

Testing of hardened concrete Hydraulic shrinkage determination

To measure the axial and/or superficial dimensional shrinkage of concrete specimens during hardening process in a curing room.

STANDARDS: UNI 11307:2008 / UNI 6555
(comparable to ASTM C426)

The specimen is prepared by a mould having dimensions 100x100x500 mm, with aggregates up to 30 mm max. diameter, and after housed in the measuring apparatus that determines the axial shrinkage.

The two UNI Standards require two different systems to prepare the specimen:

- The UNI 11307 requires reference pins to be stuck on the specimen.
- The UNI 6555 requires inserts fixed into the mould and let into the specimen.

EQUIPMENT TO UNI 11307:2008 Specification:

C254-01

Beam mould, steel made, to prepare a concrete specimen 100x100x500 mm. Weight: 23 kg

C366-12

Reference pin, to be stuck in the intersection of the longitudinal axis of the specimen with its bases. Pack of 10

EQUIPMENT TO UNI 6555 (comparable to ASTM C426):

C365

Shrinkage mould, steel made, complete with inserts, to prepare a concrete beam specimen 100x100x500 mm. Weight: 23 kg

C366-11

INSERTS, stainless steel, spares to C365 mould. Pack of 10



"needed" ACCESSORIES, conforming to: UNI 11307:2008 and UNI 6555

C364

Measuring apparatus, for 100x100x500 specimens, complete with reference bar, but "without" dial gauge to be ordered separately. Weight: 23 kg

S375

DIAL GAUGE, 5 mm stroke by 0,001 mm sens.
AS AN ALTERNATIVE:

S376

DIAL GAUGE, 10 mm stroke by 0,01 mm sens.
AS AN ALTERNATIVE:

S382-01

DIGITAL GAUGE indicator, with readings in mm (sens. 0,001 mm) and in inch (sens. 0,0001"), battery feeded.
Complete with battery and RS232 connector to PC.

S382-11 CABLE to connect the digital gauge to PC.

S382-10 USB adaptor for S382-11 cable.



Determination of restrained expansion of a concrete or mortar specimen containing the expansive agent, and the effect of the aggregates on the drying shrinkage of concrete.

The mould, steel made, is supplied complete with 3 screwed rods and 6 restrained end plates.

MODELS:

E114

THREE GANG PRISM MOULD, to produce 80x80x240 mm specimens.
STANDARD: UNI 8148 . Weight: 15 kg

E114-02 Restrained end plate 80x80 mm; spare to E114 mould.

E115

THREE GANG PRISM MOULD, to produce 50x50x250 mm specimens.
STANDARD: UNI 8147. Weight: 10 kg

E115-02 Restrained end plate 50x50 mm; spare to E115 mould.

E115-01 Steel screwed rod 280 mm long; spare to E114 and E115 moulds.



ACCESSORIES:

E077 KIT LENGTH COMPARATOR, with analogic dial to measure linear variations. Technical details: see pag. 291

AS AN ALTERNATIVE:

E078 KIT

LENGTH COMPARATOR, with digital dial to measure linear variations. Technical details: see pag. 291

E078-05 REFERENCE ROD, 280 mm long

