Separating floor - Pre-cast concrete plank

Robust Detail E-FC-1

Pre-cast concrete plank with fully bonded screed

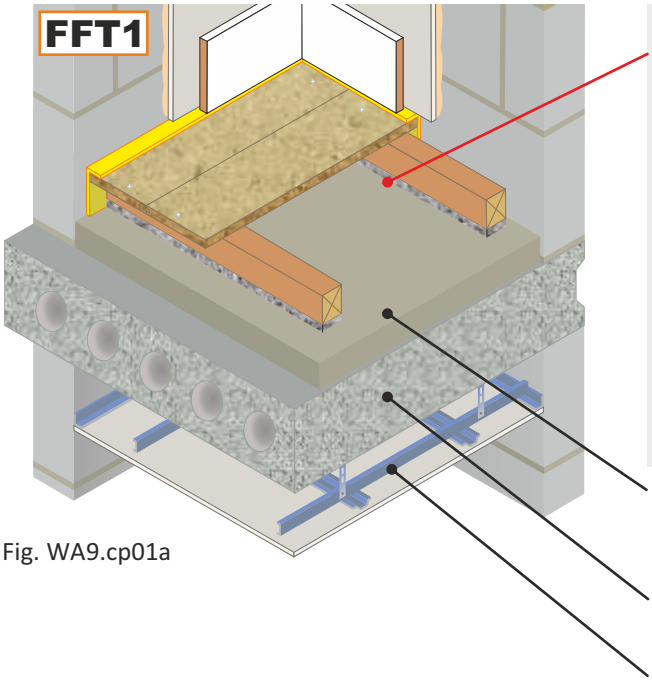


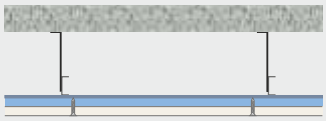
Fig. WA9.cp01a

Floating floor treatment options	**FFT1** - CELLECTA **DECK***fon* **Batten 70** FFT 2 - CELLECTA **RUBBER***fon* **Cradles** FFT 3 - CELLECTA **DECK***fon* **Batten 45** FFT 4 - CELLECTA **ScreedBoard 28** - CELLECTA **ScreedBoard 20** + CELLECTA **XFLO** routed XPS underfloor heating insulation board + CELLECTA **FIBRE***fon* **8**, **10** or **RUBBER***fon* **8** resilient layer FFT5 - CELLECTA **FIBRE***fon* **12C**, **21C**, **28C**
Screed	• 40mm (min) screed directly applied to plank. Sand: cement or proprietary screed 80kg/m^2 (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

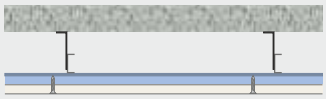
Ceiling Treatment Options

CT1-Metal ceiling - 100mm void



CT2-Timber batten & counter battens

CT3- Metal ceiling - 75mm void



CT4-Timber batten & metal resilient bars

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 **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 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

RD Compliant Treatments
BBA VERIFIED RD DATA
NHBC
LABC warranty
Premier Guarantee
Accepted
BMTRADA ISO 9001
ISO 9001: 2015

Environmental Credentials

GWP <5
100% Recycled Foams
zero ODP

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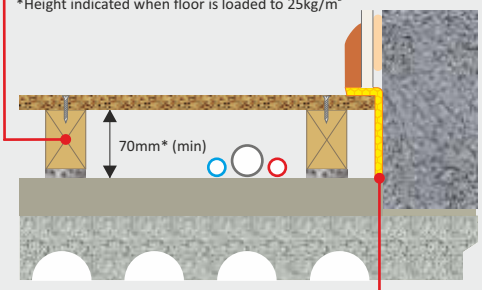
Table WA9.cp01a

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



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

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

Building Regs ≥+8dB

BBA VERIFIED RD DATA

YELOfon ES5/120

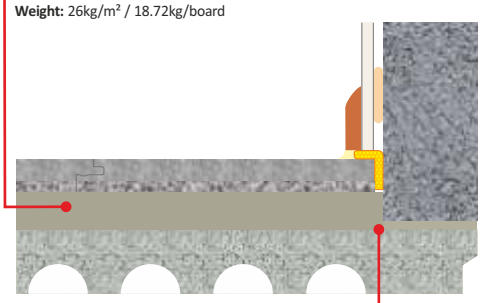
Perimeter edge strip: 5mm x 120mm x 50m

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

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



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

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

Building Regs +5dB

BBA VERIFIED RD DATA

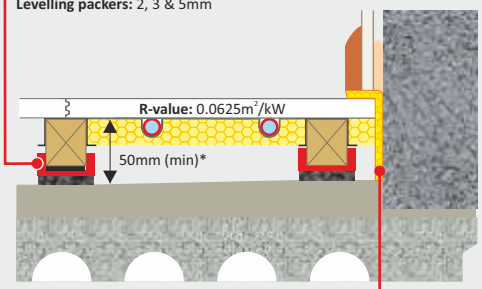
YELOfon FS50

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

Table WA9.cp01b

FFT2 Resilient cradle and batten system

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



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

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

Building Regs +5dB

BBA VERIFIED RD DATA

YELOfon ES5/120

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

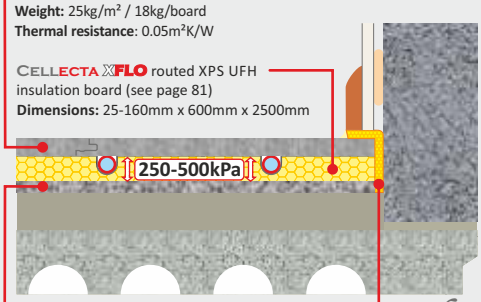
Additional layer required to complete treatment:
18mm (min) tongue & groove flooring board (CELLECTA **HiDECK Structural 25** & **XFLO JB** shown)
40mm (min) x 45mm timber batten
*Height indicated when floor is loaded to 25kg/m²

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

CELLECTA XFLO routed XPS UFH insulation board (see page 81)
Dimensions: 25-160mm x 600mm x 2500mm



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

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

Building Regs +5dB

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 600m x 1200mm

YELOfon ES5/100

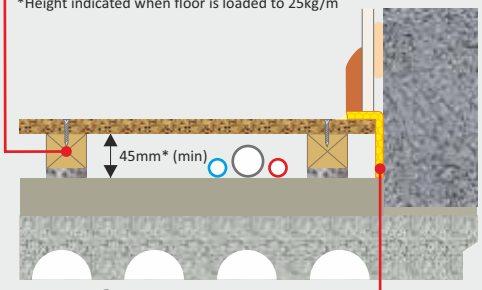
Perimeter edge strip: 5mm x 100mm x 50m

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



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

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

Building Regs +5dB

BBA VERIFIED RD DATA

YELOfon ES5/100

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

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

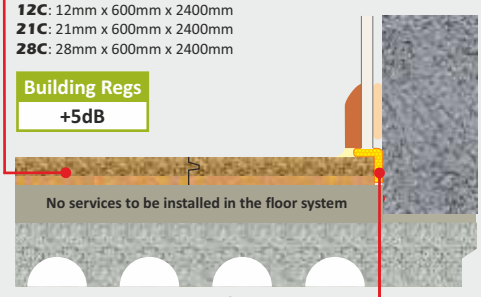
Table WA9.cp01e

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

Building Regs +5dB



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

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

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.

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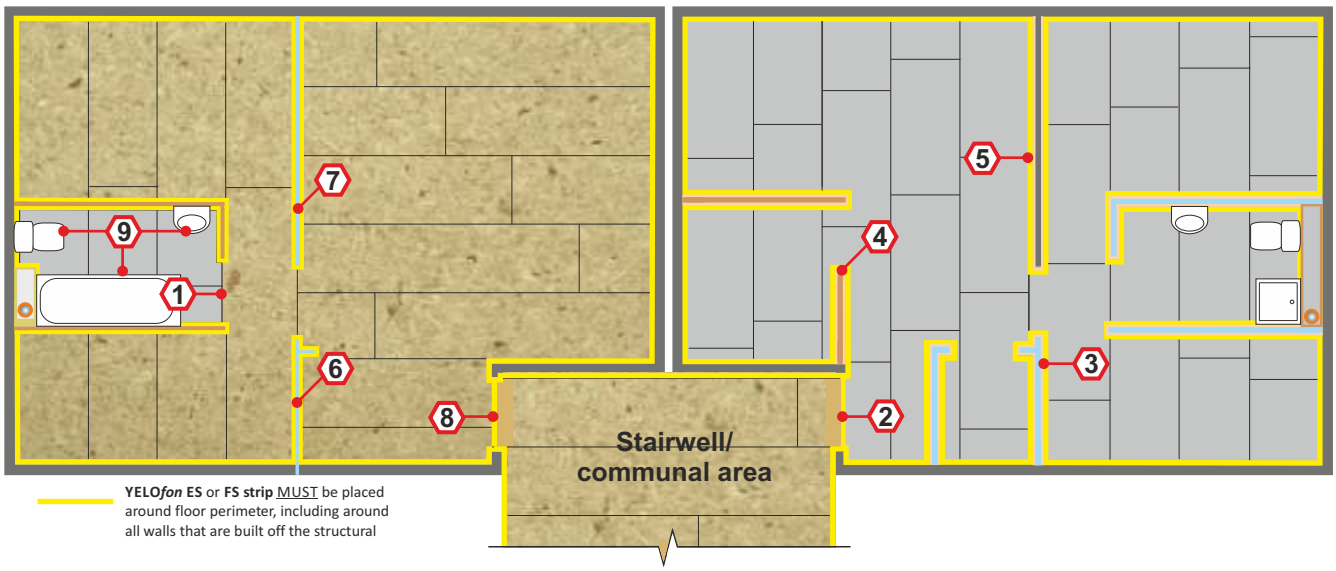
Robust Detail floating floor treatment design & installation details

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.

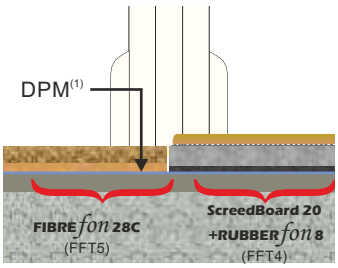
Partitions built off the floating floor treatment

Partitions installed before the floor finish is laid



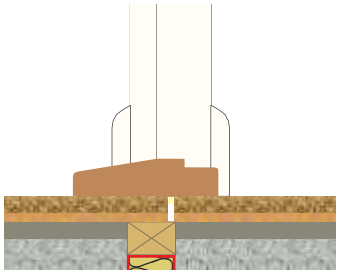
YELO*fon* ES or **FS strip** MUST be placed around floor perimeter, including around all walls that are built off the structural

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



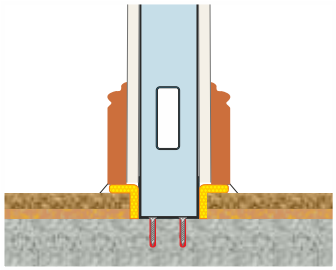
(1) On recently laid screeded floor, install a DPM below **FIBRE*fon* 12C**, **21C, 28C** and **ScreedBoard** based acoustic treatments.

2 Door threshold (FFT4 or 5)



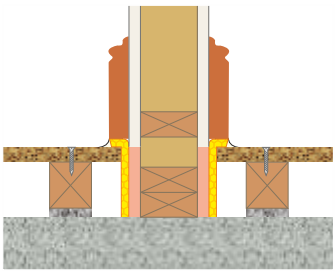
Leave a 5mm (min) gap between the habitable area treatment and the communal area treatment.

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



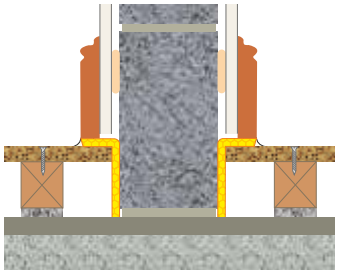
Lightweight Internal walls built off the structural floor must be isolated from the floating floor treatment with **YELO*fon* ES/FS strip**.

4 Timber stud partition built off the structural floor



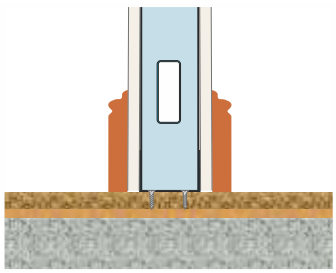
Lightweight internal walls built off the structural floor must be isolated from the floating floor treatment (FFT1, 2 or 3) with **YELO*fon* ES strip**.

5 Internal blockwork wall built off the structural floor



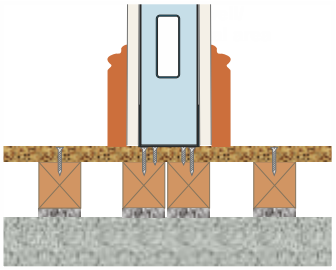
Internal block work walls built off the structural floor must be isolated from the floating floor treatment with **YELO*fon* ES** or **FS strip**.

6 Metal frame partition built off FFT4 or 5



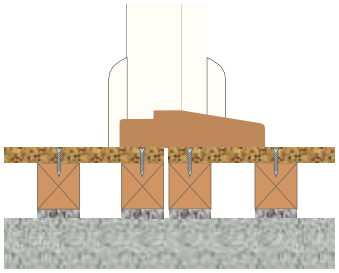
Internal non-load bearing walls can be built directly off the floor treatment. Fixings MUST NOT penetrate the resilient layer.

7 Metal frame partition built off FFT1, 2 or 3



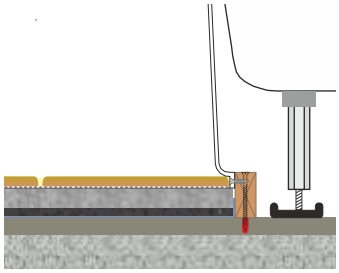
Double up battens under internal non-load bearing walls.

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.