HM 160.33
Crump weir

Description

- weir according to E. S. Crump

Crump weirs are control structures. They are broad-crested weirs. The triangular shape of the weir has several advantages, e.g., only minor siltation occurs upstream of the weir; a part of sediment transport can flow over the weir. In addition, aquatic creatures can often pass this weir upstream.

HM 160.33 is a weir according to E. S. Crump with defined inclinations both upstream and downstream. The Crump weir is preferably used as a sill. Sills are used to decrease the flow velocity to avoid erosion. A sill is well dimensioned for the prevailing discharge when there is no hydraulic jump.

Learning objectives/experiments

- free and submerged overfall at the Crump weir
- observation of downstream hydraulics jumps
- discharge at a sill
- together with a level gauge:
  - determination of the discharge
  - comparison of the theoretical and the measured discharge

Specification

[1] Crump weir for the experimental flume HM 160
[2] weir body contour according to E. S. Crump
[3] weir body with sealing lips

Technical data

Weir body
- made of PVC
- inclination (upstream): 1:2
- inclination (downstream): 1:5

LxWxH: 420x84x60mm
Weight: approx. 2kg

Scope of delivery

1 Crump weir
1 set of accessories
1 manual

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