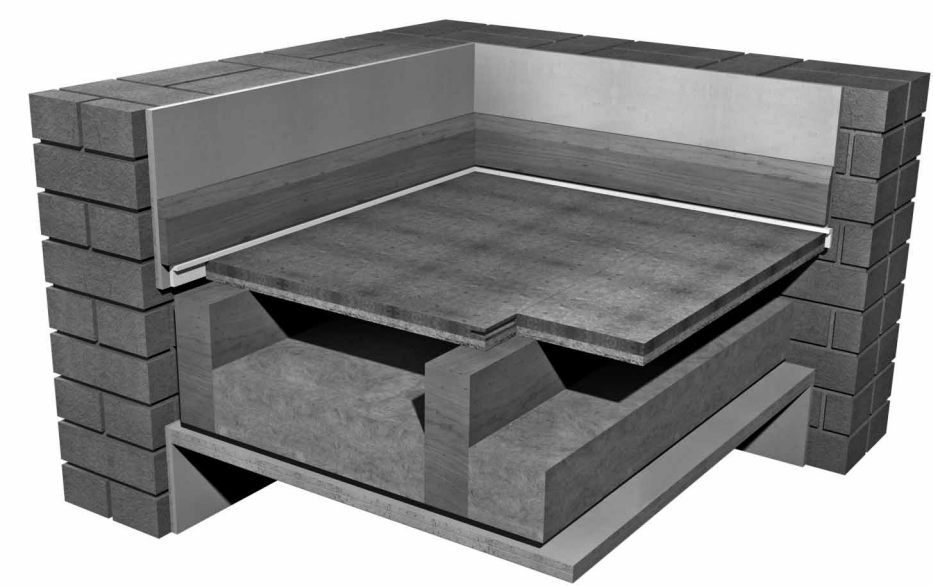
isocheck™
acoustic insulating products

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One of the isomass systems range

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.

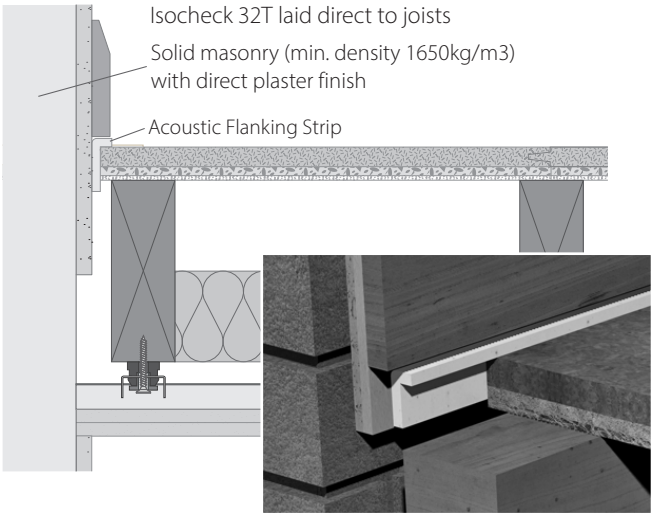
- Isocheck 32T laid directly on joists or on existing floorboards
- 200mm x 70mm timber joists @ 450mm centres.
- 100mm 45kg/m^3 insulation between joists.
- Min. 20kg/m^2 double boarded min. 25mm o/a plasterboard on Isocheck Isoblock and Isobar system.

PREPARATION

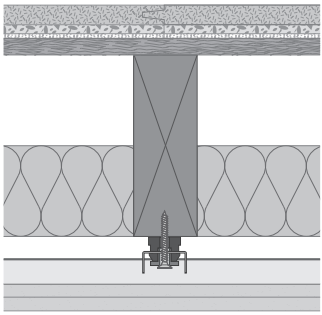
- ❏ The presence of steel work, lift shafts and even ceiling penetrations can often impair acoustic performance. NB: low density/ lightweight construction (eg. blockwork) can cause significant reduction in acoustic performance. If any of these (or other issues not previously declared) are present on 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.

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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