

### J Ring Apparatus

Make: LabTek

Model: SUN-CT-012

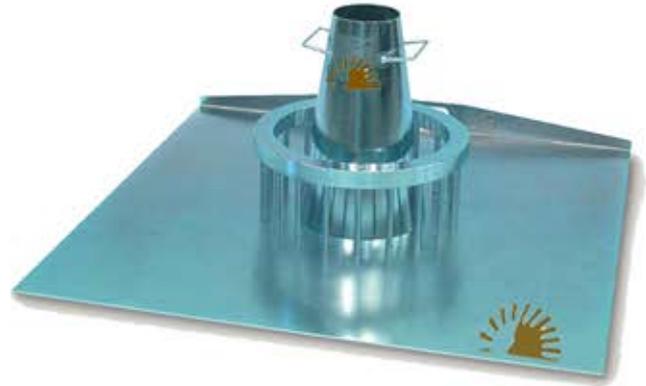
Origin: India

Standards: ASTM C1621, ASTM C1621M, ASTM C1611

General Properties:

The J-ring test can be used to determine the passing ability of self-consolidating concrete. It is applicable for laboratory use in testing different concrete mixtures for passing ability or can be used in the field as a quality control test. It is typical to also perform a slump flow test with the J-ring test. This test is similar to the J-ring except the J-ring is not used. The difference between the results of the two tests provides an indicator of the passing ability of the concrete. Designed for durability, J-ring set includes a slump cone, J-ring with smooth or rebar rods and steel base plate with engraved positioning rings.

The J-Ring test is used for determining the passing ability, the flow spread and the flow time of self compacting concrete as the concrete flows through the JRing apparatus. The J-Ring narrow gap with  $\varnothing 18$  mm x 16 smooth bars is manufactured from stainless steel. The Slump Cone is made from sheet steel protected against corrosion, with diameters; top 100 mm, base 200 mm and with a height of 300 mm. The Base plate is 900x900x3 mm square, made of stainless steel with engraved circles of 200 mm and 500 mm diameter conforming to EN 12350- 8. The Steel weighted collar is used to stabilize the slump cone on J-Ring or slump flow tests. Minimum apparatus for the J-Ring test are J-Ring with narrow gap and slump cone.



Accessories for U Box Test

U box of a stiff non absorbing material

Scoop

Trowel

Stopwatch

### U Shape Box Apparatus

Make: LabTek

Model: SUN-CT-013

Origin: India

Standards: UNI 11044; Rilem report No. 23

The U Shape box apparatus is used to determine the filling and passing ability of self-compacting concrete (SCC). The U box is made of stainless steel consisting of three 12 mm dia. Rebars. The U box is mounted on a frame with a fixing mechanism.

Reinforcing bar with nominal diameter of 134 mm are installed at the gate with centre to centre spacing of 50 mm. this create a clear spacing of 35 mm between bars.

The left hand section is filled with about 20 liter of concrete then the gate is lifted and the concrete flows upwards into the other section. The height of the concrete in both sections is measured.



Wheel Barrow



Round scoops



Mixing trays



Trowels



Rubber mallet



Mixing Bowls