

InstaCradle®

High performance
acoustic and sports
cradles with
floor levelling system



InstaCradle®

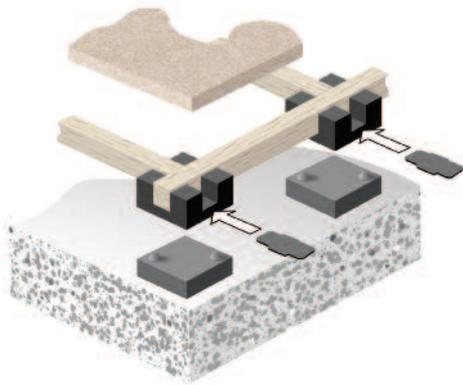
Rubber crumb cradles for raised, acoustic and sports flooring

Our unique, patented, rubber crumb cradles and base packers are manufactured from quality recycled tyre rubber. Together with cradle packers, timber battens overlaid with chipboard, plywood or a hardwood, they form the prime component in creating high performance acoustic and sports floors which can accommodate a variety of floor coverings.

Widely used in refurbishment, conversions and new build projects, these versatile and environmentally friendly cradles are able to provide an extensive range of finished floor heights. They also provide accurate and rapid on-site levelling to eliminate any unevenness in the structural floor surface.

The InstaFloor Cradle and Batten System is designed either as a raised floor, accommodating underfloor services, or as a floor offering extremely high standards of acoustic and sports performance. **InstaCradles** can be quickly and easily levelled on-site with the use of cradle packers and base packers, as required.

InstaFloor can supply complete systems with all necessary components or, for those wishing to purchase the battens and chipboard or plywood locally, we can supply the cradles, together with cradle packers (2mm or 5mm) and base packers (10mm or 30mm).



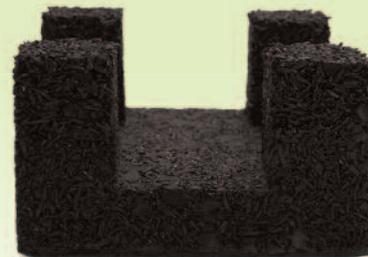
BENEFITS OF RECYCLED RUBBER CRUMB CRADLES

- Rubber crumb cradles have a 60 year guarantee
- Fast, easy and cost-effective to install
- Cradles are loose laid and do not require fixing to sub-floor
- Adjustable to produce varying finished floor heights
- On-site levelling to overcome uneven floors
- No levelling screeds or drying times needed
- Manufactured using recycled rubber to provide long lasting high performance solutions
- Fully recyclable, genuine 'cradle-to-cradle' product
- Excellent acoustic performance
- System can provide a void for services/underfloor heating
- Cradles are unaffected by water
- Cradles can be used in areas of abnormal loadings
- Requires no maintenance
- Available as cradle and packer components or a full system
- Can accept a range of floor finishes including ceramic tiles
- Hardwood floors can be secret nailed direct to timber battens
- Structural loadings minimised due to lightweight system
- Suitable for use with outside decking

Environmentally Friendly



- Made from recycled tyre rubber
- Fully recyclable – 'Cradle to Cradle'
- Long lasting – guaranteed for 60 years



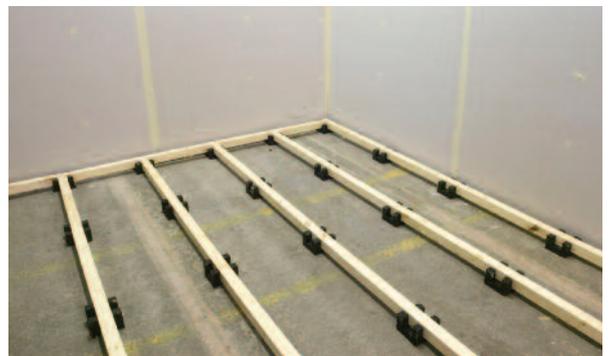
1 truck tyre recycled per 79 InstaCradles
1000m² = 149 truck tyres recycled

1 car tyre recycled per 18 InstaCradles
1000m² = 655 car tyres recycled

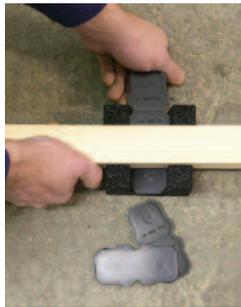
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APPLICATIONS

	Acoustic Cradles	Sports Cradles	Base Packers
High Acoustic Performance	✓		
New Build	✓	✓	
Refurbishment	✓	✓	
Timber Floor - Level	✓	✓	
Timber Floor - Uneven	✓	✓	
Concrete Floor - Level	✓	✓	
Concrete Floor - Uneven	✓	✓	
Timber Frame	✓		
Kitchen & Bathroom Areas	✓		
Timber Decking	✓		
Commercial Installations	✓		
Schools	✓		
Sports Floors		✓	
Dance Floors		✓	
Free Weight Areas	✓	✓	
Abnormal Loadings	✓		
Underfloor Heating	✓	✓	
Floor Levelling Capability	✓	✓	
Increased Floor Height			✓
Access Runs	✓	✓	
Access For Services	✓	✓	



The rubber crumb cradles can be installed quickly and avoid the need for levelling screed with extensive drying times. InstaCradles facilitate easy levelling of uneven sub-floors by placing combinations of 2mm and 5mm cradle packers beneath the battens within the cradle legs. Using the cradle packers, it is possible to level to within 5mm of the top of the cradle leg, i.e. 35mm within a 40mm leg cradle and 20mm within a 25mm leg cradle. If additional levelling is required, then this can be achieved with the use of base packers (10mm and/or 30mm).



PRODUCT INFORMATION

Details	40mm Leg, 20mm Base Acoustic	25mm Leg, 20mm Base Acoustic	25mm Leg, 10mm Base Acoustic	40mm Leg, 20mm Base Sports	25mm Leg, 20mm Base Sports	10mm Base Packer	30mm Base Packer	2mm Cradle Packer	5mm Cradle Packer
Recommended Use	See Applications above							Within cradle legs	
Height	60mm	45mm	35mm	60mm	45mm	10mm	30mm	n/a	n/a
Compound	92% recycled tyre tread			91% recycled tyre tread		91% recycled tyre tread		recycled polypropylene	
Bonding Agent	Flexible Polyurethane							n/a	n/a
Colour	Black			Burgundy		Black		Black	
Guarantee	60 years								
Weight	0.25 kg	0.18 kg	0.13 kg	0.25 kg	0.18 kg	0.11 kg	0.33 kg	n/a	n/a
Box Quantity	90	120	150	90	120	162	54	300	100
Box Weight	22.50 kg	21.60kg	19.50kg	22.50kg	21.60kg	17.82kg	17.82kg	2.8kg	1.6kg
Measured Improvement Of Impact Sound (ΔL_w) BS EN ISO 140-8:1998	28	28	28	n/a	n/a	n/a	n/a	n/a	n/a
Compliant with EN 14904 (Standard For Indoor Multi-Sports Floors In Europe)	n/a	n/a	n/a	Yes	Yes	n/a	n/a	n/a	n/a
Fire Tests according to BS 4790:1987 (2009) – Hot Metal Nut Method	Low Classification / Radius of Effects of Ignition					n/a	n/a	n/a	n/a
Odour	No Objectional Odour								

FITTING TIPS AND CONSIDERATIONS

It is strongly advised that the following tips and considerations are read in conjunction with the comprehensive and detailed fitting instructions which can be viewed and/or downloaded from our website at www.instafl oor.co.uk

- The highly versatile environmentally friendly **InstaCradle** products are suitable for use in refurbishment, conversions and new build projects. As part of a cradle and batten system, the system is designed as either a raised floor, accommodating underfloor services, or as a floor offering extremely high standards of acoustic or sports performance.
- The type of **InstaCradle** to use (40mm leg, 25mm leg, 20mm base or 10mm base) will be dependent on the required finished floor height and also the final application:
 - ✓ Acoustic Cradles are best to be used in installations when a high acoustic performance is required.
 - ✓ The Acoustic Cradles are ideal for use in areas that are subject to high foot traffic or where the floor is exposed to abnormal loadings. In such cases, please refer to the InstaFloor Technical Department for advice.
 - ✓ Sports Cradles are perfect for use in most sports floor applications or in areas where increased shock absorption performance from the system is required.
- As no levelling screeds are necessary, **InstaCradle** makes fitting floors very fast, easy and cost effective, as the cradles are simply placed at the required spacings on the existing floor. This significantly reduces installation preparation times by eliminating the need to apply time consuming levelling screeds below the cradles.
- The floor receiving **InstaCradle** should be hard, dry, free of debris and reasonably smooth (tamped finishes are acceptable). If a screed has been applied, it must be fully cured before beginning the **InstaCradle** installation.
- The **InstaCradles** are easily and accurately levelled with the use of a laser level. Perfectly level floors are achieved by placing appropriate combinations of 2mm and/or 5mm cradle packers beneath the battens within the cradle legs.
- If there is a risk of moisture levels to the sub-floor, in excess of a relative humidity of 75%, it is recommended that a damp-proof membrane (DPM) is laid beneath the system.
- A DPM, such as a 1200 gauge polythene sheeting, should be installed over all ground floor slabs and new concrete bases above ground floor. Joints shall be lapped a minimum of 150mm, and should be taped and sealed with waterproof adhesive tape, with edges upturned to the same heights as the overlay boards at all perimeter walls.
- When increased floor heights are required to cater for specific design criteria, deep services or very uneven sub-floors, base packers (10mm and 30mm) or deep timber battens can be used for rapid, cost-effective height adjustment. A maximum of 4 base packers can be used below each cradle, increasing the floor height by up to 120mm (4 x 30mm base packers).
- Access runs can easily be created by the introduction of removable boards cut to suit. Ensure that the access run boards and adjoining floor boards meet in the centre of a batten and that access boards are supported by the introduction of cross-battens located within the cradles. Additional cradles and battens may be required to suit the position of the access runs. A 2mm gap should be maintained between the floor boards and the access run boards to avoid squeaking.
- Intermediate expansion joints may be required if the cradle and batten system is being installed in long corridors.
- Underfloor Heating can be used with the cradle and batten system.
- **InstaCradle**, as part of a cradle and batten system, is extremely versatile, accepting and accommodating most floor coverings including ceramic tiles. Tongue and grooved wood floors can be installed directly onto the battens supported by the cradles.

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SOUND INSULATION

InstaCradle provides an excellent solution for reducing impact and airborne sound. As **InstaCradle** is made using recycled rubber crumb granules, this gives a high quality long lasting performance providing significant noise reduction and exceptional support to all floor coverings.

ACOUSTIC PERFORMANCE

Product	Acoustic Performance
InstaCradle (10mm base)	28dB (ΔL_w)
InstaCradle (20mm base)	28dB (ΔL_w)

GUARANTEE

InstaCradle high performance acoustic and sports cradles are guaranteed for a period of 60 years from the date of installation. The guarantee applies to all types of indoor installations when used as a sub-floor system.

Our polyurethane bonded recycled rubber cradles will have a life span in excess of **60 years** when installed and operated within normal living conditions (including kitchen and bathroom areas) and protected from ultraviolet (UV) light.

InstaCradle will maintain its integrity for this time span provided it is not subjected to abnormal conditions such as undue physical loading.

This guarantee covers against manufacturing defects and is only upheld in instances where our recommended product selection and installation methods have been strictly adhered to.

In the event of a confirmed product failure due to a manufacturing defect, the company will replace the defective cradles with new equivalent products, free of charge.



SUPPORTING YOUR WORLD

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