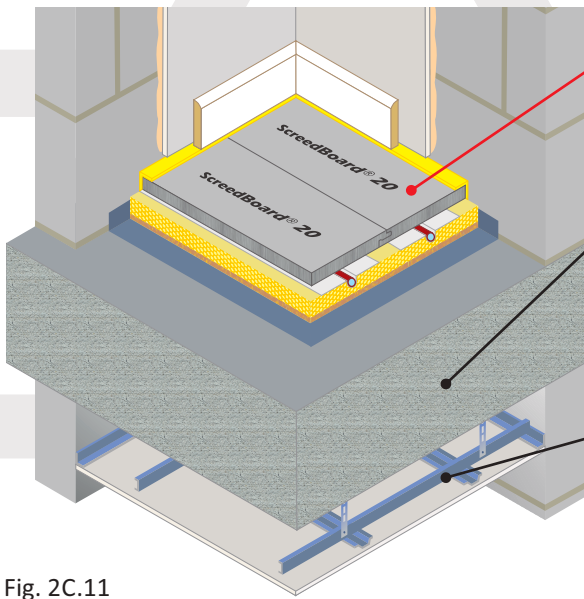


In-situ concrete slab separating floor

Robust Detail E-FC-2 + UFH

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



Floating floor acoustic treatment options
 FFT2 - **CELLECTA Gobi®** cradle & batten system incorporating UFH
 FFT4 - **CELLECTA Mojave®** platform floor system incorporating UFH

Structural floor

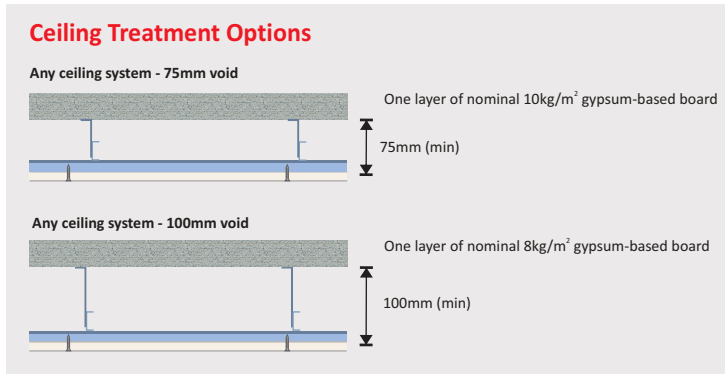
- 250mm (min) in-situ concrete slab, 2400kg/m³ density without screed
- 200mm (min) in-situ concrete slab 2400kg/m³ density with screed: 40mm sand & cement screed or 80kg/m² (min) proprietary screed directly applied to slab

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

Fig. 2C.11



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 **MUST** be isolated from the floating floor with **YELOfon** 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 $rd_{\Delta_w} = 17dB$).
 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



Environmental Credentials



Un-even sub-floor

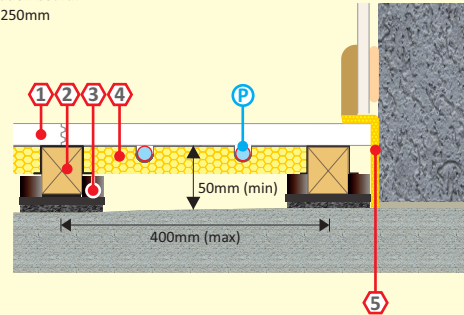
Table 2C.11b

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

CELLECTA Gobi® (C2-25 shown)

Components

- ① **HiDECK® Structural 25⁽¹⁾**
High conductivity structural board:
Dimensions: 25mm x 600mm x 1200mm
Weight: 31.25m²
Thermal resistance: 0.0625m²K/W
- ② **CELLECTA Pro Adhesive**
HiDECK joint adhesive
Bottle size: 1L / 16m² coverage
- ③ **CELLECTA softwood timber batten⁽²⁾**
Standard dimensions: 40, 65mm x 45mm x 2400mm
Chain of custody: PEFC & FSC
- ④ **RUBBERfon® Cradles**
Dimensions: 10mm high x 100mm x 100mm
Levelling packers: 2, 3, 5mm
Stackable elevation blocks: 15, 30mm
- ⑤ **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)
- ⑥ **YELOfon® ES5/120**
Perimeter edge strip:
5mm x 120mm x 50m
- ⑦ **UFH water pipe (by others)**



⁽¹⁾ 28 & 30mm available to satisfy higher non-domestic loading conditions.
⁽²⁾ Other height battens available upon request.

Airborne
55dB $D_{nT,w} + C_{tr}$

Impact
45dB $L_{nT,w}$
 $rd \Delta L_w = 25dB$

Building Regs
≥+8dB

CLASS A1
BS EN13501-1

Level sub-floor (Laid to SR2 standard)

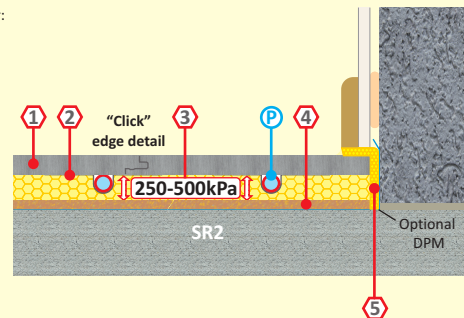
Table 2C.11c

FFT4 Dry laid resilient overlay platform floor system incorporating UFH

CELLECTA Mojave® (S1/10 shown)

Dry laid acoustic treatment incorporating underfloor heating system

- ① **ScreedBoard® 20**
High conductivity overlay board:
Dimensions: 20mm x 600mm x 1200mm
Weight: 25kg/m² / 18.00kg/board
Thermal resistance: 0.05m²K/W
- ② **CELLECTA Pro Adhesive**
ScreedBoard joint adhesive
Bottle size: 1L / 33m² coverage
- ③ **ULTRApate**
Aluminium heat diffuser plate (to suit pipe installed):
Dimensions: 130mm x 1000mm
- ④ **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)
- ⑤ **FIBREfon® 10**
High compressive strength resilient layer:
10mm x 600mm x 1200mm
Weight: 2.20kg/m² / 1.58kg/board
- ⑥ **YELOfon® ES5/120**
Perimeter edge strip:
5mm x 120mm x 50m
- ⑦ **UFH water pipe (by others)**



Airborne
55dB $D_{nT,w} + C_{tr}$

Impact
46dB $L_{nT,w}$
 $rd \Delta L_w = 24dB$

Building Regs
≥+8dB

CLASS Bf,S1
BS EN13501-1

