

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

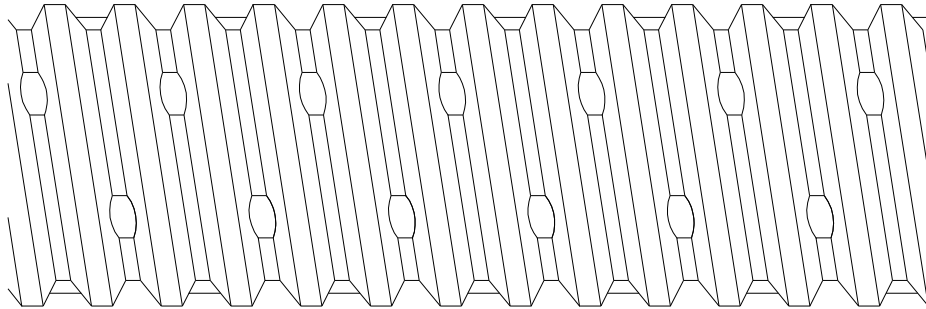
Pipe shall be joined with an external coupler covering at least two full corrugations on each end of the pipe. Standard (non gasketed) connections shall meet the soil-tightness requirements of AASHTO M252.

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 ² /ft (cm ² /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)^{1/2}
See Hydraulics section of the Drainage Handbook for additional

information