



Polyethylene pipe to Cast Iron P-Trap connection - Option 2

Submission and preparation procedure for PE to Cast Iron P-Trap adapter.

Where significant tensile load conditions exist on the pipe that must be transferred to the chamber face, such as: Reclaimed ground, Installation on a steep slope or gradient or pipeline is installed above ground (subject to significant thermal forces)

Summary

Where a Cast Iron P-Trap is connecting to a PE pipe, a Rubber Ring joint (RRJ) Transition fitting is required to make the connection between the CI and PE. The transition design will be either Eccentric or Concentric depending on the ID of the PE pipe and P-Trap. Eccentric connectors maintain the level invert at the Cast Iron spigot PE interface, to ensure no internal step (>5% of the aligning ID's) is created.

Installation Procedure

1. Sand or grind the Cast Iron spigot for approximately 80mm from the end of the spigot to remove the rough casting surface and provide a smooth sealing surface for the rubber ring, around the entire circumference.
2. **Before ordering the adapter**, measure the Circumference of the Trap spigot using a Pi tape (or using a normal tape and dividing the circumference measurement by 3.14) to provide an accurate diameter. The PE socket is machined to the correct size to seal effectively on the spigot (Note: Cast Iron spigot diameters may vary considerably).
3. Mark an insertion witness mark equal to the depth of the PE socket on the Cast Iron spigot. Lubricate the spigot and socket and insert the PE adapter over the cast iron spigot, until the witness mark is reached.
4. Mechanically peel the PE adapters spigot and pipe end. Mark the entry length into the Electrofusion coupler on the adapter spigot and pipe end. Degrease both PE spigots with 90% Isopropyl wipes, install the EF coupler and fuse in accordance with the installation instructions (see our web site for details).
5. Once fused and cooled, the adapter shall be encased in a concrete corbel which is poured at the same time as the chamber is poured (indicated below). Such as when the following conditions exist: *Ground movement, Reclaimed land, Steep gradients, pipe installed above ground*, (resulting forces are indicated by the red arrow).

