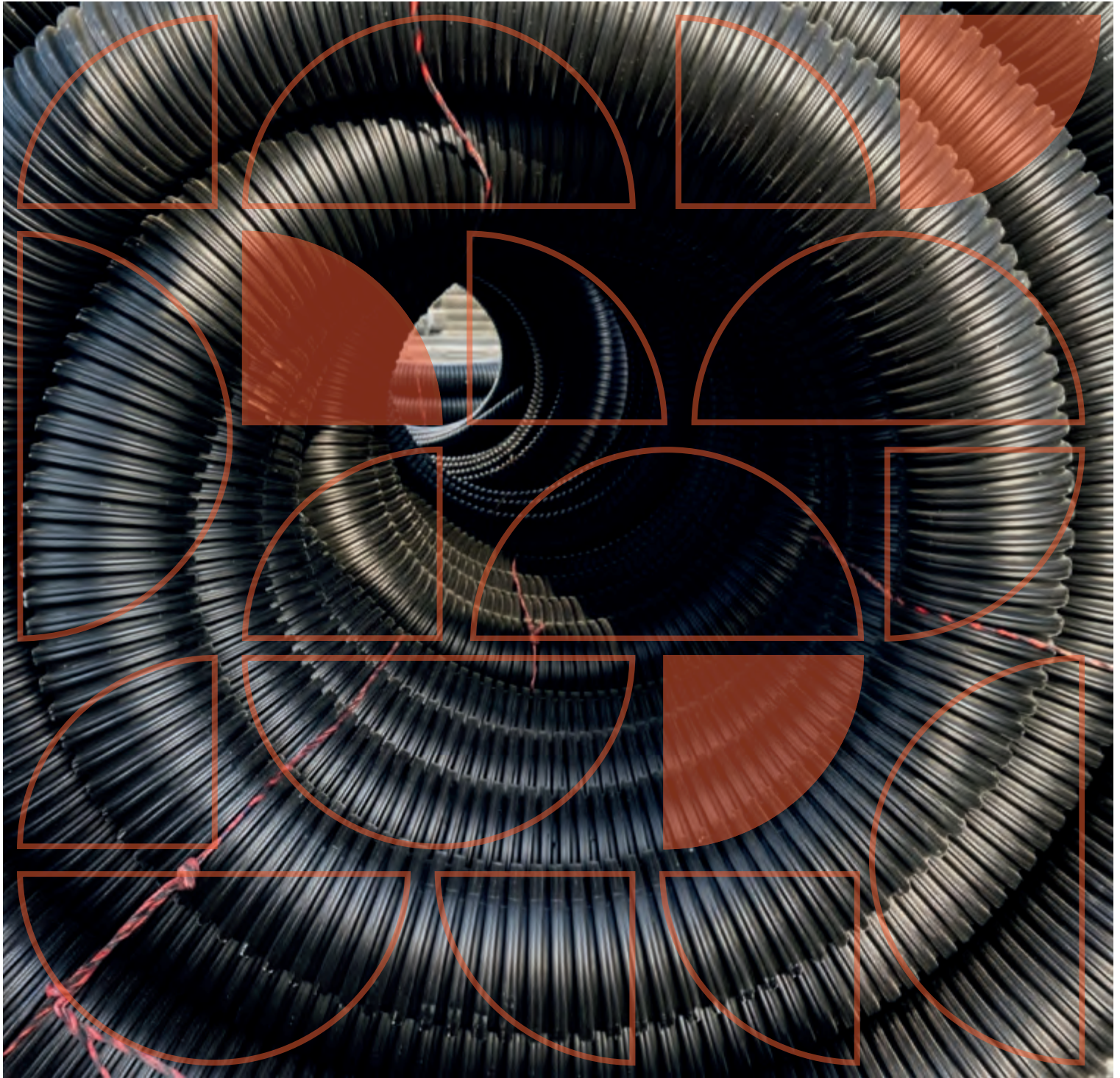


TDR[®]ULTRA SW[®]

HDPE CORRUGATED PIPE SINGLE WALL



TDR ULTRA[®] SW is a cost effective, single-wall HDPE corrugated pipe engineered for gravity-flow drainage applications, subsurface irrigation, highway drainage, and land drainage. Designed with durability and efficiency in mind, it is compliant with ASTM F667 and AASHTO M252 standards and provides reliable long-term performance.



SCOPE

This specification establishes the requirements for TDR ULTRA® SW (single-wall) HDPE corrugated pipe and fittings for use in gravity-flow drainage applications, including subsurface irrigation, highway drainage, and land drainage systems.

TDR ULTRA® SW is available in coiled lengths with plain end configuration and is offered in both perforated and non-perforated designs, with optional geotextile fabric integration.

Note: TDR ULTRA® SW is a single-wall corrugated pipe. For dual-wall gravity-flow drainage applications, refer to TDR ULTRA® specifications.

PIPE PERFORMANCE

TDR ULTRA® SW is engineered with single-wall construction featuring exceptional strength and durability for cost-effective drainage applications.

Key Characteristics:

- Single-wall corrugated exterior with reinforced double-arch corrugations for structural strength and load-bearing capacity
- Supplied in coiled lengths with plain-end configuration for simplified installation
- Available in both perforated and non-perforated designs
- Optional geotextile fabric integration available
- Engineered for gravity-flow, subsurface irrigation, highway, and land drainage applications

STANDARDS

TDR ULTRA® SW pipe and fittings shall comply with:

- AASHTO M252 – Standard Specification for Corrugated Polyethylene Pipe
- ASTM F667 – Standard Specification for Corrugated Polyethylene Pipe

Material Specification:

- Pipe Compound: ASTM D3350 Cell Classification 435420C
- Geotextile Fabric (when specified): ASTM D6707

APPLICATIONS

TDR ULTRA® SW is suitable for the following drainage applications:

- Golf course and turf drainage
- Sports and recreation field drainage
- Grain aeration systems
- Highway and road drainage
- Land and agricultural drainage
- Waste management and landfill drainage systems
- Subsurface irrigation systems

JOINT PERFORMANCE

TDR ULTRA® SW utilizes the following joint configurations:

Plain-End Spigot Design:

- Designed for Split Coupler connections
- Designed for Snap Coupler connections
- High-performance soil-tight joint providing secure field connections
- Gasket requirements per ASTM F477

Installation: All joints shall be installed per TDR Installation Guideline to ensure proper seat and watertight/soil-tight performance.

PERFORATION

When perforated, TDR ULTRA® SW shall feature Type C pipe classification with Class 2 perforations (90° slot pattern).

Perforation Specifications:

- Slot pattern: 90° (staggered)
- Drain area per foot
- Maximum slot width
- Maximum slot length

Consult TDR's technical representative for specific perforation pattern recommendations and drain area requirements for your application.

Specifications

Nominal ID	Typical ID	Min. Pipe Stiffness	Available Coil Lengths	Max. Slot Width	Max. Slot Length	Drain Area per Foot	Perforation Type
in (mm)	in	mm	psi	in	mm	in	mm
3" (75mm)	3.04"	77.22					
4" (100mm)	4.04"	102.6	24	0.12"	3	1"	25
6" (150mm)	6.01"	152.4					

Note: Values provided for references purposes only. Contact a technical representative for additional information.

