

## ADS TURF-FLOW PIPE SPECIFICATION

### Scope

This specification describes 2-inch (50 mm) ADS Turf-Flow Pipe for use in recreational turf drainage applications.

### Pipe Requirements

ADS Turf-Flow shall have spiral corrugated interior and exterior corrugations. Minimum inside diameter and average outer diameter shall be 1.91-inches and 2.3-inches respectively. Average pipe stiffness at 5% deflection shall be 50 pii when tested in accordance with ASTM D2412. Average weight shall be 0.13 pounds per foot. The material formulation shall include recycled polyethylene.

### Joint Performance

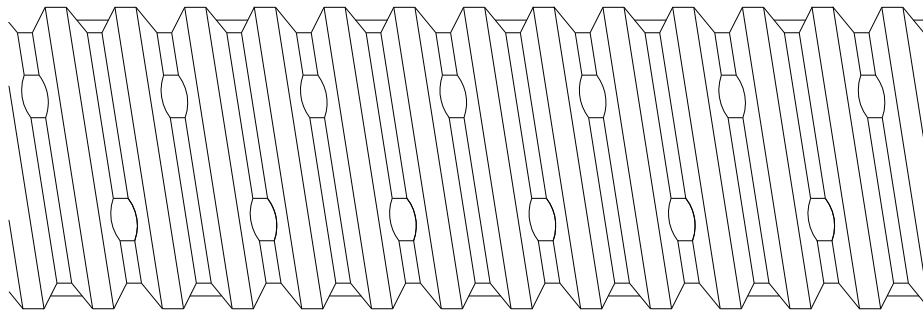
Pipe shall be joined with an external coupler covering at least two full corrugations on each end of the pipe. Standard (non gasketed) connections shall meet the soil-tightness requirements of AASHTO M252.

### Material Properties

Pipe and fitting material shall be high-density polyethylene conforming with the minimum requirements of cell classification 424410C as defined and described in the latest version of ASTM D3350.

### Installation

Installation shall be in accordance with state or local regulations and those issued by the design engineer.



### Perforations

Perforation Type	Narrow Slots	Wide Slots
Slot Length (Max), in. (mm)	0.75 (19)	0.75 (19)
Slot Width (Max), in. (mm)	0.015 (.38)	0.19 (4.8)
Water Inlet Area (Min), in <sup>2</sup> /ft (cm <sup>2</sup> /m) *	0.11 (2.3)	1.34 (28.3)

\* Minimum value recommended for design purposes. Actual perforation inlet area may be greater.

### Hydraulic Data

Recommended Design Manning's "n"	0.017
Conveyance Number**, k	0.23

\*\* Flow Rate, Q (cfs) = (Conveyance Number, k) \* (Slope)<sup>1/2</sup>  
See Hydraulics section of the Drainage Handbook for additional

information