

Fig. CF1 shows YELOfon CHIP 28 and FS30 pre-formed flanking strip

Floating floor treatment options

- FFT1 - DECKfon Batten 70
 - FFT2 - DECKfon Cradles
 - FFT3 - DECKfon Batten 45
 - FFT4 - DECKfon ScreedBoard 28
 - FFT5 - YELOfon CHIP 23/28
 - FIBREfon MDF 12
 - FIBREfon CHIP 21/25
- (See Table CF1b for full details)

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
- 300kg/m² (min) mass per unit area

Ceiling

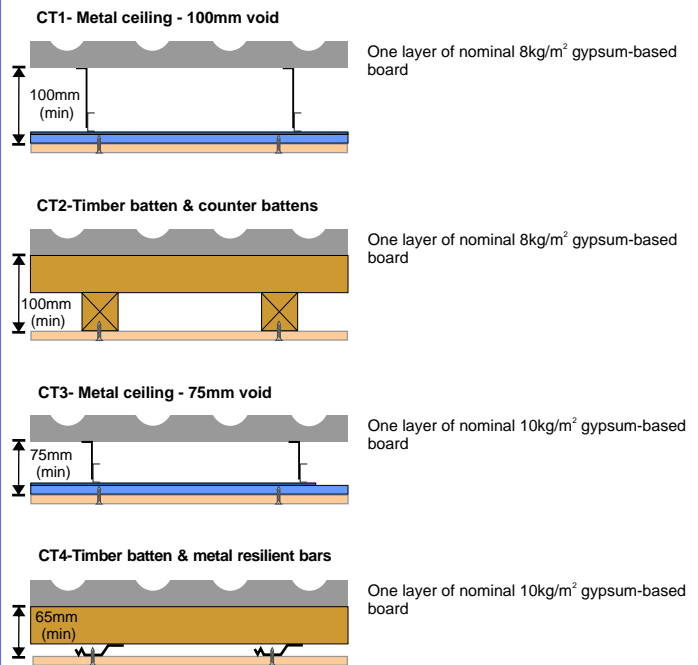
See Table CF1a for ceiling treatment options



FASTRACKCAD
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Table CF1a

Ceiling treatment options for E-FC-1 (can be used with any FFT detailed in Table CF1b)



Construction notes

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 flanking strip.

Treatment used as a PCT Solution

Table CF1b

Robust detail E-FC-1 compliant floating floor treatment options	Construction detail	Robust detail performance ⁽¹⁾	Perimeter edge strip required	Typical PCT performance ⁽²⁾
<p>FFT1 - Resilient composite deep batten system</p> <p>DECKfon[®] Batten 70 0 GWP</p> <p>Additional layer required to complete treatment 18mm (min) tongue & groove flooring board</p> <p>Notes Void dimension indicated is when floor is loaded to 25kg/m² Batten dimensions: 75mm (h) x 45mm (w) x 2400mm (l)</p>	<p>CSH credits*</p> <p>Mat 1 Pol 1 Hea 2 1 1 4</p>	<p>$rd \Delta_{L_w} = 27dB$</p> <p>BBA</p>	<p>YELOfon[®] ES5/120</p> <p>Polyethylene foam flanking strip: 5mm (t) x 120mm (h) x 50m (l) placed around the perimeter of the flooring board to isolate floor from walls and skirting.</p>	<p>$D_{st,w} + C_v = 54dB$ $L_{st,w} = 47dB$</p>
<p>FFT2 - Resilient cradle and batten system</p> <p>DECKfon[®] Cradles 0 GWP</p> <p>Additional components required to complete treatment 18mm (min) tongue & groove flooring board 40mm (min h) x 45mm (w) timber batten</p> <p>Note Void dimension indicated is when floor is loaded to 25kg/m²</p>	<p>CSH credits*</p> <p>Mat 1 Pol 1 Hea 2 1 1 3</p>	<p>$rd \Delta_{L_w} = 25dB$</p> <p>BBA</p>	<p>YELOfon[®] ES5/120</p> <p>Polyethylene foam flanking strip: 5mm (t) x 120mm (h) x 50m (l) placed around the perimeter of the flooring board to isolate floor from walls and skirting.</p>	<p>$D_{st,w} + C_v = 52dB$ $L_{st,w} = 49dB$</p>
<p>FFT3 - Resilient composite standard batten system</p> <p>DECKfon[®] Batten 45 0 GWP</p> <p>Additional layer required to complete treatment 18mm (min) tongue & groove flooring board</p> <p>Notes Void dimension indicated is when floor is loaded to 25kg/m² Batten dimensions: 50mm (h) x 45mm (w) x 2400mm (l)</p>	<p>CSH credits*</p> <p>Mat 1 Pol 1 Hea 2 1 1 3</p>	<p>$rd \Delta_{L_w} = 25dB$</p> <p>BBA</p>	<p>YELOfon[®] ES5/100</p> <p>Polyethylene foam flanking strip: 5mm (t) x 100mm (h) x 50m (l) placed around the perimeter of the flooring board to isolate floor from walls and skirting.</p>	<p>$D_{st,w} + C_v = 52dB$ $L_{st,w} = 49dB$</p>
<p>FFT4 - Resilient overlay platform floor system</p> <p>ScreedBoard[®] 28 0 GWP</p> <p>Notes No services to be installed in the floor system Dimensions: 600mm x 1200mm Edge profile: Interlocking tongue & groove</p>	<p>CSH credits*</p> <p>Mat 1 Pol 1 Hea 2 0.5 1 3</p>	<p>$rd \Delta_{L_w} = 24dB$</p> <p>BBA</p>	<p>YELOfon[®] FS50</p> <p>Pre-formed polyethylene flanking angle: 6mm (t) x 30mm (w) x 50mm (h) x 2m placed around the perimeter of the flooring board to isolate floor from walls and skirting.</p>	<p>$D_{st,w} + C_v = 51dB$ $L_{st,w} = 50dB$</p>
<p>FFT5 - Resilient overlay shallow platform floor systems</p> <p>YELOfon[®] CHIP 23, 28 0 GWP <i>(Water resilient acoustic layer option)</i></p> <p>FIBREfon[®] MDF 12 0 GWP <i>(100% recycled, high compressive strength, ultra-thin)</i></p> <p>FIBREfon[®] CHIP 21, 25 0 GWP <i>(100% recycled, high compressive strength option)</i></p> <p>Notes No services to be installed in the floor system Dimensions (all treatments): 600mm x 2400mm Edge profile (all treatments): Tongue & groove</p>	<p>CSH credits*</p> <p>Mat 1 Pol 1 Hea 2 1 1 3</p> <p>No DPM required under YELOfon CHIP 23/28</p>	<p>$23 = rd \Delta_{L_w} = 19dB$</p> <p>$28 = rd \Delta_{L_w} = 19dB$</p> <p>$12 = rd \Delta_{L_w} = 21dB$</p> <p>$21 = rd \Delta_{L_w} = 18dB$</p> <p>$25 = rd \Delta_{L_w} = 21dB$</p> <p>BBA</p>	<p>YELOfon FS30 Pre-formed polyethylene flanking angle: 6mm (t) x 30mm (w) x 30mm (h) x 2m</p> <p>YELOfon FS30 Pre-formed polyethylene flanking angle: 6mm (t) x 30mm (w) x 30mm (h) x 2m</p> <p>YELOfon ES5/60 Polyethylene foam flanking strip: 5mm (t) x 60mm (h) x 50m (l)</p> <p>YELOfon ES5/60 Polyethylene foam flanking strip: 5mm (t) x 60mm (h) x 50m (l)</p> <p>YELOfon FS30 Pre-formed polyethylene flanking angle: 6mm (t) x 30mm (w) x 30mm (h) x 2m</p>	<p>$D_{st,w} + C_v = 50dB$ $L_{st,w} = 55dB$</p> <p>$D_{st,w} + C_v = 50dB$ $L_{st,w} = 55dB$</p> <p>$D_{st,w} + C_v = 50dB$ $L_{st,w} = 53dB$</p> <p>$D_{st,w} + C_v = 50dB$ $L_{st,w} = 56dB$</p> <p>$D_{st,w} + C_v = 50dB$ $L_{st,w} = 53dB$</p>

* Code for Sustainable Homes (CSH) credits quoted are typical. Mat 1 value taken from the BRE Green Guide. Pol 1 credit is only awarded if all the other insulation products used have a GWP of <5. Hea 2 credits are based on the floor being pre-completion tested and the separating wall performing to at least the same acoustic standard. Credits subject to relevant category weighted value. See page 5 for further information.

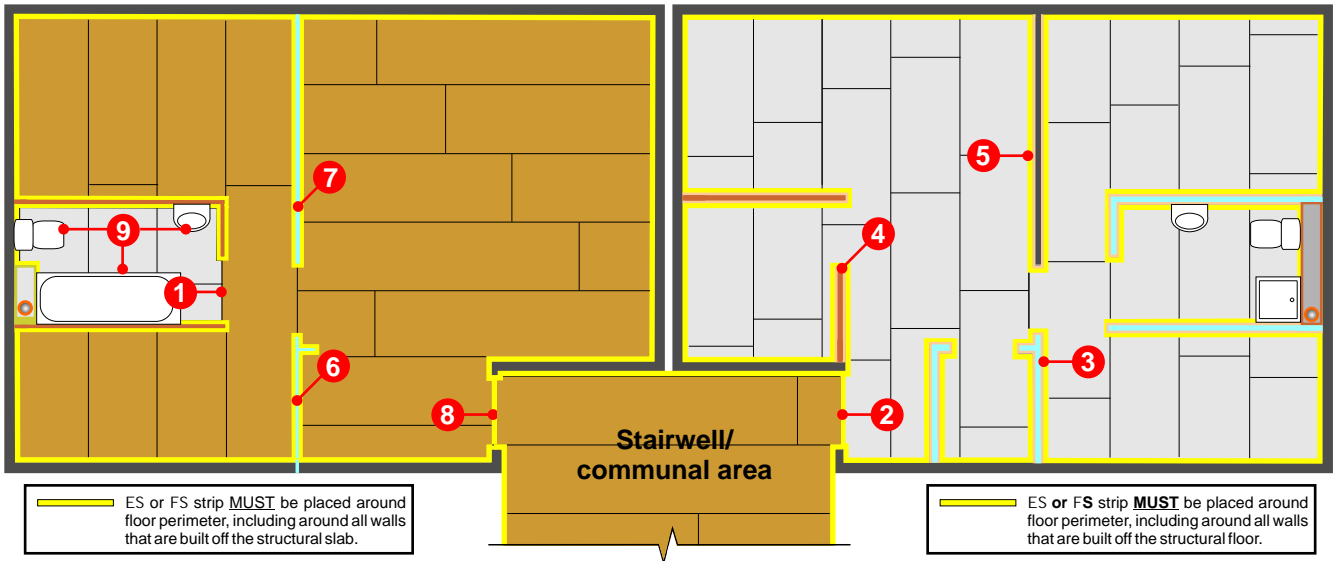
Acoustic values
⁽¹⁾ RD impact performance values quoted were conducted at Sound Research Laboratories, Sudbury, UKAS ref. 0444 in accordance with BS EN ISO 140-6: 1998 and rated in accordance with BS ISO 717-2: 1997 as detailed in Appendix D of the Robust details handbook (minimum value required $rd \Delta_{L_w} = 17dB$).
⁽²⁾ 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.

Design & installation details - Robust detail FFT1, 2, 3, 4 and 5

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

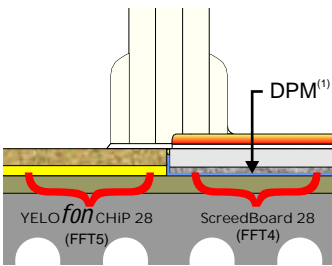
Partitions installed before the floor finish is laid



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

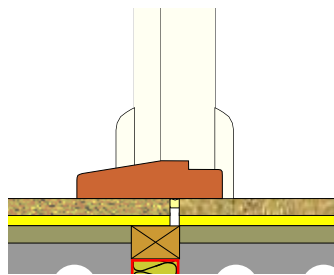
ES or FS strip **MUST** be placed around floor perimeter, including around all walls that are built off the structural floor.

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



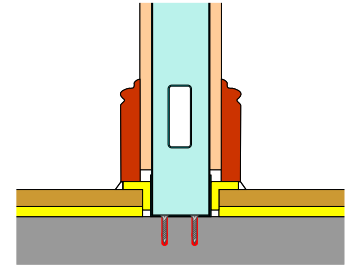
⁽¹⁾ Install a DPM below ScreedBoard 28, FIBREfon CHIP and MDF acoustic treatments.

2 Door threshold (FFT4 or 5)



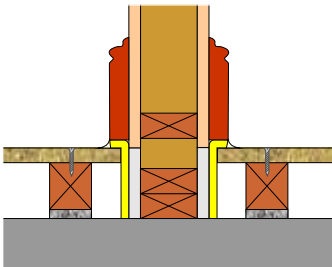
Leave a 5mm (min) gap between the habitable area treatment and the communal area treatment.

3 Metal frame partition built off the structural floor



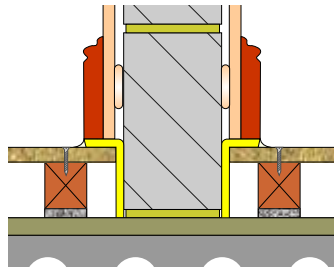
Lightweight Internal walls built off the structural floor must be isolated from the floating floor treatment (FFT4 or 5) with YELOfon FS strip.

4 Timber stud partition built off the structural floor



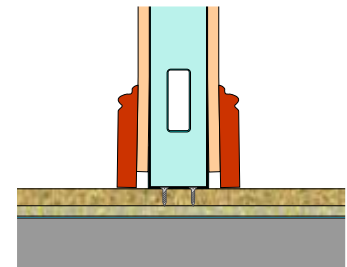
Lightweight internal walls built off the structural floor must be isolated from the floating floor treatment (FFT1, 2 or 3) with YELOfon ES strip.

5 Internal blockwork wall built off the structural floor



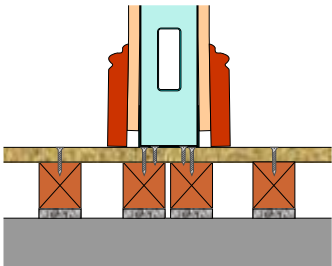
Internal block work walls built off the structural floor must be isolated from the floating floor treatment YELOfon ES strip (FFT1, 2 or 3) or YELOfon FS strip (FFT4 or 5).

6 Metal frame partition built off FFT4 or 5



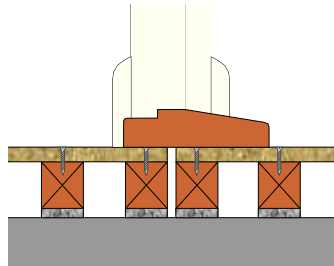
Internal non-load bearing walls can be built directly off the floor treatment (FFT4 & 5). Fixings **MUST NOT** penetrate the resilient layer.

7 Metal frame partition built off FFT1, 2 or 3



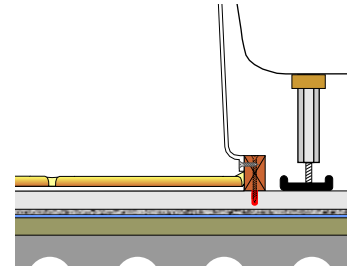
Double up battens under internal non-load bearing walls.

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 set out in a 300mm x 300mm grid under the sanitary ware.