Concrete Vebe Consistometer

LT-C0042/E / LT-C0042/A | Vebe consistency testing

Stiff concrete • Transparent disc • Vibrating table



Vebe time

TEST RESULT IN SECONDS

63 mm

MAXIMUM AGGREGATE FOR EN METHOD

TS EN 12350-3 • ASTM C1170 / C1176 • 220 V, 50-60 Hz, single phase

Photographs and Components

Cylindrical container, disc and rod assembly, vibrating table and accessories

The Vebe consistometer measures remoulding time for stiff fresh concrete with low slump. A transparent disc allows the operator to observe the concrete surface during vibration and identify the test end point.

CONTAINER AND TABLE

The cylindrical container holds the specimen. The vibrating table causes the concrete to remould.

DISC AND ROD

The graduated rod and transparent disc help position the assembly and observe surface contact.



VIBRATION BODY

The table, supporting body and container retention work together. Check connections before the test.

SPECIMEN PREPARATION

The slump cone and tamping rod are used to prepare concrete according to the selected method.



Container and disc assembly

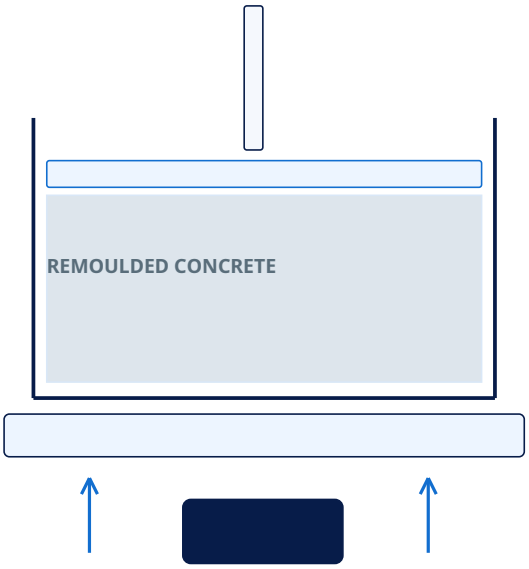


Slump cone and tamping rod

Operating Principle and Vebe Time

Prepare specimen • Lift cone • Start vibration and timing • Observe contact

CONCRETE REMOULDING • SCHEMATIC SECTION



Prepare the Specimen

Secure the container. Fill and tamp concrete in the cone to the method; lift the cone vertically.

Vibration and Timing

Lower the disc onto the concrete. Start the vibrating table and timing simultaneously.

Observe the End Point

Stop timing when concrete fully contacts the underside of the disc. Record Vebe time in seconds.

The Vebe result is a time measurement. Record specimen identification, the model, method and elapsed time together. Keep preparation and end point assessment consistent when comparing specimens.

Method and Model Selection

The range is offered as LT-C0042/E and LT-C0042/A. The technical table identifies the main set as LT-C0042 and lists components under separate codes.

EN 12350-3 defines Vebe consistency testing. For ASTM C1170 and C1176 applications, follow each standard's own preparation and test arrangement; do not substitute one procedure for another.

Operation and Test Records

Keep the container and disc clean. Follow the sequence consistently after preparing the specimen; avoid disturbing concrete when lifting the cone.

The maximum aggregate size for the EN method is 63 mm. Assess method applicability for very short or long times. Record the result with the method and observations; clean contact surfaces after testing.

Specifications and Test Set

LT-C0042 series • Main set, separately coded components and test references

Product Code	Set / Component	Size (cm)	Weight (kg)
LT-C0042	Vebe test set	26 × 38 × 71	90
LT-C0042/1	Vibrating consistometer	26 × 38 × 71	77
LT-C0042/2	Cylindrical container	Ø24 × 20	7.5
LT-C0042/3	Disc and graduated rod	Ø23 × 1	2.75
LT-C0038/1	Slump cone	10 × 20 × 30	2
LT-G0162	Tamping rod	Ø1.6 × 60	0.95

Test / Operating Feature	Value / Description
Test References	TS EN 12350-3; ASTM C1170 / C1176
Main Set and Table Supply	220 V, 50-60 Hz, single phase
Measured Result	Vebe time, seconds (s)
EN Method Aggregate Size	Maximum 63 mm

Timing and Method Consistency

Start vibration and timing together. Assess the end point according to the selected method; record specimen identification and test conditions with the result.

Vebe Test Workflow

01
Prepare
Secure container; fill and tamp the cone.

02
Position Disc
Lift the cone and lower the disc.

03
Measure Time
Start vibration; observe full surface contact.

04
Record and Clean
Record time in seconds and clean the set.

Product Page | liyatest.com.tr/en/urun/vebe-consistometer/