


General Installation Notes

1.0 The flume must be installed in an accurate workmanlike manner to assure proper performance. The approach conditions must provide flow that is free of "white water", or turbulence that creates surface boils. The cross section of the upstream channel and the converging section should be of equal geometric size and configuration such that a reasonably smooth uniform flow pattern exists.

2.0 Installation of the flume - The crest of the flume should be used as the index. Careful leveling is necessary in both the transverse and longitudinal planes to maintain accuracy. The flume should be set on a solid foundation to prevent settling, heaving or bowing caused by back pressure of the concrete. Forms should be used when pouring the concrete and the flume should be braced on the inside by placing 1/2" masonite or plywood against the walls and wedging 2" x 3"s between them at the flume corners and at the center panel of each section to insure that the flume dimensions are not altered. Care should be taken to prevent flow from bypassing the flume and eroding the foundation.

3.0 The device must be installed beyond the influence of any upstream control devices or fittings that can create unstable velocity profiles, turbulent, unsteady or "shooting" flow. The fluid velocity entering the primary element must be subcritical.

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