

2" TURF FLOW PIPE

Turf Flow 2" (50mm) diameter pipe—available solid or perforated—is the answer for quick drainage response. Installation can be completed with minimal turf disruption, making Turf Flow ideal for improving the effectiveness of existing systems.

Unmanaged stormwater can result in ponding and over-saturated areas which damages turf and reduces playability on greens, fairways and sport fields. Turf Flow's flexibility enables it to be used in many applications other pipes can't accommodate. It can be snaked around obstructions and can be laid at ends of cart paths and driveways to prevent frost damage.

Available in solid, wide and narrow slot, the pipe joins easily with a full line of external twist-on fittings, including: coupler, end cap, 2" (50mm) x 4" (100mm) reducer and blind tee/elbow. Turf Flow's exclusive narrow-slit perforation design requires no filter wrap to prevent sand from entering the system for long-term, effective drainage. The product is available in rolls up to 500' (150m).

APPLICATIONS:

Golf Courses	Sports Playing Fields
Playgrounds/Parks	Parking Lots
Edge Drains/Sub Drainage	Culvert
Residential	Landscaping
Agricultural	Foundation/Edge Paths/Walkways/Edge Irrigation

FEATURES:

- Available in rolls up to 500' (150m) in length
- Available in plain or perforated pipe with plain, wide or narrow slots
- Spiral corrugated interior with exterior corrugations
- External coupler joints
- Excellent abrasion and corrosion resistance
- Light weight
- Fast installation times
- Flexible

ADS Service: ADS representatives are committed to providing you with the answers to all your questions, including specifications, installation and more.



BENEFITS:

- Healthier grass and sod
- More effective use of soil nutrients
- Reduced risk of turf disease
- Maximum playability
- Reduced compaction
- Drainage removes soluble salts
- Safer surfaces
- Installation involves minimal turf disruption
- Long-term effective drainage



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 30 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

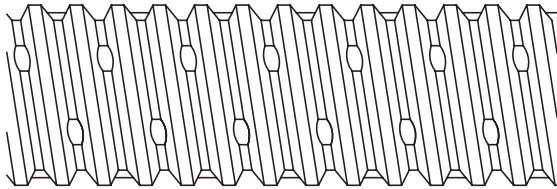
Pipe shall be joined with an external coupler covering at least two full corrugations on each end of the pipe. Standard (non gasketed) connections shall meet the soil-tightness requirements of AASHTO M252.

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. Contact your local ADS representative or visit our website at www.ads-pipe.com for a copy of the installation guidelines.



PERFORATIONS

PERFORATION TYPE	NARROW SLOTS	WIDE SLOTS
Slot Length (Avg), in. (mm)	0.5 (13)	0.5 (13)
Slot Width (Avg), in. (mm)	0.01 (.25)	0.125 (3.2)
Water Inlet Area (Min), in ² /ft (cm ² /m ²)	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 Mannings' "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

For more information on ADS Turf Flow pipe and other ADS products, please contact our Customer Service Representatives at 1-800-821-6710

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