

VEE BEE CONSISTOMETER

BE 67

The Vee Bee Consistometer (also known as the Vebe Consistometer or Vee-Bee test apparatus) is a laboratory device used in civil engineering to measure the workability of freshly mixed concrete, particularly for stiff or dry mixes where traditional slump tests are less effective. Workability refers to the ease with which concrete can be mixed, placed, compacted, and finished without segregation. The test quantifies the remolding effort required to change the concrete's shape from a slump cone form to a cylindrical one under vibration, providing insights into the concrete's mobility and compactibility.

This test is especially useful for concrete with low water-cement ratios or high aggregate content, where slump values are too low (typically below 50 mm) for accurate slump cone measurements.

FOLLOWING STANDARD

IS 10510, IS 1199, BS 1881(Part104), AASHTO T126

The standard Vee Bee Consistometer consists of the following components:-

DISCRIPTION

MODEL	PARTS NAME	DETAIL
BE 67-01	Vibrating table	A flat platform (380 mm length × 260 mm width) mounted on elastic rubber supports at a height of about 305 mm above the base, powered by an electric vibrator to simulate compaction.
BE 67-02	Cylindrical container	Transparent acrylic or plastic tube (205 mm height × 100 mm diameter) to hold the concrete sample.
BE 67-03	Slump cone	Standard metal cone (100 mm top diameter × 200 mm bottom diameter × 300 mm height) filled with concrete.
BE 67-04	Transparent disc and rod	A clear plastic disc (155 mm diameter) attached to a graduated rod for observing and measuring the remolding process.
BE 67-05	Base	Rigid horizontal platform with rubber shock absorbers to minimize external vibrations. The entire setup rests on a stable base free from shocks, ensuring accurate results.

