Issue 1.18 June 2026

One of the isomass systems range

isocheck™

Barrier Mat Systems for Floors & Walls



Recyclable post-use

AIRBORNE IMPROVEMENT SYSTEMS FOR TIMBER FLOORS & WALLS

- New build project requiring enhanced acoustic performance
- Refurbishments
- Conversions
- Listed buildings

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

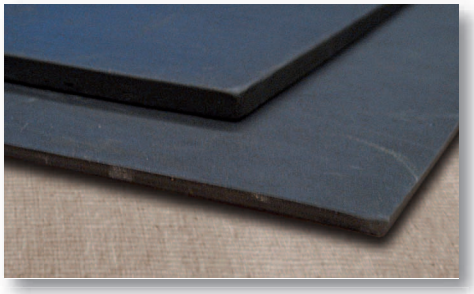
- Isocheck weight-enhanced Barrier Mat systems are primarily used for their airborne, low-frequency damping properties in floors and walls through timber floors.
- Isocheck Barrier Mat is available in 5kg/m^2 and 10kg/m^2 versions. They are black in colour, bitumen free and recyclable.
- Barrier Mats are ideal for upgrades when looking to improve airborne sound reduction with minimal increase in height and depth within floors and walls.
- Barrier Mats are not intended to be used for impact noise reduction. Please see Isomass website for our extensive range of impact noise reducing mats.

SELF ADHESIVE OPTION

- Isocheck Barrier Mat 5 & 10 are also available with a self adhesive layer.
- Enables easy fixing of barrier mat to plasterboard, soil pipes and many other applications

APPLICATIONS

- Can be draped over joists for maximum noise reduction, laid directly over existing floorboards and can also be incorporated within wall structures.



isocheck™ acoustic insulating products

isocheck™

airborne improvement system

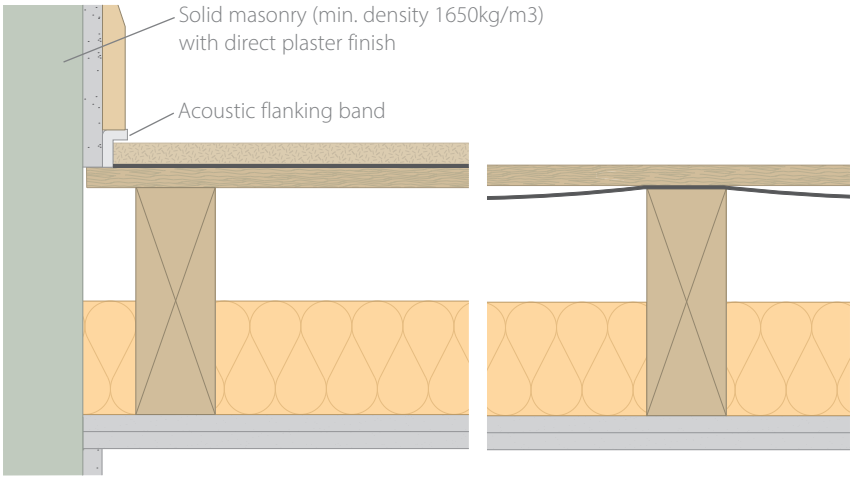
Product data

Overall size:	Isocheck Barrier Mat 5 Isocheck Barrier Mat 10	1.2m x 5.0m 1.2m x 2.0m
Thickness:	Isocheck Barrier Mat 5 Isocheck Barrier Mat 10	2 - 3mm 4 - 5mm
Weight:	Isocheck Barrier Mat 5 Isocheck Barrier Mat 10	5.0kg/m^2 10.0kg/m^2
Version:	Standard or Adhesive backed	

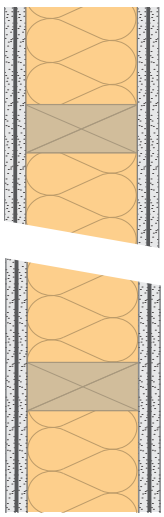
Performance

Isocheck Barrier Mats contain a high performance material that has been acoustically tested at a UKAS certified independent test laboratory.

Tested and Rated according to: BS EN ISO 717-1:2013
BS EN ISO 10140-1:2016
BS EN ISO 10140:2010



- Timber floor finish.
- Isocheck Barrier Mat 5 or 10 over existing floorboards (top left detail) ***or***
- Isocheck Barrier Mat 5 or 10 draped between joists (top right detail).
- 200mm x 70mm timber joists @ 450mm centres.
- 100mm 45Kg/m^3 insulation between joists (total ceiling mass 20kg/m^2).
- 25mm double boarded ceiling fixed to timber joists.
- Acoustic flanking band reduces impact vibration leaking via structural walls and assists in reducing airborne sound paths (on both constructions).
- Examples shown are intended for scenarios where airborne noise may otherwise be a problem and are not intended to satisfy Approved Document E requirements, eg. material change of use.



In timber walls the Barrier Mat can be sandwiched between two sheets of plasterboard (right detail). Alternatively barrier mat can be mechanically fixed to bare studwork if preferred (not shown)

SPECIFICATION

The acoustic barrier shall be:

- Isocheck Barrier Mat (5kg/m2 or 10kg/m2), 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.

INSTALLATION

- Isocheck Barrier Mat achieves best acoustic performance when draped on joists or when installed in corrugated effect. Barrier Mat can also be installed as a super thin method of increasing mass on top of floor boards or between plasterboard layers.
- Barrier mat can be fixed using large headed pins, battens or other suitable restraint. Alternatively, it can be bonded using an approved polyurethane-based contact adhesive or a solvent-based acrylic pressure-sensitive adhesive.
- Optional self-adhesive version with easy-peel backing for direct bond to clean substrate
- Barrier mat should always be installed so as to form continuous appearance with no gaps or hole remaining on completion.
- As each project will vary please contact Isomass for full installation advice, including guidance on treatment of services and penetrations.

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®

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