



TRACOM PALMER-BOWLUS FLUME INSTALLATION INSTRUCTIONS

1. Follow all instructions provided by the project engineers in the form of specifications, blue prints, etc.
2. Upstream channel slope should be no more than 2% to ensure the maintenance of sub-critical flow into the flume.
3. The approaching flow should be well distributed across the channel and relatively free of turbulence or waves.
4. The flume should be level from side to side and from front to back. The sidewalls should be vertically plumb. The ramp of the flume should be downstream.
5. There should be no drops, bends, flow junctions, etc. within twenty-five (25) pipe diameters upstream of the flume location.
6. Do not use cables or chains to unload larger flumes. Unload flumes with fabric slings in conjunction with a spreader bar.
7. The flume should be secured from flotation. One of the following methods may be used:
 - a. Wire should be run from the anchor clips to rebar, or
 - b. Rebar should be run through the anchor clips.
8. Brace the flume internally to ensure that the sidewalls do not distort during backfill.
9. Sandbags may be placed inside the flume to prevent it from floating in wet concrete.
10. The use of a vibrator should be minimized as excessive use may bulge or distort the flume sidewalls and bottom.
11. It is recommended that an oversized channel be initially roughed in before the flume is installed. Grout the flume in place after the first pour has set.

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