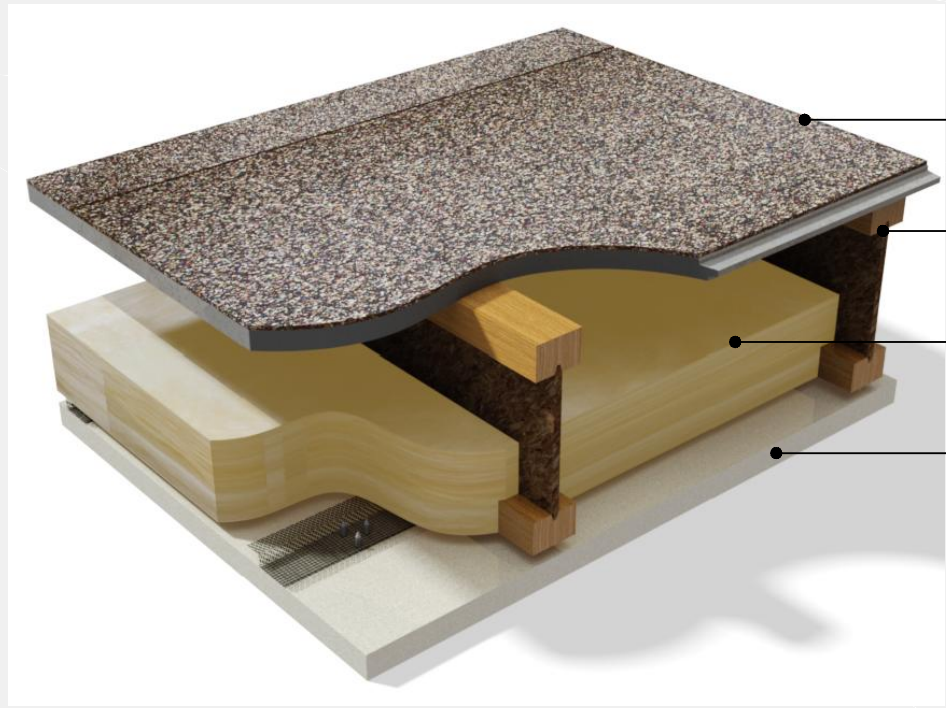


OVERVIEW

HardieFloor dB® Flooring (27mm) Direct to Timber Floor I-Joist



Floor Decking HardieFloor dB® Flooring.
(Size: 27 x 500 x 2400mm)

Joists 235mm (min) timber I-joists at 600mm max spacing, 27mm HardieFloor dB only.

Absorbent Material 100mm (min) quilt insulation (10 kg/m²) between joists.

Ceiling Two Ceiling Treatment Options using Resilient Bars:

Option 1 - JHC1:
Two layers of gypsum-based board, composed of 19mm (nominal 13.5 kg/m²) fixed with 32mm screws, and 12.5mm (nominal 10 kg/m²) fixed with 42mm screws fixed to resilient bars under the floor joists.

Option 2 - JHC2:
Two layers of gypsum-based board, composed of 15mm (nominal 12.5 kg/m²) fixed with 25mm screws, and 15mm (nominal 12.5 kg/m²) fixed with 42mm screws fixed to resilient bars under the floor joists.

- All the benefits of HardieFloor plus direct fix to joist acoustic performance beyond the requirements of Approved Document E
- Lowest height direct to joist acoustic solution in the market
- Highly effective with wet under-floor heating
- Tile directly without the need for an overlay

PERFORMANCE ATTRIBUTES		EXTERIOR WALL CONSTRUCTION OPTIONS	
ACOUSTIC AIRBORNE (R _w + C _{tr}) (Higher the Better)	ACOUSTIC IMPACT (L _{nT,w}) (Lower the Better)	OPTION 1: DOUBLE BRICK (TYPICAL REFURBISHMENT)	OPTION 2: TIMBER FRAMED (TYPICAL NEW CONSTRUCTION)
55 dB	54 dB		
Airborne Code Requirements	Impact Code Requirements		
New Construction Building Regulation ≥ 45 dB ✓	New Construction Building Regulation ≤ 62 dB ✓		
Refurbishment Building Regulation ≥ 43 dB ✓	Refurbishment Building Regulation ≤ 64 dB ✓		
Acoustic Values Based on BRE Test Report Number: 295713 Code requirements correct as of June 2015			
FIRE RESISTANCE (min)	60		

Fire Resistance Based on Exova Warrington Fire Report No. 337348

The above minimum code requirements were current at time of publication, but are subject to change. Refer to code requirements.

The acoustic performance of the floor structure will be adversely affected should acoustic bridging between HardieFloor and the surrounding structure occur (known as flanking transmission).

All floor finishes must be isolated from the surrounding walls (including plaster finish and skirting boards), door linings, services and other structural elements. To address flanking risk, each potential problem area needs to be detailed accordingly.