

**E083**

**Plunger penetration apparatus**

CONSISTENCY OF MASONRY CEMENT AND BUILDING LIMES

STANDARDS: EN 413-2, 459-2, 1015-4  
DIN 4211

Used to determine the consistency of fresh mortar, lime and masonry cement.

The base is foreseen of a device to locate the test cup.

The height of the drop can be accurately adjusted to 100 mm.

Supplied complete with test cup and tamper, both anodized aluminium made

Dimensions: 200x200x700 mm  
Weight: 8 kg



E083

**E081**

**Mortar workability apparatus**

STANDARDS: EN 413-2 / NF P18-452

Designed to test concrete mortar for dynamic workability and also to ensure optimum proportioning of mortar constituents (sand, water, cement, as well as cement/sand and water/cement ratios) compatible with given application. Suitable also for checking possible improvement when admixing a plastifier, or for comparing two mortar types. The unit consists of a prismatic receiver divided into two unequal volumes by a removable partition, and by an electric vibrator. The fresh mortar is poured in the large volume place, the separating partition is removed and the vibrator starts automatically. As a result of vibrations, mortar flows from the large volume to the small one, in a time which is a function of the workability of the mortar. Power supply: 230V 1ph 50 Hz 110W

Dimensions: 400x200x200 mm

Weight: 18 kg



E081

**E082-01**

**Water retention**

STANDARDS: EN 413-2

Brass chromed mould having dia. 100 mm by 25 mm deep, it is used for determining the water retention of masonry cements.

Weight: 300 g approx



E082-01

**Methods of test for mortar for masonry**

**E082-11**

**CIRCULAR TEST CONTAINER**

STANDARD: EN 1015-19

Used to determine the water vapour permeability of hardened rendering and plastering mortars.

Manufactured from PVC material, resistant to corrosion, it has an opening of approx. 0,02 sq.mt., on which the test sample is sealed

Dimensions: dia. 240 mm by 60 mm

Weight: kg approx.



E082-11

**E081-10**

**Steam Bath**

SOUNDNESS OF BUILDING LIME DETERMINATION

STANDARD: EN 459-2

This bath is used for the determination of the soundness of building limes subjected to steam action at atmospheric pressure for 180 minutes time.

The steam bath, all stainless steel made, holds up to 12 Le Chatelier moulds, approx. 50 mm over the water level.

Two heating elements of 1200W and 200W reach the water boiling point in 30 minutes; now a timer disconnects the 1200W element, and the water temperature is maintained by the second element, as requested by the Standard.

The cover has a device avoiding the condensed water to drop on the specimens.

Power supply: 230V 1ph 50/60Hz 1400W

External dimensions: 455x215x350 mm

Inner dimensions: 300x150x260 mm

Weight: 9 kg approx.

ACCESSORIES:

**E066** LE CHATELIER MOULD Technical details : see pag. 322

**E066-01** GLASS PLATE, 50x50 mm. Pack of 2 pieces.

**E066-02** WEIGHT, 100 g.

**E066-03** EXTENSIBILITY of mould apparatus.

**E066-04** TAMPING ROD, 17 mm dia x 70 g weight.



E081-10

