

Refurbishment/conversion timber separating floor

CELLECTA acoustic treatment laid on timber sub-floor

Existing timber joists

Ceiling on resilient bars

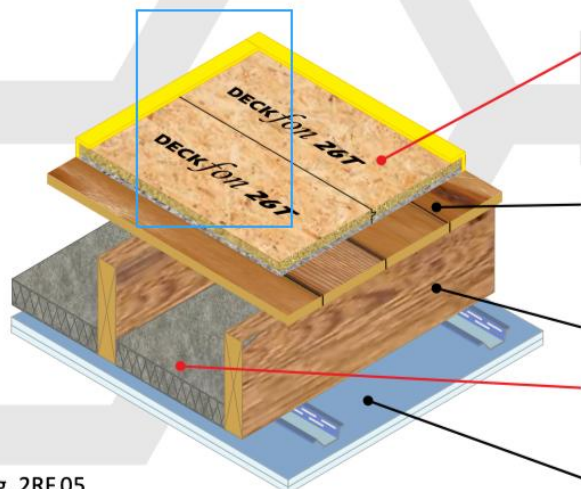


Fig. 2RF.05

Floating floor treatment options

CELLECTA DECKfon^d 17T (MDF)
CELLECTA DECKfon^d 26T (OSB/Ply/Chip)
CELLECTA DECKfon^d 30T (Chip)
(See Table 2RF.05a for full details)

Floor decking

15mm thick (min) wood based board, density 600kg/m³ (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^d Micro 50
● 100mm (min) mineral wool (45kg/m³)

Ceiling

See Table 2RF.05b for ceiling treatment

FASTRACKCAD
ARCHITECTURAL CAD DATABASES

NSPlus

Table 2RF.05a

Installation Details

Resilient shallow overlay platform floor system

1 **DECKfon^d17T** Composite acoustic shallow overlay board
17mm x 600mm x 2400mm
Weight: 7.25kg/m² / 10.44kg/board

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

2 **YELOfon^dFS15**
Preformed flanking strip:
6mm x 15mm x 30mm x 2m

Airborne	Impact
50dB $R_w + C_{tr}$	56dB $L_{n,w}$

Resilient shallow overlay platform floor system

3 **DECKfon^d26T** Composite acoustic overlay board
26mm x 600mm x 2400mm
Chipboard: 13.80kg/m² / 19.87kg/board
Ply: 11.80kg/m² / 16.99kg/board
OSB: 12.36kg/m² / 17.79kg/board

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

4 **YELOfon^dFS30**
Preformed flanking strip:
6mm x 30mm x 30mm x 2m

Airborne	Impact
51dB $R_w + C_{tr}$	57dB $L_{n,w}$

Resilient overlay platform floor system

5 **DECKfon^d30T** Composite acoustic overlay board
26mm x 600mm x 2400mm
Weight: 16.00kg/m² / 23.04kg/board

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

6 **YELOfon^dFS30**
Preformed flanking strip:
6mm x 30mm x 30mm x 2m

Airborne	Impact
51dB $R_w + C_{tr}$	56dB $L_{n,w}$

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

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



Environmental Credentials



01634 29-66-77



cellecta.co.uk



technical@cellecta.co.uk