

SEAL-TITE COUPLER SPECIFICATIONS

Scope

This specification describes 24- through 48-inch (600 to 1200 mm) Seal-Tite™ couplers for use on pipe and pipe fittings in soil tight, silt tight or watertight applications.

Coupler Requirements

Seal-Tite couplers shall be a co-extruded system continuous coupler ring with the ends fused together.

Coupler Performance

Coupler shall meet the soil tight, silt tight and watertight requirements of AASHTO M294, ASTM D2648 or ASTM F2306.

24- through 48-inch (300 to 1500 mm) shall be watertight according to the requirements of ASTM D3212. Gaskets shall be made of thermoplastic elastomer meeting the requirements of ASTM F477 with the addition that the gaskets shall not have any visible cracking when tested according to ASTM D1149 after 72 hour exposure in 50 PPHM ozone at 104°F (40° C). Gaskets shall be co-extruded with a polypropylene body forming an inseparable bond. The composite structure shall be a continuous ring with the ends fused together.

For Soil tight and Silt Tight applications the Seal-Tite coupler shall be sized to fit the outside diameter of the pipe such that it meets the performance requirement without additional straps, banding or other tolerance control devices.

For watertight applications Seal-Tite shall be sized to fit the outside diameter of the pipe with the addition that one stainless steel or other non-corrosive material tolerance device shall be around the circumference of each end of the Seal-Tite coupler. Seal-Tite for 24- through 36-inch (600 to 900 mm) inside diameter pipe shall have one external band on each end of the coupler installed by the manufacture. Seal-Tite for 42- and 48-inch (1050 to 1200 mm) inside diameter pipe may have two external band on each end of the coupler installed by the manufacture.

A joint lubricant may be used on the gasket and pipe exterior to improve ease of assembly.

Material Properties

Virgin material for exterior shell and thermo plastic elastomer shall be used. The exterior shall be copolymer polypropylene alloy with impact modifiers conforming to the requirements of ASTM D4101 with a minimum hardness of 50 D. The thermoplastic elastomer shall meet the requirements of ASTM F477. Both materials shall be compatible and co-extruded forming an inseparable bond.

Installation

Installation shall be in accordance with the manufacturers published installation guidelines. The latest installation guidelines can be found at www.4pipe.com.

TOLERANCE CONTROL CLAMP (1)
REQUIRED PER SIDE FOR WATER
TIGHT SECOND CLAMP IS OPTIONAL

