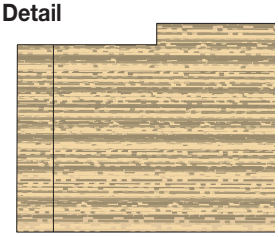
Data Sheet: **Acoustideck**

An acoustic floor which exceeds the requirement of Document E with the added benefit of full accessibility enabling use of the sub floor void for services

Feature Benefits

- Lock down system for maximum rigidity and stability
- Light weight reduces floor slab loadings - makes lifting easy
- Solid underfoot - no creaking or rocking
- Fully accessible and interchangeable panels
- Variable floor heights
- Accomodates variable slab surfaces and levels
- Increased loading capabilities
- Exceeds impact sound requirements of document E
- The pedestal base receives the unique Kingspan snap-on flexible polymer based acoustic pad
- Chipboard used in the manufacture of the panel is FSC certified

Section showing Corner Detail



Panel Illustration

Typical Areas of Application

Residential, retail, student accommodation, schools and hotels.

***Description**

This acoustic flooring system has been designed to exceed the requirements of Document E when incorporated with standard concrete slab and ceiling construction.

Specification

Panel Material	High density chipboard
Support	Zinc plated pedestals
Support Fixing	1 part adhesive
Finished Floor Heights	45mm to 370mm
Damping Media	Moulded TPR pad - thermo plastic rubber
Panel Attachment	Clamping washer and screw
Robust Details Compliance requirement	rdΔL_w17dB
Kingspan Rating	rdΔL_w19dB (E-FC-1, E-FC-2, E-FC-7)
Building Regulations	Part E Compliant

Kingspan®

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System Construction

The system is based on a 600mm square high performance moisture resistant chipboard panel machined to provide a corner lockdown facility. Corner locking is achieved using a clamping washer and screw.

The panel is supported by an adjustable zinc plated steel pedestal with a moulded plastic cap which provides positive location for the panel and includes provision for the lockdown screw.

The pedestal base receives the unique Kingspan snap-on flexible polymer based acoustic pad which fits snugly around the base ensuring continuous acoustic separation between pedestal and the slab.

The pedestal and acoustic pad can be adhered to the slab using a specially formulated adhesive with the pedestal base and acoustic pad both having been designed to enable adhesive penetration through the combined unit to ensure full system adhesion to the slab. At the perimeter a class O fire rated foam tape is employed between the floor and wall to help minimise flanking transmission.

Acoustic performance

Achieves the requirements of part E of Building regulations when used as part of Robust Detail floor construction E-FC-1, E-FC-2 & EFC-7.

Laboratory impact transmission performance when tested in accordance with 'Appendix D' of RD is; rdΔLw = 19dB.

Structural Performance

Based on Eurocode 5 (EC5) and factored according to EC1

Panel Type	Point Load capacity (SLS)	Application
25mm*	2.0 kN	Residential
30mm	2.7 kN	Commercial, education
38mm	4.0 kN	Commercial, education

* Moisture resistant available

SLS: Serviceability Limit State

Finished floor heights from 45mm to 370mm are available using one of our range of standard pedestals.
For heights outside of this range alternative pedestals are available.

Special Applications

Bridging Sections	Where obstructions in the void prevent the use of pedestals
Ramps and Steps	Provided to accommodate changes in floor level

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