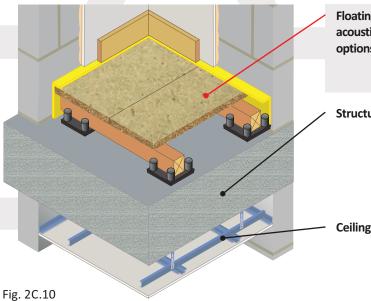
CELLECTA floating floor treatment laid on structural floor In-situ concrete slab



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

Structural floor

- 250mm (min) in-situ concrete slab, 2400kg/m³ density without screed
- 200mm (min) in-situ concrete slab
   2400kg/m³ density with screed: 40mm sand
   & cement screed or 80kg/m² (min)
   proprietary screed directly applied to slab

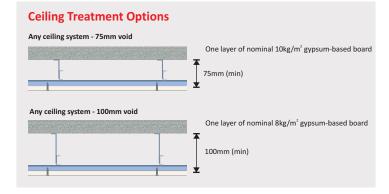
See Table 2C.10a for ceiling treatment options







Table 2C.10a



#### **Acoustic Performance**

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 rd  $\Delta L$  = 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**













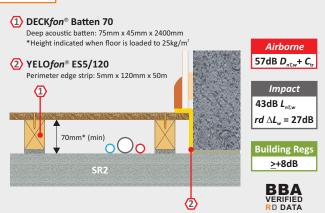






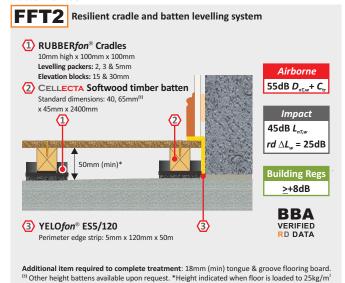
# Table 2C.10b

## FFT1 Resilient composite deep batten system

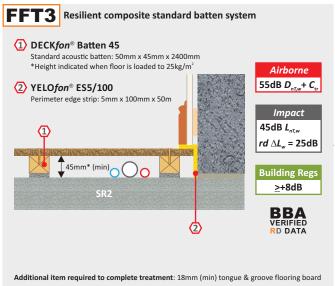


Additional item required to complete treatment: 18mm (min) tongue & groove flooring board

#### Table 2C.10c



#### Table 2C.10d



#### Table 2C.10e

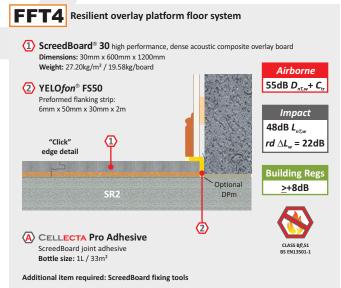
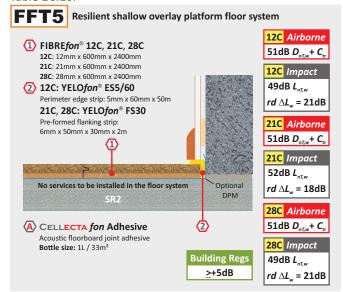


Table 2C.10f



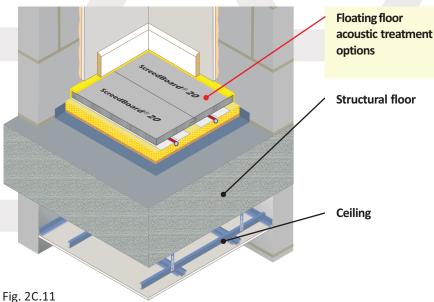
#### Construction notes

Ceiling treatments detailed can be used with any FFT listed in Table 2C.10b-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.

# In-situ concrete slab separating floor

## Robust Detail E-FC-2 + UFH

CELLECTA dry laid resilient systems incorporating underfloor heating In-situ concrete slab



FFT2 - CELLECTA Gobi® cradle & batten system incorporating UFH

FFT4 - CELLECTA Mojave® platform floor system incorporating UFH

• 250mm (min) in-situ concrete slab, 2400kg/m3 density without screed

> • 200mm (min) in-situ concrete slab 2400kg/m<sup>3</sup> density with screed: 40mm sand & cement screed or 80kg/m<sup>2</sup> (min) proprietary screed directly applied to slab

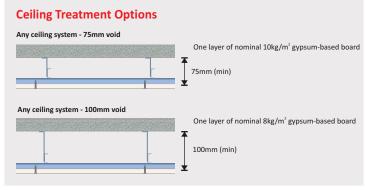
> See Table 2C.11a for ceiling treatment options







Table 2C.11a



#### Construction notes

Ceiling treatments detailed can be used with any FFT listed in Table 2C.11b-c. Slab/levelling screed must be to SR2 Standard when adopting the **Mojave** system.

Materials must be installed in accordance with manufacturers' and Robust Detail instructions to achieve required acoustic performance values. Wall treatments  $\underline{\mathsf{MUST}}$  be isolated from the floating floor with  $\mathbf{YELO} fon$ ES or FS perimeter flanking strip.

#### **Acoustic Performance**

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  $rd \Delta L = 17dB$ ).

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.















PCT values quoted are typical, based on the treatment being installed







## Un-even sub-floor

Table 2C.11b

Airborne

55dB *D<sub>nī,w</sub>+ C*<sub>tr</sub>

 $rd \Delta L_w = 25dB$ 

**Building Regs** 

≥+8dB

45dB *L*<sub>nī,w</sub>

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

#### CELLECTA Gobi® (C2-25 shown)

#### Components

1 HiDECK® Structural 25<sup>(1)</sup>

High conductivity structural board: Dimensions: 25mm x 600mm x 1200mm Weight: 31.25m<sup>2</sup>

Thermal resistance: 0.0625m<sup>2</sup>K/W

A CELLECTA Pro Adhesive

HiDECK joint adhesive

Bottle size: 1L / 16m<sup>2</sup> coverage

CELLECTA softwood timber batten<sup>(2)</sup> Standard dimensions: 40, 65mm x 45mm x 2400mm

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

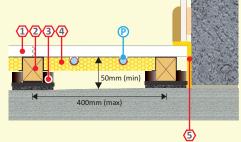
#### 4 XFLO® JB-FF

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

P UFH water pipe (by others)



(1) 28 & 30mm available to satisfy higher non-domestic loading conditions.

(2) Other height battens available upon request.

# Level sub-floor (Laid to SR2 standard)

Table 2C.11c

FFT4 Dry laid resilient overlay platform floor system incorporating UFH

CELLECTA Mojave® (\$1/10 shown)

Dry laid acoustic treatment incorporating underfloor heating system

1 ScreedBoard® 20

High conductivity overlay board: Dimensions: 20mm x 600mm x 1200mm Weight: 25kg/m<sup>2</sup> / 18.00kg/board Thermal resistance: 0.05m<sup>2</sup>K/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: Compressive strengths available: 250, 300, 500kPa Dimensions: 15-75mm x 600mm x 1200/2500mm Pipe centres: 150, 200, 300mm

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

4 FIBREfon® 10

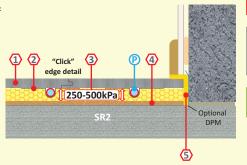
High compressive strength resilient laver: 10mm x 600mm x 1200mm Weight: 2.20kg/m<sup>2</sup> / 1.58kg/board

(5) YELOfon® ES5/120

Perimeter edge strip: 5mm x 120mm x 50m

P UFH water pipe (by others)









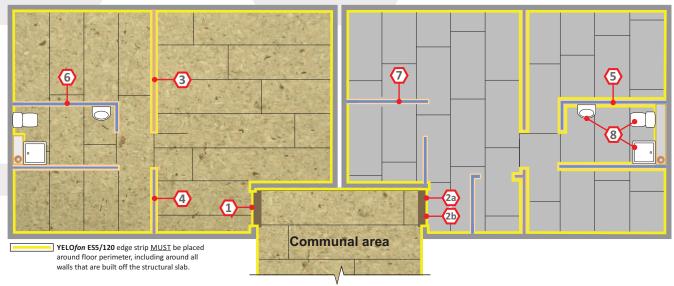


# Floating floor treatment design & installation details: FFT1, 2, 3, 4 & 5

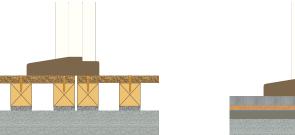
The acoustic performance of the floor will be compromised if the floating floor treatment is not completely isolated from the structural floor, soil pipes, door frames, the surrounding walls and their treatments. To address this risk, each potential problem area needs to be detailed accordingly.

#### **Batten based floating floor treatments**

#### Overlay floating floor treatments

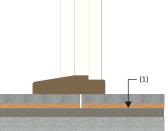


## 1 Door threshold FFT1, 2, 3



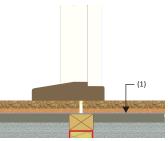
Double up battens each side of the door threshold to provide additional support. Refer to Part B and Section 2 fire safety regulations

# (2a) Door threshold FFT4 (ScreedBoard 30)



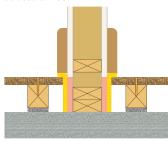
Leave a 5mm (min) gap between the habitable area

# 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



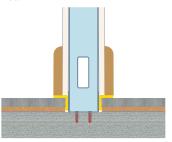
Lightweight internal walls built off the structural floor MUST be isolated from the floating floor treatment (FFT1, 2, 3) with YELOfon ES strip.

# 4 Internal blockwork wall built off the structural floor



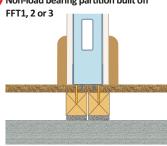
Internal block work walls built off the structural floor must be isolated from the floating floor treatment with YELOfon ES or FS strip.

# Metal frame partition built off structural floor



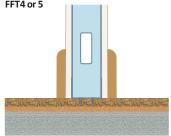
Lightweight internal walls built off the structural floor must be isolated from the floating floor treatment (FFT4, 5) with YELOfon FS strip.

# 6 Non-load bearing partition built off



Double up battens under internal non-load bearing

# Non-load bearing partition built off FFT4 or 5



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.