

Pre-cast concrete plank with fully bonded screed

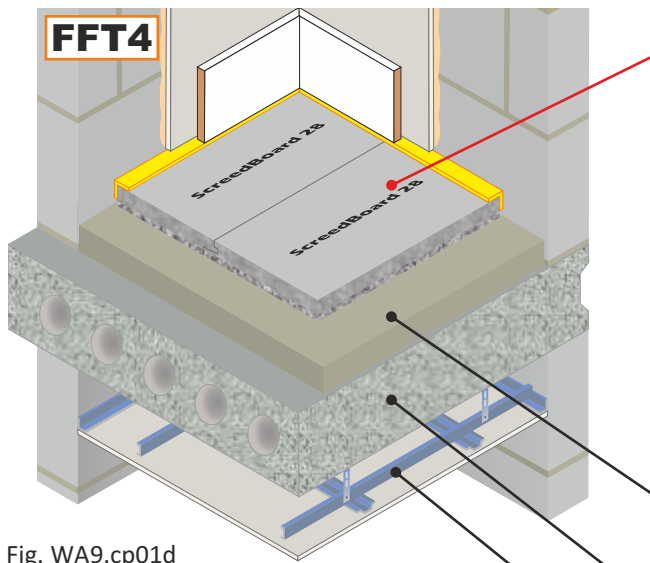


Fig. WA9.cp01d

- Floating floor treatment options**
- FFT 1 - **CELLECTA DECKfon Batten 70**
 - FFT 2 - **CELLECTA RUBBERfon Cradles**
 - FFT 3 - **CELLECTA DECKfon Batten 45**
 - FFT4 - CELLECTA ScreedBoard 28**
 - **CELLECTA ScreedBoard 20**
 + **CELLECTA XFLO** routed XPS underfloor heating insulation board
 + **CELLECTA FIBREfon 8, 10** or **RUBBERfon 8** resilient layer
 - FFT5 - **CELLECTA FIBREfon 12C, 21C, 28C**

- Screed**
- 40mm (min) screed directly applied to plank. Sand: cement or proprietary screed 80kg/m² (min) mass per unit area
- Structural floor**
- 150mm (min) precast concrete floor plank slab
- Ceiling**
- See Table 8C.01a for ceiling treatment options



Table WA9.cp01

Ceiling Treatment Options	
<p>CT1-Metal ceiling - 100mm void</p>	<p>One layer of nominal 8kg/m² gypsum-based board</p> <p>100mm (min)</p>
<p>CT2-Timber batten & counter battens</p>	<p>One layer of nominal 8kg/m² gypsum-based board</p> <p>100mm (min)</p>
<p>CT3- Metal ceiling - 75mm void</p>	<p>One layer of nominal 10kg/m² gypsum-based board</p> <p>75mm (min)</p>
<p>CT4-Timber batten & metal resilient bars</p>	<p>One layer of nominal 10kg/m² gypsum-based board</p> <p>65mm (min)</p>
<p>Construction notes Ceiling treatments detailed can be used with any FFT listed in Table 8C.01b-g. 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.</p>	

Acoustic Performance

rd impact performance values quoted were conducted at Sound Research Laboratories, UKAS ref. 0444 in accordance with BS EN ISO 140-6: 1998 and rated in accordance with BS ISO 717-2: 1997 as detailed in Appendix D of the Robust Details handbook (minimum value required *rd* DL_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

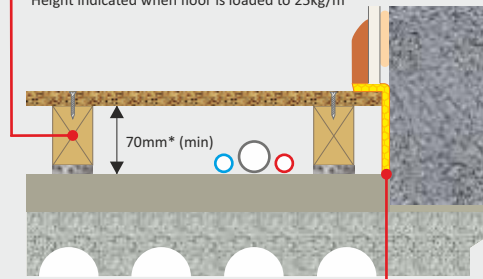


Table WA9.cp01a

FFT1 Resilient composite deep batten system

DECKfon Batten 70

Deep acoustic batten: 75mm x 45mm x 2400mm
*Height indicated when floor is loaded to 25kg/m²



YELOfon ES5/120

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

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

Airborne
54dB $D_{nT,w} + C_{tr}$

Impact
47dB $L_{nT,w}$
 $rd DL_w = 27dB$

Building Regs
≥+8dB

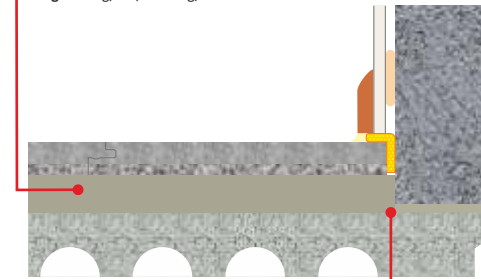
BBA
VERIFIED
RD DATA

WA9.cp01d

FFT4 Resilient overlay platform floor system

ScreedBoard 28

Ultra high performance, dense acoustic composite overlay board
Dimensions: 28mm x 600mm x 1200mm
Weight: 26kg/m² / 18.72kg/board



YELOfon FS50

Preformed flanking strip: 6mm x 50mm x 30mm x 2m

Airborne
51dB $D_{nT,w} + C_{tr}$

Impact
49dB $L_{nT,w}$
 $rd DL_w = 26dB$

Building Regs
+5dB

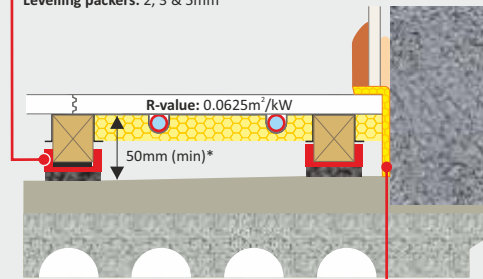
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Table WA9.cp01b

FFT2 Resilient cradle and batten system

RUBBERfon Cradles

Dimensions: 12mm high x 80mm x 80mm
Levelling packers: 2, 3 & 5mm



YELOfon ES5/120

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

Additional layer required to complete treatment:
18mm (min) tongue & groove flooring board (CELLECTA HIDECK Structural 25 & XFLO JB shown)
40mm (min) x 45mm timber batten
*Height indicated when floor is loaded to 25kg/m²

Airborne
52dB $D_{nT,w} + C_{tr}$

Impact
49dB $L_{nT,w}$
 $rd DL_w = 25dB$

Building Regs
+5dB

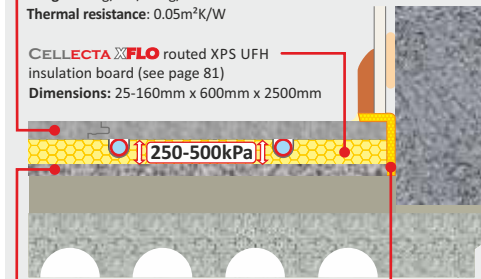
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Table WA9.cp01a2

FFT4 Resilient overlay platform floor system incorporating UFH

ScreedBoard 20

Highly conductive, high density overlay board
Dimensions: 20mm x 600mm x 1200mm
Weight: 25kg/m² / 18kg/board
Thermal resistance: 0.05m²K/W



Resilient layer options (see page 73 for full details)

- **FIBREfon 8**: 8mm x 600mm x 1200mm
- **RUBBERfon 8** (Tiled areas): 8mm x 1m x 6m
- **FIBREfon 10** (All areas): 8mm x 600mm x 1200mm

YELOfon ES5/100

Perimeter edge strip: 5mm x 100mm x 50m

Airborne
52dB $D_{nT,w} + C_{tr}$

Impact
46dB $L_{nT,w}$
 $rd DL_w = 28dB$

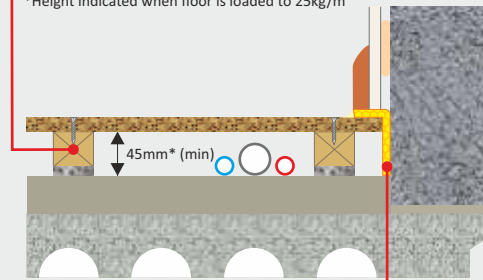
Building Regs
+5dB

Table WA9.cp01c

FFT3 Resilient composite standard batten system

DECKfon Batten 45

Standard acoustic batten: 50mm x 45mm x 2400mm
*Height indicated when floor is loaded to 25kg/m²



YELOfon ES5/100

Perimeter edge strip: 5mm x 100mm x 50m

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

Airborne
52dB $D_{nT,w} + C_{tr}$

Impact
49dB $L_{nT,w}$
 $rd DL_w = 25dB$

Building Regs
+5dB

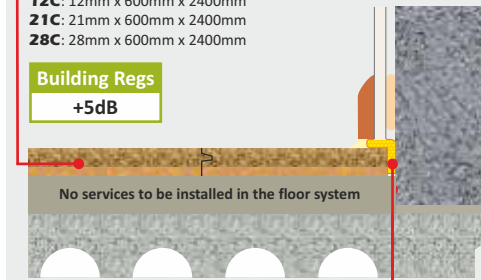
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RD DATA

Table WA9.cp01e

FFT5 Resilient shallow overlay platform floor system

FIBREfon 12C, 21C, 28C

Dimensions:
12C: 12mm x 600mm x 2400mm
21C: 21mm x 600mm x 2400mm
28C: 28mm x 600mm x 2400mm



12C/21C = YELOfon ES5/60

Perimeter edge strip: 5mm x 60mm x 50m

28C = YELOfon FS50

Profiled flanking strip: 6mm x 50mm x 30mm x 2m

12 Airborne
50dB $D_{nT,w} + C_{tr}$

12 Impact
53dB $L_{nT,w}$
 $rd DL_w = 21dB$

21 Airborne
50dB $D_{nT,w} + C_{tr}$

21 Impact
56dB $L_{nT,w}$
 $rd DL_w = 18dB$

28 Airborne
50dB $D_{nT,w} + C_{tr}$

28 Impact
53dB $L_{nT,w}$
 $rd DL_w = 21dB$

Acoustic Performance

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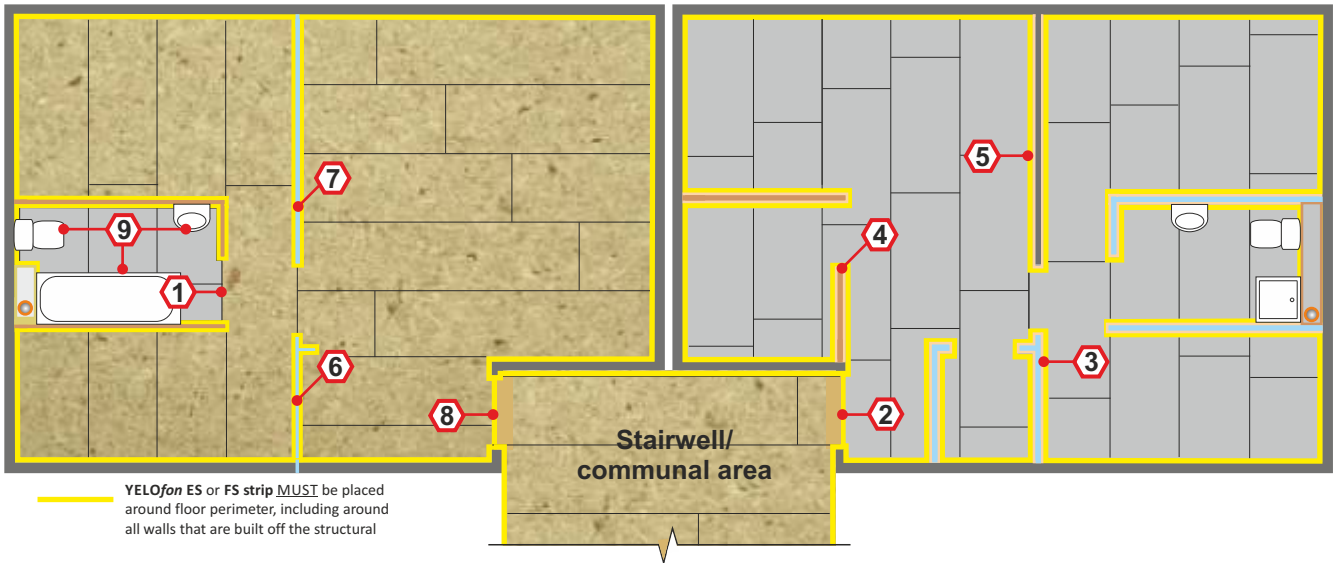
PCT values quoted are typical, based on the treatment being installed correctly and pre-completion tested, with airborne performance tested in accordance with BS EN ISO 140-4:1998 and impact performance tested in accordance with BS EN ISO 140-7: 1998.

Robust Detail floating floor treatment design & installation details

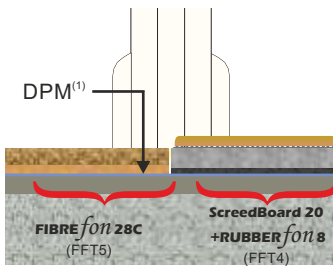
The acoustic performance of the floor will be compromised if the floating floor treatment is not completely isolated from the structural slab, soil pipes, door frames, the surrounding walls and their treatments. To address this risk, each potential problem area needs to be detailed accordingly.

Partitions built off the floating floor treatment

Partitions installed before the floor finish is laid

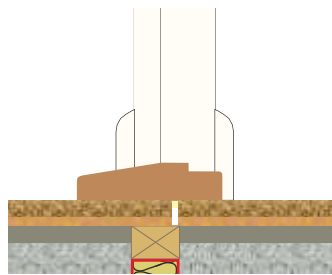


1 Junction detail: Non-tiled area meeting a tiled area



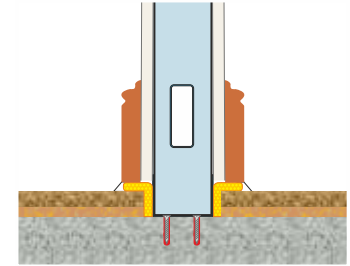
⁽¹⁾ On recently laid screeded floor, install a DPM below FIBREfon 12C, 21C, 28C and ScreedBoard based acoustic treatments.

2 Door threshold (FFT4 or 5)



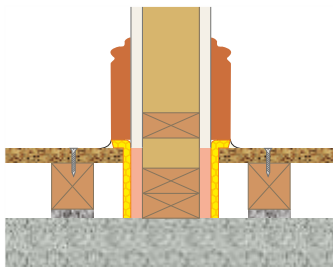
Leave a 5mm (min) gap between the habitable area treatment and the communal area treatment.

3 Metal frame partition built off the structural floor (FFT4 or 5)



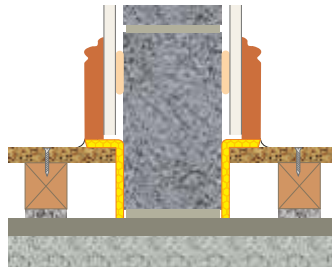
Lightweight internal walls built off the structural floor must be isolated from the floating floor treatment with YELOfon ES/FS strip.

4 Timber stud partition built off the structural floor



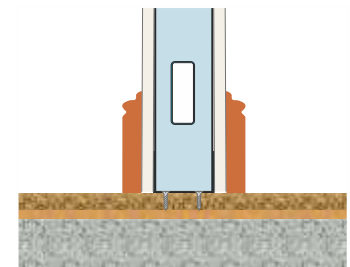
Lightweight internal walls built off the structural floor must be isolated from the floating floor treatment (FFT1, 2 or 3) with YELOfon ES strip.

5 Internal blockwork wall built off the structural floor



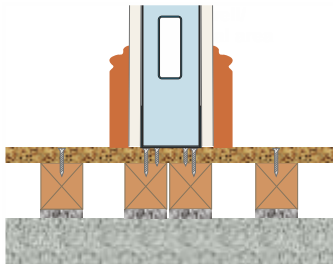
Internal block work walls built off the structural floor must be isolated from the floating floor treatment with YELOfon ES or FS strip.

6 Metal frame partition built off FFT4 or 5



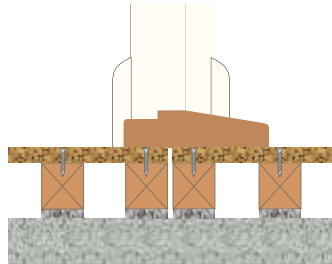
Internal non-load bearing walls can be built directly off the floor treatment. Fixings **MUST NOT** penetrate the resilient layer.

7 Metal frame partition built off FFT1, 2 or 3



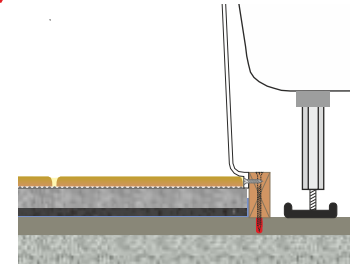
Double up battens under internal non-load bearing walls.

8 Door threshold (FFT1, 2 or 3)



At the door threshold, place one batten under the leading edge of the apartment's floor deck and one under the communal area's floor deck, leaving a 5mm (min) gap between the acoustic battens.

9 Bath surrounds and sanitary ware



Sanitary ware can either be built directly off the structural floor or off the floor treatment. For FFT1, 2 or 3 battens should be laid in a 300mm x 300mm grid under the sanitary ware.