Testing fresh SELF COMPACTING CONCRETE (S C C)

ERMCO/EFNARC European Guidelines.

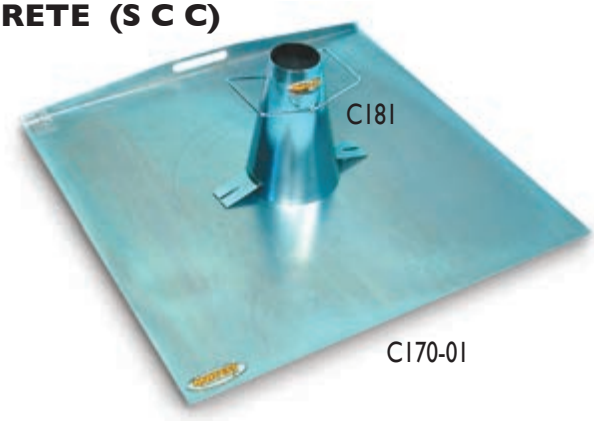
Free Flow and Time Flow determination. "Spray-Test"

STANDARDS: **EN 12350-8** / SCC / ERMCO-EFNARC
UNI 11041 / RILEM report N. 23

To evaluate the deformability of fresh concrete through free flow, and the time needed to spread a 500 mm diameter.
Applicable to concrete with aggregates of 25 mm max. size

C181 SLUMP CONE, galvanized steel, to EN 12350-2 Spec.

C170-01 PLATE, galvanized steel made, dimensions 905 x 905 mm, with engraved two circles having 210 and 500 mm diameter and central X cross.



Flow time determination. " V-funnel test "

STANDARDS: **EN 12350-9** / SCC / ERMCO-EFNARC
RILEM report N. 23 / comparable to UNI 11042

To evaluate the segregation resistance of self-compacting freshly mixed concrete through the flowing speed from a funnel.
Applicable to concrete with aggregates of 25 mm max. size.

C171
V-FUNNEL, **"stainless steel"** made, stand mounted. The upper edge of the funnel is smooth and reinforced, and the outflow orifice is equipped of an openable seal valve.
Dimensions: 640 x 340 x 1050 mm. Weight : 20 kg approx.

V127 BOX, polythene made, to collect the concrete.

C171-11 Filling hopper stainless steel made, to pour the concrete into the funnel in one operation, as specified by the Standard.

C262 Straight edge, 460 mm, to level the concrete.

Confined flowability determination. "L-Shape box"

STANDARDS: **EN 12350-10** / SCC / ERMCO-EFNARC
RILEM report N. 23 / comparable to UNI 11043

To determine the confined flowability of self-compacting freshly mixed concrete, and to evaluate the filling and passing ability and segregation resistance.
Applicable to concrete with aggregates of 25 mm max. size.

C172
L-BOX, **"stainless steel"** made, consisting of:
- container with inside rigid surfaces,
- obstacle of two different interchangeable set of grids:
- one set of 3 vertical bars having dia. 12 mm and free light of 41 mm
- one set of 2 vertical bars having dia. 12 mm and free light of 59 mm
- gate in guillotine form

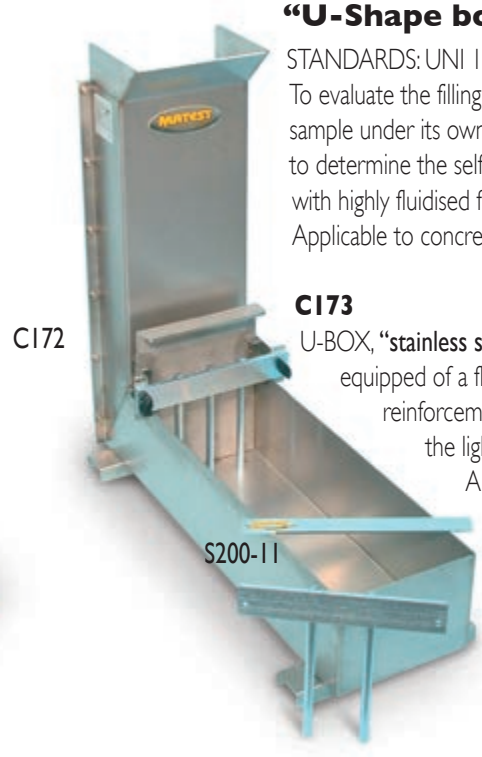
Dimensions: 712 x 280 x 682 mm
Weight : 40 kg approx.

S200-11 STRAIGHT EDGE, 300 mm long, galvanized steel, to level the concrete.

Confined flowability determination. "U-Shape box"

STANDARDS: UNI 11044 / RILEM report N. 23

To evaluate the filling speed and height of the concrete sample under its own self-weight, in the U-shape filling box, to determine the self-compactability. The test is performed with highly fluidised fresh concrete with superplasticiser.
Applicable to concrete with aggregates of 25 mm max. size.



C173
U-BOX, **"stainless steel"** made, with inside smooth walls, equipped of a flow obstacle formed by four vertical reinforcement bars. The bars have dia. 10 mm and the light between them is 35 mm.
A gate in guillotine form splits the vertical portion of the box from the horizontal one.
Dimensions: 480 x 250 x 680 mm
Weight : 20 kg approx.

S200-11
STRAIGHT EDGE, 300 mm long, galvanized steel, to level the concrete.