

# V-notch weir systems in conformity with NF X10-311 DEBITBAC



## USER MANUAL

**BAMO** INTERNATIONAL

22, Rue de la Voie des Bans · Z.I. de la gare · 95100 ARGENTEUIL

Tel +33 (0)1 30 25 83 20 Web [www.bamo.eu](http://www.bamo.eu)

Fax +33 (0)1 34 10 16 05 E-mail [export@bamo.fr](mailto:export@bamo.fr)

V-notch weir systems in  
conformity with NF X10-311  
**DEBITBAC**

18-10-2018

M-755.02-EN-AA

**DEB**

**755-02/1**

## INSTALLATION

- All parts and components of the V-notch weir system and all measuring devices should be readily accessible for routine inspection and maintenance.
- Thin walled weir plates must have a 45 ° chamfered edge downstream.
- Thickness of the plate is a function of its width and the height of the effluent to be measured.
- The current thicknesses are 6, 8 and 12 mm.
- A limnometric scale must be permanently installed where it is possible to get a quick idea of the water level.
- All measuring devices should be installed directly in the overflow section or above, or in a measuring well.
- Weir plate dimensions are such as the max. flow-rate to be measured is 70% to 100 % of the maximal capacity of the weir.  
An oversized weir plate may result in reduced accuracy at low flow rates.

## Periodic maintenance and check-up

The weir plate should be clean and free of vegetation and microorganisms and of ice during the cold weather. Precautions should be applied to prevent the accumulation of sediment or debris upstream of weir plate. The "zero" mark on the secondary meter should be checked regularly under zero flow conditions. If this is not possible, a calibration plate can be installed to perform the required verification. Other check points: Horizontality of the weir crest; Verticality of the weir plate; Height of the crest vs. a known reference point (to detect a possible settlement of the system); Integrity of the weir plate (damaged, corroded parts etc.).

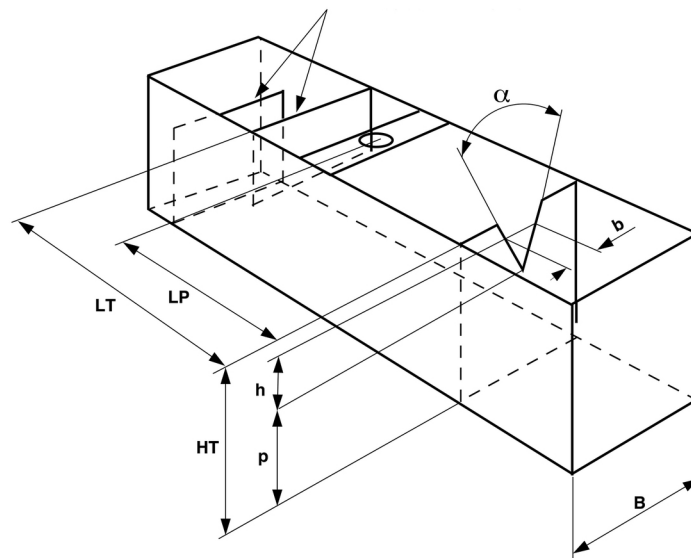
## TECHNICAL FEATURES

- Material: PPH
- Flow-rates from 1 to 80 m<sup>3</sup>/h
- V angles are from 20 to 100° (excluding 90°)
- Custom made
- Ready to use
- **In conformity with standard NF X10-311**

## DIMENSIONS

In respect to Kindvater-Shen formula some physical limits exist.

LP = 4 to 5 time h max.  
LT = 10 time b  
HT = p + h max. + 0.05 metre  
h > 0.06 metre  
p > 0.09 metre



**Other limitations must be respected.**  
(See the spreadsheet of your own DEBITBAC).

**BAMO** INTERNATIONAL

22, Rue de la Voie des Bans · Z.I. de la gare · 95100 ARGENTEUIL  
Tel +33 (0)1 30 25 83 20 Web [www.bamo.eu](http://www.bamo.eu)  
Fax +33 (0)1 34 10 16 05 E-mail [export@bamo.fr](mailto:export@bamo.fr)

V-notch weir systems in  
conformity with NF X10-311  
**DEBITBAC**

18-10-2018

M-755.02-EN-AA

**DEB**

**755-02/2**