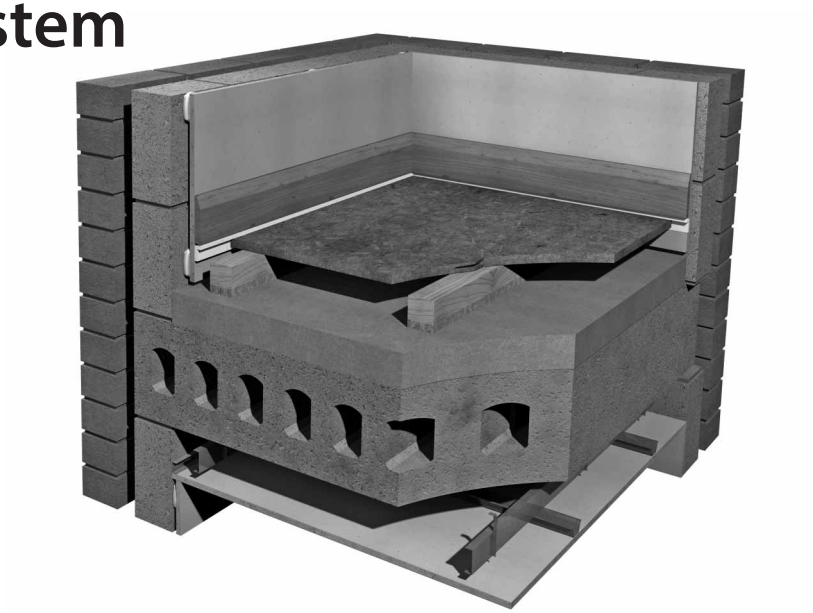
isocheck™
acoustic insulating products

Issue 4.6 January 2026

One of the isomass systems range

Installation instructions

Shallow Batten System



SUSPENDED SYSTEM FOR CONCRETE AND TIMBER FLOORS

- New build
- Conversions
- Refurbishments

Independently laboratory tested

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

MADE IN THE UK

QAS International ISO 9001:2015 REGISTERED COMPANY

PRODUCT DATA

Overall size:	45mm x 45mm x 1800mm 45mm x 50mm x 1800mm
Resilient layer thickness:	10mm ACF (45mm) 15mm ACF (50mm)
Resilient layer:	ACF (Acoustic Chip Foam)

DESCRIPTION

- ❏ The Isocheck Shallow Batten system is designed to reduce noise transmission through a concrete or timber structural sub-floor.
- ❏ To be used over level, smooth concrete or timber floors for new build projects, refurbishments and conversions.
- ❏ May be installed in conjunction with underfloor heating systems.

TYPICAL BUILDUP - concrete

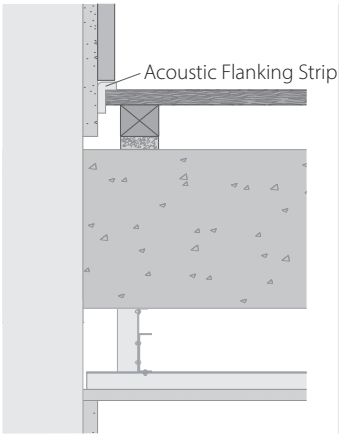
- Min. 18mm proprietary T&G deck over isocheck
- 45mm or 50mm Isocheck Shallow Batten. @ 400mm max. centres.
- Optional 25mm APR insulation between battens
- Level, smooth concrete slab
- Metal frame suspended ceiling with min. 80mm void and 10kg/m^2 plasterboard.

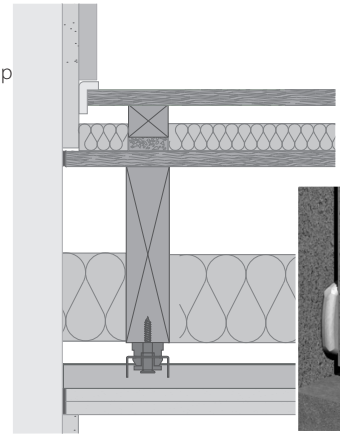
PREPARATION

- ❏ The sub-floor is to be swept free of any loose debris leaving a smooth surface on which to place the Isocheck Batten.
  The building must be weatherproof and completely dried out before commencing installation of the flooring system. It is most important for the reduction of airborne sound to block any air passage in the structural floor, at the perimeter of the floor and wherever the floor is penetrated.
  Any flooring components exposed to wet conditions should be replaced.
- ❏ The location of services should be detailed at an early stage. Services should be kept at least 150mm away from walls to allow space for perimeter acoustic battens.

INSTALLATION

- ❏ All Isocheck Shallow Battens must either be laid directly above the main floor joists running in the same direction or be laid perpendicular to the direction of the structural joists and be supported by them.
- ❏ Lay Shallow Battens foam side down around the perimeter of the room approx. 50mm from the wall.
  Battens should then be laid at max. 400mm centres under normal domestic loading in main habitable areas. Higher load areas such as bathrooms, kitchens etc. will require the battens to be installed at reduced centres. Please contact Isomass for detailed advice.
- ❏ It is strongly recommended that all stud walls are constructed onto the working deck and not onto the floating floor construction.
- ❏ Start each alternate row of Shallow Battens with a cut length so that ends are staggered.
- ❏ Where services interrupt the run of Shallow Battens, notching is not recommended. Battens should be cut and placed approx. 20mm either side of the interruption (eg. pipework).





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



INSTALLATION continued...

- ❏ Isocheck Shallow Batten should be installed within each doorway so as to form a ladder frame effect to provide extra support.
- ❏ A gap of c. 5mm should be left between the bottom of door frames and the top of the flooring deck.
- ❏ The structural performance and location of partitions should be in accordance with the recommendations of the timber kit supplier.
- ❏ For normal domestic loading applications an 18mm/22mm thick T&G board should be used, where battens are at max. 400mm centres. We recommend that board joints do not coincide with plasterboard joints. Short edges of board should always be located above battens.
- ❏ Areas such as bathrooms and kitchens will typically require reduced batten centres for additional loadbearing capability. Please contact Isomass before commencing work.
- ❏ The 18mm/22mm deck should be fixed using annular ring shank nails or screws. Again, it is important that such fixings do not bridge the batten's foam layer.
- ❏ All tongue and grooved board joints must be fully glued and tightly abutted.
- ❏ Gaps or holes where services exit the flooring should be sealed with Isocheck Acoustic FR Sealant.
- ❏ Isocheck angled flanking band should be placed into the expansion gap between boards and wall. Skirting boards may then be fitted by placing them directly onto the angled flanking band and removing excess with a sharp knife. Isolation of the skirting from the floor is essential to prevent noise transmission. Flanking band is a permanent fixture and must not be removed.

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 building products.

isomass® building acoustics

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