Refurbishment and conversion timber separating floor

CELLECTA DECK*fon*® 37T acoustic treatment laid directly on existing timber joists
New ceiling on resilient bars

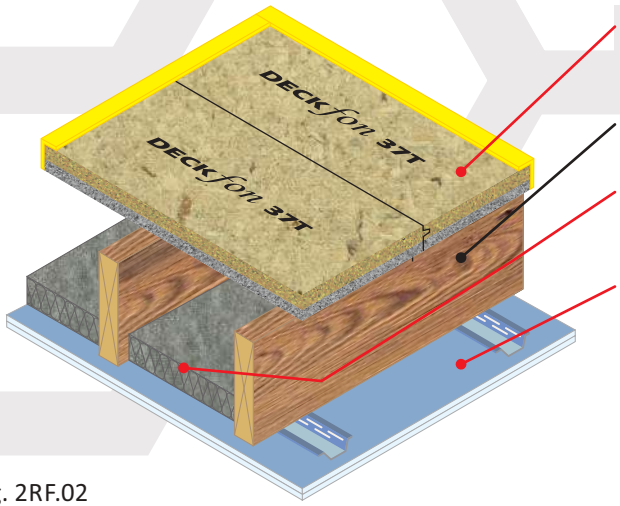


Fig. 2RF.02

Floating floor treatment	CELLECTA DECK*fon*® 37T (See Table 2RF.02a for full details)
Floor joist	200mm (min) solid timber joists
Absorbing material	○ 50mm CELLECTA FIBRE*fon*® Micro 50 ● 100mm (min) mineral wool (45kg/m³)
Ceiling	See Table 2RF.02b for ceiling treatment

FASTRACKCAD ARCHITECTURAL CAD DATABASES

nbsPlus

Table 2RF.02a

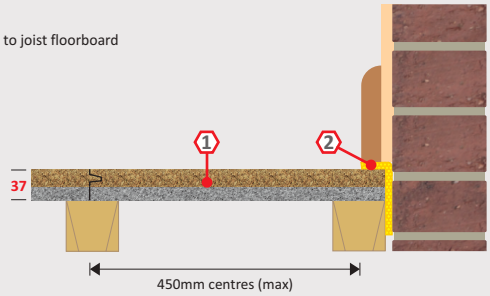
Installation Details

Structural composite treatment laid directly on floor joists

① **DECK*fon*® 37T** Composite acoustic direct to joist floorboard
37mm x 600mm x 2400mm
Weight: 16.70kg/m² / 24.05kg/board

Ⓐ **CELLECTA *fon* Adhesive**
Acoustic board joint adhesive
Bottle size: 1L / 33m² coverage

② **YELO*fon*® ES5/100**
Perimeter edge strip: 5mm x 100mm x 50m



Additional item required:
○ 50mm CELLECTA **FIBRE*fon* Micro 50** non-itch polyester quilt
● 100mm (min) mineral wool 45kg/m³

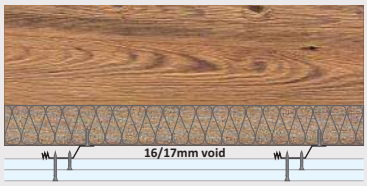
Construction notes
Materials must be installed in accordance with manufacturers' instructions to achieve stated acoustic values. The floor treatment must not be mechanically fixed to the floor joists or surrounding structures. Wall treatments MUST be isolated from the floating floor with **YELO*fon* ES5/100** flanking strip. Services should not come into direct contact with the floor.

Table 2RF.02b

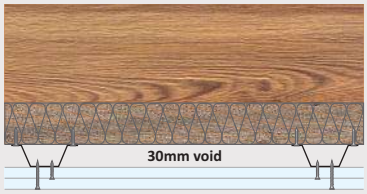
Ceiling Treatment Options

Ceiling boards must not penetrate or touch joists
● 16mm (min) metal resilient bars mounted at right angles to the joists at 400mm (max) centres.
○ 30mm CELLECTA **HP30** resilient bars mounted at right angles to the joists at 600mm (max) centres.

Ceiling treatment
Two layers of gypsum-based board, composed of 15mm (nominal 12.5kg/m²) fixed with 25mm screws and a second layer of 15mm (nominal 12.5kg/m²) fixed with 42mm screws, with all joints staggered.



Standard resilient bars set at 450mm (max) centres



HP30 resilient bars set at 600mm (max) centres

+ 3 dB $R_w + C_{tr}$ [1]

+ 2 dB $L_{n,w}$ [1]

[1] Typical dB improvement of **HP30** over 16mm resilient bars.

Acoustic Performance

Airborne: 51dB $R_w + C_{tr}$

Impact: 55dB $L_{n,w}$

Performance values quoted were achieved using 50mm x 235mm solid timber joists and 16mm resilient bars installed at Sound Research laboratories, Sudbury. Tested in accordance with Approved Document E: Annex B: Procedures for sound insulation testing.
Airborne results tested in accordance with BS EN ISO 140-3:1995
Impact results tested in accordance with BS EN ISO 140-6: 1998

Third Party Accreditation and Approvals

SRL Performance Tested

bmtrada 2015

Environmental Credentials

GWP <5

100% Recyclable Foam

zero ODP

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