# Drying Shrinkage Test Set

LT-A0048/AS and LT-A0048/DS | Length change in prism specimens

Analog or digital indicator • Three-gang mould • Reference rod




**50 × 50 × 200 mm**

PRISM SPECIMEN DIMENSIONS

**0.001 mm**

DIGITAL INDICATOR RESOLUTION

EN 1367-4 • Aggregate influence on concrete drying shrinkage

# Photograph and Length Measuring Components

Digital comparator frame and measuring contact points

The set evaluates aggregate influence on concrete drying shrinkage by measuring prism length changes. The photograph shows the digital comparator frame; the analog version uses the same basic length comparison principle.

**DIGITAL INDICATOR**

LT-G8009: 12.7 mm measuring range and 0.001 mm resolution. Provides length-change readings.

**UPPER CONTACT**

The indicator tip contacts the specimen end insert or reference rod. Keep the contact surfaces clean.



**COMPARATOR FRAME**

The rigid frame and columns support the measuring arrangement. Position specimens consistently between the contacts.

**LOWER CONTACT**

The lower contact supports the specimen. Maintain consistent placement for reference and specimen readings.



**Digital indicator and upper contact detail**

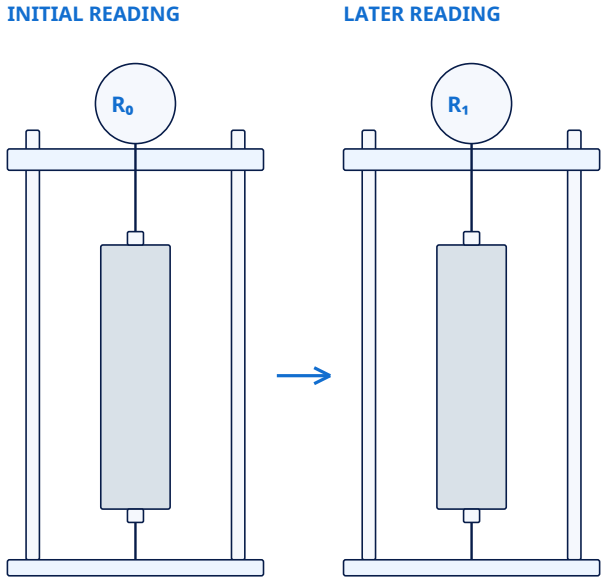


**Lower contact and base detail**

# From Initial Reading to Drying Shrinkage

Check reference • Take initial readings • Condition and measure again

**INITIAL AND SUBSEQUENT COMPARATOR READINGS**




**COMPARISON WITH REFERENCE CHECKS**

**PRISM: 50 × 50 × 200 mm**

**RESULT: LENGTH CHANGE AND DRYING SHRINKAGE**

**OPERATING PRINCIPLE • REPRESENTATIVE PRISMS • NOT TO SCALE**

### Prepare Reference and Specimen

Check the setup with the 205 mm reference rod. Prepare and cure specimens according to the selected method.

### Take Initial Length Readings

Seat the prism inserts between the contacts. Record initial and reference readings with specimen identity.

### Dry and Measure Again

Apply the method's drying conditions. Check the reference again and evaluate length change from later readings.

The comparator allows length readings at different conditioning stages to be compared. Determine length change while accounting for reference checks; evaluate shrinkage using the length definition and calculation specified by the selected method.

## Specimen and Reference Checks

The three-gang mould prepares 50 × 50 × 200 mm prisms. Steel end inserts provide repeatable contact points. The reference rod supports comparison between measuring series.

Keep contact surfaces clean and position each specimen in the same orientation. Match specimen, reference and frame temperature conditions to the method. Retain reference readings in the test record.

## Evaluation with EN 1367-4

EN 1367-4 is a test method for determining aggregate influence on concrete drying shrinkage. Apply its mix preparation, curing, drying and measurement requirements.

The analog indicator resolution is 0.01 mm; digital resolution is 0.001 mm. Resolution does not represent apparatus accuracy. Record the model, specimen identity and conditioning details with the result.

# Models and Set Components

Analog and digital options • 50 × 50 × 200 mm prism arrangement

| Set Code | Model | Indicator: Range / Resolution |
|---|---|---|
| **LT-A0048/AS** | Analog Shrinkage Set | 10 mm / 0.01 mm |
| **LT-A0048/DS** | Digital Shrinkage Set | 12.7 mm / 0.001 mm |

| Component Code | Technical Information |
|---|---|
| **LT-A0048** | Length comparator; 180 × 180 × 450 mm; 6 kg |
| **LT-A0050** | Three-gang mould; 50 × 50 × 200 mm prisms |
| **LT-A0050/1** | Steel inserts; pack of 10 |
| **LT-A0051** | Reference rod; 205 mm |
| **LT-G8000** | Analog indicator; 10 mm range; 0.01 mm resolution |
| **LT-G8009** | Digital indicator; 12.7 mm range; 0.001 mm resolution |

## Reference Readings and Conditioning

Check the reference in each measuring series. Match placement, temperature and drying conditions to the method. Evaluate length change together with reference checks.

## From Prisms to Drying Shrinkage Results

**01**
**Prepare**
Cast prisms with inserts and apply curing.

**02**
**Initial Read**
Check the reference and take initial readings.

**03**
**Condition**
Apply the method's drying conditions.

**04**
**Compare**
Measure again and calculate shrinkage.

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