Approach Sections for H Flumes

An approach section is a rectangular structure with a flat floor which is molded (or attaches) to the entrance of a HS / H / HL flume; conditioning and developing the flow before it enters the flume.

Having the same cross-sectional shape as the inlet of the flume to which they are attached, the length of an approach section should be 3 to 5 times the maximum anticipated head, Hmax. As a default, approach sections are commonly sized to be 3 to 5 times the depth of the flume.

Custom approach section lengths (longer / shorter / multi-piece) are available from Openchannelflow as needed.

An approach section is a convenient location in which to mount flow conditioning accessories.

These can include:

- Perforated plates
- Tranquilizer racks
- Energy absorbers
- Static bar screens

In addition, parameter probes (pH, DO, etc.) are commonly mounted in the approach section due to the limited space in the flume itself.

Approach sections are commonly used to mount inlet bulkheads mounting pipe stubs, flanges, or caulking collars to allow HS / H / HL flumes to connect to inlet piping. In addition, inlet wing walls can also be attached to approach sections for HS / H / HL flumes measuring flows in open channels.

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