

Methods of Compliance & Acoustic Solutions at a Glance

Method of Compliance - PCT/PT Approved Document E

Timber & Concrete Floors	New Build PCT req'd	Conversion PCT req'd	Refurbishment	Remedial	Floor Type (Refer to brochure for construction details)
Acoustic Batten JCW 80T timber frame. (bespoke batten depths available made to order)	•		•		Timber PCT/PT or General Refurbishment
Acoustic Batten JCW 50C & JCW 80C See Robust Details for further options	•		•		Concrete PCT/PT or General Refurbishment
Cradle & Batten See Robust Details for further options	•		•		Concrete PCT/PT or General Refurbishment
Impacta Rubber Under Screed Rubber Layer	•				Concrete PCT/PT
Acoustic Screed Foam Pack Under Screed Foam Layer	•				Concrete PCT/PT
Impacta Mat 3mm. Surface Impact Layer			•	•	Concrete & Timber Refurbishment
Impacta Mat 4.5mm Surface Impact Layer	•		•	•	Concrete PCT/PT/ Refurbishment
Deck 19 T&G Overlay			•	•	Timber or Concrete General Refurbishment
Acoustic Deck 28 & 32 Overlay		•	•		PCT/PT Timber or General Refurbishment
Deck 33 & Deck 37C Direct to joist option	•	•	•		PCT/PT Timber or General Refurbishment
Deck 37 Cement Board Direct to joist option	•	•	•		PCT/PT Timber or General Refurbishment
Impactalay 12mm. Surface Mat treatment			•	•	Timber & Concrete or General Refurbishment
Impactalay Plus 15mm. Surface Mat treatment		•	•	•	PCT/PT or General Refurbishment

Method of Compliance - Robust Detail (New Build Dwellings only)

Product Range	Robust Detail	Floor Type
Batten JCW 50C (FFT 3)	✓	E-FC-1, 2, 7 E-FS-1
Batten JCW 80C (FFT 1)	✓	E-FC-1, 2, 7 E-FS-1
JCW 80T (FFT 1)	✓	E-FT-1, 2, 3 E-FS-2
Cradle & Batten (FFT 2)	✓	E-FC-1, E-FC-2 & E-FS-1
Deck 19 (FFT 5)	✓	E-FC-1, 2 E-FS-1
Deck 28 & 32 (FFT 5)	✓	E-FC-1, 2 E-FS-1
Impacta Mat (4.5mm) (Bonded Resilient Floor Cover)	✓	E-FC-8

These products have been independently tested in a UKAS accredited laboratory and meet or exceed the minimum performance criteria as stipulated in the Robust Details Handbook.

Please refer to the Robust Details Handbook for details of the required specification.

Key to Method of Compliance

PCT - Pre-Completion Testing (England & Wales)
PT - Performance Testing (Scotland)
FFT - Floating Floor Treatment

Walls				Product	Wall Type
Timber Single Stud Solution			•	Acoustic Quilt	PCT/PT
Timber Double Stud Solution	•			Acoustic Quilt	PCT/PT
Metal Single Frame Solution			•	Acoustic Quilt	PCT/PT
Metal Twin Frame Solution	•			Acoustic Quilt	PCT/PT
Independent Wall Lining Solution			•	Acoustic Quilt	PCT/PT
Acoustic Liner Solution			•	Acoustic Silent Board	PCT/PT

APPROVED DOCUMENT E 2003 (ENGLAND AND WALES)

Dwelling-houses and flats - Performance standards for separating walls, separating floors and stairs that have a separating function between dwellings.

New Build	Airborne Sound Insulation D _{NT,w} + C _{tr} dB (minimum values)	Impact Sound Insulation L' _{NT,w} dB (minimum values)
Walls	45	
Floors and stairs	45	62

Conversions - Material Change of Use		
Walls	43	
Floors and stairs	43	64

Rooms for residential purposes - Performance standards for separating walls, separating floors and stairs that have a separating function between dwellings.

New Build	Airborne Sound Insulation D _{NT,w} + C _{tr} dB (minimum values)	Impact Sound Insulation L' _{NT,w} dB (minimum values)
Walls	43	
Floors and stairs	45	62

Conversions - Material Change of Use		
Walls	43	
Floors and stairs	43	64

Laboratory values - For new internal walls and floors between all internal habitable rooms including bathroom/w.c. within a residential property.

Domestic (Non separating)	Airborne Sound Insulation R _w dB (minimum values)
Walls	40
Floors and stairs	40

Methods of Compliance

Compliance with Approved Document E can be shown by Pre-Completion Testing or site registration with Robust Details Ltd.

Pre-completion Testing

Sound insulation testing, to show compliance with the relevant performance standards should be conducted in accordance with:

BS EN ISO 140-4:1998 (airborne)
BS EN ISO 140-7:1998 (impact)

Robust Details

The Robust Details Certification Scheme is a simple and reliable route to compliance.

It is designed for separating walls and floors in new build dwellings only in England and Wales.

For more information go to: www.robustdetails.com

SECTION 5 (SCOTLAND)

Airborne Sound Insulation	Mean Value D _{NT,w} dB (minimum)	Individual Value D _{NT,w} dB (minimum)
Walls	56*	49
Floors & Stairs	56*	48

*Traditional Buildings 53 DnT,w dB

Impact Sound Insulation	Mean Value L' _{NT,w} dB (maximum)	Individual Value L' _{NT,w} dB (maximum)
Floors & Stairs	56**	65

**Traditional Buildings 58 L'nTw dB

Methods of Compliance

Compliance to Section 5 can be shown by adherence to Specified Constructions or Performance Testing.

Specified Constructions

Standard Constructions that are listed in Section 5 of the Scottish Technical Handbooks.

Performance Testing

Sound insulation testing to show compliance with the relevant performance standards should be conducted in accordance with:

BS EN ISO 140-4:1998 (airborne)
BS EN ISO 140-7:1998 (impact)