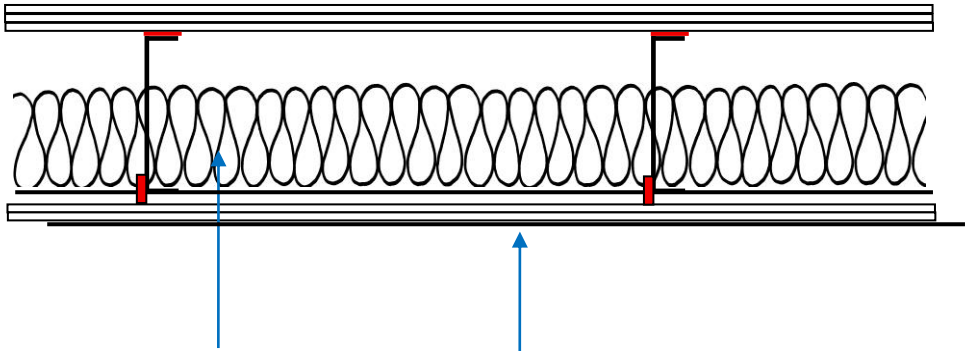
Isocheck 32T (16 kg/m^2) – not continuous under wall
18mm GIFA board (27 kg/m^2) – not continuous under wall
12mm Magpie Plywood (13.2 kg/m^2) on 15mm CDM rubber strips (top face of steel joist)



100mm mineral wool (density not less than 45kg/m^3)

Ceiling comprising 2 layers of 15mm Fireboard (12.4 kg/m^2 per layer) supported on Isoblock / Isobar system (44mm deep), fixed to side of metal joists, allowing structural steel supports to pass through without contact

Top floor	56.2 kg/m^2
Mineral wool	4.5 kg/m^2
Ceiling	24.8 kg/m^2

Issue 2.14 • January 2026

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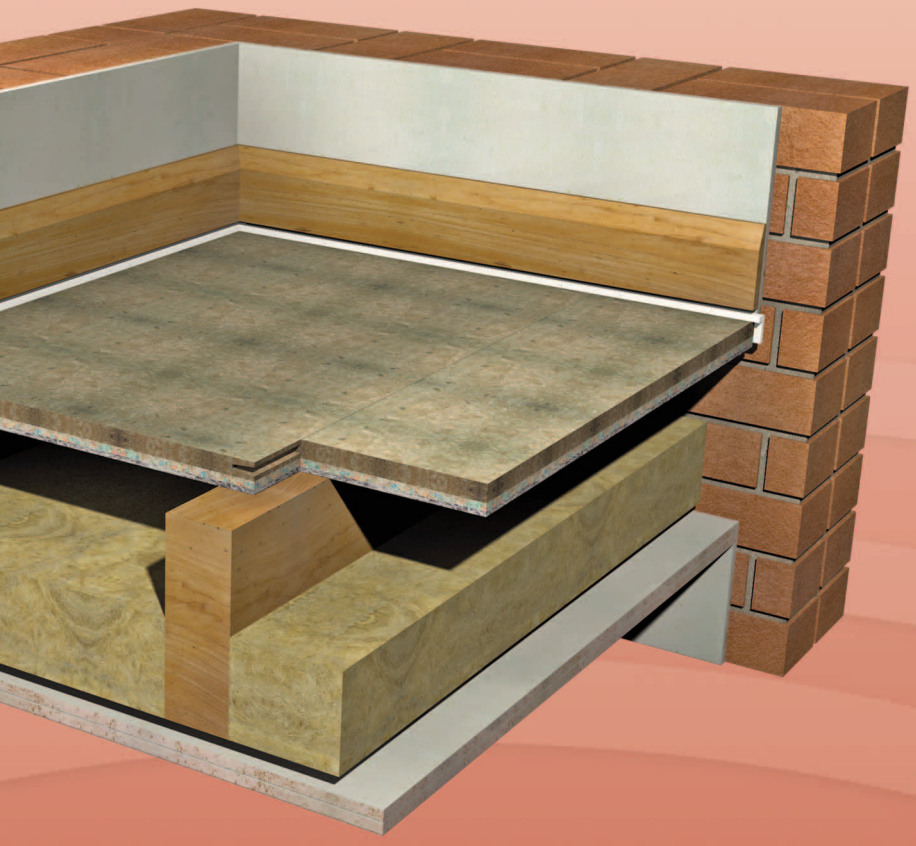
32T Acoustic Floor System



DIRECT TO JOIST OR OVERLAY SYSTEM (using a decoupled ceiling)

- New build
- Refurbishment
- Conversions
- Noise complaint upgrade

TESTED BY NHBC ACOUSTIC SERVICES

Institute of Acoustics 50 1974-2024 Sponsoring Organisation

MADE IN THE UK

QAS International ISO 9001:2015 REGISTERED COMPANY

Taking the *mystery* out of Acoustics

DESCRIPTION

- The Isocheck 32T acoustic floor system is designed to reduce airborne and impact sound transmission and provide an element of thermal enhancement for traditional joisted timber floors.
- Isocheck 32T consists of 22m P5 V313 moisture resistant T&G chipboard bonded to a laminated layer of ACF (Acoustic Chip Foam) and Isofiba.
- When installed as part of a complete sound reduction system, it enables a timber floor to meet the sound transmission regulations of Approved Document E 2003 and subsequent amendments in 2004, 2010, 2013 and 2015.

APPLICATIONS

- To be used over new or existing joists for new build, refurbishments or conversions with a new decoupled ceiling.
- Can also be used as a high performance overlay onto existing floorboards for max noise reduction.

isocheck™
acoustic insulating products

isocheck™

overlay acoustic floor system

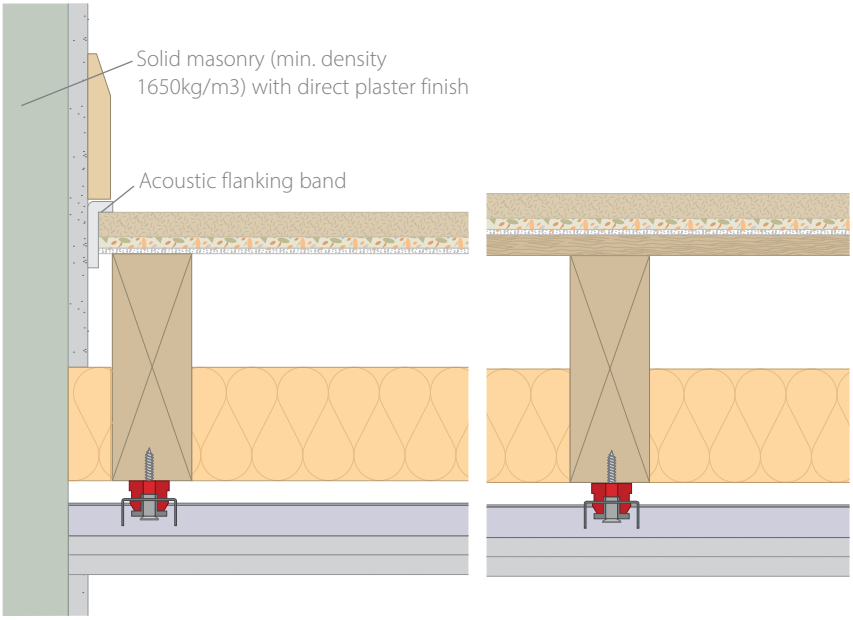
Product data

Overall size:	2400mm x 600mm x 32mm (Thickness reduced under load)
Resilient layer:	Combined laminated layers of 6mm reconstituted ACF (Acoustic Chip Foam) and 5.5mm Isofiba
Weight:	23.0kg per sheet

Typical performance expectations (on the constructions illustrated)

	Airborne		Impact	
Treated floor with:	$R_w + C_{tr}$	$D_{nT,w} + C_{tr}$	L'_{nw}	$L'_{nT,w}$
Isocheck 32T with Isocheck Isoblock and Isobar ceiling	**c. 53dB**	**c. 48dB**	**c. 48dB**	**c. 54dB**

Site results (in red) for Building Control approval. Laboratory results (in blue) for comparison.*



- Isocheck 32T laid directly on joists or on existing floorboards
- 200mm x 70mm timber joists @ 450mm centres.
- 100mm 45kg/m³ insulation between joists.
- Min. 20kg/m² double boarded min. 25mm o/a plasterboard on Isocheck Isoblock and Isobar system.
- Acoustic flanking band reduces impact vibration leaking via structural walls and assists in reducing airborne sound paths.

SPECIFICATION

The acoustic floor shall be:

- Isocheck 32T system, supplied by Isomass Ltd. Unit 14 Papworth Business Park, Stirling Way, Papworth Everard, Cambs CB23 3GY and installed in accordance with manufacturer's instructions / recommendations.

INSTALLATION

- Apply Isocheck Acoustic Angled Flanking Band on the edges of the Isocheck boards before they are pushed against the perimeter walls to isolate the board from the wall.
- Lay Isocheck 32T directly to the timber joists or to floorboards, in brick bond pattern, applying Isocheck adhesive to all tongued and grooved panel joints without the need for mechanical fixings.
- Install skirting and trim off excess Flanking Band.
- Full installation instructions are available and must be used in conjunction when laying this floating floor system.
- NB: When removing existing floorboards to replace with Isocheck 32T additional strengthening in the form of noggins etc. may be required. please consult with a qualified structural engineer if in any doubt.

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.

*Laboratory results are predicted to enable a comparison.

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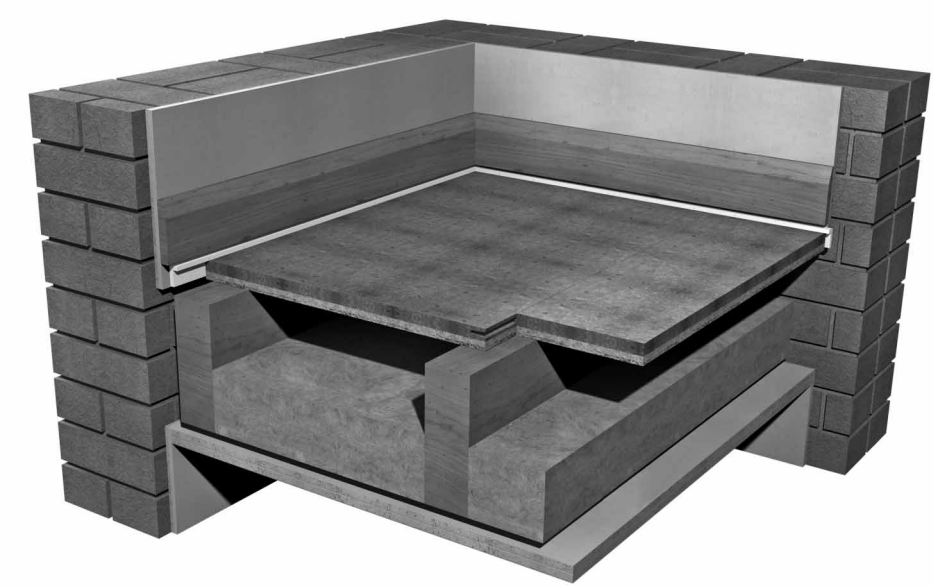
32T Acoustic Floor System

Installation instructions



DIRECT TO JOIST OR OVERLAY SYSTEM (using a decoupled ceiling)

- New build
- Refurbishment
- Conversions
- Noise complaint upgrade

TESTED BY NHBC ACOUSTIC SERVICES

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

MADE IN THE UK

QAS International ISO 9001:2015 REGISTERED COMPANY

PRODUCT DATA

Overall size:	2400mm x 600mm x 32mm (Thickness reduced under load)
Resilient layer:	Combined laminated layers of 6mm reconstituted ACF (Acoustic Chip Foam) and 5.5mm Isofiba
Weight:	23.0kg per sheet

DESCRIPTION

- ❏ The Isocheck 32T system is designed to reduce sound transmission and thermally enhance traditional joisted timber floors.
- ❏ To be used over new or existing joists for new build, refurbishments or conversions with a new resilient bar ceiling.

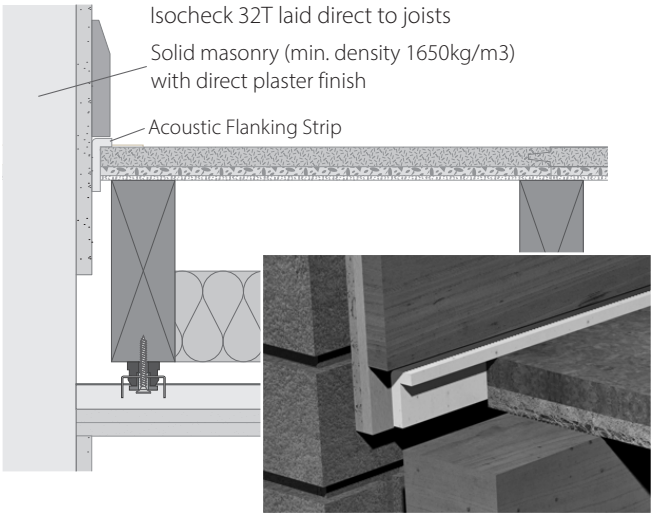
- Isocheck 32T laid directly on joists or on existing floorboards
- 200mm x 70mm timber joists @ 450mm centres.
- 100mm 45kg/m^3 insulation between joists.
- Min. 20kg/m^2 double boarded min. 25mm o/a plasterboard on Isocheck Isoblock and Isobar system.

PREPARATION

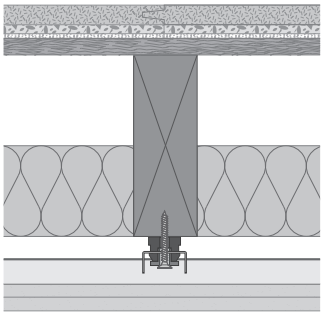
- ❏ The presence of steel work, lift shafts and even ceiling penetrations can often impair acoustic performance. NB: low density/ lightweight construction (eg. blockwork) can cause significant reduction in acoustic performance. If any of these (or other issues not previously declared) are present on your site, please contact us for additional advice.
- ❏ Ensure that all recessed down-lights or other invasive fittings have been correctly treated prior to closing off the sub-floor from above with the Isocheck 32T system.
  If not confirmed of a solid construction all structural walls should be sealed both top and bottom prior to floor laying. e.g.: lath & plaster wall linings, dot & dab systems, 'hollow' battened skirting's, etc.
- ❏ The floor void between the joists should be swept free of debris. All nails and screws on top of the joists removed or driven flush to leave a smooth continuous dry surface to receive the system. Any associated work to level joists should also be done at this time.
- ❏ It is advisable that any new ceiling installation be installed prior to laying of the floor together with a continuous layer of 100mm (45kg/m^3) mineral fibre insulation between the joists.
- ❏ For compliance with Approved Document E Isoblock and iso bar system or a proprietary metal frame system should be installed to decouple the ceiling from the joists.
- ❏ Installation of Isocheck 32T should **not** commence until roof, window glazing and wet trades are completed and the structure is watertight. Leave overnight for adhesive to cure before trafficking the newly installed system.

INSTALLATION - GENERAL

- ❏ NB: When removing existing floorboards to replace with Isocheck 32T additional strengthening in the form of noggins etc. may be required. Please consult with a qualified structural engineer if in any doubt.
- ❏ Isocheck 32T must be kept in a dry storage area. Deliveries should be scheduled to coincide with availability of suitable dry storage areas.
- ❏ Apply Isocheck Acoustic Angled Flanking Band on the edges of the isocheck boards just before they are pushed against the perimeter walls to isolate the board from the wall.



Isocheck 32T overlaying existing floor boards



Angled flanking strip under skirting trimmed flush with a sharp knife.

- ❏ Board fitting should begin at the furthest point from the entrance and marked out so as not to finish with any panels less than 200mm wide.
- ❏ The decking must be laid in broken bond pattern, with all joints staggered and glued using Isocheck D3 adhesive. No mechanical fixings should be used. Isocheck D3 adhesive is applied to both the top of the tongue and the bottom of the groove on each side of each joint. The Isocheck 32T boards are then pushed tightly together. If necessary an offcut of 32T should be used as a knocking block to ensure tight joint abutment. Surplus adhesive should be wiped away from the surface with a damp cloth.

INSTALLATION - DOORS, ARCHITRAVES & SKIRTINGS

- ❏ Door openings should have linings fitted prior to the installation of the acoustic floor. The Isocheck 32T boards should be carefully detailed to ensure a good fit. Although not ideal architraves and stops can be fixed after floor installation, leaving a 2/3mm gap from the surface of the floor.

STUD PARTITIONING

- ❏ Stud partitioning should be built from the joists or from the existing floor boards and ideally isolated by use of Isocheck Isolation Strip.
- ❏ All partitions built from the sub-floor will require Isocheck flanking strip installed to the partition and additional support each side of the sole plate where the Isocheck is terminated.

FLANKING STRIPS

- ❏ Isocheck Flanking Strips provide isolation of the flooring system from all vertical structures and penetrations. The angled flanking strip is trapped to the wall so as to isolate the board and ultimately skirting board. The skirting board is then fixed to the wall securing the Flanking Strip between the skirting board and the Isocheck 32T.
- ❏ After the skirting board is installed, simply trim the Flanking Strip flush with a sharp knife.
- ❏ Alternative flanking designs are available to suit finished wood floor etc. Please contact Isomass for further advice.

PROTECTION

- ❏ The finished Isocheck 32T system should be protected with an appropriate layer immediately after being in-stalled to prevent damage by any following tradesmen.

HANDLING

- ❏ Some Isocheck boards may be HEAVY. Please observe proper lifting methods and if transporting around site, by hand. Care should also be taken to protect hands from splinters during manual handling.

CUTTING

- ❏ The cutting of boards, either by hand or machine, will produce dust that may be an irritant if inhaled. Use dust masks when carrying out any cutting operations.

INSTALLATION - KITCHENS, BATHROOMS & UNDERFLOOR HEATING

- ❏ Appliances and sanitary ware, with rigid plumbing connections that penetrate the system, should be isolated from the sub floor and floating floor by cutting a hole up to 10mm larger than the service diameter and filling the gap with a flexible sealant. Ideally kitchen worktops should be isolated from the wall with a Isocheck Flanking Strip and trimmed flush with surface before tiling commences.
- ❏ For detailed advice on sanitaryware installation please contact Isomass.
- ❏ When laying Isocheck 32T in a kitchen or bathroom it is essential that additional support noggins are placed between the joists as well as the perimeter support referred to previously. This is to support the higher loads imposed on the floor in specific areas. If in doubt as to the configuration or quantity of support noggins additional advice should be sought to reduce the potential for undue deflection in these potentially high load areas.

INSTALLATION - CEILINGS

- ❏ Ceiling boards should be installed first, especially before any dry-lining of walls (such as dot & dab) to prevent potential flanking transmission. Ceilings should be boarded with a minimum mass of 20kg/m^2, (material change of use only) and must be fixed to Isoblock and Isobar or a proprietary metal frame system in accordance with manufacturers recommendation.

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

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Unit 14 Papworth Business Park, Stirling Way,
Papworth Everard, Cambridgeshire CB23 3GY

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Isoblock & Isobar System

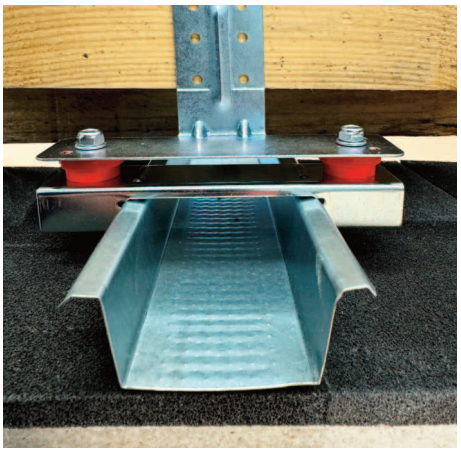
NEW ISOMASS PATENT APPLIED FOR DESIGN

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
- Can be used with optional support bracket to create level ceilings.

DECOUPLING BAR AND ISOLATING CLIP FOR ACOUSTIC FLOORS AND WALLS

- New build
- Conservation
- Refurbishments and noise complaints



Independently laboratory tested

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QAS International ISO 9001:2015 REGISTERED COMPANY

Taking the *mystery* out of Acoustics

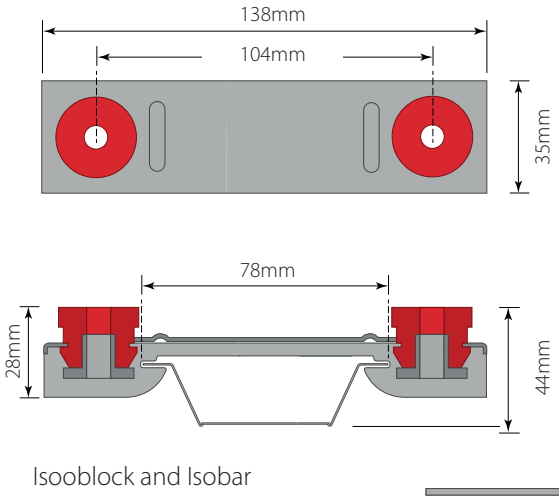
isocheck™ acoustic insulating products

isocheck™

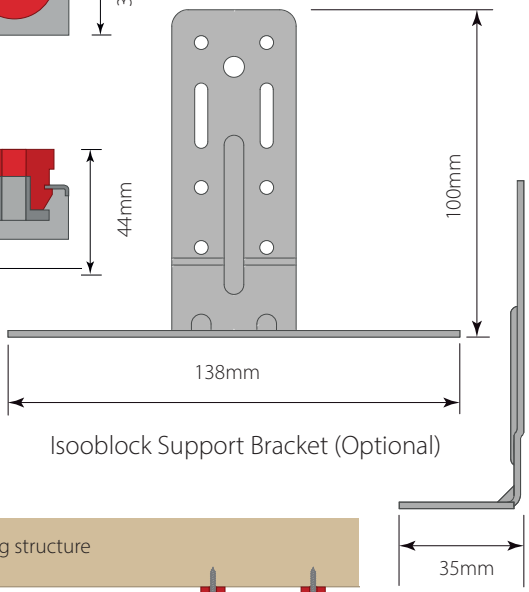
impact sound reduction system

Product data

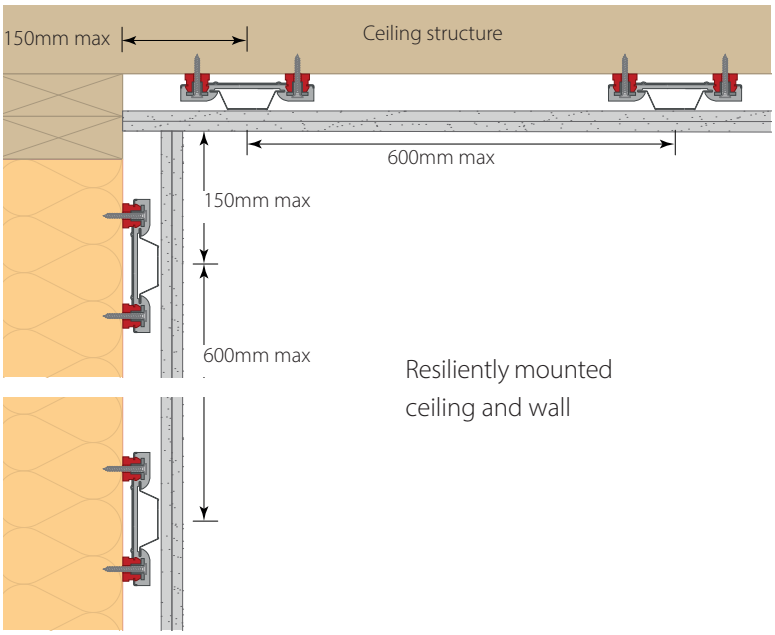
Isobar dimensions: Isobar weight:	78mm wide x 26mm deep x 1800mm long approx. 0.47kg/lm
Isoblock dimensions: Isoblock weight:	35mm wide x 28mm deep x 138mm long approx. 102g
Isoblock Support Bracket dimensions: Isoblock Support Bracket weight:	138mm wide x 35mm deep x 100mm high approx. 100g
Acoustic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



Isooblock and Isobar



Isooblock Support Bracket (Optional)



Resiliently mounted ceiling and wall

BENEFITS

- Extremely high acoustic performance as proven by sound research laboratories ltd and multiple 'real site' sound test results.
- Economical, easy to install system. Easily attached to ceiling joists, wall studs and masonry.
- Weight capacity of 30-50kg/m^2 depending on joist spacing, see installation guidelines.
- Significant improvement over the use of standard resilient bars alone.
- Greatly reduced risk of 'bridging' by screw fixing when compared to standard resilient bars.
- Typically, two layers of plasterboard are affixed to the system, to ensure correct airborne sound reduction.
- Isoblock and Isobar offers a shallower ceiling solution than traditional metal frame systems. Less components result in lower cost and less labour time.
- The optional Isoblock Support Bracket can be used to create a deeper ceiling. It can also be used to create a level ceiling.

INSTALLATION

- Isoblock and Isobar system is quick and easy to install.

  Please see separate Isoblock and Isobar Installation Instructions for detailed information.

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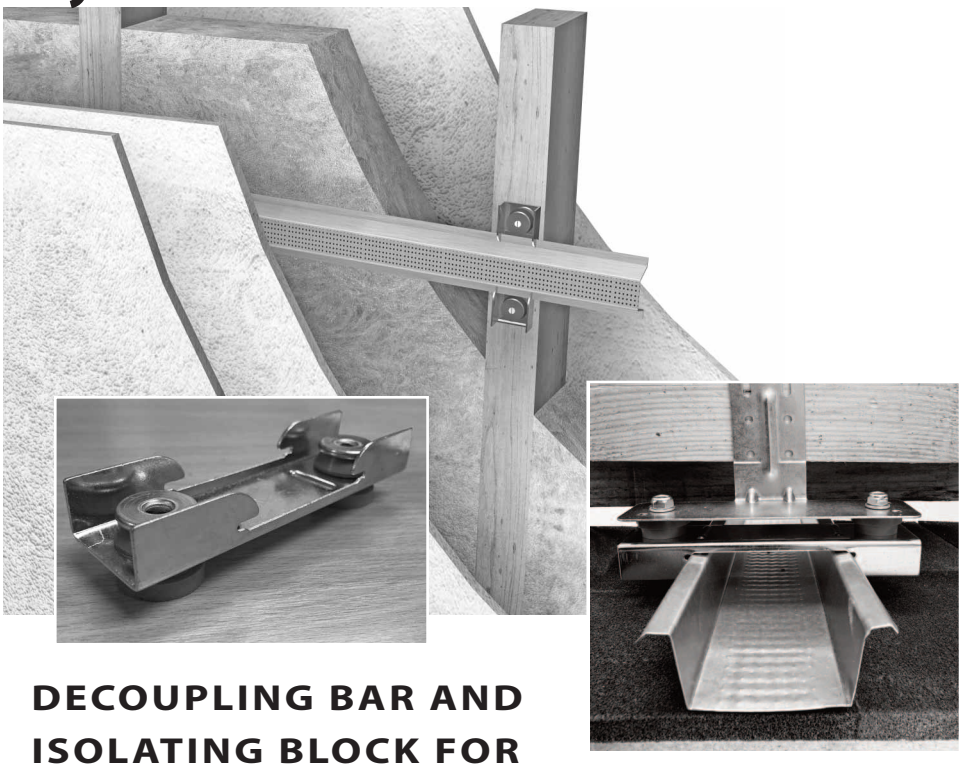
Isoblock & Isobar System

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.

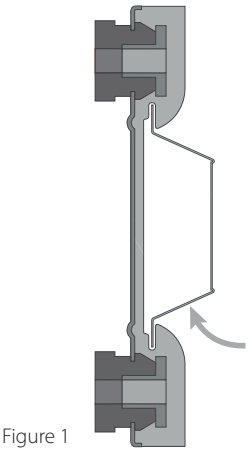


Figure 1

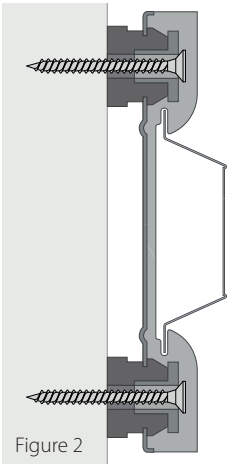


Figure 2

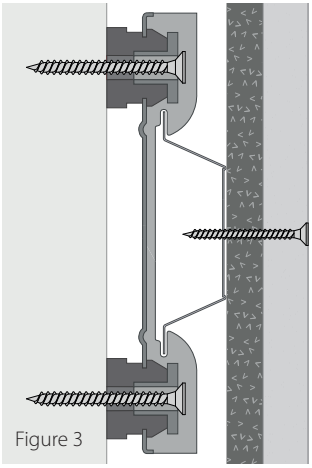


Figure 3

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.

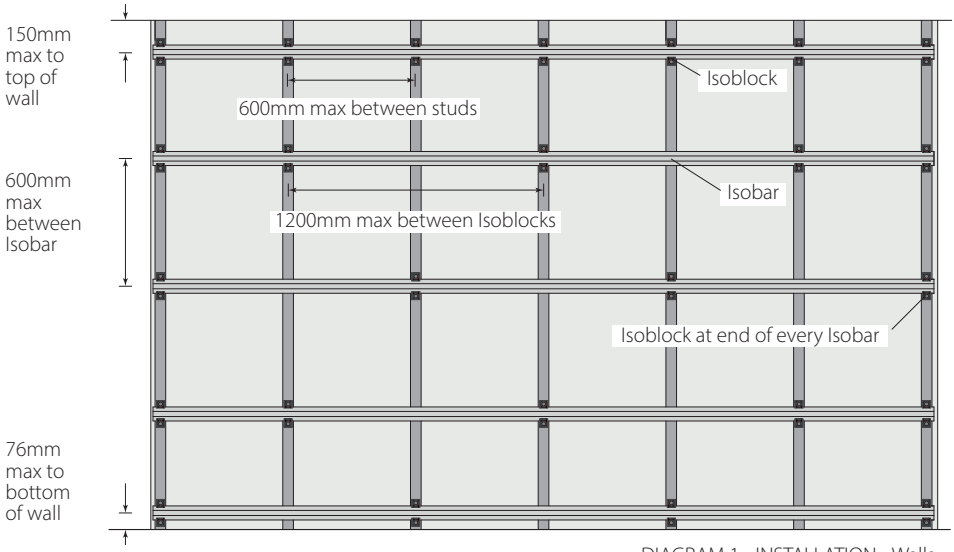


DIAGRAM 1 - INSTALLATION - Walls

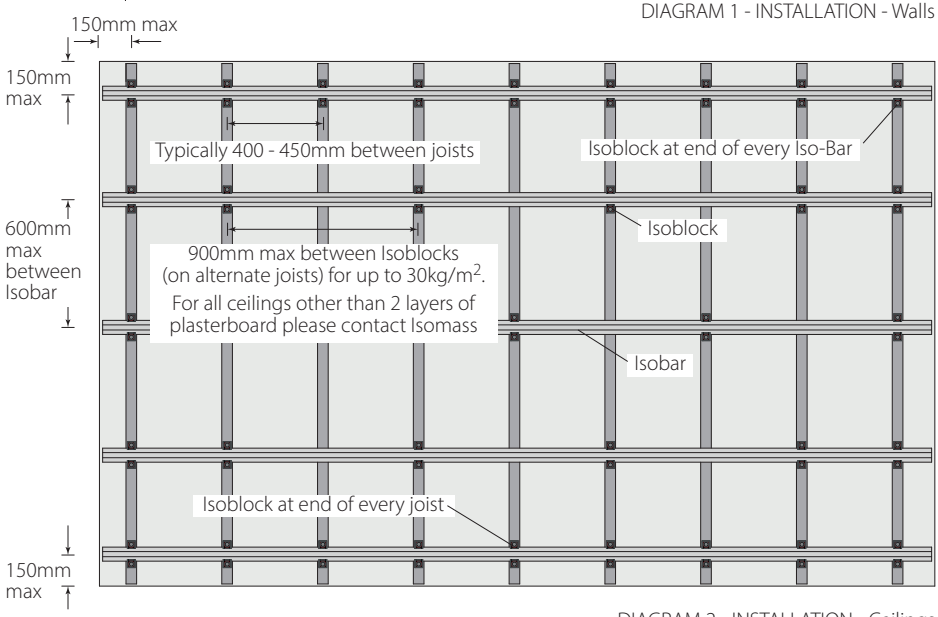


DIAGRAM 2 - INSTALLATION - Ceilings

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Unit 14 Papworth Business Park, Stirling Way,
Papworth Everard, Cambridgeshire CB23 3GY

Tel: 0330 175 8228 • Email: info@isomass.co.uk • www.isomass.co.uk

Armstrong House
3 Bassett Avenue
Southampton
SO16 7DP

T: 02381 555000
E: info@24acoustics.co.uk

Matthias Hamm
spaceAgent architects
urban edge studios
91 Paul Street
London
EC2A 4NY

Date: 12th June 2026
Reference: 11694-1 Rev 0

Dear Matthias,

RE: 227 Shepherds Bush Rd – Condition 5

Further to our discussions, please see our analysis below.

Criteria

Condition 5 of planning consent 025/01185/PDAA5 dated 31st October 2025 requires an enhanced airborne and impact sound between the upper floors and existing office.

> 5) Prior to commencement of the prior approval development hereby granted, details shall be submitted to and approved in writing by the Council, of the sound insulation of the floor/ ceiling/ walls separating the commercial part(s) of the premises from dwellings / noise sensitive premises. Details shall demonstrate that the sound insulation value DnT,w + Ctr and L'nT,w is enhanced by at least 10dB above the Building Regulations value and, where necessary, additional mitigation measures are implemented to contain commercial noise within the commercial premises and to achieve the criteria of BS8233:2014 within the dwellings/ noise sensitive premises. Approved details shall be implemented prior to occupation of the development and thereafter be permanently retained.
>
> To mitigate against exposing future residential occupants to harmful levels of noise and disturbance from commercial premises, in accordance with Policy D14 of the London Plan (2021) and Policies CC11 and CC13 of the Local Plan (2018).

Impact sound transmission downward into commercial property is not formally covered by the Building Regulations.

In practical terms, this means the following performance values, based on a new build construction:

Airborne - 55 dB $D_{nTw+}C_{tr}$ or greater

Review

The proposed party floor construction is shown in Figure 1 and described below:

- Isocheck 32T acoustic board
- 18mm Knauf GIFA board
- 12mm Magply Plywood
- 15mm CDM rubber strips on 150mm metal joists with 100mm Rockwool RWA45 in cavity
- Ceiling comprising 2 layers of 15mm Fireline plasterboard attached via Isomass Isoblock clip isolation system

The performance has been calculated using Insul software which gives an airborne rating of 60 dB $R_{w+}C_{tr}$. This value exceeds 55 dB $D_{nTw+}C_{tr}$ and is therefore considered satisfactory for the purposes of condition 5.

It is relevant to note also that, in the event the lower floors are converted to residential use, than this value would comfortable exceed the requirements in Part E of the Building Regulations.

I trust the above is in order.

Yours sincerely,
For 24 Acoustics Ltd

Steve Gosling BEng (Hons) FIOA FRSA MAES
Principal Consultant

FIGURE 1 – PARTY FLOOR