

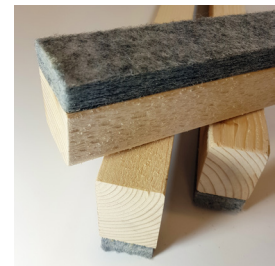
Technical Data Sheet

PRODUCT DESCRIPTION

CMS Danskin Acoustics supply an innovative flooring bearer with an exceptional level of acoustic performance which contributes significantly to the reduction of impact and airborne sound through party floors.

The Reflex Bearer incorporates a unique resilient fibre layer which provides a high degree of impact sound reduction.

CMS Danskin Acoustics Reflex Bearers can be used on level timber or lightweight steel joist constructions as part of a suitable floor and ceiling construction in new build and refurbishment applications.



FEATURES and BENEFITS

- Approved FFT1 and FFT3 bearer in many Robust Detail and Scottish Example Constructions
- Exceptional impact sound reduction in party floors
- Can eliminate wet trades
- Provides void for services and underfloor heating
- Proven durability of resilient fibre layer
- Proven acoustic performance
- Global Warming Potential (GWP) of resilient layer is 0

ACCESSORIES

- 'L' Shaped Flanking Strip
- High Load Bearers for limited use at room perimeters or under baths, WC's, kitchen equipment etc.
- Acoustic insulation quilt (as required)
- Flooring boards: Chipboard / Smartspan / Engineered Plywood

PHYSICAL INFORMATION

Reflex Bearers comprise softwood timber 45mm wide by 2400mm long with the unique fibre resilient layer adhered to the underside. The softwood timber is FSC Certified as standard.

Treated timber available upon request.

Length	Width (*1)	Height (*2)	Height Benchmark (*3)
2400mm	45mm	53mm	FFT3
2400mm	45mm	75mm	FFT1
2400mm	45mm	87mm	FFT80

Notes :

- *1 - Reflex Bearers comply with the WPIF Code of Practice for Particle Board and OSB Floating Floors (3/2018) which specifies a minimum finished batten width of 45mm.
- *2 - It is anticipated that the resilient layer will compress by around 4mm under a UDL of 25kg/m².
- *3 - This refers to the batten height category. Please also refer to the FFT performance table on the next page for appropriate use.

TECHNICAL INFORMATION

Design Approach	Performance Requirements	Tested Performance
England & Wales Robust Detail Construction (*1)		
E-FT-1 - Timber I Joists (FFT1 batten) E-FT-2 - Timber Solid Joists (FFT1 batten) E-FT-3 - Metal Web Joists (FFT1 batten) E-FS-2 - Metal Joists (FFT1 batten)	FFT1 Batten to be at least 70mm high (compressed) Minimum rdΔ Lw 15dB Minimum rdΔ Rw + Ctr 13dB	75mm high Reflex Bearer rdΔ Lw 22dB rdΔ Rw + Ctr 16dB
E-FT-7 - Timber I Joists (FFT80 batten) E-FT-8 - Timber Solid Joists (FFT80 batten)	FFT80 Batten to be at least 80mm high (compressed) Minimum rdΔ Lw 16dB Minimum rdΔ Rw 17dB Minimum rdΔ Lw + Ctr 13dB	87mm high Reflex Bearer rdΔ Lw 23dB rdΔ Rw 18dB rdΔ Rw + Ctr 17dB
Scottish Robust Detail Construction		
V-FT-1 - Timber I Joists (FFT80 batten) V-FT-2 - Timber Solid Joists (FFT80 batten)	FFT80 Batten to be at least 80mm high (compressed) Minimum rdΔ Lw 16dB Minimum rdΔ Rw 17dB Minimum rdΔ Lw + Ctr 13dB	87mm high Reflex Bearer rdΔ Lw 23dB rdΔ Rw 18dB rdΔ Rw + Ctr 17dB
Scottish Example Constructions		
Floor type 3A Timber Frame Floor with Solid Joists Floor type 3B Timber Frame Floor with Engineered I Joists	FFT1 Batten to be at least 70mm high (compressed) Minimum Δ Lw 16dB Minimum Δ Rw 17dB Minimum Δ Rw + Ctr 13dB	75mm high Reflex Bearer Δ Lw 22dB Δ Rw 17dB Δ Rw + Ctr 16dB

Note : *1 - In Northern Ireland these constructions are accepted as an alternative to pre-completion sound testing to demonstrate compliance with Part G (NI) for new dwellings.

OTHER PRODUCTS

CMS Danskin Acoustics also supply a Saddle System - a range of acoustic and thermally enhanced floor levelling systems suitable for a wide range of uneven subfloors. Please contact CMS Danskin Acoustics for more information.

STORAGE and HANDLING

All components should be stored inside, under cover and in dry conditions at all times. Materials should be located in the environment in which they are to be fixed at least 24 hours prior to installation.

Do not place large quantities of material such as chipboard or plasterboard on top of laid flooring as this extreme loading can damage resilient layers

GENERAL

Reflex Bearers are designed for installation on generally even subfloors. Maximum permissible deviation is 3mm under a 2m straight edge resting in contact with the floor surface.

BEARER CENTRES

Bearer centres must not exceed 400mm for 18mm chipboard or 600mm for 22mm chipboard based on a maximum UDL of 1.5kN/m² and concentrated loads of 2kN. Bearer centres should be reduced to 300mm where heavy loads are anticipated. e.g. kitchens and bathrooms. Where anticipated loads exceed these figures please contact CMS Danskin Acoustics.

PARTITIONS

Where lightweight, non load bearing partitions are built from the top of the floating floor a double row of Reflex Bearers should be placed beneath the partition. If the line of a partition does not fall above a structural joist a supporting ladder frame of Reflex Bearers should be created.

INSTALLATION

To ensure correct installation of the floor the detailed fixing instructions must be followed carefully. Copies of these instructions should be obtained from the manufacturer.

