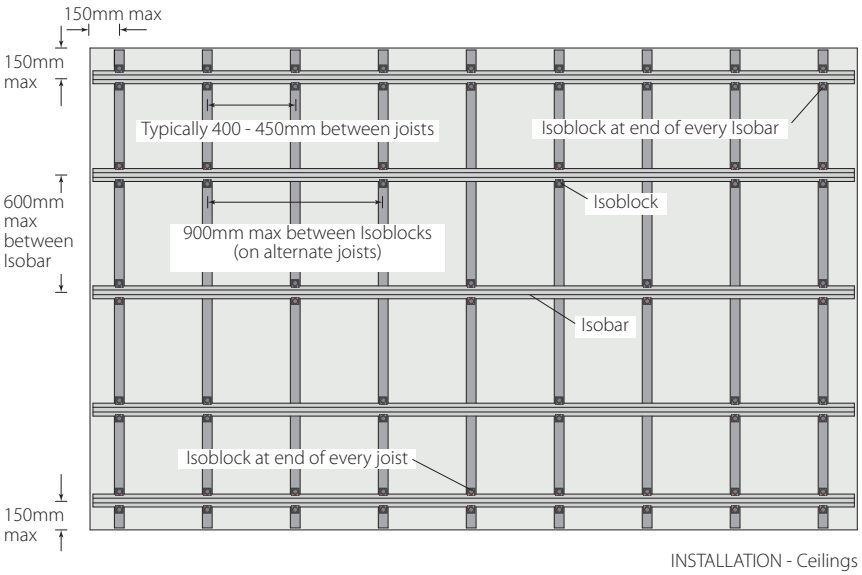


Figure 3



INSTALLATION - Walls



INSTALLATION - Ceilings

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 at it's end, so that the Isoblocks can slide easily into position (figure 1).
- Fix the Isoblocks with suitable screws, through the circular metal inserts on each end (figure 2).
- Once secured, overlap bars by approximately 100mm and screw or wire together.
- Affix Isowave 23 or appropriate plasterboard to the Isobars with screws suitable for self drilling into a metal stud system at least 10mm to 15mm beyond its collective depth (figure 3).
- When using multiple layers of board, increase the screws in length to compensate for the depth.

WALLS

- 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.

CEILINGS

- 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.
- Furring channels are installed perpendicular to any framing members.

IMPORTANT

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

isomass® building acoustics

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