AGGREGATE

Sample Splitter (Riffle Box)

The Sample Splitter (Riffle Box) is a precision laboratory apparatus engineered to divide bulk materials—such as aggregates, soils, sands, and gravels—into two statistically representative and equivalent subsamples for analytical testing. This process preserves the particle size distribution and compositional characteristics of the original specimen, ensuring accuracy, repeatability, and test reliability.

The unit operates through a fixed array of alternately oriented chutes that direct the material into separate receiving pans, thereby producing two equal fractions. The splitter is designed with an even number of uniformly dimensioned chutes, with a minimum of eight chutes specified for coarse aggregates and twelve for fine aggregates in accordance with international testing standards. Chute width is typically set at approximately 1.5 times the nominal maximum particle size to prevent bridging, minimize segregation, and ensure uninterrupted material flow without sample loss or cross-contamination.

Fabricated from heavy-duty, powder-coated enameled steel, the splitter offers high mechanical durability and corrosion resistance suitable for laboratory environments. The instrument is supplied complete with three collection pans, enabling immediate operational deployment.

The Sample Splitter conforms to multiple internationally recognized standards, verifying its suitability for standardized material preparation procedures in laboratory testing applications.

Available in different sizes:

7mm, 9.5mm, 12.5mm, 15mm, 19mm, 25mm, 31.5mm, 37.5mm, 45mm, 50mm, 62.5mm, 75mm

Related Standards

EN 932-2; ASTM C702; BS 812:1, 1377:1, 1924:1

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