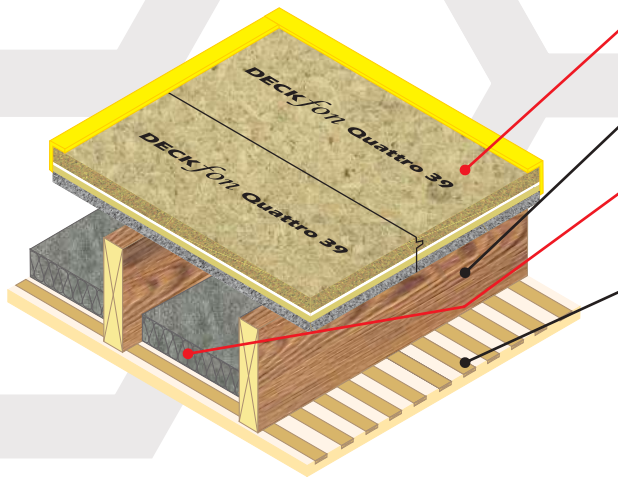


Refurbishment and conversion timber separating floor

CELLECTA DECKfon® Quattro 39 acoustic treatment laid directly on existing timber joists
Existing ceiling retained or up-graded



Floating floor treatment

CELLECTA DECKfon® Quattro 39
(See Table 2RF.01a for full details)

Floor joist

200mm (min) solid timber joists

Absorbing material

- 50mm CELLECTA FIBREfon® Micro 50
- 100mm (min) mineral wool (45kg/m³)

Ceiling

See Table 2RF.01b for ceiling treatment

Fig. 2RF.01

FASTRACKCAD
ARCHITECTURAL CAD DATABASES

NSPlus

Table 2RF.01a

Installation Details

Structural composite treatment laid directly on floor joists - Ceiling retained

- 1 DECKfon® Quattro 39 Composite acoustic direct to joist floorboard
39mm x 600mm x 2400mm
Weight: 20.95kg/m² / 30.17kg/board
- A CELLECTA fon Adhesive
ScreedBoard joint adhesive
Bottle size: 1L / 33m² coverage
- 2 YELOfon® ESS/120
Perimeter edge strip: 5mm x 120mm x 50m

Additional item required

- 50mm CELLECTA FIBREfon Micro 50 non-itch polyester quilt
- 100mm (min) mineral wool 45kg/m³

Airborne	Impact
49dB $R_w + C_{tr}$	58dB $L_{n,w}$

Table 2RF.01b

Ceiling Treatment Options

Ceiling treatment

Lath and plaster or plasterboard ceiling with minimum mass of 16kg/m², fixed directly to floor joists.

Structural composite treatment laid directly on floor joists - New ceiling

- 1 DECKfon® Quattro 39 Composite acoustic direct to joist floorboard
39mm x 600mm x 2400mm
Weight: 20.95kg/m² / 30.17kg/board
- A CELLECTA fon Adhesive
ScreedBoard joint adhesive
Bottle size: 1L / 33m² coverage
- 2 YELOfon® ESS/120
Perimeter edge strip: 5mm x 120mm x 50m

Additional item required:

- 50mm CELLECTA FIBREfon Micro 50 non-itch polyester quilt
- 100mm (min) mineral wool 45kg/m³

Airborne	Impact
54dB $R_w + C_{tr}$	48dB $L_{n,w}$

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, as shown.

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.

HP30 resilient bars set at 600mm (max) centres

Acoustic Performance

Performance values quoted were achieved using 50mm 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

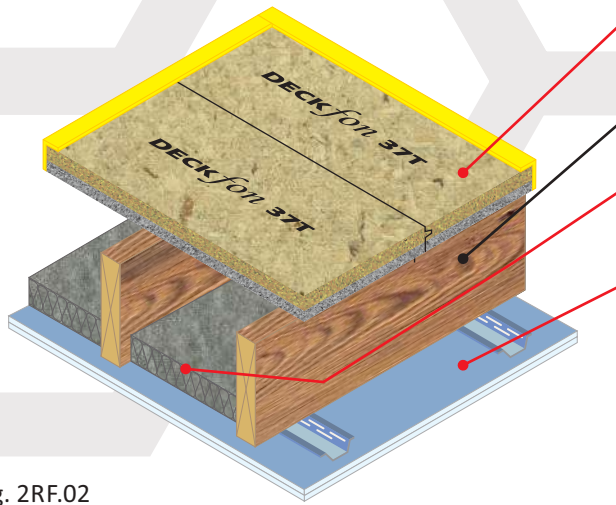
Third Party Accreditation and Approvals



Environmental Credentials

Refurbishment and conversion timber separating floor

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



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

Fig. 2RF.02



Table 2RF.02a

Installation Details

Structural composite treatment laid directly on floor joists

- 1 DECKfon® 37T Composite acoustic direct to joist floorboard
37mm x 600mm x 2400mm
Weight: 16.70kg/m² / 24.05kg/board
- A CELLECTA fon Adhesive
Acoustic board joint adhesive
Bottle size: 1L / 33m² coverage
- 2 YELOfon® ESS/100
Perimeter edge strip: 5mm x 100mm x 50m

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. 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 YELOfon ESS/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.

+ 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



Environmental Credentials

Refurbishment and conversion timber separating floor

CELLECTA DECKfon® ULTRAmat 15 acoustic mat laid on timber sub-floor
Existing timber decking, floor joists and ceiling retained or replaced

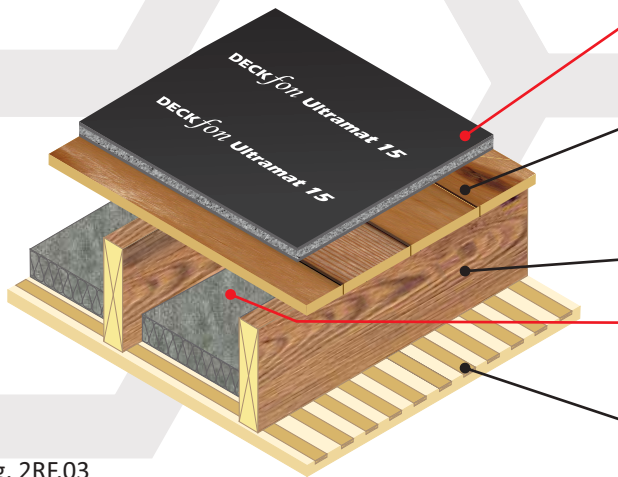


Fig. 2RF.03

Floating floor treatment

CELLECTA DECKfon® ULTRAmat 15
(See Table 2RF.03a 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.03b for ceiling treatment



Table 2RF.03a

Installation Details
Structural composite treatment laid directly on floor joists - Ceiling retained

1 DECKfon® ULTRAmat 15 High density composite acoustic overlay mat
Dimensions: 15mm x 1200mm x 1200mm
Weight: 15kg/m² / 21.6kg/mat

2 YELOfon® ES5/15
Perimeter edge strip: 5mm x 15mm x 50m

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

Airborne	Impact
45dB R _w + C _{tr}	59dB L _{n,w}

Table 2RF.03b

Ceiling Treatment Options

Ceiling treatment
Lath and plaster or plasterboard ceiling with minimum mass of 16kg/m², fixed directly to floor joists.

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, as shown.

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.

HP30 resilient bars set at 600mm (max) centres

Structural composite treatment laid directly on floor joists - New ceiling

1 DECKfon® ULTRAmat 15 High density composite acoustic overlay mat
Dimensions: 15mm x 1200mm x 1200mm
Weight: 15kg/m² / 21.6kg/mat

2 YELOfon® ES5/15
Perimeter edge strip: 5mm x 15mm x 50m

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

Airborne	Impact
51dB R _w + C _{tr}	55dB L _{n,w}

Acoustic Performance

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

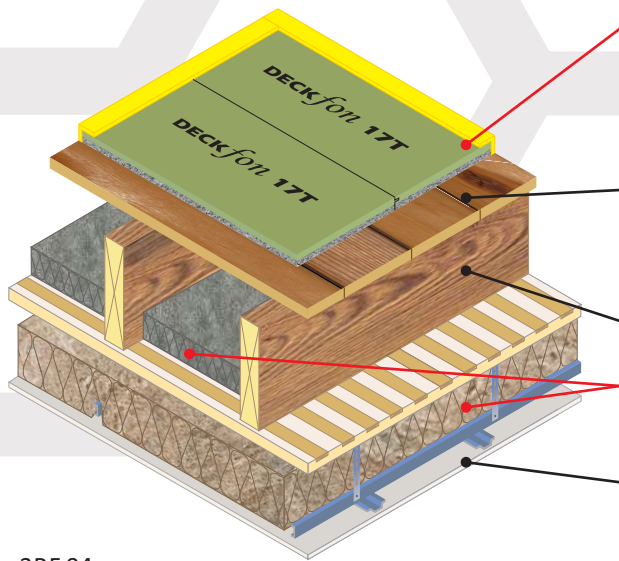
Third Party Accreditation and Approvals



Environmental Credentials

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	Impact
51dB R_w + C_{tr}	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	Impact
52dB R_w + C_{tr}	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	Impact
52dB R_w + C_{tr}	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

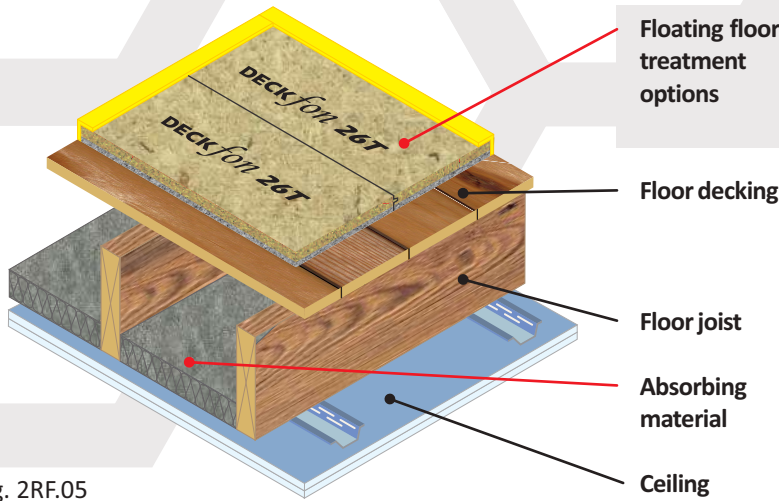


Fig. 2RF.05

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)

See Table 2RF.05b for ceiling treatment



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/m³) fixed with 25mm screws and a second layer of 15mm (nominal 12.5kg/m³) 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

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

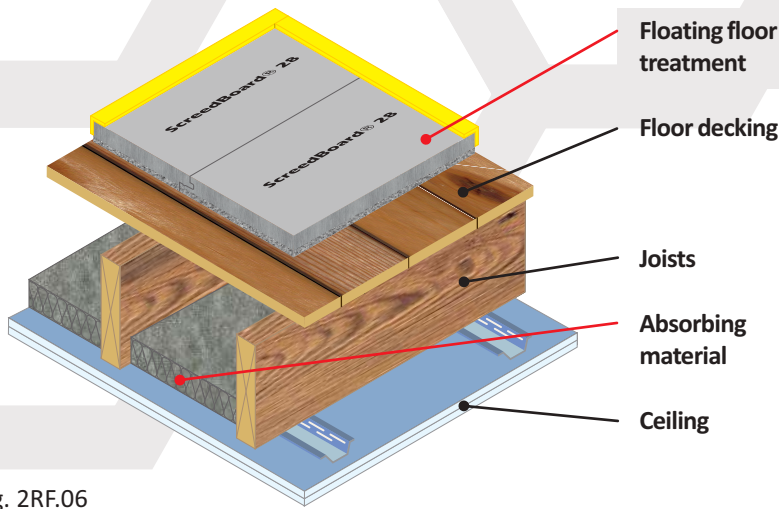
Third Party Accreditation and Approvals



Environmental Credentials

Refurbishment/conversion timber separating floor

CELLECTA ScreedBoard® 28 laid on timber sub-floor
 Existing timber joists
 New ceiling fixed to resilient bars



Floating floor treatment

Floor decking

Joists

Absorbing material

Ceiling

CELLECTA ScreedBoard® 28
 (See Table 2RF.06a for full details)

15mm thick (min) wood based board, density 600kg/m³ (min) or existing floor boards (with all gaps sealed with suitable flexible mastic)

200mm (min) solid timber joists

- 50mm **CELLECTA FIBREfon® Micro 50**
- 100mm (min) mineral wool (45kg/m³)

See Table 2RF.06b for ceiling treatment

Fig. 2RF.06



Table 2RF.06a

Installation Details

Resilient overlay platform floor system

- 1 **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
- 2 **YELOfon® FS50**
 Preformed flanking strip:
 6mm x 50mm x 30mm x 2m

Additional Products for this application

- 50mm **CELLECTA FIBREfon Micro 50** non-itch polyester quilt
- 100mm (min) mineral wool 45kg/m³

Install **RUBBERfon® TSS** (Threshold Support Strip) at door thresholds or where square edge boards meet, reducing excessive flex, whilst maintaining acoustic performance.
Composition: 100% recycled re-bonded rubber
Size: 8mm x 75mm x 1000mm

Remove a 40mm section of resilient layer off each edge to accommodate a **Threshold Support Strip (TSS)**

Provide an 5-10mm expansion gap between the habitable and communal area treatments

Table 2RF.06b

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: 52dB R_w + C_{tr}

Impact: 54dB L_{n,w}

Performance values quoted were achieved using 50 x 235mm solid timber and 16mm resilient bar at Sound Research Laboratories, Sudbury 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

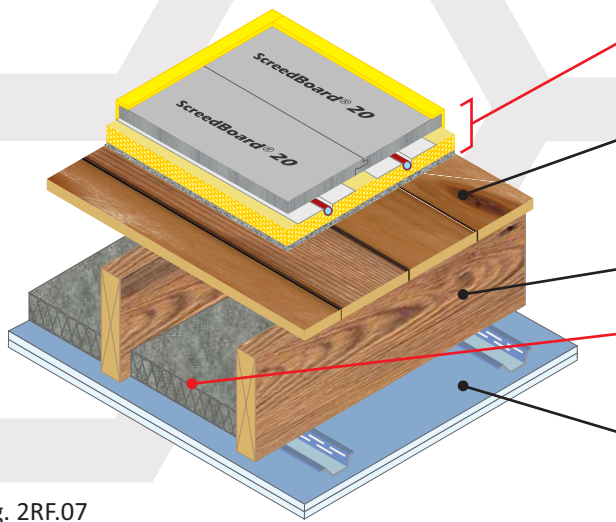


Environmental Credentials



Refurbishment/conversion timber separating floor

CELLECTA Mojave® dry laid resilient system incorporating underfloor heating
Existing timber joists
New ceiling fixed to resilient bars



Floating floor treatment +UFH

CELLECTA Mojave® S1-8 platform floor system incorporating underfloor heating

Floor decking

15mm thick (min) wood based board, density 600kg/m³ (min) or existing floor boards (with all gaps sealed with suitable flexible mastic)

Joists

200mm (min) solid timber joists

Absorbing material

- 50mm CELLECTA FIBREfon® Micro 50
- 100mm (min) mineral wool (45kg/m³)

Ceiling

See Table 2RF.07b for ceiling treatment

Fig. 2RF.07



Timber floor - Treatment laid on sub-floor

Table 2RF.07a

Installation Details

Resilient overlay platform floor system incorporating underfloor heating

CELLECTA Mojave® S1-8
Dry laid acoustic treatment incorporating underfloor heating system

- 1 ScreedBoard® 20**
High conductivity overlay board:
20mm x 600mm x 1200mm
Weight: 25kg/m² / 18.00kg/board
Thermal resistance: 0.05m²K/W
- A CELLECTA Pro Adhesive**
ScreedBoard joint adhesive
Bottle size: 1L / 33m² coverage
- 2 ULTRAplate**
Aluminium heat diffuser plate (to suit pipe installed):
130mm x 1000mm
- 3 XFLO® 250, 300, 500**
High compressive strength routed XPS insulation board:
15-75mm x 600mm x 1250/2500mm
Compressive strengths available: 250, 300, 500kPa
Pipe centre: 150, 200, 300mm
Pipe bore size (OD): 10 - 20mm (manufactured to suit)
- 4 FIBREfon® 8**
High performance resilient layer:
8mm x 600mm x 1200mm
Weight: 1.00kg/m² / 0.72kg/board
- 5 YELOfon® ES5/120**
Perimeter edge strip:
5mm x 120mm x 50m
- P UFH water pipe (by others)**

HIGH COMPRESSIVE STRENGTH XPS

250-500kPa

Table 2RF.07b

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

Airborne: 52dB R_w + C_{tr}

Impact: 54dB L_{n,w}

Performance values quoted were achieved using 50 x 235mm solid timber and 16mm resilient bar at Sound Research Laboratories, Sudbury 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

