

Engineered with Recycled Material

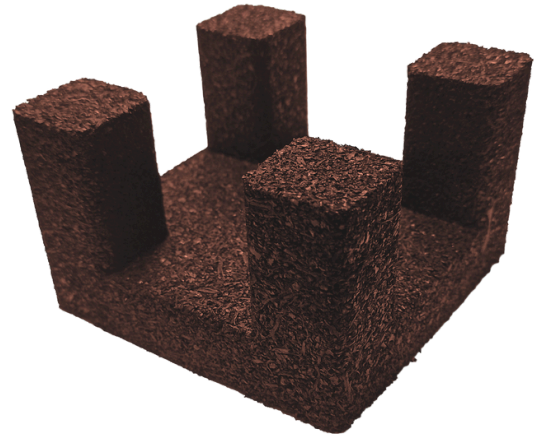
Reducing Waste & The Circular Economy

ECO-TEK are dedicated to reducing flooring waste and use recycled materials wherever possible. We manufacture our unique sports cradles and acoustic underlays from recycled vehicle tyres, which prevents thousands of worn tyres going to landfill every year. To support sustainability, the LVL cradle beams are machined from FSC sourced timber.

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 sprung performance is maintained throughout the life of the floor and that loading from equipment such as retractable seating does not compromise the durability of the system.

Single composition rubber cradles manufactured using recycled tyres



Tyres Recycled

100% Recovery of rubber from tyre
1 tyre recycled per 37 cradles
1000 sqm = **319 tyres recycled**



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

Acoustic Performance

Laboratory Test

ISO 717-1 - R_w 61dB / $R_w + C_{tr}$ 53dB

ISO 717-2 - $L_{n,w}$ 51dB

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

Data Sheet

Sprung Sports Floors

Applications

- New build
- Refurbishment
- All level and uneven subfloors
- Sports halls and gyms
- Multi-use games and play areas
- Dance and exercise studios

System	Beam Centres	Cradle Centres
SP18/45	400mm	600mm
SP18/27	400mm	300mm
SP22/45	400/600mm	600mm
SP22/27	400/600mm	600mm

Sports Cradle
25mm Leg / 20mm Base



Sports Cradle
40mm Leg / 20 Base



30mm Interlocking
Cradle Base Packer



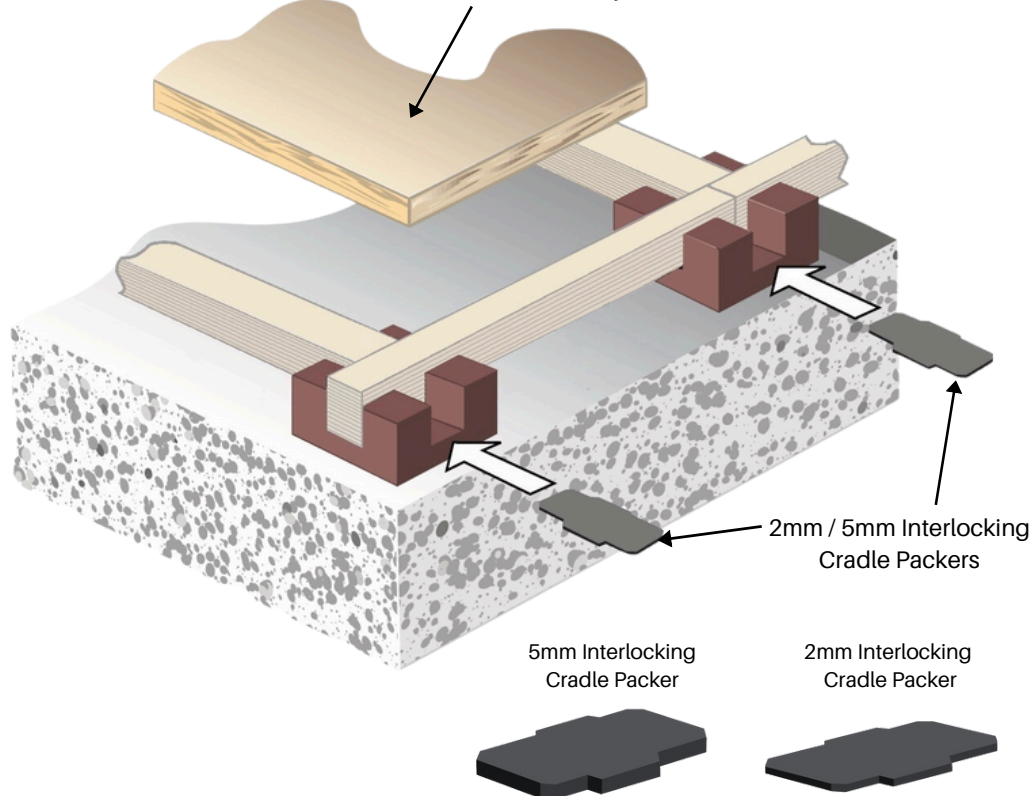
10mm Interlocking
Cradle Base Packer



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.

Load Distribution Board
18mm/22mm TG4 Plywood



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.

