

## High Performance Acoustic Cradles with Floor Levelling System

### GENERAL PRODUCT SPECIFICATION

Recycled Rubber Crumb Acoustic Cradles for use in New Build, Refurbishment and Conversion Projects  
Suitable for both Commercial and Domestic applications on concrete and timber sub-floors

#### **SECTION 09820 – ACOUSTICAL INSULATION AND SEALANT**

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##### **PART 1 – GENERAL**

##### **1.1 SECTION INCLUDES**

- A. Acoustic Cradles for use as part of a floor levelling system in commercial and domestic applications.

##### **1.2 RELATED SECTIONS**

- A. Section 09640: Wood Flooring.
- B. Section 09650: Resilient Flooring.
- C. Section 09680: Carpet.
- D. Section 09800: Acoustical Treatment.
- E. Section 10270: Access Flooring.

##### **1.3 REFERENCES**

- A. ADE 2003 (Approved Document E) – Resistance to the passage of sound. Sound Regulations, England and Wales.
- B. UKAS - United Kingdom Accreditation Service.
- C.  $\Delta L_w$  – The measured improvement of impact sound insulation from the installation of a floor covering or floating floor on a test floor in a laboratory.
- D. IIC - Impact Insulation Class.

##### **1.4 SUBMITTALS**

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  - i. Preparation instructions and recommendations.
  - ii. Storage and handling requirements and recommendations.
  - iii. Installation methods.
- C. Selection Samples: Not Applicable.

##### **1.5 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: The manufacturer shall be a firm with a minimum of 2 years of successful experience in the manufacture of products with similar requirements.
- B. Installer Qualifications: The installer shall be a firm with a minimum of 2 years of successful experience in the installation of products with similar requirements.
- C. ISO 9001 and ISO 14001 Certification (InstaCradle Limited).  
Registered Numbers: GB05/64743 and GB07/72623.

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##### 1.6 DELIVERY, STORAGE & HANDLING

- A. Delivery: Deliver materials in manufacturer's unopened, original and undamaged packaging with identification labels.
- B. Storage: Store products in manufacturer's unopened packaging ready for installation.
- C. Handling: Handle products in accordance with manufacturer's recommendations.

##### 1.7 PROJECT CONDITIONS

- A. Spaces must be enclosed and maintained dry with normal humidity and temperature levels between 55 and 75 Degrees Fahrenheit (10 and 24 Degrees Celsius) for a minimum of 3 days before, during and 3 days after installation of the finished floor.
- B. Maintain environmental conditions (temperature, humidity and ventilation) within limits recommended by the manufacturer for optimum results.
- C. Do not install products under environmental conditions outside manufacturer's absolute limits.

#### **PART 2 – MANUFACTURER / PRODUCTS**

##### 2.1 MANUFACTURER

- A. Acceptable Manufacturers:
  - i. InstaFloor t/a InstaCoustic Limited; Insta House, Ivanhoe Road, Hogwood Business Park, Wokingham, Berkshire. RG40 4PZ. United Kingdom. Tel: +44 (0)1189 739 560, Fax: +44 (0)1189 739 547, Email: [sales@instafloor.co.uk](mailto:sales@instafloor.co.uk), Web: [www.instafloor.co.uk](http://www.instafloor.co.uk).
  - ii. InstaFloor SA (Pty) Limited; 5 Mallory Road, Hilton 3245. South Africa. Tel: +27 (0) 33 343 1360, Mob: +27 (0)83 631 6085, Email: [sales@instafloor.co.za](mailto:sales@instafloor.co.za), Web: [www.instafloor.co.za](http://www.instafloor.co.za).
- B. Substitutions: Not permitted.

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#### 2.2 ACOUSTIC CRADLES FOR USE AS PART OF A FLOOR LEVELLING SYSTEM IN COMMERCIAL AND DOMESTIC APPLICATIONS.

A. High Performance Acoustic Cradles: Suitable for use on concrete and timber sub-floors.

i. **Acoustic Cradle – 40mm Leg, 20mm Base**

- a. Base Thickness: 20mm.
- b. Leg Height: 40mm.
- c. Total Height: 60mm.
- d. Dimensions (l x w): 100mm x 100mm.
- e. Weight: 0.25kg.
- f. Box Weight: 22.50kg.
- g. Box Quantity: 90
- h. Colour and Appearance: Black rubber crumb.
- i. Measured Improvement of Impact Sound ( $\Delta L_w$ ): 28dB.
- j. Accessories:
  - Cradle Packers: 2mm and 5mm.
  - Base Packers: 10mm and 30mm.
  - Chipboard: 18mm or 22mm thick.
  - Plywood: 18mm or 22mm thick.
  - Timber Battens: 43mm x 43mm x 1.8m / 35mm x 43mm x 1.8m / 25mm x 43mm x 1.8m.
  - Resilient Flanking Strip.
  - Damp Proof Membrane.

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- ii. **Acoustic Cradle – 25mm Leg, 20mm Base**
- a. Base Thickness: 20mm.
  - b. Leg Height: 25mm.
  - c. Total Height: 45mm.
  - d. Dimensions (l x w): 100mm x 100mm.
  - e. Weight: 0.18kg.
  - f. Box Weight: 21.60kg.
  - g. Box Quantity: 120
  - h. Colour and Appearance: Black rubber crumb.
  - i. Measured Improvement of Impact Sound ( $\Delta L_w$ ): 28dB.
  - j. Accessories:
    - Cradle Packers: 2mm and 5mm.
    - Base Packers: 10mm and 30mm.
    - Chipboard: 18mm or 22mm thick.
    - Plywood: 18mm or 22mm thick.
    - Timber Battens: 43mm x 43mm x 1.8m / 35mm x 43mm x 1.8m / 25mm x 43mm x 1.8m.
    - Resilient Flanking Strip.
    - Damp Proof Membrane.
- iii. **Acoustic Cradle – 25mm Leg, 10mm Base**
- a. Base Thickness: 10mm.
  - b. Leg Height: 25mm.
  - c. Total Height: 35mm.
  - d. Dimensions (l x w): 100mm x 100mm.
  - e. Weight: 0.13kg.
  - f. Box Weight: 19.50kg.
  - g. Box Quantity: 150
  - h. Colour and Appearance: Black rubber crumb.
  - i. Measured Improvement of Impact Sound ( $\Delta L_w$ ): 28dB.
  - j. Accessories:
    - Cradle Packers: 2mm and 5mm.
    - Base Packers: 10mm and 30mm.
    - Chipboard: 18mm or 22mm thick.
    - Plywood: 18mm or 22mm thick.
    - Timber Battens: 43mm x 43mm x 1.8m / 35mm x 43mm x 1.8m / 25mm x 43mm x 1.8m.
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##### 2.3 SOURCE QUALITY

- A. Source Quality: Obtain Acoustic Cradles and Accessories from a single manufacturer.

#### **PART 3 - EXECUTION**

##### 3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect / Client of unsatisfactory preparation before proceeding.

##### 3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under project conditions.

##### 3.3 INSTALLATION / APPLICATION

- A. Install in accordance with manufacturer's instructions.

##### 3.4 PROTECTION

- A. Protect installed products until the completion of the project.
- B. Touch-up, repair or replace damaged products before substantial completion.

**END OF SECTION – 09820 ACOUSTIC INSUALTION AND SEALANT**

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