

### Installation Instructions for the JCW Acoustic Level Pod Cradle System

Fast, easy installation with total flexibility

The following step by step instructions are issued as an aid to the correct installation of the system. Individual site conditions may necessitate variances to the standard instructions below. Such cases should be referred to John C Wilkins for advice. All installation and working practices should be in accordance with relevant Codes of Practice, current British Standards and Health and Safety Executive Regulations applicable to the construction industry.

#### 1. Site preparation

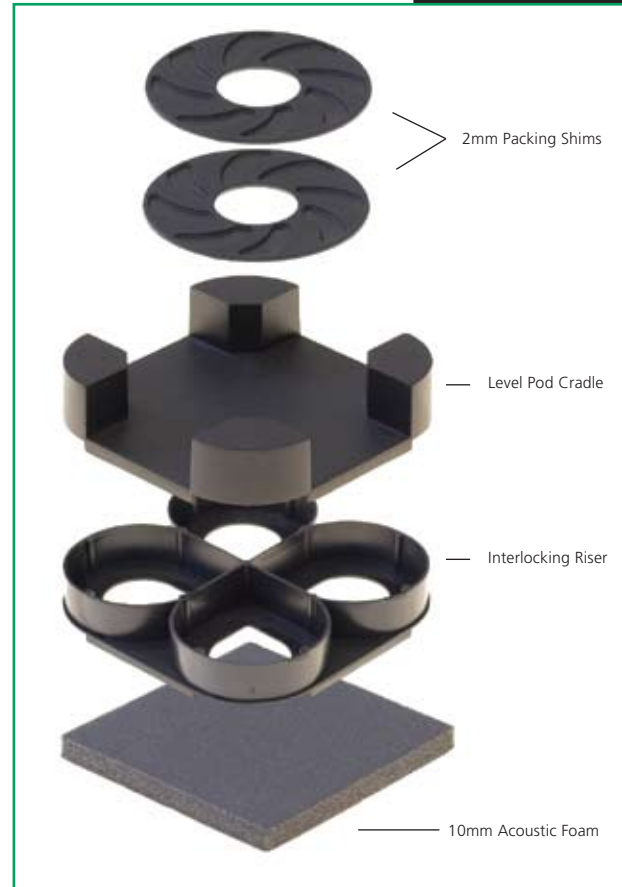
The concrete floor to receive the JCW Acoustic Level Pod Cradle System must have a hard, dry cured surface. The system has been designed as a quick and easy way to level cambered, stepped and uneven floors and to allow a vast range of void depths to be achieved. However, the floor must be reasonably smooth to accept the cradle. Tamped finishes are acceptable. The JCW Acoustic Level Pod Cradle System, if subjected to abnormal loading, may require the use of additional cradles. A damp proof membrane is recommended on ground floor slabs.

#### 2. Protection against damage

The JCW Acoustic Level Pod Cradle System should not be laid until the building is weather-tight, and all materials must be stored in a safe dry location prior to use. PVA adhesive should not be subjected to temperatures of less than 5°C.

#### 3. Membrane (if required)

A membrane, such as minimum 1200 gauge polythene sheeting, should be installed over all ground floor slabs and new concrete bases above ground level. 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 tongue and grooved overlay boards at all perimeter walls.



#### APPLICATIONS

- Offices
- Meeting Rooms
- Hotels
- Conference Centres
- Leisure Centres
- Schools
- Restaurants
- Showrooms



## Acoustic Level Pod Cradle System

Robust Details FFT-2 Resilient Cradle & Batten System.  
For floor types E-FC-1, E-FC-2, E-FC-7, E-FS-1 & E-FS-2



Corner detail



Cradle with through batten



Cradle with 2 risers and packing shims

### 4. Perimeter details

Chipboard/Plywood overlay boards, in common with any other wood based products, attract moisture, resulting in expansion or contraction when installed in a new building or a building undergoing renovation. We would therefore recommend that a minimum gap of 10mm is left at all perimeters and abutments.

The expansion gap is then filled with JCW Perimeter Edging Strip in excess of the total floor depth, and then trimmed as described under 'Fixing the skirting board in conjunction with JCW Perimeter Edging Strip' see Point 10. below

### 5. Fitting the JCW Perimeter Edging Strip

Fix the JCW Perimeter Edging Strip up against the perimeter walls

### 6. Cradle and Batten positioning

- i.) Place perimeter battens 50mm away from the wall
- ii.) Place cradles along perimeter battens at recommended centres, ensuring that the ends of the battens are always supported
- iii.) Place intermediate battens at recommended centres
- iv.) Place cradles at recommended centres along intermediate battens, ensuring batten ends are always supported

### 7. Levelling the floor

Place the 10mm Acoustic Foam Pad into the base of the cradle, then insert the 2mm packers into the cradle below the battens as appropriate to level the floor, working from the main datum point. Packers must be fully pushed home. No adhesive is required to hold the packers in position. The cradle will hold the packers in position once inserted. When packing under the junction of two or three battens, ensure that the packer is supporting all battens. Additional height adjustment can be obtained by stacking one cradle onto a 20mm riser as required.

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Final adjustment can be achieved by inserting the 2mm packers beneath the batten in the normal manner. Levelling requirements for each cradle, worked from the highest point on the floor, can be accurately achieved by using laser levelling equipment. This method will allow the 'packer requirements' for each cradle to be laid out prior to positioning the batten into the cradle.

### 8. Thermal or acoustic insulation

Thermal or Acoustic insulation, when required, should be laid between the battens. Acoustic insulation is recommended with concrete planks and beam and block floors, and will give an improved airborne noise performance from the system, and will take account of any inadequacies in the sealing and grouting of the subfloor.

### 9. Laying the chipboard or plywood T&G overlay board

Apply the PVA to the top of the battens and lay the board maintaining a minimum expansion gap of 10mm to the perimeter. All boards should also be glued with PVA on all tongued and grooved edges as laying proceeds. Tongued and grooved wood chipboard panels should be positioned with the long edges across the battens, the short edges being supported by the battens. Remove tongues and grooves from the chipboard panel edges to ensure that only square cut edges butt up to the JCW Perimeter Edging Strip. All boards must be laid in a staggered formation ensuring a minimum 150mm stagger. Boards must be fixed in accordance with BS 8201:1987, using screws at 300mm intervals along the batten.

### 10. Fixing the skirting board in conjunction with JCW Perimeter Edging Strip

The skirting board should be fitted directly on top of the JCW Perimeter Edging Strip and should be trapped between the underside of the skirting board and the top of the floor. Any surplus JCW Perimeter Edging Strip should then be trimmed off with a sharp knife after the skirting boards are fitted.



Cradle offers 4-way batten support



Ideal system for uneven subfloors



Perimeter edging strip and skirting detail

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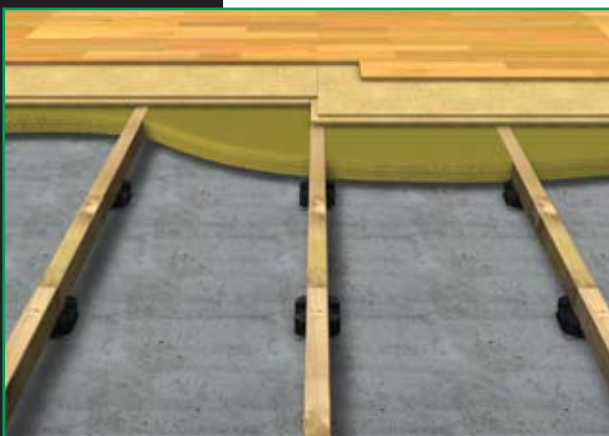
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Cradle with 3 risers and packing shims



Typical floor system configuration..



...also shown with optional acoustic quilt

### 11. Services

If there is insufficient room to run services beneath the battens, services may be accommodated by cutting the battens either side of the service. Support the cut batten leaving 10-15mm clearance from the services, with additional cradles supporting the cut battens as required. Never notch the battens.

Services running at the perimeter of the room must be a minimum of 100mm from the perimeter and should not be grouped any wider than the available space between the battens.

### 12 Ceramic tiles

The JCW Acoustic Level Pod Cradle System is suitable to receive ceramic tiles and consists of 18mm WBP plywood and cross bonded with 6mm plywood screw fixed at 150mm centres, cradles at 300mm centres and battens at 300mm centres, in conjunction with Norcros adhesive and grout (specification BAL-NBS M40) as tested by Norcros Adhesives Limited, and subject to their specification.

For further assistance please refer for help and technical advice to John C Wilkins Acoustic Supplies.

#### Note:

- i) Expansion joints may be required in long corridors. All wet trades must be completed and dry prior to starting the installation of all cradle and batten systems. Test Certification available on request.
- ii) All images shown are for illustration purposes only.

### Ancillaries

- JCW Waterproof PVA Adhesive
- JCW Acoustic Sealant
- JCW Perimeter Edging Strip
- JCW Acoustibond Tile Adhesive

**For further assistance, please refer to  
John C Wilkins Acoustic Supplies 01204 548400**

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