

L-BOX TEST

BE 72

The L-Box Test is a standardized method used to evaluate the workability and passing ability of self-compacting concrete (SCC), also known as self-consolidating concrete. SCC is a highly flowable type of concrete designed to fill formwork under its own weight without the need for vibration, making it ideal for complex structures with dense reinforcement. This test specifically assesses how well the concrete can flow through tight spaces and obstructions (like reinforcement bars) without segregating or blocking.

FOLLOWING STANDARD

BS EN 12350-10

THE L-BOX APPARATUS CONSISTS OF:-

- A vertical rectangular reservoir (typically 600 mm high × 200 mm wide × 200 mm deep) to hold the concrete sample.
- A horizontal trough (typically 600 mm long × 200 mm wide × 150 mm deep) extending at a right angle, forming an "L" shape.
- A sliding gate separating the vertical and horizontal sections.
- Vertical reinforcement bars (usually 3 bars, 16 mm diameter, spaced 38 mm apart) welded to the gate to simulate obstacles.
- Overall dimensions: Approximately 800 mm × 600 mm × 900 mm.



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