

# Refurbishment/conversion timber separating floor

CELLECTA acoustic treatment laid on timber sub-floor  
Existing timber joists  
Ceiling on resilient bars

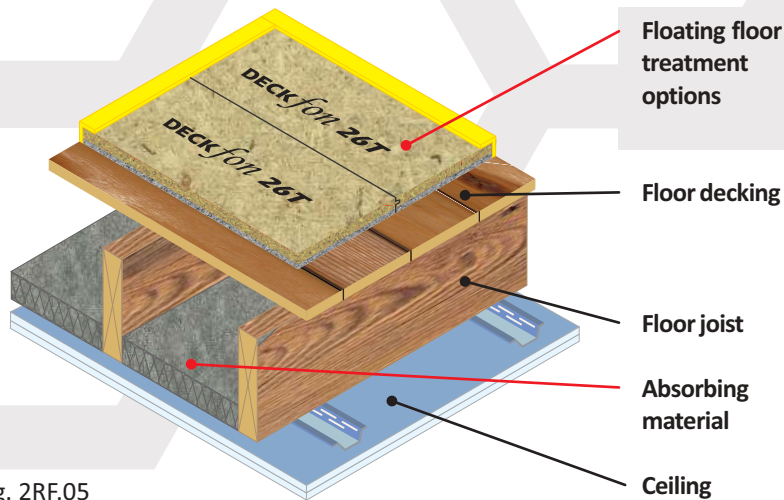


Fig. 2RF.05

Floating floor treatment options

CELLECTA DECKfon® 17T  
CELLECTA DECKfon® 26T  
CELLECTA DECKfon® 30T  
(See Table 2RF.05a for full details)

Floor decking

15mm thick (min) wood based board, density 600kg/m<sup>3</sup> (min) or existing floor boards, with all gaps sealed with suitable flexible mastic

Floor joist

200mm (min) solid timber joists

Absorbing material

○ 50mm CELLECTA FIBREfon® Micro 50  
● 100mm (min) mineral wool (45kg/m<sup>3</sup>)

Ceiling

See Table 2RF.05b for ceiling treatment

**FASTRACKCAD**  
ARCHITECTURAL CAD DATABASES

**n55Plus**

Table 2RF.05a

## Installation Details

### Resilient shallow overlay platform floor system

**1 DECKfon® 17T** Composite acoustic shallow overlay board  
17mm x 600mm x 2400mm  
Weight: 7.25kg/m<sup>2</sup> / 10.44kg/board

**A CELLECTA fon Adhesive**  
Acoustic board joint adhesive  
Bottle size: 1L / 33m<sup>2</sup> coverage

**2 YELOfon® FS15**  
Preformed flanking strip:  
6mm x 15mm x 30mm x 2m

### Resilient shallow overlay platform floor system

**3 DECKfon® 26T** Composite acoustic overlay board  
26mm x 600mm x 2400mm  
Weight: 13.80kg/m<sup>2</sup> / 19.87kg/board

**A CELLECTA fon Adhesive**  
Acoustic board joint adhesive  
Bottle size: 1L / 33m<sup>2</sup> coverage

**4 YELOfon® FS30**  
Preformed flanking strip:  
6mm x 30mm x 30mm x 2m

### Resilient overlay platform floor system

**5 DECKfon® 30T** Composite acoustic overlay board  
26mm x 600mm x 2400mm  
Weight: 16.00kg/m<sup>2</sup> / 23.04kg/board

**A CELLECTA fon Adhesive**  
Acoustic board joint adhesive  
Bottle size: 1L / 33m<sup>2</sup> coverage

**6 YELOfon® FS30**  
Preformed flanking strip:  
6mm x 30mm x 30mm x 2m

Table 2RF.05b

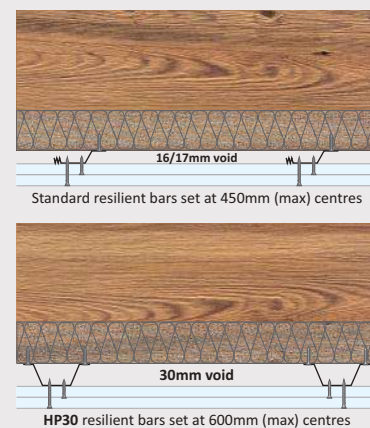
## Ceiling Treatment Options

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/m<sup>2</sup>) fixed with 25mm screws and a second layer of 15mm (nominal 12.5kg/m<sup>2</sup>) fixed with 42mm screws, with all joints staggered.



+ 3 dB  $R_w + C_{tr}^{(1)}$   
+ 2 dB  $L_{n,w}^{(1)}$

<sup>(1)</sup> Typical dB improvement of HP30 over 16mm resilient bars.

## Acoustic Performance

Performance values quoted were achieved using 50 x 235mm solid timber joists 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

