

Data Sheet

ECO Cradle (Pack & Level System)

ECO-TEK
Sustainable Flooring Solutions

Engineered with Recycled Material

Reducing Waste

ECO-TEK are dedicated to reducing flooring waste and use recycled materials wherever possible. We manufacture our eco cradles from recycled vehicle tyres, which prevents thousands of worn tyres going to landfill every year.

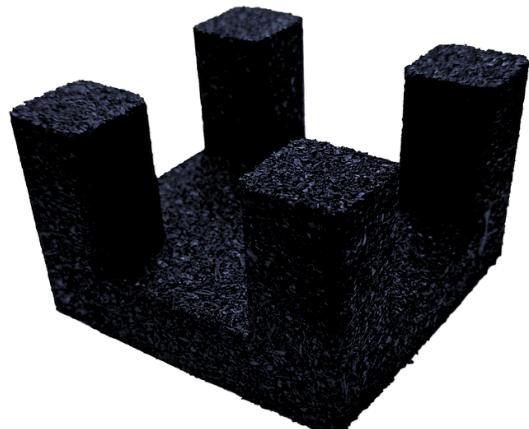
The Eco Cradle floor system is a multi-purpose acoustic floor system for commercial and residential applications. This system provides acoustic isolation, reducing sound entering the structure.

The acoustic cradle pack and level subfloor allows accurate levelling of uneven structural floors removing the need for concrete levelling screeds and therefore reducing embodied carbon.

Durability

The long term performance of a sprung floor relies on the durability of the supporting cradles. By using recycled rubber we ensure that the acoustic performance is maintained throughout the life of the floor and that commercial/residential loading does not compromise the durability of the system.

Single composition rubber cradles manufactured using recycled tyres



SBR Rubber Granules

Tyres Recycled

100% Recovery of rubber from tyre
1 tyre recycled per 253 cradles
1000 sqm = 47 tyres recycled

Calculation based on EC40/27 @
11.8 cradles per m²



Sustainable

Innovative

Acoustic

Flooring

System Benefits

- Isolates impact noise and vibration
- Improves airborne sound insulation
- Levels uneven structural floors allowing a flat platform
- Prevents impact sound transferring into the structure and causing noise complaints
- Adhesive free floor finishes, improving flexibility of spaces and easy repairs
- Improves airborne sound insulation
- Provides a service void for electrical services
- Compatible with underfloor heating

Comparison of Eco Cradle acoustic flooring vs isolated screed installation:

- Reduces installation time by 30%
- Removes curing delays
- Over 5 times less embodied carbon compared with sand cement screed.
- Light weight system with 3 times lower loading on structure

Loading information

UDL: 5.0kN/m²

Point Load: 3.6kN

Load Distribution Layer: 18mm T&G Plywood

LVL Cradle Beam Options

45mm (w) x 27mm (h) x 2400mm (l)

45mm (w) x 36mm (h) x 2400mm (l)

45mm (w) x 45mm (h) x 2400mm (l)

Acoustic Performance

Laboratory Test

ISO 717-1 - Rw 61dB / Rw + Ctr 53dB

ISO 717-2 - Ln,w 51dB

Weighted reduction of impact sound pressure level of sample: ΔL_w 28dB

Field Test

ISO 717-1 - DnTw + Ctr - 62dB

ISO 717-2 - LnTw - 42dB

200mm Concrete Structural Slab
150mm MF Ceiling

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Applications

- New build
- Refurbishment
- All level and uneven subfloors
- Commercial
- Residential

System	Beam Centres	Cradle Centres
EC30/27	300mm	300mm
EC30/36	300mm	300mm
EC30/45	300mm	300mm
EC40/27	400mm	300mm
EC40/36	400mm	450mm
EC40/45	400mm	600mm

Eco Cradle
25mm Leg / 20mm Base



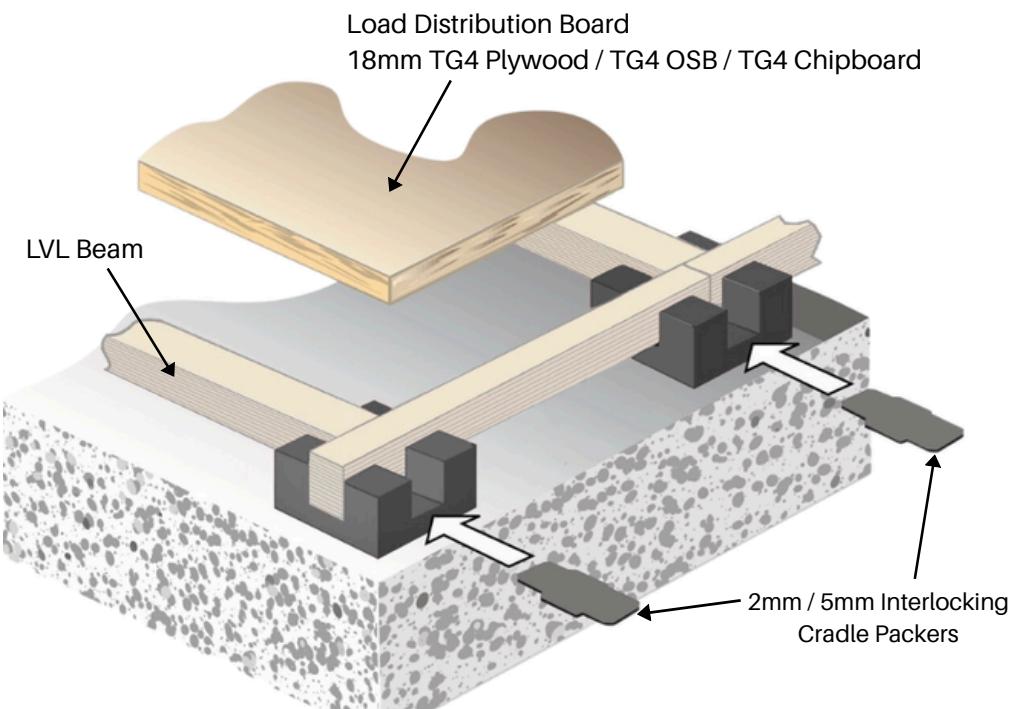
Eco Cradle
40mm Leg / 20 Base



30mm Interlocking
Cradle Base Packer

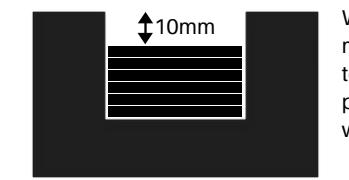


10mm Interlocking
Cradle Base Packer



Increased Floor Heights

When increased finished floor heights are required, deep service voids or very uneven subfloors, cradle base packers are available for rapid, easy height adjustment. These may be used in multiples to achieve the desired finished floor height.



Sub-Floor Levelling

When packing within the cradle a min of 10mm must be left from the top of the cradle leg. Further packing/levelling can be achieved with cradle base packers.

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