

Pre-cast concrete plank
Screed laid on resilient layers

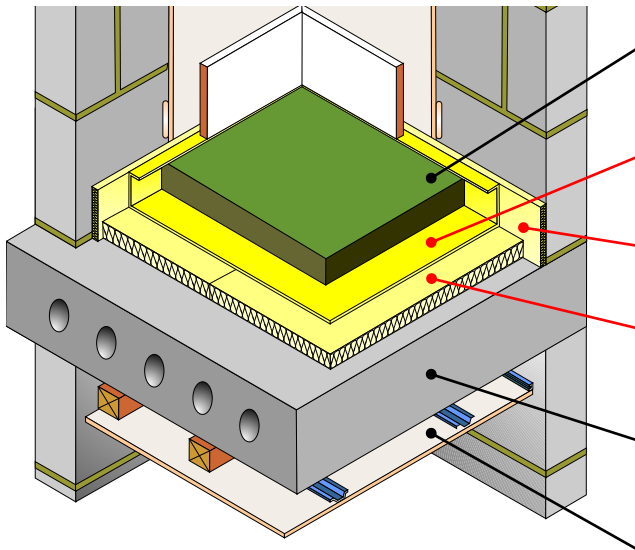


Fig. CF7

Screed	65mm (min) sand cement screed, or 40mm proprietary screed, nominal 80kg/m ² mass per unit area
Resilient layer (1)	5mm YELOfon HD5 extruded polyethylene (30kg/m ³)
Isolating edge strip	10mm YELOfon ES10/100 extruded polyethylene
Resilient layer (2)	25mm (min) X2i / X2ie extruded polystyrene insulation board (See Table CF7 for full details)
Structural floor	<ul style="list-style-type: none"> 150mm (min) pre-cast concrete floor plank slab 300kg/m² (min) mass per unit area
Ceiling	See Table CF7 for ceiling treatment options

IMPORTANT
If adopting this treatment, all three components MUST be installed:
1) YELOfon HD5 (resilient layer 1)
2) YELOFOAM X2i (resilient layer 2)
3) YELOfon ES10/100 (10mm isolation perimeter edge strip)



Table CF7

PCT resilient layers installation options		Perimeter resilient flanking strip required	Ceiling treatment options				
<p>1st Resilient layer YELOfon[®] HD5 5mm extruded polyethylene (30kg/m³) foam</p> <p>2nd Resilient layer X2i / X2ie High performance extruded polystyrene boards</p> <p><5 GWP All components*</p>		<p>YELOfon[®] ES10/100</p> <p>Polyethylene foam isolation strip: 10mm (t) x 100mm (h) x 50m (l) placed around the perimeter of the flooring board to isolate floor from walls and skirting.</p>	<p>Metal frame ceiling system (CT1, 2 or 3) Any metal frame ceiling system providing 100mm (min) ceiling void</p> <p>100mm (min)</p> <p>One layer of nominal 8kg/m² (min) gypsum-based board</p> <p>Timber batten & counter battens ONLY to be used with 150mm (min) depth concrete planks</p> <p>100mm (min)</p> <p>One layer of nominal 8kg/m² gypsum-based board</p>				
<p>Underfloor heating systems within screed</p>							
<p>Product dimensions HD5: 5mm (t) x 1.5m (w) x 75m (l) X2i / X2ie: Refer to page 60</p>							
<p>Construction notes Materials must be installed in accordance with manufacturers' instructions to achieve stated acoustic values. Wall treatments <u>MUST</u> be isolated from the floating floor with YELOfon HD5 and ES10/100 flanking strip.</p>							
			<p>Typical PCT performance⁽²⁾</p> <p>$D_{nT,w} + C_{tr} = 52\text{dB}$ $L_{nT,w} = 54\text{dB}$</p> <p>Code credits*</p> <table border="1"> <tr> <td>Pol 1</td> <td>Hea 2</td> </tr> <tr> <td>1</td> <td>3</td> </tr> </table>	Pol 1	Hea 2	1	3
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1	3						

* 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
⁽²⁾ Values quoted are typical, based on the treatment being installed correctly and pre-completion tested.
Airborne performance tested in accordance with BS EN ISO 140-4:1998
Impact performance tested in accordance with BS EN ISO 140-7: 1998