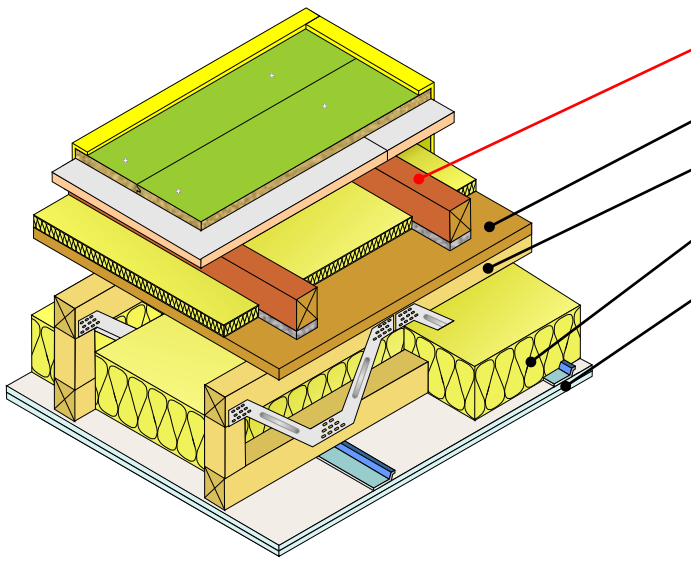


# Structural separating floor - Timber

Robust detail E-FT-3

MiTeK Posi-Joist, Prestaplan Presweb or WOLF easi-joist metal web joists  
Use with timber frame walls only



<b>Floating floor treatment</b>	FFT1 - DECKfon Batten 70 (See Table TF3 for full details)
<b>Floor decking</b>	18mm thick (min)
<b>Joists</b>	253mm (min) Posi-Joist/ PresWeb/ easi-joist metal web joists
<b>Absorbing material</b>	100mm (min) quilt insulation (10-36g/m <sup>3</sup> ) between joists
<b>Ceiling</b>	See Table TF3 for ceiling treatment options

Fig. TF3



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Table TF3

Robust detail E-FT-3 compliant floating floor treatment	Perimeter resilient flanking strip required	Ceiling treatment options
<p><b>FFT1 - Resilient composite deep batten system</b></p> <p>DECKfon Batten 70 </p> <p><b>Additional layers required to complete treatment</b></p> <ul style="list-style-type: none"> <li>• 18mm (min) tongue &amp; groove flooring board</li> <li>• Gypsum-based board nominal 13.5kg/m<sup>2</sup></li> <li>• Mineral wool quilt laid between battens                             <ul style="list-style-type: none"> <li>- 13mm (min) 33 - 36 kg/m<sup>3</sup></li> <li>- 25mm (min) 10 - 33kg/m<sup>3</sup></li> </ul> </li> </ul> <p><b>Dimensions</b> Void dimension indicated is when floor is loaded to 25kg/m<sup>2</sup> Batten dimensions: 75mm (h) x 45mm (w) x 2400mm (l)</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="159 1668 454 1792" style="border: 1px solid black; padding: 5px;"> <p><b>RD performance<sup>(1)</sup></b></p> <p><math>rd \Delta R_w + C_{tr} = 14dB</math></p> <p><math>rd L_w = 16dB</math></p> </div> <div data-bbox="462 1668 582 1792" style="text-align: center;"> <p>VERIFIED BBA DATA</p> </div> <div data-bbox="590 1668 885 1792" style="border: 1px solid black; padding: 5px;"> <p><b>Typical PCT performance<sup>(2)</sup></b></p> <p><math>D_{nT,w} + C_{tr} = 51dB</math></p> <p><math>L_{nT,w} = 52dB</math></p> </div> </div> <p><b>Construction notes</b> Materials must be installed in accordance with manufacturers' instructions to achieve stated acoustic values. Wall treatments <b>MUST</b> be isolated from the floating floor with YELOfon ES5/120 flanking strip. Ensure services do not bridge the resilient layer. Services must not puncture primary ceiling lining (except cables, which should be sealed with flexible sealant).</p>	<p><b>YELOfon ES5/120</b></p> <p>Polyethylene foam flanking strip: 5mm (l) x 120mm (h) x 50m (l) placed around the perimeter of the flooring board to isolate floor from walls and skirting.</p>	<p><b>Ceiling boards must not penetrate or touch the floor joists</b> 16mm (min) metal resilient bars mounted at right angles to the joist at 400mm centres.</p> <p><b>CT1</b>-Two layers of gypsum-based board, composed of 19mm (nominal 13.5kg/m<sup>2</sup>) fixed with 32mm screws and 12.5mm (nominal 10kg/m<sup>2</sup>) fixed with 42mm screws, with all joists staggered.</p> <p><b>CT2</b>-Two layers of gypsum-based board, composed of 15mm (nominal 12.5kg/m<sup>2</sup>) fixed with 25mm screws and a second layer of 15mm (nominal 12.5kg/m<sup>2</sup>) fixed with 42mm screws, with all joists staggered.</p>

**Code credits available**

(See page 6 of the table for further information)

**Acoustic values**  
<sup>(1)</sup>RD impact performance values quoted were conducted at Sound Research Laboratories, Sudbury, UKAS ref. 0444. Airborne tested in accordance with BS EN ISO 140-3: 1995 and rated in accordance with BS ISO 717-1: 1997. Impact tested in accordance with BS EN ISO 140-6: 1998 and rated in accordance with BS ISO 717-2: 1997 as detailed in Appendix C of the Robust details handbook (minimum values required  $rd \Delta R_w + C_{tr} = 13dB$  and  $rd L_w = 15dB$ ).  
<sup>(2)</sup> 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.