

ADS N-12[®] WT SERIES 35 PIPE SPECIFICATION

Scope

This specification describes 4- through 24-inch (100 to 600 mm) ADS N-12 WT Series 35 pipe for use in gravity flow applications.

Pipe Requirements

N-12 WT Series 35 pipe shall have a smooth interior and annular exterior corrugations.

- 4 – through 10 – inch (100 to 250 mm) shall meet AASHTO M252
- 12- through 24-inch (300 to 600 mm) shall meet AASHTO M294, Type S or ASTM F2306.
- Manning’s “n” value for use in design shall be 0.012.

Joint Performance

Pipe shall be joined with the N-12 WT Series 35 joint meeting the requirements of AASHTO M252, M294 or ASTM F2306.

The 4- through 24-inch (100 to 600 mm) pipe shall be watertight according to the requirements of ASTM D3212. Gaskets shall meet the requirements of ASTM F477. Gaskets shall be installed by the pipe manufacturer and covered with a removable wrap to ensure the gasket is free from debris. A joint lubricant available from the manufacturer shall be used on the gasket and bell during assembly.

Bells shall be bell-bell couplers manufactured from PVC. Bell-bell couplers shall be installed on one side by the manufacturer.

Fittings

Fittings shall conform to AASHTO M252, M294 or ASTM F2306. Fabricated fittings shall be welded at all accessible interior and exterior junctions.

Material Properties

Virgin material for pipe and fitting production shall be high-density polyethylene conforming with the minimum requirements of cell classification 424420C for 4- through 10-inch (100 to 250 mm) diameters, and 435400C for 12- through 24-inch (300 to 600 mm) diameters, as defined and described in the latest version of ASTM D3350, except that carbon black content should not exceed 4%. The 12- through 24-inch (300 to 600 mm) virgin pipe material shall comply with the notched constant ligament-stress (NCLS) test as specified in Sections 9.5 and 5.1 of AASHTO M294 and ASTM F2306 respectively.

Bells shall be manufactured from PVC pipe stock, utilizing a thermo-molding process to reform the pipe stock to the specified coupler. The pipe stock used to manufacture the bell-bell coupler shall meet the performance requirements for fabricated fittings as specified in ASTM D3034.

Installation

Installation shall be in accordance with ASTM D2321 and ADS’s published installation guidelines, with the exception that minimum cover in trafficked areas for 4- through 24-inch (100 to 600 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 90%) material. Maximum fill heights depend on embedment material and compaction level; please refer to Technical Note 2.01. Contact your local ADS representative or visit our website at www.ads-pipe.com for a copy of the latest installation guidelines.

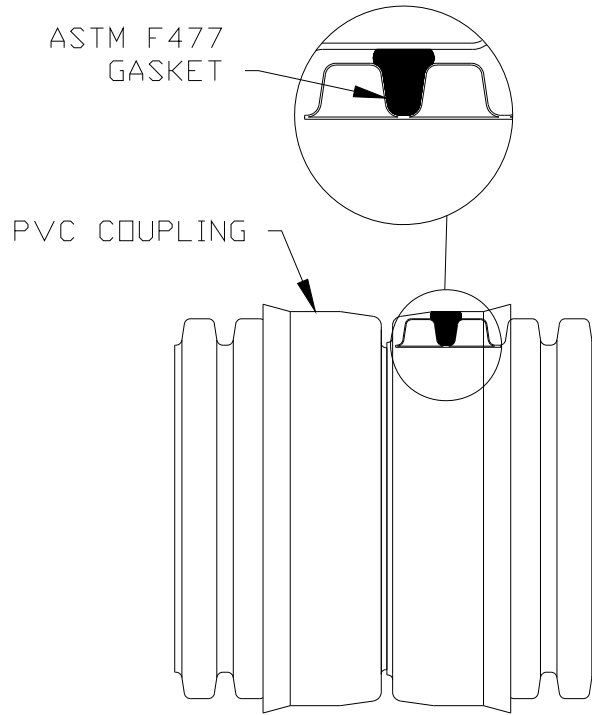
Pipe Dimensions

| | Nominal Diameter, in (mm) | | | | | | | |
|-----------------------|---------------------------|--------------|--------------|---------------|---------------|-------------|-------------|-------------|
| Pipe I.D. in (mm) | 4 (100) | 6 (150) | 8 (200) | 10 (250) | 12 (300) | 15 (375) | 18 (450) | 24 (600) |
| Pipe O.D.* in (mm) | 4.8 (122) | 6.9 (175) | 9.1 (231) | 11.4 (290) | 14.5 (368) | 18 (457) | 22 (559) | 28 (711) |

*Pipe O.D. values are provided for reference purposes only, values stated for 12- through 60-inch are ± 1 inch. Contact Applications Engineering for exact values.

N-12[®] WT SERIES 35 JOINT SYSTEM

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



4" - 24"
(100-600 MM)