



BALL RELEASE FOR IMPACT RESISTANCE OF TILES-(BY MEASUREMENT OF COEFFICIENT OF RESTITUTE)-(BIS 13630 PART 14, ISO 10545-5)

Compliance with following International Standards:

EN ISO 10545-5, IS 13630 (Part-14)

Application:

The test is recommended for tiles to be used in floors where impact resistance is considered especially important. A coefficient of restitution with a value of 0.55 is considered sufficient for normal low-stress levels of use; higher values are required in cases where greater stress is anticipated.

Salient Features of the machine:

1. Auto calculation of COR (e)
2. Digital indicator with the back light facility
3. Inbuilt spirit level in the machine to level the machine
4. Supplied complete with the ONE NO. of 75 x 75 mm cube to cast the mould.
5. Weight. : 85 Kg Approx.



Construction Details:

- Testing apparatus consists of following parts & accessories.
- **A chrome plated steel ball with a diameter of (19 ± 0.05) mm**
- A device equipped with an electromagnet, and a guide tube to insure that the dropping steel ball falls on the center of the test sample, which is placed on a rigid support.
- An electronic device, that Measures the time interval between the first and the second impact when the ball falls on the surface of the test sample.
- An arrangement to hold the test unit by fixing the test specimen of size 75 mm x 75 mm on a concrete block.
- How the test is carried out?
- The sample is positioned horizontally on the instrument with the surface under the electromagnet so that when the ball is released from a height of 1 meter it hits it in

Corporate Office:

A-1301, BVR Ek, Opp. Hotel Inder Residency,
Near Gujarat College, Ellisbridge,
Ahmedabad-380 006.
Phone : (079) 6621 1234
Website : www.eieinstruments.com

Calibration Laboratory:

B-14, Zaveri Industrial Estate, Opp. Shyam Villa,
Singarva-Kathwada Road,
Kathwada, Ahmedabad-382 430.
Phone : (079) 6604 0660 • Fax : (079) 6604 0600
E-mail : info@eieinstruments.com

GST TIN No. : 24AABCE4018L1ZU
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the centre. The height of the rebound is measured, or, alternately, the interval of time between two successive rebounds. Any damage visible from the distance of 1 meter must be noted, but may be ignored in classifying tiles. The coefficient of restitution (e) is calculated using different formulas depending on the type of measurement selected (time or height).

Following certificates will be supplied along with the equipment

1. **Ball Diameter calibration complying with IEC/ISO 17025 standard**
2. **Falling Height Calibration complying with IEC/ISO 17025 standard**

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