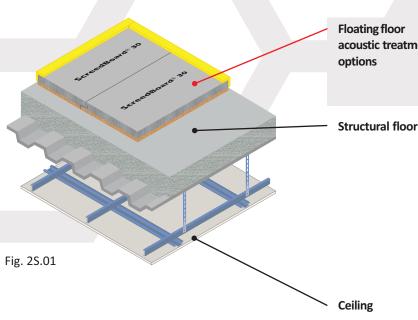
Steel-concrete composite separating floor

Robust Detail E-FS-1 / V-FS-1

CELLECTA floating floor treatment laid on in-situ concrete slab supported by profiled metal deck



Floating floor FFT1 - CELLECTA DECKfon® Batten 70 acoustic treatment FFT2 - CELLECTA RUBBERfon® Cradles options FFT3 - CELLECTA DECKfon® Batten 45 FFT4 - CELLECTA ScreedBoard® 30

FFT5 - CELLECTA FIBREfon® 12C/21C/28C

ructural floor In-situ concrete slab supported by profiled metal decking:

- "Shallow" or "deep" profiled metal decking
- Overall distance from top surface of concrete to underside of ceiling treatment 300mm (min)
- Concrete thickness 80mm (min) at shallowest point and 130mm (min) at deepest point
- Concrete density 2200kg/m³ (min)

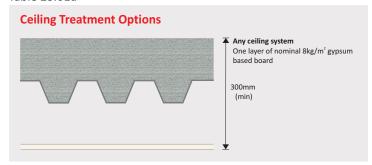
See Table 2S.01a for ceiling treatment options







Table 2S.01a



Acoustic Performance

 $\it Rd$ impact performance values quoted were conducted at Sound Research Laboratories (UKAS ref. 0444) in accordance with BS EN ISO 10140-3 and BS EN ISO 10140-4 and rated in accordance with BS EN ISO 717-2:2013 as detailed in Appendix D of the Robust Details hand book (minimum value required $\it rd$ $\it \Delta L$ = 17dB).

PCT values quoted are typical, based on the treatment being installed correctly and pre-completion tested, with airborne performance tested in accordance with BS EN ISO 140-4:1998 and impact performance tested in accordance with BS EN ISO 140-7: 1998.

Third Party Accreditation and Approvals















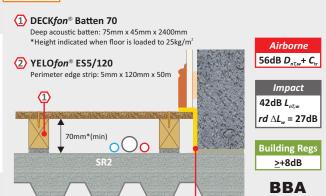






Table 2S.01b

FFT1 Resilient composite deep batten system



Additional item required to complete treatment: 18mm (min) tongue & groove flooring board

Table 2S.01c

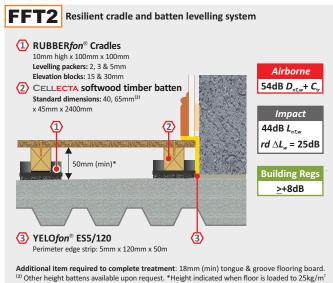


Table 2S.01d

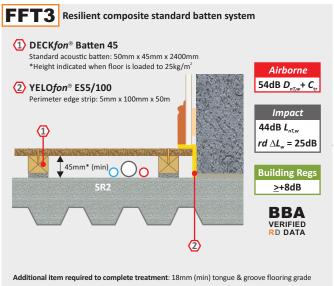


Table 2S.01e

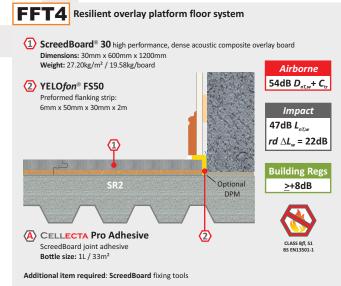
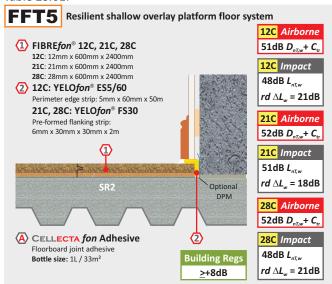


Table 2S.01f



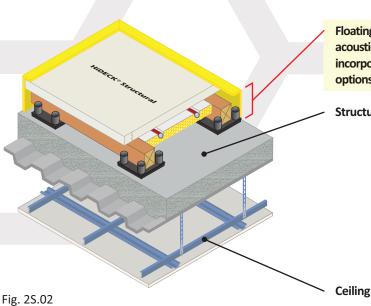
Construction notes

Ceiling treatments detailed can be used with any FFT listed in Table 2S.01b-f.
Slab/levelling screed must be to SR2 Standard when adopting FFT1, 3, 4 or 5.
No services should be installed within the treatment when adopting FFT5.
Materials must be installed in accordance with manufacturers' and Robust Detail instructions to achieve required acoustic performance values. Wall treatments MUST be isolated from the floating floor with YELOfon ES or FS perimeter flanking strip.

Steel-concrete composite separating floor

Robust Detail E-FS-1 / V-FS-1

CELLECTA dry laid resilient systems incorporating underfloor heating In-situ concrete slab supported by profiled metal deck



Floating floor acoustic treatment incorporating UFH options FFT2 - CELLECTA Gobi® cradle & batten system incorporating UFH

FFT4 - CELLECTA Mojave® platform floor system incorporating UFH

Structural floor

In-situ concrete slab supported by profiled metal decking:

- "Shallow" or "deep" profiled metal decking
- Overall distance from top surface of concrete to underside of ceiling treatment 300mm (min)
- Concrete thickness 80mm (min) at shallowest point and 130mm (min) at deepest point
- Concrete density 2200kg/m³ (min)

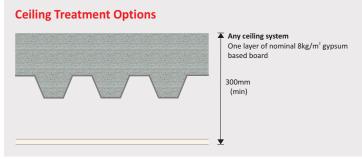
See Table 2S.02a for ceiling treatment options







Table 2S.02a



Construction notes

Ceiling treatments detailed can be used with any FFT listed in Table 2S.02b-c.
Slab/levelling screed must be to SR2 Standard when adoping the Mojave system.
Materials must be installed in accordance with manufacturers' and Robust Detail instructions to achieve required acoustic performance values. Wall treatments MUST be isolated from the floating floor with YELOfon ES or FS perimeter flanking strip.

Acoustic Performance

 $\it Rd$ impact performance values quoted were conducted at Sound Research Laboratories (UKAS ref. 0444) in accordance with BS EN ISO 10140-3 and BS EN ISO 10140-4 and rated in accordance with BS EN ISO 717-2:2013 as detailed in Appendix D of the Robust Details hand book (minimum value required $\it rd$ $\it \Delta L$ = 17dB).

PCT values quoted are typical, based on the treatment being installed correctly and pre-completion tested, with airborne performance tested in accordance with BS EN ISO 140-4:1998 and impact performance tested in accordance with BS EN ISO 140-7: 1998.

Third Party Accreditation and Approvals





VERIFIED RD DATA

















Un-even sub-floor

Table 2S.02b

FFT2 Dry laid resilient cradle and batten levelling system incorporating underfloor heating

Components

1 HiDECK® Structural 25⁽¹⁾

High conductivity structural board: 25mm x 600mm x 1200mm Weight: 31.25kg/m² Thermal resistance: 0.0625m²K/W

A CELLECTA Pro Adhesive HiDECK joint adhesive

Bottle size: 1L / 16m² coverage

CELLECTA softwood timber batten Standard dimensions⁽²⁾: 40, 65mm x 45mm x 2400mm P UFH water pipe (by others) Chain of custody: PEFC & FSC

3 RUBBERfon® Cradles

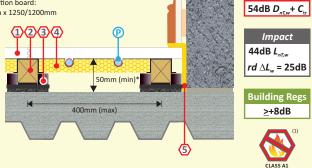
Dimensions: 10mm high x 100mm x 100mm Levelling packers: 2, 3, 5mm Stackable elevation blocks: 15, 30mm

4 XFLO® JB-FF

Foil faced high strength routed XPS insulation board: Dimensions: 30, 40, 50mm x 300/340mm x 1250/1200mm

Pipe centre: 150, 200, 300mm Pipe bore size (OD): 10 - 20mm (manufactured to suit)

5 YELOfon® ES5/120 Perimeter edge strip 5mm x 120mm x 50m



- (1) 28 & 30mm also available to satisfy higher non-domestic loading conditions
- (2) Other height battens available upon request.
- *Height indicated when floor is loaded to 25kg/m²

Level sub-floor (laid to SR2 standard)

FFT4 Dry laid resilient overlay platform floor system incorporating UFH

Table 2S.02c

CELLECTA Mojave® \$1-10

Dry laid acoustic treatment incorporating underfloor heating system

1 ScreedBoard® 20

High conductivity overlay board: Dimensions: 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): Dimensions: 130mm x 1000mm

3 XFLO® 250, 300, 500

High compressive strength routed XPS insulation board: Dimensions: 15-75mm x 600mm x 1200/2500mm Compressive strengths available: 250, 300, 500kPa Pipe centre: 150, 200, 300mm

Pipe bore size (OD): 10 - 20mm (manufactured to suit)

4 FIBREfon® 10

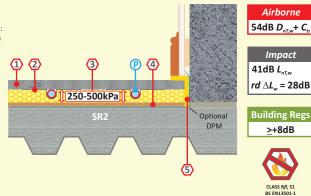
High compressive strength resilient laver: Dimensions: 10mm x 600mm x 1200mm Weight: 2.20kg/m² / 1.58kg/board

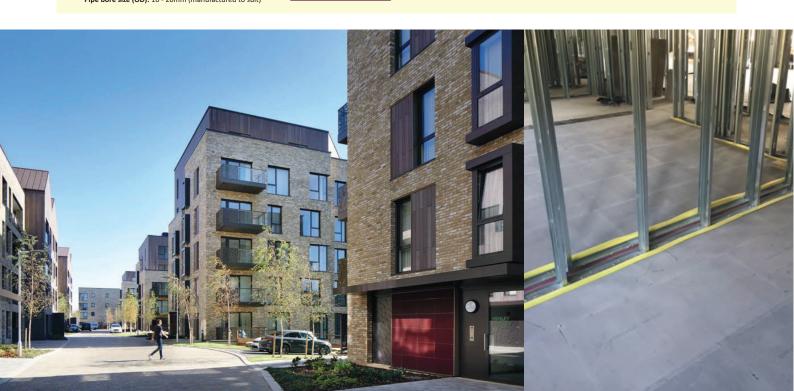
(5) YELOfon® ES5/120 Perimeter edge strip:

5mm x 120mm x 50m

P UFH water pipe (by others)





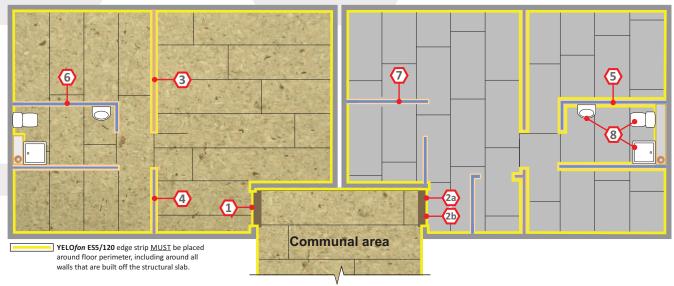


Floating floor treatment design & installation details: FFT1, 2, 3, 4 & 5

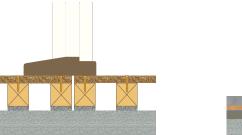
The acoustic performance of the floor will be compromised if the floating floor treatment is not completely isolated from the structural floor, soil pipes, door frames, the surrounding walls and their treatments. To address this risk, each potential problem area needs to be detailed accordingly.

Batten based floating floor treatments

Overlay floating floor treatments

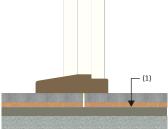


1 Door threshold FFT1, 2, 3



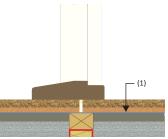
Double up battens each side of the door threshold to provide additional support. Refer to Part B and Section 2 fire safety regulations

2a) Door threshold FFT4 (ScreedBoard 30)



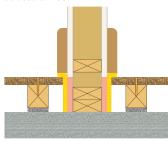
Leave a 5mm (min) gap between the habitable area

2b) Door threshold FFT5



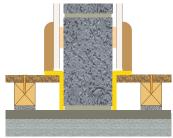
(1) On recently levelled floors, install a DPM below the FFT4, FFT5 floating floor treatment.

3 Timber stud partition built off the structural floor



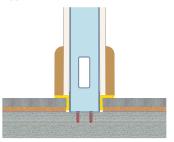
Lightweight internal walls built off the structural floor MUST be isolated from the floating floor treatment (FFT1, 2, 3) with YELOfon ES strip.

4 Internal blockwork wall built off the structural floor



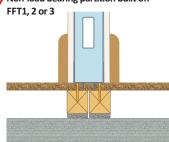
Internal block work walls built off the structural floor must be isolated from the floating floor treatment with YELOfon ES or FS strip.

Metal frame partition built off structural floor



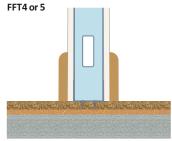
Lightweight internal walls built off the structural floor must be isolated from the floating floor treatment (FFT4, 5) with YELOfon FS strip.

6 Non-load bearing partition built off



Double up battens under internal non-load bearing

7 Non-load bearing partition built off



Internal non-load bearing walls can be built directly off the floor treatment. Fixings <u>MUST</u> not penetrate the resilient layer.

Shower trays, bath surrounds and sanitary ware

Shower trays, bath surrounds and sanitary ware built off the structural floor should be isolated from the floor treatment and any floor finishes with YELOfon ES or FS edge strip.