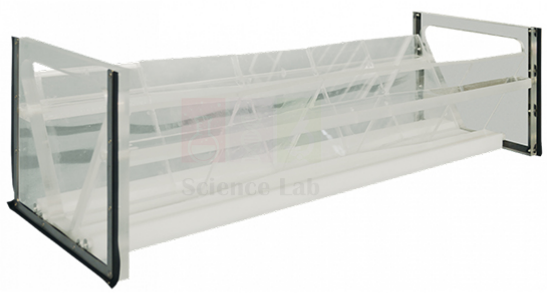
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Product Name :

Trapezoidal Flume

Product Code :

SLE/EFM/14



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Description :

Trapezoidal Flume (Product Code: SLE/EFM/14) is a clear acrylic flow-measuring flume with a 60° trapezoidal profile, intended for measuring discharge in an open channel with particular emphasis on low-flow situations. Because the body is transparent, students can watch the water surface change as it passes through the section rather than simply reading a number. It suits hydraulics and irrigation engineering teaching, and is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, an engineering lab equipment manufacturer whose engineering educational equipment is used in colleges across India.

Specifications

Parameter	Detail
Type	Trapezoidal flow-measuring flume
Material	Clear acrylic
Profile	60° trapezoidal section
Purpose	Measurement of flows, with emphasis on low-flow situations
Installation	Channel mounting details confirmed on enquiry

Typical Use

Measuring flumes work by narrowing the channel so the flow passes through critical depth; once that happens, a single upstream depth reading can be related to discharge. A trapezoidal section keeps useful sensitivity when only a little water is flowing, which is why this flume is chosen for low-flow gauging exercises such as small streams, irrigation furrows and drainage outlets. In the lab, students set a series of flow rates, read the upstream water level for each, and build a depth–discharge rating curve that they compare with the flow measured independently.

Seal the flume carefully in its channel so no water bypasses the section, level it before taking readings, and allow the flow to settle after each change. Clean acrylic with water and a soft cloth only, as solvents can craze clear plastics. Beyond routine practicals, the flume also serves as lab equipment for research in India on small-channel flow measurement.

Manufacturer

The flume is produced in Ambala, Haryana, by **Jain Scientific Equipments Private Limited**. ScienceLab is the company's trading name for its educational and laboratory equipment, including open-channel hydraulics apparatus. Our company profile has more about who we are.

Related Fluid Mechanics Equipment

Open-channel items commonly used in the same hydraulics practical sequence:

- Meter Flume — a laboratory channel with recirculating supply; ask us to confirm fitting
- Culvert — clear culvert models for open and orifice flow studies
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View