

HM 160.31 Broad-crested weir



Description

flow over broad-crested weirs

Broad-crested weirs are control structures. Often, submerged overfall prevails so that the weir is fully submerged in the downstream water. Under certain conditions, broad-crested weirs can be used as measuring weirs. HM 160.31 contains a cuboid shaped weir body with a sharp edges. Two additional elements can be fixed at the weir body to create rounded edges. Free and submerged overfall can be clearly demonstrated. The effect of the sharpedged or rounded weir crest on the nappe is easily observable.

Learning objectives/experiments

- free and submerged overfall at the broad-crested weir
- effect of the weir edges on flow processes
 - sharp-edged contour
 - rounded contour
- together with a level gauge:
 - determination of the discharge coefficient
 - determination of the discharge
 - comparison of the theoretical and the measured discharge

Specification

- [1] broad-crested weir for the experimental flume HM 160
- [2] weir with sharp edges
- [3] 2 additional elements for rounded edges
- [4] weir body with sealing lips

Technical data

- Weir body
- material: PVC

LxWxH: 260x96x120mm (weir body) LxWxH: 40x86x120mm (element for rounded edges) Weight: approx. 5kg

Scope of delivery

- 1 weir body
- 2 elements for rounded weir edges
- 1 set of accessories
- 1 manual



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Required accessories

HM 160 Experimental flume 86x300mm

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