

Fig. WA9.c01a

**FASTRACKCAD**  
ARCHITECTURAL CAD DATABASES

**n55Plus**

### Floating floor

#### treatment options

**FFT1** - **CELLECTA DECKfon Batten 70**

**FFT2** - **CELLECTA RUBBERfon Cradles**

**FFT3** - **CELLECTA DECKfon Batten 45**

**FFT4** - **CELLECTA ScreedBoard 28**

- **CELLECTA ScreedBoard 20** +

+ **CELLECTA XFLO** routed underfloor heating insulation board

+ **CELLECTA FIBREfon 8, 10** or

**RUBBERfon 8** resilient layer

**FFT5** - **CELLECTA FIBREfon 12C/21C/28C**

### Structural floor

- 250mm (min) in-situ concrete slab, 2400kg/m<sup>3</sup> 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

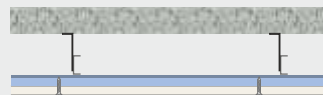
See Table WA9.c01 for ceiling treatment options

### Ceiling

Table WA9.c01

### Ceiling Treatment Options

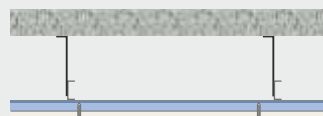
#### Any ceiling system - 75mm void



One layer of nominal 10kg/m<sup>2</sup> gypsum-based board

75mm (min)

#### Any ceiling system - 100mm void



One layer of nominal 8kg/m<sup>2</sup> gypsum-based board

100mm (min)

#### Construction notes

Ceiling treatments detailed can be used with any FFT listed in Table 8C02b-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 **VELOfon 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 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*  $D_{L,w}$  = 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



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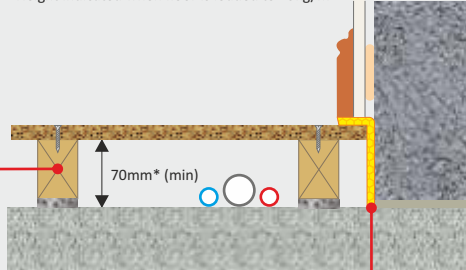
technical@collecta.co.uk

Table WA9.c01a

## 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/m<sup>2</sup>



### YELOfon ES5/120

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

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

**Airborne**  
57dB  $D_{nT,w} + C_{tr}$

**Impact**  
43dB  $L_{nT,w}$   
 $rd\ DL_w = 27dB$

**Building Regs**  
≥+8dB

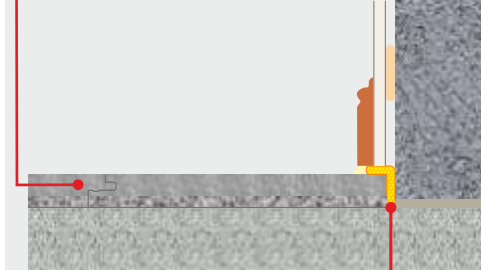
**BBA**  
VERIFIED  
RD DATA

Table WA9.c01d

## FFT4 Resilient overlay platform floor system

### ScreedBoard 28

Ultra high performance, dense acoustic composite overlay board  
Dimensions: 28mm x 600mm x 1200mm  
Weight: 26kg/m<sup>2</sup> / 18.72kg/board



### YELOfon FS50

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

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

**Impact**  
44dB  $L_{nT,w}$   
 $rd\ DL_w = 26dB$

**Building Regs**  
≥+8dB

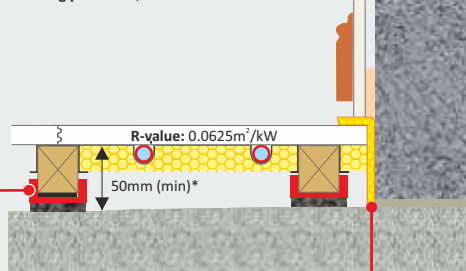
**BBA**  
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RD DATA

Table WA9.c01a

## 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  
40mm (min) x 45mm timber batten

\*Height indicated when floor is loaded to 25kg/m<sup>2</sup>

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

**Impact**  
45dB  $L_{nT,w}$   
 $rd\ DL_w = 25dB$

**Building Regs**  
≥+8dB

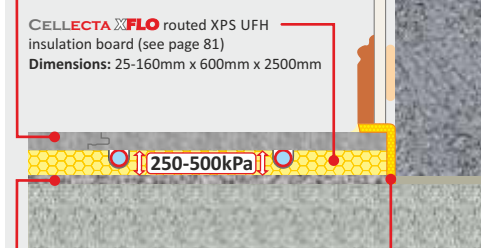
**BBA**  
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RD DATA

Table WA9.c01d2

## FFT4 Resilient overlay platform floor system incorporating UFH

### ScreedBoard 20

High conductivity overlay board  
Dimensions: 20mm x 600mm x 1200mm  
Weight: 25kg/m<sup>2</sup> 18kg/board  
Thermal resistance: 0.05m<sup>2</sup>K/W



Resilient layer options (see page 75 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**  
55dB  $D_{nT,w} + C_{tr}$

**Impact**  
42dB  $L_{nT,w}$   
 $rd\ DL_w = 28dB$

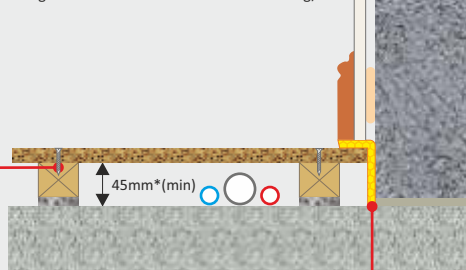
**Building Regs**  
≥+8dB

Table WA9.c01c

## 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/m<sup>2</sup>



### YELOfon ES5/100

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

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

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

**Impact**  
45dB  $L_{nT,w}$   
 $rd\ DL_w = 25dB$

**Building Regs**  
≥+8dB

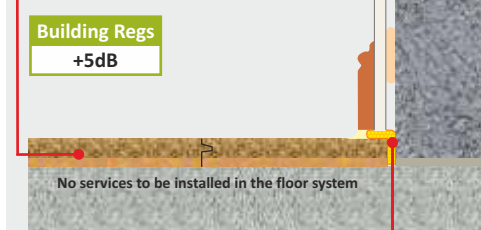
**BBA**  
VERIFIED  
RD DATA

Table WA9.c01e

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

**12 Impact**  
49dB  $L_{nT,w}$   
 $rd\ DL_w = 21dB$

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

**21 Impact**  
52dB  $L_{nT,w}$   
 $rd\ DL_w = 18dB$

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

**28 Impact**  
49dB  $L_{nT,w}$   
 $rd\ DL_w = 21dB$

## 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  $rd\ DL_w = 17dB$ ).

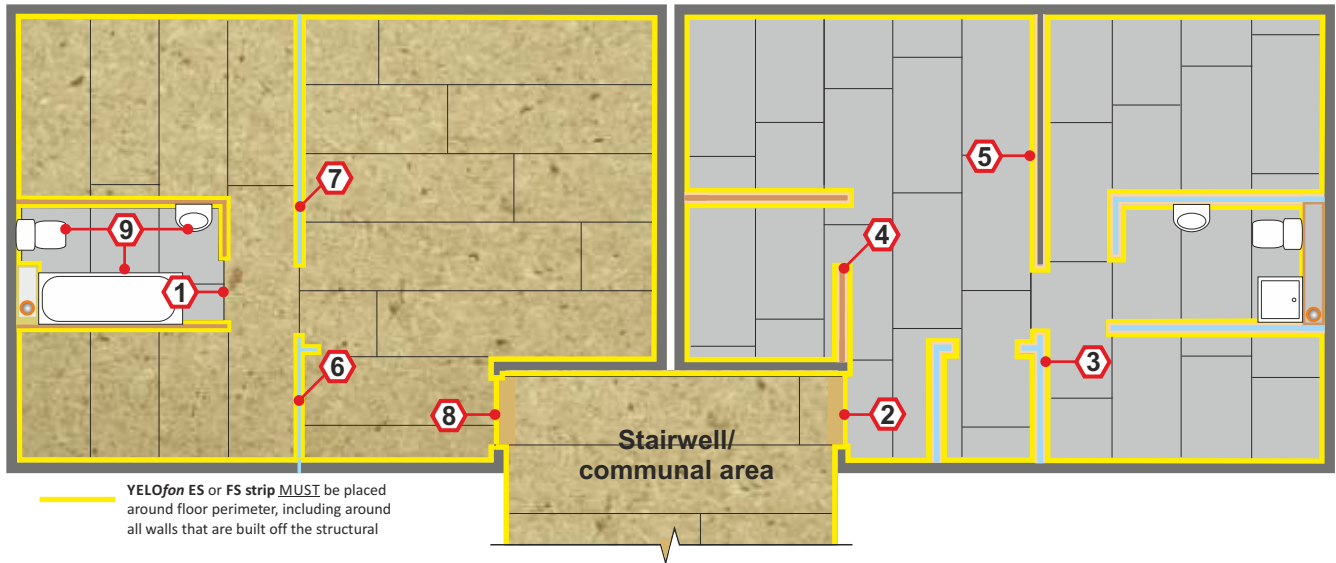
PCT values quoted are typical, based on the treatment being installed correctly and pre-completion tested, with airborne performance tested in accordance with BS EN ISO 140-4:1998 and impact performance tested in accordance with BS EN ISO 140-7: 1998.

# Robust Detail floating floor treatment design & installation details

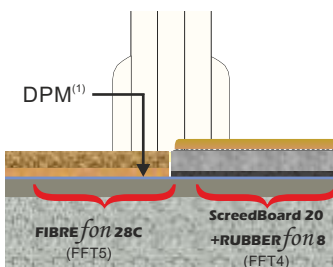
The acoustic performance of the floor will be compromised if the floating floor treatment is not completely isolated from the structural slab, soil pipes, door frames, the surrounding walls and their treatments. To address this risk, each potential problem area needs to be detailed accordingly.

Partitions built off the floating floor treatment

Partitions installed before the floor finish is laid

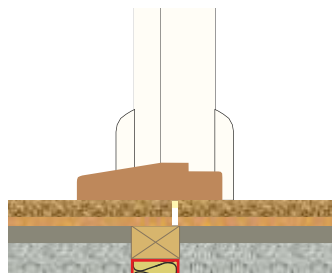


**1** Junction detail: Non-tiled area meeting a tiled area



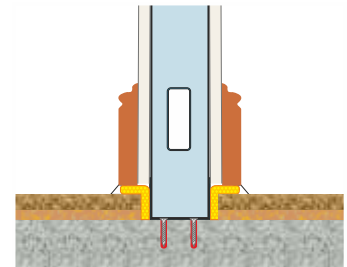
<sup>(1)</sup> On recently laid screeded floor, install a DPM below FIBREfon 12C, 21C, 28C and ScreedBoard based acoustic treatments.

**2** Door threshold (FFT4 or 5)



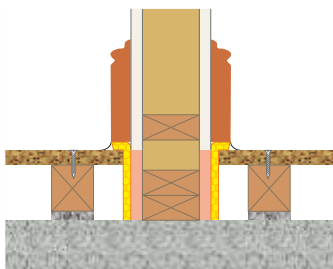
Leave a 5mm (min) gap between the habitable area treatment and the communal area treatment.

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



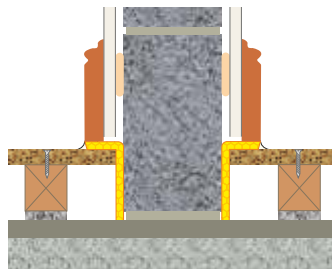
Lightweight internal walls built off the structural floor must be isolated from the floating floor treatment with YELOfon ES/FS strip.

**4** Timber stud partition built off the structural floor



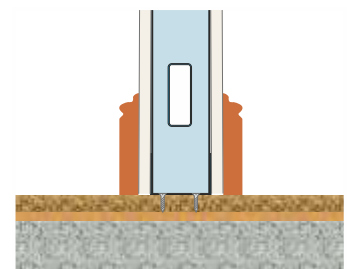
Lightweight internal walls built off the structural floor must be isolated from the floating floor treatment (FFT1, 2 or 3) with YELOfon ES strip.

**5** Internal blockwork wall built off the structural floor



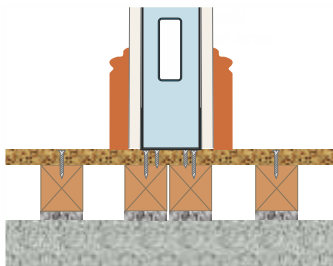
Internal block work walls built off the structural floor must be isolated from the floating floor treatment with YELOfon ES or FS strip.

**6** Metal frame partition built off FFT4 or 5



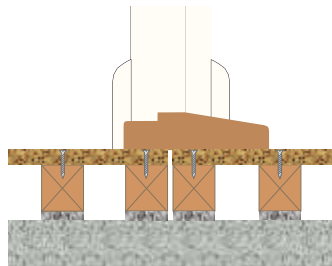
Internal non-load bearing walls can be built directly off the floor treatment. Fixings **MUST NOT** penetrate the resilient layer.

**7** Metal frame partition built off FFT1, 2 or 3



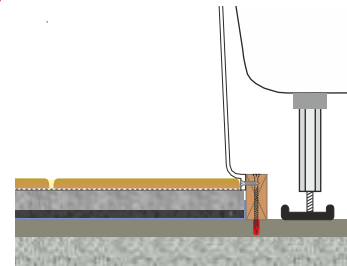
Double up battens under internal non-load bearing walls.

**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.