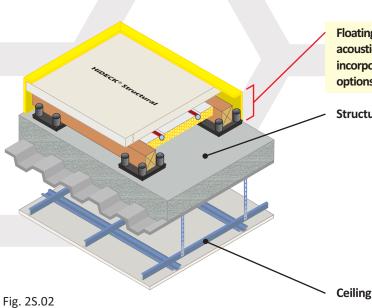
Steel-concrete composite separating floor

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)

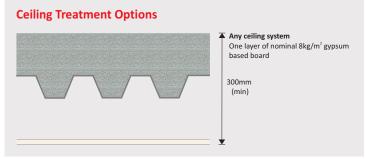
See Table 2S.02a for ceiling treatment options







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 $\it rd$ $\it \Delta L_{\rm w}$ = 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.

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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

(2) 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

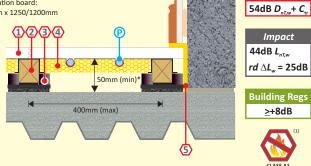
Dimensions: 10mm high x 100mm x 100mm Levelling packers: 2, 3, 5mm Stackable elevation blocks: 15, 30mm

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

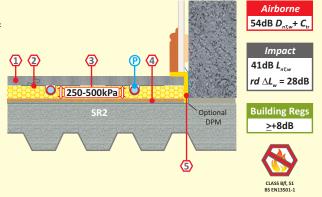
High compressive strength resilient laver: Dimensions: 10mm x 600mm x 1200mm Weight: 2.20kg/m² / 1.58kg/board

(5) YELOfon® ES5/120 Perimeter edge strip

5mm x 120mm x 50m

P UFH water pipe (by others)



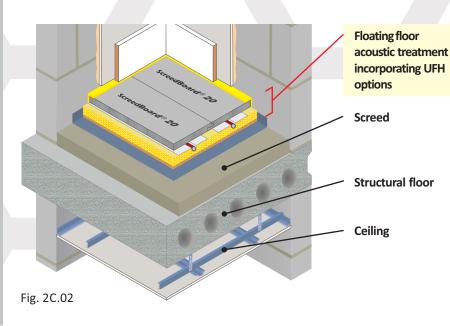




Separating floor - Pre-cast concrete plank

Robust Detail E-FC-1 + UFH

CELLECTA dry laid resilient systems incorporating underfloor heating Pre-cast concrete plank with fully bonded screed



FFT2 - CELLECTA Gobi® C2-25 cradle & batten system incorporating UFH FFT4 - CELLECTA Mojave® \$1-10 platform

floor system incorporating UFH

40mm (min) screed directly applied to plank. Sand: cement or proprietary screed 80kg/m² (min) mass per unit area

- 150mm (min) pre-cast concrete floor plank
- 300kg/m² (min) mass per unit area

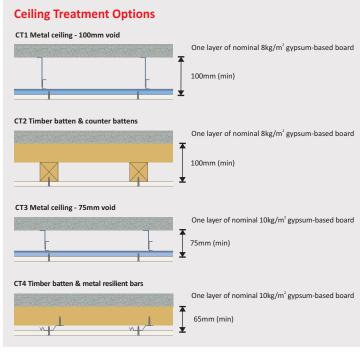
See Table 2C.02a for ceiling treatment options







Table 2C.02a



Ceiling treatments detailed can be used with any FFT listed in Table 2C.01b-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 $\Delta L_{\rm w}$ = 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.

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Un-even Sub-floor

Table 2C.02b

Airborne

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: 31.25kg/m² Thermal resistance: 0.0625m²K/W

A CELLECTA Pro Adhesive

HiDECK joint adhesive

Bottle size: 1L / 16m² coverage

CELLECTA softwood timber batten⁽²⁾ 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

XFLO® JB-FF

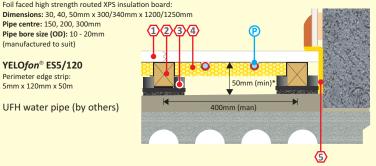
Foil faced high strength routed XPS insulation board:

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)



54dB *D_{nī,w}+ C*_{tr} 49dB *L*,,,, $rd \Delta L_w = 25dB$ **Building Regs** ≥+8dB

BBA

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(1) 28 & 30mm also available to satisfy higher non-domestic loading conditio

(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

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

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 1250/2500mm 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)





Airborne 54dB *D_{nT,w}*+ *C*,

Table 2C.02c

Impact 51dB *L_{nī,w}* $rd \Delta L_w = 24dB$

Building Regs >+8dB

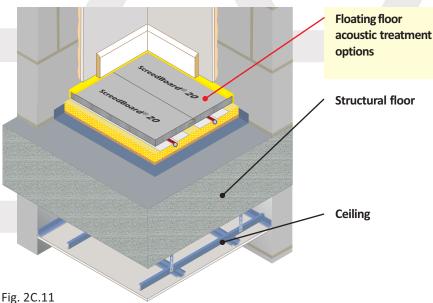




In-situ concrete slab separating floor

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

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

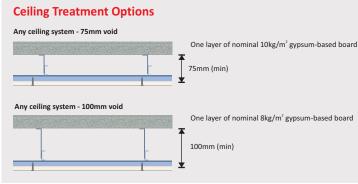
> See Table 2C.11a for ceiling treatment options







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 <u>MUST</u> be isolated from the floating floor with **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 $\Delta L_{\rm w}$ = 17dB).

correctly and pre-completion tested, with airborne performance tested in accordance with BS EN ISO 140-4:1998 and impact

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PCT values quoted are typical, based on the treatment being installed performance tested in accordance with BS EN ISO 140-7: 1998.



Treatments

BBA

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Un-even sub-floor

Table 2C.11b

Airborne

55dB *D_{nī,w}+ C*_{tr}

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

A CELLECTA Pro Adhesive

HiDECK joint adhesive

Bottle size: 1L / 16m² coverage

CELLECTA softwood timber batten⁽²⁾ 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

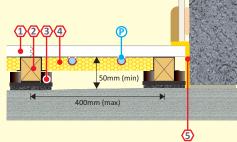
XFLO® JB-FF

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.

45dB *L*_{nī,w} $rd \Delta L_w = 25dB$ **Building Regs** ≥+8dB

Level sub-floor (Laid to SR2 standard)

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/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: 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/m² / 1.58kg/board

(5) YELOfon® ES5/120

Perimeter edge strip 5mm x 120mm x 50m

P UFH water pipe (by others)



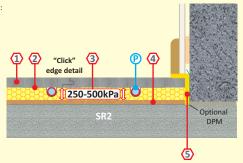




Table 2C.11c



