Fine Slot N-12® Pipe

Fine Slot N-12 pipe is another product pipe offering joining ADS perforated pipe and sock pipe systems. Available in 12”, 15” and 18” (300-450 mm) diameters, Fine Slot N-12 pipe is ideal for agriculture applications.

ADS Fine Slot N-12 pipe contains a superior built-in bell-and-spigot joint. The joints are sealed by high-quality, factory-installed rubber gaskets.

Applications

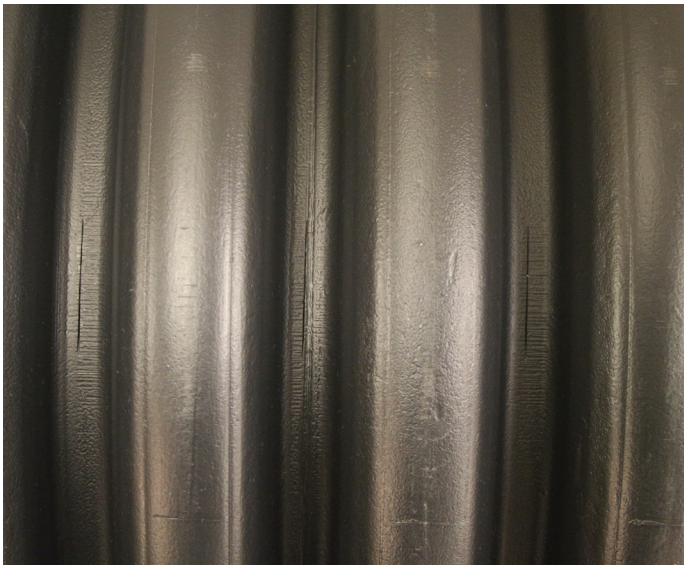
- Agricultural mains
- Subsurface de-watering

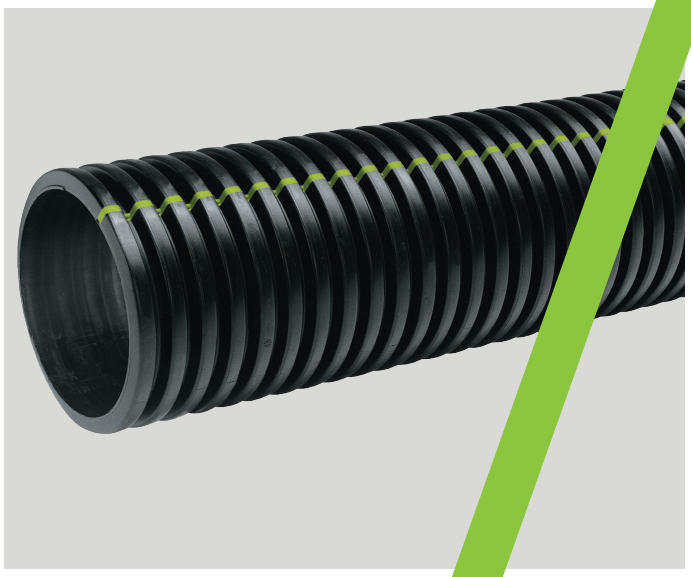
Features

- Designed with fine slots in the valleys of the pipe
- 20’ (6 m) or 13’ (4 m) lengths available
- Bell-and-spigot joint design
- In-line bell design
- Exceptional joint strength
- Excellent abrasion and corrosion resistance
- Light weight
- Fast installation times
- Hydraulic efficiencty from smooth interior wall
- Structural strength that will support H-25 live loads with 12” (300 mm) minimum cover

Benefits

- Minimizes soil infiltration and allows for drainage
- Variety of diameters and lengths that will fit any project
- Joint only requires lube for fitting - ends are pushed together for easy field installation
- Unlike pipes from other manufacturers, there are no additional gasket materials, grout or sealing bands to transport and apply
- Installation cost savings from lower shipping costs, fewer people and less heavy equipment required
- Long-term durability of HDPE





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ADS Fine Slot N-12 Pipe Specification

Scope

This specification describes 12”, 15” & 18” (300 to 450 mm) ADS Fine Slot N-12 pipe for use in gravity flow land drainage applications.

Pipe Requirements

Pipe shall have a smooth interior and annular exterior corrugations.

- 12”, 15” & 18” (300 to 450 mm) shall meet ASTM F2648
- Manning’s “n” value for use in design shall be 0.012

Joint Performance

Pipe shall be joined using a bell & spigot joint meeting ASTM F2648. The gasketed joint shall be soil-tight. Gaskets shall be installed by the pipe manufacturer and covered with a removable wrap to ensure the gasket is free from debris.

Fittings

Fittings shall conform to ASTM F2306. Bell-and-spigot connections shall utilize a spun-on or welded bell and valley or saddle gasket meeting the soil-tight joint performance requirements of ASTM F2306.

Material Properties

Material for pipe production shall be an engineered blend of virgin and recycled high-density polyethylene conforming with the minimum requirements of cell classification 424420C, (ESCR Test Condition B) for 12- through 18-inch (300 to 450 mm) diameters, as defined and described in the latest versino of ASTM D3350, except that carbon black content should not exceed 4%. The design engineer shall verify compatibility with overall system including structural, hydraulic, material and installation requirements for a given application.

Installation

Installation shall be in accordance with ASTM D2321 or PPI tech note 37-2006, and ADS published installation guidelines. Maximum fill heights depend on embedment material and compaction level; please refer to Installation Guide 1.03. Contact your local ADS representative or visit our website at www.adspipe.com for a copy of the latest installation guidelines.

Pipe Nominal Dimensions

Pipe I.D. in (mm)	12 (300)	15 (375)	18 (450)
Pipe O.D.* in (mm)	14.5 (368)	18 (457)	21 (533)

*Pipe O.D. values are provided for reference purposes only, value stated are ± 1 inch. Contact a sales representative for exact values.

Perforation Dimensions

Pipe Diameter in (mm)	Slot width in (mm)	Slot length in (mm)
12 (300)	0.003-0.015 (.08-.38)	0.7 (18)
15 (375)	0.003-0.015(.08-.38)	0.7 (18)
18 (450)	0.003-0.015(.08-.38)	0.7 (18)

Actual dimensions may vary slightly; dimensions listed are average values for reference only.

	Perforation Outflow - Tested Values		
Water Head (ft) water surface to center perforation	8	9	10
18” flow rate (gpm/ft)	4.8	6.0	6.8

Values listed represent measured flow rates during free flow coordinates for water exiting the pipe without backfill; hydraulic conductivity of the backfill will affect inflow and outflow rates.

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