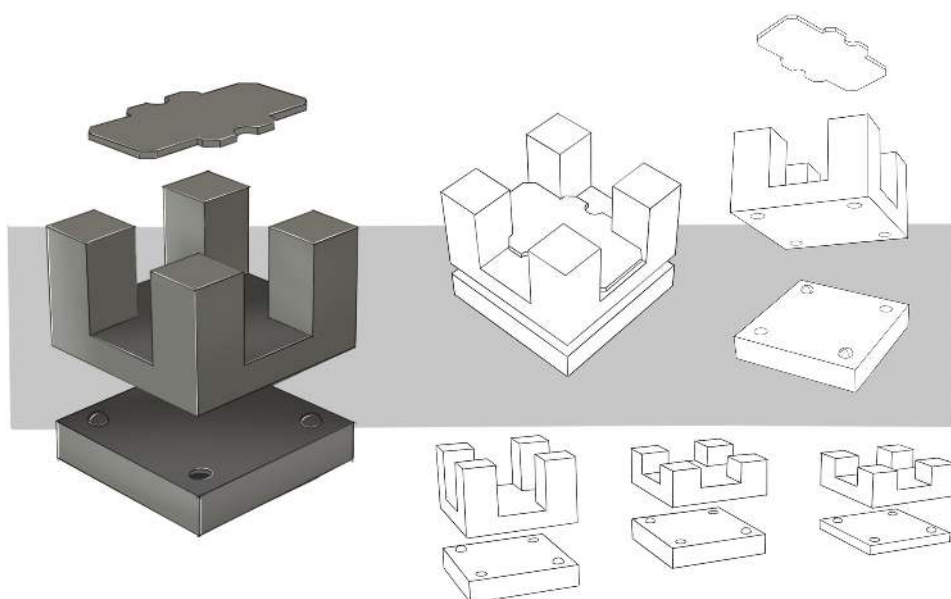


PermaFlex® Acoustic Cradles

Our **PermaFlex® Rubber Crumb Acoustic Cradles**, crafted from quality recycled tyre rubber, offer a sustainable solution for superior acoustic and sports flooring. Leveraging the strengths of materials made from post-consumer truck tyres, our cradles guarantee exceptional longevity and performance.

PermaFlex® Acoustic Cradles are designed to offer exceptional sound insulation and structural performance for a wide range of applications. Our cradles cater to the specific needs of architects, acoustic engineers, and quantity surveyors, ensuring optimal results in both residential and commercial projects.



"Powering the future with **sustainable solutions**"

VAN DYCK

Advantages of PermaFlex[®] Acoustic Cradles

Effortless Installation

- Quick and cost-effective to install.
- No fixing required – cradles are loosely positioned on the subfloor.

High Performance

- Meets and exceeds performance standards for airborne and impact sound insulation.
- Compliant with EN 14904, providing combined-elastic and area-elastic floors.
- Suitable for SR1 classification leveling.

Sustainable and Durable

- Manufactured using processes aimed at reducing environmental impact.
- Eliminates wet trades, reducing structural loadings and streamlining on-site processes.
- Maintenance-free and backed by a 60-year guarantee when installed according to manufacturer guidelines.

Versatility in Application

- Suitable for various floor finishes, including timber, laminate, and engineered wood.
- Accommodates underfloor heating systems, services, and insulation.
- Allows access to hatches and fittings for permanent sports equipment.

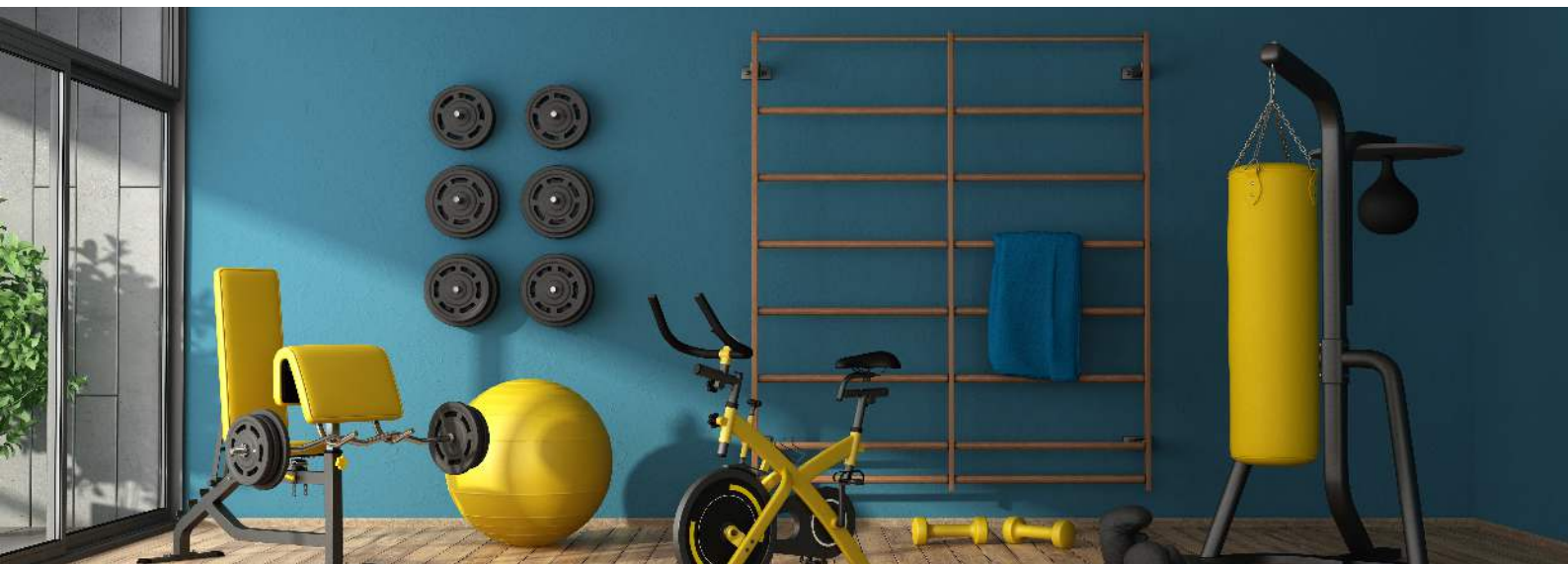
Technical Specifications

- Material: High-density recycled rubber and advanced polymers.
- Load Capacity: Supports high point loads.
- Acoustic Performance: Provides outstanding impact and airborne sound reduction.
- Dimensions: Available in multiple sizes for different floor heights and configurations.

Applications

PermaFlex[®] Acoustic Cradles are ideal for:

- | | |
|---|---|
| <ul style="list-style-type: none">• New builds, refurbishments, and conversions• Concrete and timber subfloors• Commercial installations• Schools, sports floors, and dance floors | <ul style="list-style-type: none">• Gyms and free weight areas• Underfloor heating systems• Outside decking• Access for services |
|---|---|



PermaFlex[®] Acoustic Cradles Components



40mm leg, 20mm
base Acoustic
Cradle



25mm leg, 20mm
base Acoustic
Cradle



25mm leg, 10mm
base Acoustic
Cradle



40mm leg, 20mm
base Sport Cradle



25mm leg, 20mm
base Sport Cradle



10mm base packer



30mm base packer



2mm & 5mm cradle
packer

Easy Levelling

The PermaFlex[®] Acoustic Cradles enable quick and simple levelling of uneven subfloors through the use of 2mm & 5mm cradle packers positioned within the cradle legs and below the battens. Additional levelling can be achieved using 10mm and 30mm cradle base packers.



Uneven Subfloor

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
Height	60mm	45mm	35mm	60mm	45mm	10mm	30mm	n/a	n/a
Compound	92% recycled tyre tread	92% recycled tyre tread	92% recycled tyre tread	91% recycled tyre tread	91% recycled tyre tread	91% recycled tyre tread	91% recycled tyre tread	recycled polypropylene	recycled polypropylene
Bonding Agent	Flexible Polyurethane	Flexible Polyurethane	Flexible Polyurethane	Flexible Polyurethane	Flexible Polyurethane	n/a	n/a	n/a	n/a
Colour	Black	Black	Black	Burgundy	Burgundy	Black	Black	Black	Black
Guarantee	60 years	60 years	60 years	60 years	60 years	n/a	n/a	n/a	n/a
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	21.60 kg	19.50 kg	22.50 kg	21.60 kg	17.82 kg	17.82 kg	2.8 kg	1.6 kg
Measured Improvement Of Impact Sound (ΔLw) 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	Low Classification / Radius of Effects of Ignition	Low Classification / Radius of Effects of Ignition	Low Classification / Radius of Effects of Ignition	Low Classification / Radius of Effects of Ignition	n/a	n/a	n/a	n/a
Odour	No Objectional Odour	No Objectional Odour	No Objectional Odour	No Objectional Odour	No Objectional Odour	No Objectional Odour	No Objectional Odour	No Objectional Odour	No Objectional Odour

All of the rubber crumb used in our PermaFlex[®] Acoustic Cradles is sourced from end-of-life radial truck tires, ensuring an environmentally responsible approach to material reuse. The rubber crumb undergoes rigorous testing for toxicology in accordance with EN 71-3:2019+A1:2021 standards and polycyclic aromatic hydrocarbon (PAH) testing in compliance with REACH Regulation Annex XVII Entry 50. Our final product is certified to Global GreenTag Level B, affirming its commitment to sustainability and safety.



The PermaFlex[®] Acoustic Cradles deliver exceptional performance in reducing both impact and airborne noise. Due to the inherent durability of rubber crumb, these cradles maintain their structural integrity and acoustic properties over time. This ensures that PermaFlex[®] Acoustic Cradles offer long-lasting and superior sound insulation, making them an ideal choice for projects requiring high acoustic standards.

