

## INSTALLATION INSTRUCTIONS

### Rubber Crumb Cradles for Acoustic and Sports Flooring

The Sonixx cradles are adaptive, eco-friendly and extensively used in new build, refurbishment and conversion projects. The versatile system provides quick and precise on-site levelling to achieve a wide range of finished floor heights.

The Sonixx cradles form an integral part of a cradle and batten system, which is suitable for both Commercial and Domestic applications on concrete and timber sub-floors.

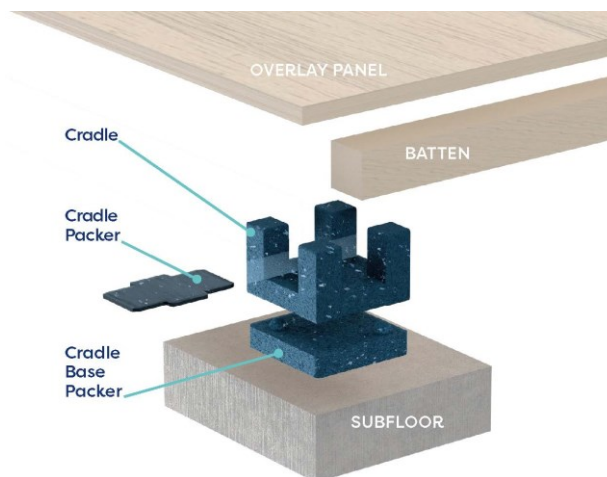
Manufactured using recycled rubber crumb. Backed by a 60 Year Guarantee  
Cradle Sizes: 40mm Leg, 20mm Base / 25mm Leg, 20mm Base  
/ 25mm Leg, 10mm Base (acoustic only)

#### SONIXX CRADLES

The Sonixx cradle provides outstanding performance in reducing both impact and airborne sound.

**As the Sonixx cradles are placed directly on the subfloor, no levelling screeds are required. This eliminates the need for wet trades, thereby significantly reducing preparation time and installation costs, as well as streamlining programming and on-site processes.**

Sonixx rubber crumb cradles offer rapid installation and exceptional, long-lasting acoustic performance. Manufactured using recycled rubber crumb (which does not deteriorate), the cradles can be overlaid with chipboard, plywood, cement particle board or hardwood to produce premier acoustic and sports floors, which can accommodate a diverse range of floor coverings.



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The following instructions are issued as an aid to the correct installation procedures. Individual site conditions may necessitate variances to these standard instructions. Such cases should be referred to the Interfloor Technical Department for approval. All installation and working practices should be in accordance with relevant Codes of Practice, current Standards and HSE Regulations applicable to the construction industry.

#### CRADLE SYSTEM COMPONENTS



#### SITE PREPARATION

- The building should be dry and weather tight.
- If a screed has been applied, it must be fully cured.
- Block and beam or concrete plank floors should be fully grouted at all joins and perimeters.
- All cradle components should be stored inside, under cover in dry conditions.
- The cradle components should be stored in the location where they are to be used at least 48 hours prior to installation.
- Adhesives should be stored within recommended temperature limits as defined by the manufacturer.
- The floor where the cradle components are being installed should be dry, reasonably smooth and free of debris.

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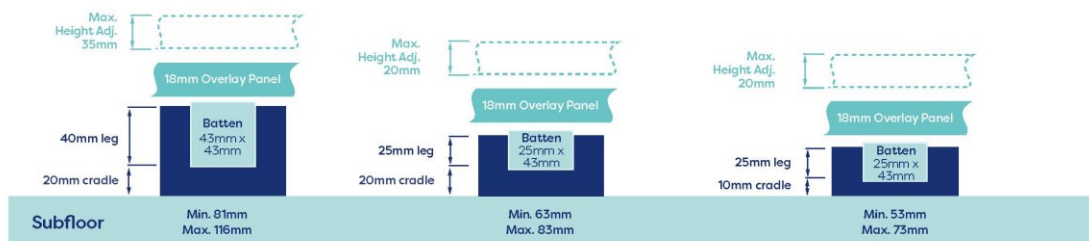
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#### RECOMMENDED EQUIPMENT

Laser Level	Tape Measure	Chalk String Line
Circular Saw	Jigsaw	Handsaw
Pencil	Utility Knife	Battery Drill

- Damp Proof Membrane:** On ground floor slabs and new concrete bases above ground floor, a damp proof membrane, such as a 1200 gauge polythene sheeting, is recommended. Joints should be lapped a minimum of 150mm, and should be taped and sealed with waterproof adhesive tape, with edges upturned to the same height as the overlay boards at all perimeter walls.
- Services:** Services should be installed between the battens prior to the flooring being fixed. Services at the perimeter must be kept a minimum of 150mm from the wall and should not be grouped wider than the available batten spacing. Where services penetrate through the floor, the hole should be larger than the service pipe. In order to minimise sound transmission, the gap between the service pipe and the hole should be sealed with an acoustic sealant.
- Cradle and Batten Spacings:** The table below indicates the recommended spacings and achievable finished floor heights. Increased floor heights can be easily achieved with the use of cradle base packers.

The versatility of the system allows for a wide range of finished floor heights to be achieved.



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BATTEN SIZE (mm) Width x Depth	CRADLE SPACINGS (mm)	BATTEN SPACINGS (mm)	OVERLAY PANEL (mm)	SYSTEM WEIGHT (Kg/m <sup>2</sup> )	FINISHED FLOOR HEIGHT (mm)
43 x 43	600	300	18 or 22	25	71 – 120
43 x 25	300	300	18 or 22	25	53 – 87
43 x 43	300	300	18 or 22	25	71 – 120
43 x 25	300	300	18 or 22	25	53 – 87
43 x 43	600	400	18 or 22	25	71 – 120
43 x 25	300	400	18 or 22	25	53 – 87
43 x 43	600	600	22	25	75 – 120
43 x 25	300	600	22	25	57 - 87

- 4. Installing the Sonixx Cradles:** The cradles and battens should be positioned in accordance with the spacings recommended in the table above. Start by measuring and marking out the perimeter batten round the edges of the room, leaving a 10mm gap between the wall and the cradle edge.

Next measure the batten centres starting from the furthest point from the doorway. Mark out every centre, e.g., every 400mm when the batten is spaced at 400mm centres. Do exactly the same at the opposite side of the room and, using the chalk string line, ping or mark between the opposing marked centres to create a chalk line matching where the battens will run.

Batten spacings may be adjusted to suit room sizes to minimise waste, provided the maximum batten spacings are not exceeded.

Measure out the required cradle spacings along the chalk line e.g., every 600mm when using the 43mm deep batten. Mark or ping a second chalk line at 90° to the first chalk line, to create a grid between the corresponding points.

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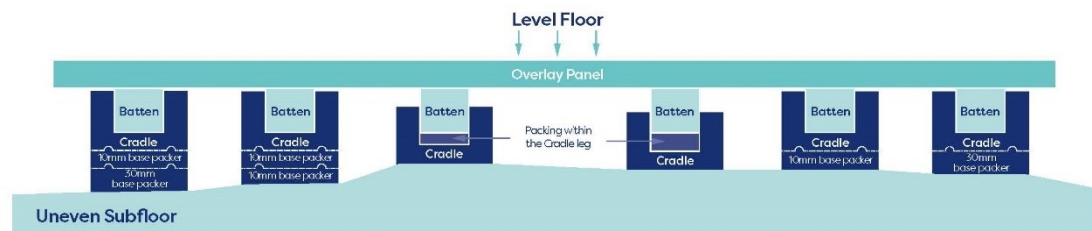
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Position the cradles around the perimeter on all of the marked points and at every chalk line intersection.

- 5. Easy Levelling:** The cradles enable quick and simple levelling of uneven subfloors through the use of 2mm and 5mm cradle packers positioned within the cradle legs and below the battens.

Using a laser level, establish the highest datum point of the floor. Starting at the highest point, work out the difference between every cradle and the datum point and record this on the floor next to every cradle.



Insert the required quantity and combination of 2mm and 5mm cradle packers into each cradle to achieve the required height. For example, 8mm = 4 x 2mm cradle packers; 13mm = 4 x 2mm cradle packers + 1 x 5mm cradle packer. Cradle packers can be used to level within 5mm of the top of the cradle; for example, in the 40mm leg cradle, a maximum of 35mm of levelling can be inserted.

Additional levelling can be achieved via 10mm and 30mm cradle base packers positioned below the cradles.

- 6. Laying the Battens:** Once the levelling within all of the cradles has been completed, the battens can be laid, starting at the perimeter and positioning the battens into the cradles. Then lay the battens along the original chalk lines, ensuring that they are laid in a staggered formation and that all battens join within a cradle.

Acoustic or thermal insulation quilt can be laid between the battens, if required.

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Underfloor heating can also be installed within the void, prior to the overlay panels being installed. For further information on this, please contact the Interfloor Technical Department or the underfloor heating manufacturer.

- 7. Overlay Panels:** Starting at the perimeter, apply a suitable adhesive to the top of the battens and lay the overlay panels at 90° to the battens, maintaining the 10mm gap at the perimeter. The panels should then be secured using countersunk wood screws. Screws along the panels at the perimeter edges should not exceed 600mm. Apply adhesive to the tongue and groove of the panels as they are laid. The panels should be installed in a brick/staggered pattern (150mm minimum stagger) across the entire floor.

The edges of the panels must finish on a batten or be supported with intermediate cradles and battens. Secure the panels with countersunk wood screws spaced at 300mm along the battens and 150mm from the long edge perimeter. Where short edges meet, these should be screwed down both sides of the join.

Expansion joints must be allowed when the floor exceeds 5m in length, such as in corridor areas. A 2mm gap should be allowed for each linear meter of flooring.

- 8. Flanking Strip:** The flanking strip should be installed in the 10mm gap at all perimeter edges. Once the skirting has been fitted, any excess flanking strip can be neatly removed using a utility knife.

### CERAMIC / PORCELAIN / NATURAL STONE TILES

The Sonixx cradles can be used below ceramic / porcelain / natural stone tiles. The system is comprised of 18mm or 22mm WBP Plywood, acoustic cradles at 300mm x 300mm spacings and battens at spacings of 300mm. The tiles must be bonded to the system using a flexible (S2) tile adhesive and then grouted with an approved flexible grout (preferably pre-mixed).

### HARDWOOD FLOORING

It is possible to install hardwood flooring directly onto the battens in lieu of the overlay panels. For further information please refer to the Interfloor Technical Department or the hardwood flooring manufacturer.

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#### ABNORMAL LOADING

If the Sonixx cradles are being subjected to abnormal loading, additional cradles may be required to provide extra support. Please contact the Interfloor Technical Department for further information.

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