

ADS N-12[®] HP 12”- 30” STORM PIPE SPECIFICATION

Scope

This specification describes 12- through 30-inch (300 to 750 mm) ADS N-12 HP Storm pipe for use in gravity-flow applications.

Pipe Requirements

- 12- through 30-inch (300 to 750 mm) pipe shall have a smooth interior and annular exterior corrugations.
- 12- through 30-inch (300 to 750 mm) pipe shall have a minimum pipe stiffness of 46 pii when tested in accordance with ASTM D2412.
- Manning's "n" value for use in design shall be 0.012.

Joint Performance

Pipe shall be joined with a gasketed integral bell & spigot joint.

12- through 30-inch (300 to 750 mm) shall be watertight according to the requirements of ASTM D3212. Spigot shall have two gaskets meeting the requirements of ASTM F477. Gaskets shall be installed by the pipe manufacturer and covered with a removable, protective wrap to ensure the gaskets are free from debris. A joint lubricant available from the manufacturer shall be used on the gasket and bell during assembly.

Fittings

Bell & spigot connections shall utilize a spun-on, welded or integral bell and spigot with gaskets meeting ASTM F477. Fitting joints shall meet the watertight joint performance requirements of ASTM D3212.

Field Pipe and Joint Performance

To assure watertightness, field performance verification may be accomplished by testing in accordance with ASTM F2487. Appropriate safety precautions must be used when field-testing any pipe material. Contact the manufacturer for recommended leakage rates.

Material Properties

Virgin material for pipe and fitting production shall be impact modified copolymer polypropylene conforming to the requirements of ASTM D4101.

Installation

Installation shall be in accordance with ASTM D2321 and ADS recommended installation guidelines, with the exception that minimum cover in traffic areas for 12- through 30-inch (300 to 750 mm) diameters shall be one foot (0.3 m) in single run applications. Backfill for minimum cover situations shall consist of Class 1, Class 2 (minimum 90% SPD) or Class 3 (minimum 95%) material. Maximum fill heights depend on embedment material and compaction level; please refer to Technical Note 2.03. Contact your local ADS representative or visit our website at www.ads-pipe.com for a copy of the latest installation guidelines.

Pipe Dimensions

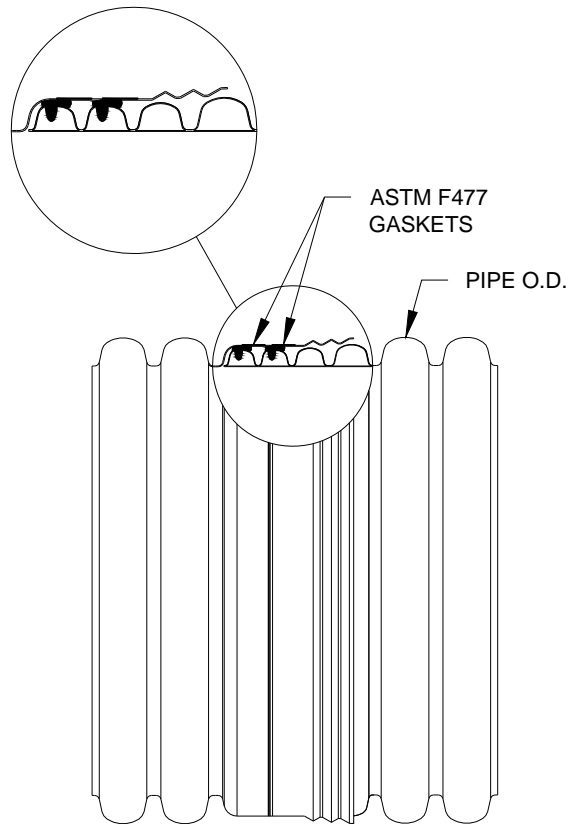
	Nominal Diameter, in (mm)				
Pipe I.D. in (mm)	12 (300)	15 (375)	18 (450)	24 (600)	30 (750)
Pipe O.D.* in (mm)	14.5 (368)	18 (457)	22 (559)	28 (711)	36 (914)
Minimum Pipe Stiffness @ 5% Deflection** #/in./in. (kN/m ²)	46 (320)	46 (320)	46 (320)	46 (320)	46 (320)

*Pipe O.D. values are provided for reference purposes only, values stated for 12- through 30-inch are ± 1 inch. Contact a sales representative for exact values.

** Minimum pipe stiffness values listed; contact a representative for maximum values

N-12[®] HP 12" – 30" STORM PIPE JOINT SYSTEM

(Joint configuration & availability subject to change without notice. Product detail may differ slightly from actual product appearance.)



12" - 30"
(300-750 MM)