

One of the **isomass** systems range

isocheck™

RENOVO System



OVERLAY PLATFORM SYSTEM DIRECT TO FLOORBOARDS

- Refurbishments
- Conversions
- Listed buildings requiring minimal structural change



Taking the *mystery* out of Acoustics

DESCRIPTION

- ❑ The Isocheck RENOVO system is an overlay system, designed to reduce sound transmission through traditional joisted timber floors.
- ❑ Isocheck RENOVO consists of 8mm environmentally friendly Ecopoli resilient layer* bonded to 18mm p5 moisture resistant chipboard.
- ❑ 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 directly over existing floorboards in refurbishment, conversion and listed building projects.



Renovo with lath & plaster ceiling



RENOVO... an environmentally sound solution for conversions, refurbishments & listed buildings

Architects and builders alike are continually looking for suppliers that can innovate towards helping them to prove their green credentials without compromising on quality and performance. Isomass Ltd is such a supplier with considerable practical knowledge in the field of building acoustics, underpinned by a mission to continually innovate.

With the increasing demand for building products to help safe guard the environment Isomass Ltd are pleased to offer this acoustic overlay system that not only raises the bar with its environment credentials but delivers a performance that eclipses comparative systems when utilising a direct fixed ceiling such as existing lath & plaster.

Composition

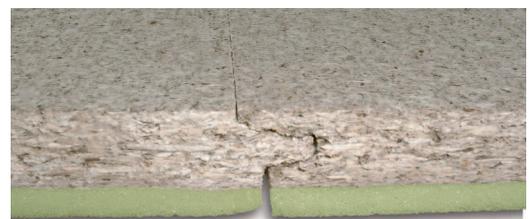
Isocheck RENOVO's resilient layer (ecopoli) contains 20% renewable vegetable based components compared to zero in traditionally manufactured petroleum-based foams, with the added benefit of using less fossil fuel components in its manufacture. A completely new catalyst enables castor oil to be employed in the production of low-emission polyols. With castor oil accounting for 30% of the polyol's total weight it can contribute to yet another renewable recipe to help our environment.



Flower of the castor oil plant (*Ricinus communis*).

Performance Benefits (ideal for listed buildings)

Isocheck RENOVO has been tested by the NHBC for use in conversion applications and comfortably meets the required performance standards as specified in Approved Document E 2003 without a proprietary resilient bar or MF suspended ceiling system. So now (in cases where the floor void is 200mm or above) it is not necessary to remove a direct fixed ceiling and the existing floor may be rebuilt as a working platform before Isocheck RENOVO is incorporated over the floorboards or chipboard. Making the Isocheck RENOVO system one of the last operations thus avoiding costly protection necessary on alternative direct to joist systems.



Castor seed is the source of castor oil, which has a wide variety of uses. The seeds contain between 20% and 90% oil that is rich in triglycerides, mainly ricinolein. Native to Africa, Asia and now naturalised throughout Australia, it is often abundant along watercourses and floodplains.

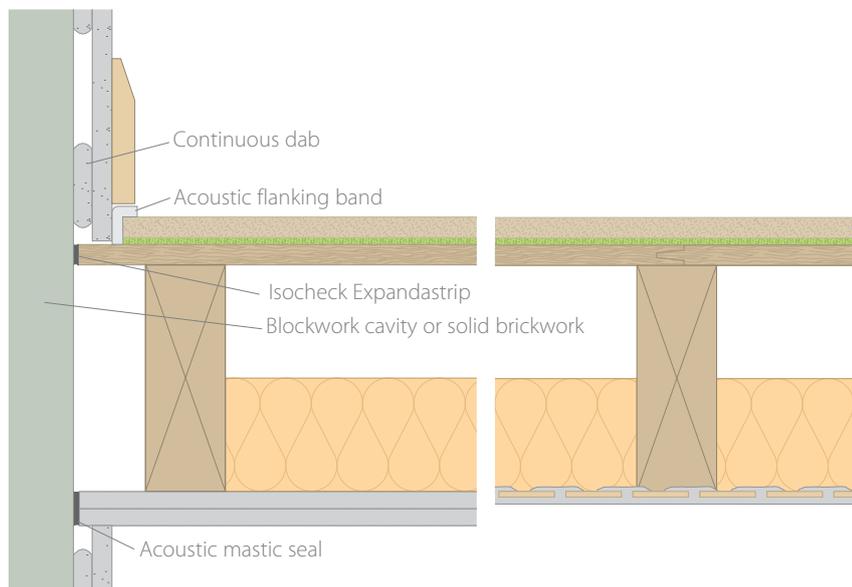
Product data

| | |
|----------------------------|--|
| Overall size: | 2400mm x 600mm x 26mm |
| Resilient layer thickness: | 8mm |
| Resilient layer: | * Ecopoli - produced from the castor oil plant |
| Weight: | 18.8kg per sheet |

Typical performance expectations (on the constructions illustrated)

| Treated floor with: | Airborne | | Impact | |
|--|----------------|---------------------|-------------|-------------|
| | $R_w + C_{tr}$ | $D_{nT,w} + C_{tr}$ | L'_{nw} | $L'_{nT,w}$ |
| Isocheck RENOVO on 18mm chipboard deck | 51dB | 45dB | 52dB | 59dB |

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



- ❑ Isocheck RENOVO.
- ❑ Floorboards.
- ❑ 200mm x 70mm timber joists @ 450mm centres.
- ❑ 100mm 45kg/m³ insulation between joists.
- ❑ 25mm o/a double boarded ceiling or Lath & Plaster ceiling (min 20kg/m²) fixed to timber joists.
- ❑ acoustic flanking band reduces impact vibration leaking via structural walls and assists in reducing airborne sound paths.

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.

**Laboratory results are predicted to enable a comparison

www.isomass.co.uk
www.monodeck.co.uk

SPECIFICATION

The acoustic floor shall be:

- ❑ Isocheck RENOVO system, supplied by Isomass Ltd. Units 10 & 11, Avenue Business Park, Elsworth, Cambridgeshire CB23 4EY and installed in accordance with manufacturer's instructions / recommendations.

INSTALLATION

- ❑ Lay Isocheck RENOVO over a structural timber sub-floor, in brick bond pattern, applying Isocheck adhesive to all tongued and grooved panel joints.
- ❑ 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.
- ❑ 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.

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.