

Product	Model	Data
Waterstop Grouting Ring	WS-30	Installation Instructions

## INSTALLATION INSTRUCTIONS

### Press-Seal Gasket WS-30 Waterstop

1. Clean pipe section thoroughly for at least three feet from insertion end.
2. Position WS-30 Waterstop on pipe so that it will be completely within the plane of the manhole wall. Always place WS-30 Waterstop so that it is in a straight plane across the pipe.
3. Attach take-up clamp(s) and stagger screw(s) of clamp around the groove of WS-30 Waterstop so that take-up pressure will be equalized. Make sure that clamp is completely in the groove. Using a torque ratchet or torque wrench, gradually tighten screw(s) of clamp to 60 lbs/inch torque.
4. **DO NOT OVERTIGHTEN. A SCREWDRIVER WILL NOT TIGHTEN CLAMPS ADEQUATELY.**
5. Prepare the structure opening by cleaning it thoroughly and applying a high-quality bonding agent to the opening.
6. Insert pipe into structure opening. Make sure that WS-30 is fully within the plane of the structure walls. Adjust pipe to line and grade.
  - ***If mortaring in place***, carefully apply and compact non-shrink grout around WS-30 Waterstop and between pipe and opening, taking care to fill all voids.
  - ***If pouring in place***, use concrete of sufficient slump to permit complete flow around pipe and WS-30 Waterstop. Thoroughly vibrate all around pipe and WS-30 Waterstop to complete compaction and to release any trapped air.
    - Allow concrete or mortar to cure fully before testing or backfilling is begun.
    - If system is to be tested, testing should be completed prior to backfilling, following all recommendations and requirements of the test system manufacturer.
    - Use proper bedding and backfill materials and techniques so that pipe deflection and deformation is minimized.
    - Any pipe stubs installed in the manhole must be positively restrained from movement.



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