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Product Name :

U Shape Box Apparatus

Product Code :

SLE/CE/15



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Description :

U Shape Box Apparatus (Product Code: SLE/CE/15) is a two-section stainless steel box used to determine the filling and passing ability of self-compacting concrete (SCC) in civil engineering and concrete technology laboratories. About 20 litres of concrete placed in one section flows up through a gate fitted with three 12 mm rebars into the other, and the concrete heights in both sections are then measured. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**,an OEM scientific laboratory apparatus and engineering lab equipment manufacturer in India, atits own factory in Ambala.

Specifications

Parameter	Detail
Test	Filling and passing ability of self-compacting concrete
Box material	Stainless steel (a stiff, non-absorbing material)
Mounting	On a frame with a fixing mechanism
Gate reinforcement	Three 12 mm diameter rebars, listed at 50 mm centre-to-centrewith 35 mm clear spacing (confirm the exact gate configurationwhen ordering)
Concrete per test	About 20 litres, filled into the left-hand section
Measurement	Height of concrete in both sections after the gate is lifted
Other equipment for the test	Scoop, trowel and stopwatch
Product code	SLE/CE/15
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the U-Box Test Used For?

Self-compacting concrete has to fill every corner of the formwork and pass between bars under nothing but its own weight. The U-box checks both properties at once. The left-hand section is filled with about 20 litres of fresh concrete using the scoop and trowel, the gate is lifted, and the concrete flows through the rebars and rises into the right-hand section.

Once the flow stops, the concrete height in each section is measured; the closer the two heights, the better the mix fills and passes. The stopwatch lets the lab note how quickly the concrete moves. Dampen the inside of the box before each test, set the frame on firm, level ground, and wash the box out before the concrete sets.

OEM Manufacturer

ScienceLab, the trading name of Jain Scientific Equipments Private Limited, is the OEM (original equip d at the c suppl nd impor