



# Polyethylene P-Trap

## Submission and installation procedure for a Mill-Pro Polyethylene P-Trap

Mill-Pro Polyethylene P-Traps are fabricated using only Butt welding techniques and are fully structural, therefore can withstand all external load conditions that may be transferred from the pipeline to the P-Trap for pipes up to and including SDR17 (SDR17 or a higher SDR such as SDR 21).

### Summary

P-traps are installed at the base of terminal manholes to prevent sewer gas (H<sub>2</sub>S) and odour escaping from manholes within confined areas, such as basements in buildings. Cast Iron P-Traps need to be replaced after 15-20 years of service due to internal corrosion. Polyethylene P-Traps have a 100 year maintenance free life and have become the preferred choice for terminal manhole installations.

### Installation Procedure

1. Follow the instructions provided with the P-Trap. Once the concrete formwork is established, install the P-trap in the correct position inside the formwork and anchor it to the base / ground using one or more 'staples' bent from reinforcing bar. PE floats in concrete, so the P-Trap must be well secured to the ground / base and formwork, before pouring begins. Seal off the P-Trap intake to prevent concrete entering the trap.
2. Immediately **before** pouring concrete, remove the Hydrophilic seal/s supplied from their sealed bags, install as indicated on the P-Trap. Do not leave the seals exposed to moisture before pouring concrete.
3. Pour the manhole and allow to cure, Check the P-Trap remains in position. Plaster finish internally as required.
4. Mechanically peel the P-Trap spigot and the pipe end beyond the entry length. Mark the entry length into the Electrofusion coupler on the P-Trap spigot and pipe end. Degrease both PE spigots with 90% Isopropyl wipes, allow to dry. Install the Friatec Electrofusion coupler to the witness marks on the spigots and fuse in accordance with the installation instructions (see our web site for details).
5. Once fused and cooled for the correct time, backfill with soil. No further concrete surround or anchoring is required. The pipe is fully end restrained to the P-Trap and the chamber. Where the following installation conditions exist: *Ground movement, Reclaimed land, Steep gradients., Pipe installed above ground.* A structural fabricated PE P-Trap can withstand all tensile forces (up to pipe failure) once it is embedded in a concrete chamber as shown.

