

Robust detail Product Performance Requirements

A generic Robust detail treatment is one that has been tested in a UKAS accredited laboratory to prescribed standards and achieves the minimum acoustic performance detailed in the Robust details handbook.

Concrete Floors

E-FC-1, 2 & 8 and **E-FS-1**: Experience has shown that the mass of the floor and the ceiling treatment will exceed the required RD airborne acoustic values, thus eliminating the need for additional testing. However each floating floor treatment's (FFT) impact sound performance needs to be assessed and must achieve a minimum impact improvement of $rd \Delta L_w$ 17dB.

Timber / Metal Joists Floors

E-FT-1, E-FT-2, E-FT-3 & E-FS-2: The FFT must achieve minimum airborne and impact improvement values.

Airborne: $rd \Delta R_w + C_{tr} = 13dB$

Impact: $rd \Delta L_w = 15dB$

Note. The higher the ΔdB value the more acoustically efficient the floor treatment.

Tests results

Where required, *Collecta's* Robust detail compliant products have been tested in accordance with BS EN ISO 140-6: 1998. FFT1 for E-FT-1, 2, 3 and E-FS-2 have also been tested in accordance with BS EN ISO 140-3: 1995 and rated in accordance with BS EN ISO 717-2: 1997. Measurements were taken in a laboratory with suppressed flanking transmission in accordance with BS EN ISO 140-1: 1997 and BS EN ISO 140-2: 1991.

All *Collecta's* FFTs exceed the minimum laboratory performance values required by Robust Details Limited.

All single figure RD acoustic performance values given in this document have been verified by the BBA.

Construction notes

Materials must be installed in accordance with manufacturers instructions to achieve stated acoustic values. Structural floors must meet requirements of the specific Robust detail. For FFT1, FFT2 and FFT3 battens should be set at 400mm (max) centres for 18mm chipboard and 600mm (max) centres for 22mm chipboard. For further details, refer to the Robust details handbook and Part E "Resistance to the passage of sound" documentation.

A proprietary Robust detail treatment is one that is only available from a specific manufacturer. The product or system has undergone a rigorous on-site testing regime to confirm its robustness and acoustic efficiency.

E-FC-5: YELOfon HD10+System consists of three components which must all be installed correctly to comply with the Robust detail and is only available from *Collecta*.

System components: **YELOfon HD10+** (resilient layer with *Surebond* facing), **E-strip** (self-adhesive, perimeter edge strip with *Surebond* facing) & **J-strip** (acoustic joining tape). See page 20 for full details.

E-FT-5: ScreedBoard 28 consists of two components which must all be installed correctly to comply with the Robust detail and is only available from *Collecta*.

System components: **ScreedBoard 28** (composite acoustic treatment) and FS 50 pre-formed flanking **strip**. See page 35 for full details.

Robust detail Separating Walls

A multitude of both generic and proprietary Robust detail separating wall constructions are available. Full details of compatible separating wall and floor combinations can be found in the Robust details handbook.

Robust detail Procedure (Floors)

Step 1: Using the Robust details handbook, select a structural floorl to be adopted

Step 2: Choose an acoustic treatment and resilient flanking strip

Step 3: Select a ceiling treatment

Step 4: Register the chosen construction* with Robust Details Limited

*If adopting E-FC-5 receive FREE on-site training from *Collecta*

Step 5: Install each layer in accordance with manufacturers' instructions and RD checklist

Part E satisfied ✓