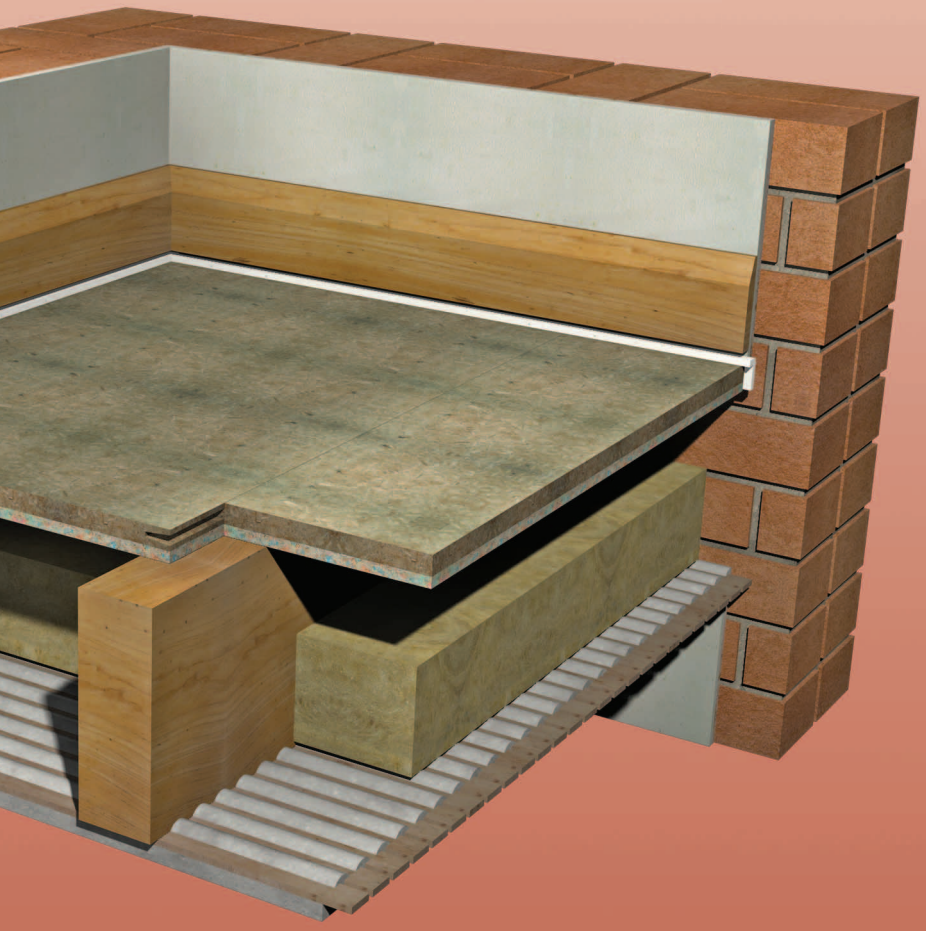
Issue 2.15 • February 2026

One of the isomass standard systems range

monodeck™

37T system



DIRECT TO JOISTS SYSTEM

- New build
- Conversion
- Refurbishment
- Listed Buildings

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

MADE IN THE UK

QAS International ISO 9001:2015 REGISTERED COMPANY

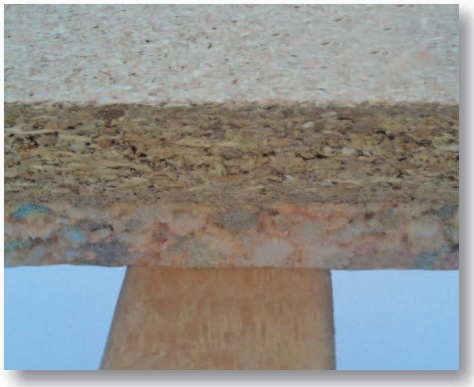
Taking the *mystery* out of Acoustics

DESCRIPTION

- The Monodeck 37T system is designed to replace floorboards and reduce sound transmission.
- Monodeck 37T consists of a layer of 15mm reconstituted ACF (Acoustic Chip Foam) bonded to 22mm V313 P5 moisture resistant chipboard.
- When installed as part of a complete sound reduction system, it enables a traditional timber joisted 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 direct to joists for conversions, refurbishments, new build or listed buildings requiring minimal structural change with a new plasterboard or existing lath and plaster ceiling.



monodeck™
acoustic insulating products

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acoustic insulating products

direct to joists acoustic floor system

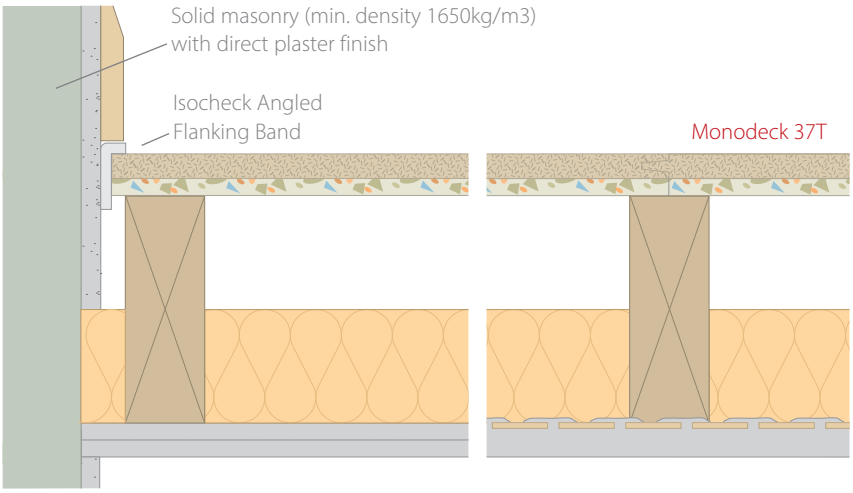
Product data

Overall size:	2400mm x 600mm x 37mm
Resilient layer thickness:	15mm
Resilient layer:	High density reconstituted ACF (Acoustic Chip Foam)
Weight:	23.5kg 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}	$L'_{nT,w}$
Monodeck 37T	**52dB**	**46dB**	**51dB**	**59dB**

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



- Monodeck 37T system on 200mm x 70mm timber joists @ 450mm centres.
- 100mm 45Kg/m³ insulation between joists.
- Lath and plaster ceiling or 30mm o/a double boarded ceiling (min. 20kg/m²) fixed to timber joists.
- Isocheck Angled Flanking Band reduces impact vibration leaking via structural walls and assists in reducing airborne sound paths (on both constructions).
- Note: tested only with direct fixed ceilings.

OTHER PRODUCTS IN THE MONODECK RANGE

- **Monodeck 17T, 26T & 30T:** overlay platform systems direct to floorboards to reduce transmission through timber floors in situations where finished floor height is not critical.
- **Monodeck 32T:** overlay platform systems direct to joists to reduce transmission and thermally enhance traditional joisted timber floors.
- **Monodeck 26C:** overlay platform system to reduce sound transmission and impact sound transmission through concrete floors.

SPECIFICATION

The acoustic floor shall be:

- Monodeck 37T, 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

- Apply Isocheck Angled Flanking Band on the edges of the Monodeck boards just before they are pushed against the perimeter walls to isolate the board from the wall (as shown in the diagrams).
- Lay Monodeck 37T directly to the timber joists, in brick bond pattern, applying Isocheck D3 Adhesive to all tongued and grooved panel joints without the need for mechanical fixings.
- Install skirting over exposed flanking band and trim off any excess.
- Full installation instructions are available for download and must be used in conjunction when laying this floor system.

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.

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.

*Laboratory results are predicted to enable a comparison

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building acoustics

Isomass Limited, Unit 14 Papworth Business Park, Stirling Way, Papworth Everard, Cambridgeshire CB23 3GY
Tel: 0330 175 8228 • Email: info@isomass.co.uk