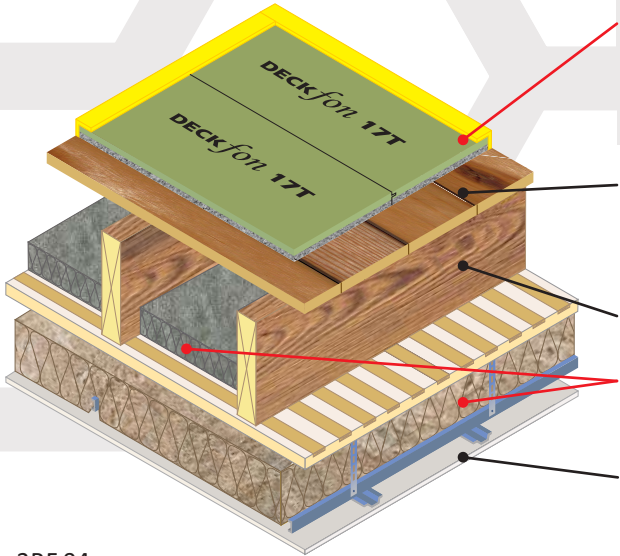


Refurbishment and conversion timber separating floor

CELLECTA acoustic treatment laid on timber sub-floor
Existing timber joists
Metal frame secondary ceiling hung off primary ceiling



Floating floor treatment options

- CELLECTA **DECKfon**® 17T
 - CELLECTA **DECKfon**® 26T
 - CELLECTA **ScreedBoard**® 28
- (See Table 2RF.04a 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

Solid timber joists

Absorbing material

- 50mm CELLECTA **FIBREfon**® Micro 50
- 100mm (min) mineral wool (10kg/m³)

Ceiling

See Table 2RF.04b for ceiling treatment

Fig. 2RF.04



Table 2RF.04a

Installation Details

Resilient shallow overlay platform floor system

1 **DECKfon**® 17T 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**® FS15
Preformed flanking strip:
6mm x 15mm x 30mm x 2m

Airborne
51dB $R_w + C_{tr}$

Impact
55dB $L_{n,w}$

Resilient shallow overlay platform floor system

3 **DECKfon**® 26T Composite acoustic overlay board
26mm x 600mm x 2400mm
Weight: 13.80kg/m² / 19.87kg/board

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

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

Airborne
52dB $R_w + C_{tr}$

Impact
56dB $L_{n,w}$

Resilient overlay platform floor system

5 **ScreedBoard**® 28 High density acoustic overlay board
Dimensions: 28mm x 600mm x 1200mm
Weight: 26kg/m² / 18.72kg/board

A **CELLECTA Pro** Adhesive
ScreedBoard joint adhesive
Bottle size: 1L / 33m² coverage

6 **YELOfon**® FS50
Preformed flanking strip:
6mm x 50mm x 30mm x 2m

Airborne
52dB $R_w + C_{tr}$

Impact
55dB $L_{n,w}$

Table 2RF.04b

Ceiling Treatment Options

Primary ceiling fixed directly to joists with metal frame ceiling system, providing 100mm (min) ceiling void fixed to underside

Primary ceiling

- Retained lath and plaster ceiling with minimum mass of 16kg/m²
- Gypsum-based boarded ceiling with a nominal weight of 16kg/m² fixed directly to the joists

Sacrificial ceiling
Metal frame (MF) ceiling system with 100mm (min) void fixed to underside of primary ceiling, 50mm **FIBREfon** Micro 50 or 100mm mineral wool (10kg/m³) fitted between grid and one layer of 8kg/m² gypsum-based board

100mm (min)

Additional item required:

- 50mm CELLECTA **FIBREfon** 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. Wall treatments must be isolated from the floating floor with **YELOfon** FS flanking strip. Ensure services do not come into contact with the floor treatment. Once laid, 17T boards should be covered with the final floor finish as soon as possible to eliminate the risk of mechanical damage to the edge detail. Part B/Section 2 of Building Regulations/Standards must be adhered to ensure the ceilings fire performance meets legislative requirements.

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



Refurbishment/conversion timber separating floor

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

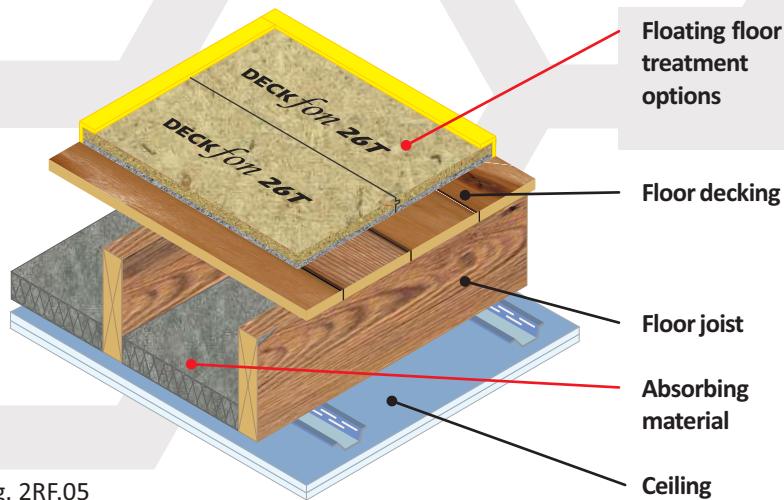


Fig. 2RF.05

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/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® Micro 50
● 100mm (min) mineral wool (45kg/m³)

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/m² / 10.44kg/board

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

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

Airborne
50dB $R_w + C_{tr}$

Impact
56dB $L_{n,w}$

Resilient shallow overlay platform floor system

3 **DECKfon® 26T** Composite acoustic overlay board
26mm x 600mm x 2400mm
Weight: 13.80kg/m² / 19.87kg/board

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

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

Airborne
51dB $R_w + C_{tr}$

Impact
57dB $L_{n,w}$

Resilient overlay platform floor system

5 **DECKfon® 30T** 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® FS30**
Preformed flanking strip:
6mm x 30mm x 30mm x 2m

Airborne
51dB $R_w + C_{tr}$

Impact
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/m²) fixed with 25mm screws and a second layer of 15mm (nominal 12.5kg/m²) 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

