

APPLICATION OVERVIEW

Acoustic performance is the principle requirement in separating floors, with both sound insulation and sound absorption being important considerations.

The sound absorption characteristics of our Mineral Wool insulation solutions make them ideal for use in separating floor build-ups.

We have a wide range of solutions which comply with constructions registered in the Robust Details Handbook, providing compliance with sound related building regulations.

RECOMMENDED PRODUCT

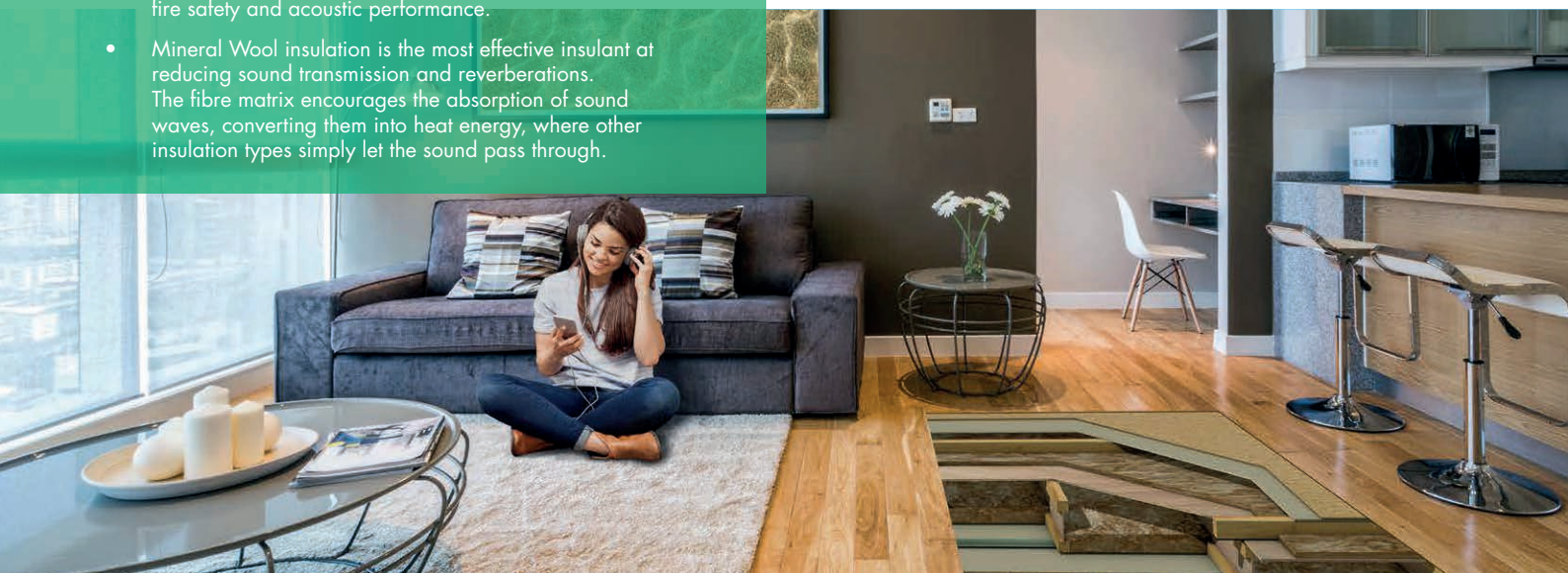
- **Acoustic Roll** (see page 92)

OTHER SUITABLE PRODUCTS

- **OmniFit® Roll 40** (see page 102)
- **OmniFit® Slab 35** (see page 104)
- **Rocksilk® Flexible Slab** (see page 118)

WHY MINERAL WOOL?

- Mineral Wool provides the best combination of thermal, fire safety and acoustic performance.
- Mineral Wool insulation is the most effective insulant at reducing sound transmission and reverberations. The fibre matrix encourages the absorption of sound waves, converting them into heat energy, where other insulation types simply let the sound pass through.



ROBUST DETAILS



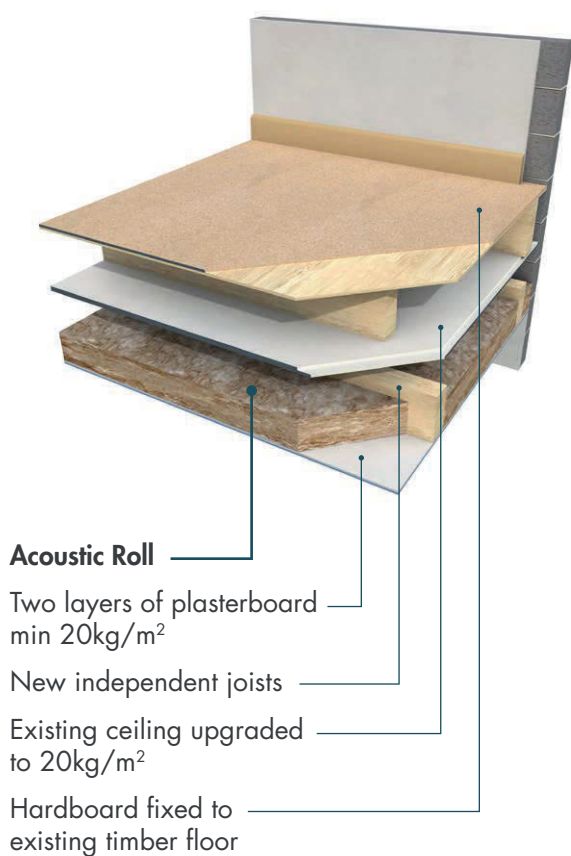
	Robust Detail Handbook reference	Joist Type	Acoustic Roll	OmniFit® Roll 40	OmniFit® Slab 35	Rocksilk® Flexible Slab
Timber Separating Floors	E-FT-1	Timber I-joists	✓	✓	✓	✓
	E-FT-2	Timber solid joists	✓	✓	✓	✓
	E-FT-3	Timber flange and metal web joists	✓	✓	✓	✓
	E-FT-4	Finnforest SoundBar Systems	✓	✓	✓	✓
	E-FT-5	Timber I-joists	✓	✓	✓	✓
	E-FT-6	Timber flange and metal web joists	✓	✓	✓	✓
	E-FT-7	Timber I-joists	✓	✓	✓	✓
	E-FT-8	Timber solid joists	✓	✓	✓	✓



APPLICATION OVERVIEW

This detail provides a solution to upgrade existing separating floors for improved acoustic performance. The existing timber joist floor is overlaid with hardboard and a new independent timber joist ceiling containing absorbent Mineral Wool is installed below.

The separation between the existing floor and the new ceiling prevents unwanted noise transfer via flanking, whilst the use of absorbent Mineral Wool further improves sound reduction.



RECOMMENDED PRODUCT

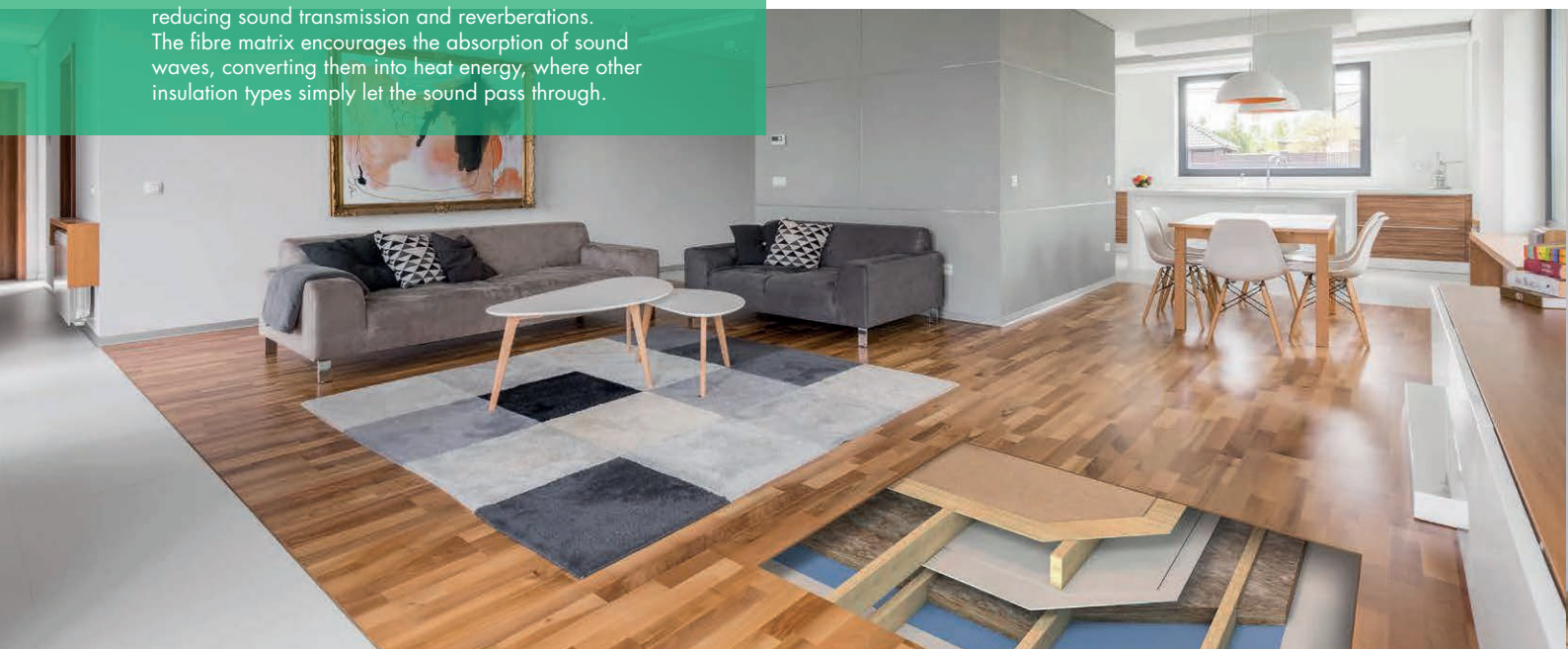
- **Acoustic Roll** (see page 92)

OTHER SUITABLE PRODUCTS

- **OmniFit® Roll 40** (see page 102)
- **OmniFit® Slab 35** (see page 104)
- **Rocksilk® RS45** (see page 116)
- **Rocksilk® Flexible Slab** (see page 118)

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SEPARATING FLOORS

UPGRADE TO AN EXISTING TIMBER FLOOR WITH
NEW PLATFORM FLOOR



APPLICATION OVERVIEW

This detail provides a solution to upgrade existing separating floors for improved acoustic performance. The existing timber joist floor is overlaid with a new floating platform (min 25kg/m²) on a resilient layer of 25mm Rocksilk® Acoustic Floor Slab.

The use of absorbent Mineral Wool improves sound reduction, provides a solution as recommended for floor treatment 2 in Approved Document E and is for use where flats are formed by material change of use.



Rocksilk® Acoustic Floor Slab

Plasterboard at least 10kg/m²

Timber deck with minimum
mass of 15kg/m²

Timber joists

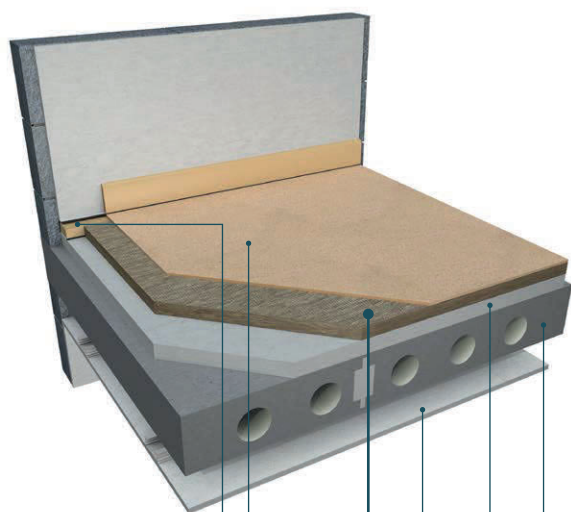
RECOMMENDED PRODUCTS

- **Rocksilk® Acoustic Floor Slab** (see page 120)
- **Acoustic Roll** (see page 92)

OTHER SUITABLE PRODUCTS

- **OmniFit® Roll 40** (see page 102)
- **OmniFit® Slab 35** (see page 104)
- **Rocksilk® RS45** (see page 116)
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Extruded polyethylene
edge strip

18mm chipboard

Rocksilk® Acoustic Floor Slab Plus

15mm plasterboard supported by
Knauf C Form II Ceiling System,
minimum 75mm separation

40mm (min) screed directly applied to plank
cement/sand or proprietary screed nominal
80 kg/m² mass per unit area

Minimum 150mm precast concrete slab
(minimum 300kg/m² mass)



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RECOMMENDED PRODUCT

- **Rocksilk® Acoustic Floor Slab Plus** (see page 120)

ROBUST DETAILS



	Robust Detail Handbook reference	Acoustic Floor Slab Plus
Concrete Floors	E-FC-1	✓
	E-FC-2	✓
Steel concrete composite floors	E-FS-1	✓

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