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SHRINKAGE BAR MOULD AZA0794

The Shrinkage Bar Mould AZA0794 is a precision-engineered testing accessory used to determine the drying shrinkage characteristics of cement, mortar, and concrete. This test is critical for evaluating the dimensional stability of cementitious materials under controlled drying conditions.

The mould is designed to cast standard prismatic specimens, which are later measured using a length comparator to determine shrinkage over time. It is widely used in quality control laboratories, research facilities, and academic institutions.

Key Features

- Precision split mould design for easy specimen removal
- Standard specimen size for accurate and repeatable testing
- Stainless steel reference inserts for precise length measurement
- Heavy-duty machined base plate for level casting
- Durable construction with rust-resistant finish
- Compatible with standard length comparator systems

Applications

- Cement and mortar shrinkage testing
- Concrete mix design evaluation
- Construction material quality control
- Research & development laboratories
- Civil engineering academic studies





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Working Principle

The mould is used to cast a standard specimen whose length change over time is measured to determine shrinkage.

Procedure:

1. Apply release agent to the mould interior.
2. Fill with cement/mortar mix in layers and compact.
3. Level the surface and cover with a glass plate.
4. Store for 24 hours under controlled conditions.
5. Demould and place specimen in a controlled environment.
6. Measure length change at intervals (7, 14, 28 days).
7. Calculate shrinkage using a length comparator.

Standards & Compliance

- IS 4031 (Part 10) – Methods of Physical Tests for Hydraulic Cement (Drying Shrinkage)
- ASTM C490 – Standard Practice for Use of Shrinkage Molds

Advantages

- High dimensional accuracy for reliable results
- Robust construction for long-term use
- Ensures consistent specimen preparation
- Compatible with standard testing equipment
- Reduces variability in shrinkage measurements



TECHNICAL SPECIFICATION

Parameter	Specification
Model	AZA0794
Internal Dimensions	25 mm × 25 mm × 285 mm
Material	Mild Steel / Gunmetal
Reference Points	Stainless steel inserts at both ends
Base Plate	Machined mild steel
Surface Finish	Ground, rust-protected coating
Standards Compliance	IS 4031 (Part 10), ASTM C490
Application	Drying Shrinkage Testing

Standard Supply

- Shrinkage Bar Split Mould
- Base Plate
- Integrated Reference Inserts