



TDR LINK[®] is a comprehensive HDPE fabricated fittings product line that integrates custom-made and standard fittings with a complete range of accessories to deliver flexible, efficient, and easy-to-install solutions for water management infrastructure projects.

SCOPE

This specification establishes the requirements for 4 inches through 60 inches TDR LINK® HDPE fabricated fittings for use in gravity-flow drainage applications.

Common fitting types include:

- In-line joint fittings: couplings (bell and spigot, split), reducers (eccentric, concentric)
- Branch or lateral assembly fittings: tees, wyes, end caps
- Directional fittings: bends (22.5°, 30°, 45°, 90°)

PRODUCT REQUIREMENTS

TDR LINK® fabricated fittings shall be supplied with joints compatible with the overall piping system. All fittings shall be manufactured from HDPE pipe meeting the requirements of this specification, and all seams must be completely sealed with materials compatible with the pipe and joint design.

Only fittings supplied or recommended by TDR shall be used in conjunction with TDR pipes. Fittings shall not reduce, impair, or compromise the structural integrity or hydraulic function of the pipeline. When connected with pipe, the assembly axis shall be level and true, and the fitting shall maintain alignment during and after installation.

Couplings shall have corrugations matching the pipe profile and shall provide sufficient longitudinal strength to preserve pipe alignment and prevent separation at joints.

Couplings shall be available in two configurations:

- Bell-and-spigot couplings: Standard design for in-line joints
- Split couplers: Lateral engagement couplings that must engage at least two (2) full corrugations on each pipe section for minimum holding strength

MATERIALS

TDR LINK® fittings are fabricated from HDPE materials meeting the minimum requirements of ASTM D3350 Cell Classification 435420C/E for all pipe sizes. Resin shall contain 2% and 4% carbon black for UV protection and durability.

For pipe sizes 12" through 60", materials shall additionally comply with the Notched Crack Long-Stiffness (NCLS) test per:

- AASHTO M294, Section 9.4
- ASTM F2306, Section 5.1

JOINT PERFORMANCE

TDR LINK® joining systems shall be designed to preserve alignment during construction and installation, and prevent separation at joints under service conditions.

Acceptable joint designs include:

- Bell-and-spigot joints with integral gasket
- Split couplers
- External snap couplers

All joints shall achieve watertight performance per a hydrostatic pressure test of 10.8 psi (74.4 kPa) in accordance with ASTM D3212. Joints shall utilize a bell-and-spigot design with elastomeric gaskets meeting ASTM F477 specifications.

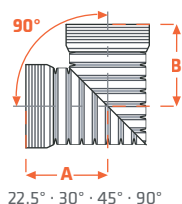
INSTALLATION

Pipe and fittings shall be installed in accordance with ASTM D2321 and TDR's published Minimum cover for trafficked areas shall be 12 inches (0.30 m). Maximum cover height depends on soil embedment materials and bedding configuration used. For specific guidance on installation procedures, embedment design, and joint assembly, contact a TDR technical representative for the latest Installation Guideline and project-specific recommendations.

HDPE FABRICATED FITTINGS

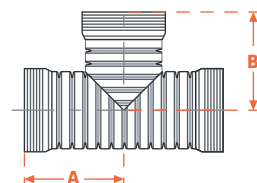
TDR LINK® offers a complete range of custom-fabricated fittings, including among others:

Bends



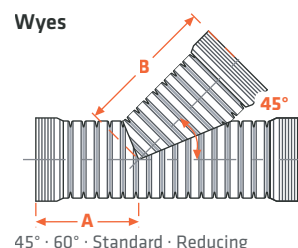
22.5° · 30° · 45° · 90°

Tees and Crosses



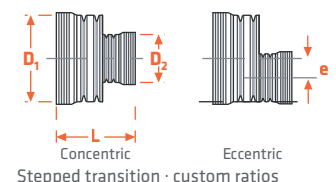
Standard · Reducing · Cross

Wyes



45° · 60° · Standard · Reducing

Reducers



Custom configurations available upon request.

August 2026