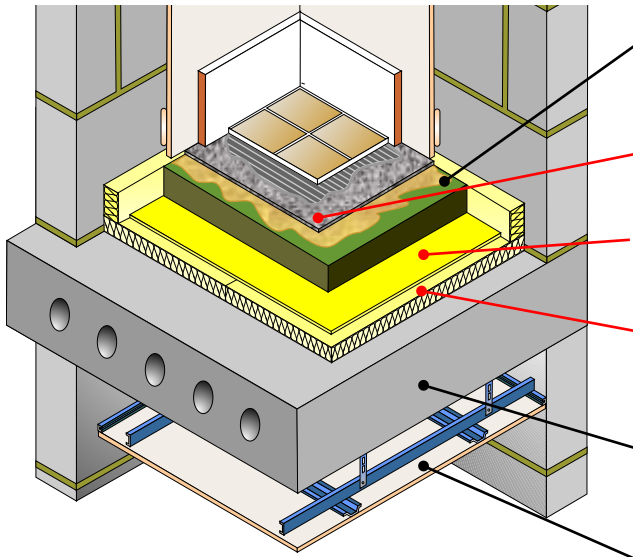


Pre-cast concrete plank
Screed laid on resilient layers
Bonded resilient floor covering



Screed	65mm (min) sand cement screed, or 40mm proprietary screed, nominal 80kg/m ² mass per unit area
Resilient layer (1)	5mm DECKfon ULTRALAY 5 fully bonded soft floor covering
Isolation layer (1)	5mm YELOfon HD5 extruded polyethylene (30kg/m ³)
Isolation layer (2)	25mm (min) YELOFOAM X2i extruded polystyrene insulation board (See Table CF5 for full details)
Structural floor	<ul style="list-style-type: none"> 150mm (min) precast concrete floor plank slab 300kg/m² (min) mass per unit area
Ceiling	See Table CF5 for ceiling treatment options

Fig. CF5

IMPORTANT
If adopting this treatment, all three components MUST be installed:
1) DECKfon Ultralay (resilient layer 1)
2) YELOfon HD5 (isolation layer 1)
3) YELOFOAM X2i / ECO X2i (isolation layer 2)



Table CF5

Robust detail approved resilient layer installation options	Perimeter resilient flanking strip required	Ceiling treatment options						
<p>DECKfon[®] Ultralay 5 High performance soft floor covering</p> <p>Isolating layer (1) YELOfon[®] HD5 5mm extruded polyethylene (30kg/m³)</p> <p>Isolating layer (2) X2i / X2i^e High performance extruded polystyrene</p> <p>or</p> <p>Expanded polystyrene board (100 grade)</p> <p>0 GWP All components*</p> <p>Underfloor heating systems within screed</p> <p>* Excluding X2i</p> <p>Product information Bond Ultralay 5 to screed with Collecta AF200 concrete adhesive: 15kg tub/ 22.5m² coverage HD5, X2i & X2i^e: Refer to page 60</p>	<p>YES / YES^e</p> <p>Extruded polystyrene isolating edge strip: 25mm (t) (min) x thickness of insulation and screed (h) x 2500mm (l) placed around the perimeter of the flooring board to isolate screed from walls and skirting.</p>	<p>CT0 - Metal ceiling - 150mm void To be used with 150mm (min) depth concrete planks</p> <p>150mm (min)</p> <p>One layer of nominal 8kg/m² gypsum-based board</p> <p>CT1 - Metal ceiling - 100mm void To be used with 200mm (min) depth concrete planks</p> <p>100mm (min)</p> <p>One layer of nominal 8kg/m² gypsum-based board</p>						
	<p>Robust Detail performance⁽¹⁾</p> <p>rd L_w = 25dB</p>	<p>Typical PCT performance⁽²⁾</p> <p>D_{nT,w} + C_{tr} = 52dB L_{nT,w} = 40dB</p>						
	<p>Code credits*</p> <table border="1"> <tr> <td>Mat 1</td> <td>Pol 1</td> <td>Hea 2</td> </tr> <tr> <td>0.5</td> <td>1</td> <td>3</td> </tr> </table>		Mat 1	Pol 1	Hea 2	0.5	1	3
Mat 1	Pol 1	Hea 2						
0.5	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

⁽¹⁾ RD impact performance value quoted for DECKfon Ultralay 5 was conducted at a UKAS accredited laboratory in accordance with BS EN ISO 140-8 and BS EN ISO 717-2 as detailed in Appendix G of the Robust details handbook (minimum value required for Results 1 and 2: rd 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.