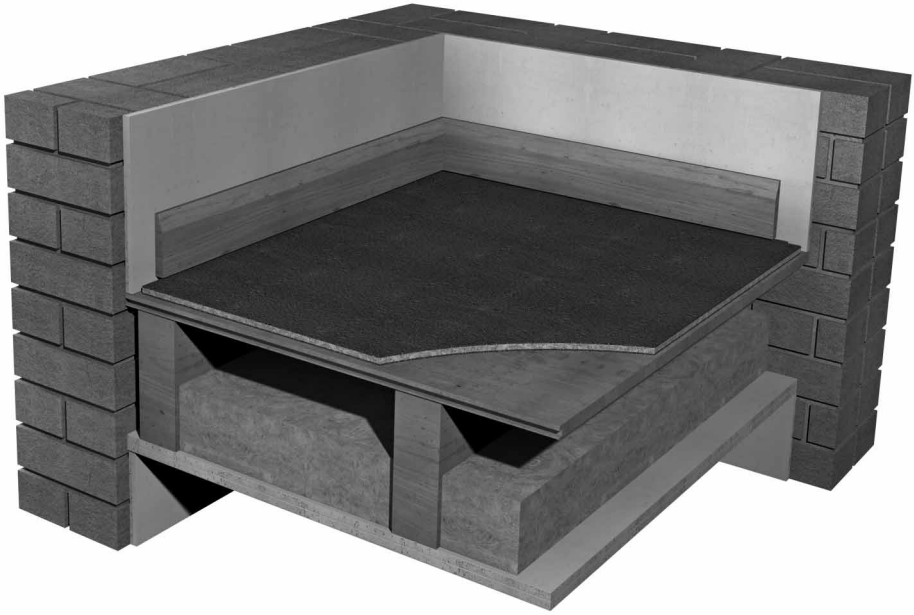
monodeck™
acoustic insulating products

Issue 1.7 January 2026

One of the isomass systems range

Mat 15 System

Installation instructions



IMPACT & AIRBORNE NOISE REDUCTION SYSTEM for

- 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

PRODUCT DATA

Overall size:	1200 x 1000mm x circa 15mm
Resilient layer:	Circa 8mm ACF foam core
Weight:	Approx. 13kg/m^2



DESCRIPTION

- ❏ The Monodeck Mat 15 system is designed to reduce airborne & impact sound transmission through timber or concrete floors. It is ideal for floor upgrades when looking to improve sound reduction on stairs and under engineered timber floors.
- ❏ Can be used on concrete or over floorboards for conversions, refurbishments or listed buildings requiring minimal structural change.

Example Construction

- Monodeck Mat 15.
- floorboards, min. 18mm thick.
- min. 200 x 50mm timber joists @ 400 mm centres.
- 100mm 45Kg/m^3 insulation between joists.
- lath and plaster ceiling or 25mm o/a double boarded ceiling (min. 20kg/m^2) fixed to timber joists.

PREPARATION

- ❏ Ensure sub-floor surface is smooth, dry and free from debris and any existing floor coverings such as vinyl or carpet tiles must be removed together with any adhesive residue.
- ❏ Secure all loose floorboards ensuring all nails and screws are driven flush and securely fixed.
- ❏ Overlay the timber sub-floor with large sheets of ply or hard board if the floorboards are irregular or uneven. Alternatively a proprietary smoothing compound may be used.
- ❏ Remove any doors that open into the room being treated along with skirting if required.

INSTALLATION - GENERAL

- ❏ Be aware that doors, skirting and socket height may need adjusting after the Monodeck Mat 15 installation.
- ❏ Where you intend to use ceramic tiles or vinyl as a floor finish please contact us for additional advice.

INSTALLATION

- ❏ Where required to be bonded , please contact Isomass for further advice.
- ❏ Where applicable apply Isocheck isolation strip vertically to base of perimeter walls
- ❏ Lay Monodeck Mat 15 directly on top of the sub-floor so that the entire floor surface area is covered and that it is butted up to Isolation Strip where it terminates at all perimeter walls.

- ❏ In the case of a carpet finish Monodeck Mat 15 will terminate at the edge of the gripper rail. It may be necessary to add additional depth under the gripper rail in the form of plywood strips in order to reduce perimeter camber of carpet finish. In the case of a finished timber floor the skirting should be removed and replaced onto Isocheck EPDM skirting strip.
- ❏ Finished floor surfaces should be applied as follows.
  - Carpets can sometimes be laid directly onto Monodeck Mat 15 but may require an underlay dependent upon carpet type, in order to minimise appearance of joints through the carpet.
  - Laminated floor panels cannot usually be placed directly onto Monodeck Mat 15 and will require the Isocheck 9mm T&G MDF boards over prior to laying.
  - Engineered timber flooring can sometimes be laid direct onto Monodeck Mat 15, but typically only plank-type with T&G joints. Small section engineered finishes may require the inclusion of Isocheck 9mm T&G MDF board or a thicker layer if the engineered flooring is thinner than 14mm.
  - Vinyl covering cannot be placed directly onto Monodeck Mat 15 and will often require Isocheck 9mm T&G MDF board which should then be further overlaid with a bonded layer of min. 6mm plywood to increase stability.

If in doubt as to the installation of the above or any other floor finishes please contact Isomass for further advice.

PROTECTION

- ❏ Upon completion ensure the Monodeck Mat 15 is protected from any mechanical damage where appropriate.

HANDLING

- ❏ Please observe proper lifting methods and if transporting around site, by hand.

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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