

N-12[®] HDPE WT IB Pipe (CSA B182.6)

N-12 WT IB pipe (per CSA 182.6) is a gravity-flow, watertight pipe, which is available in a range of diameters from 200-900 mm (8"-36"). The pipe is third-party verified to meet 100 kPa (14.5 psi) laboratory pressure and vacuum testing requirements. N-12 WT IB pipe is certified to meet CSA B182.6 requirements.

N-12 WT IB pipe incorporates patented technology to provide a watertight joint. This revolutionary coupling system maintains bell dimension after installation, providing uniform tolerances to ensure the highest consistent performance found in the corrugated pipe industry.

Applications

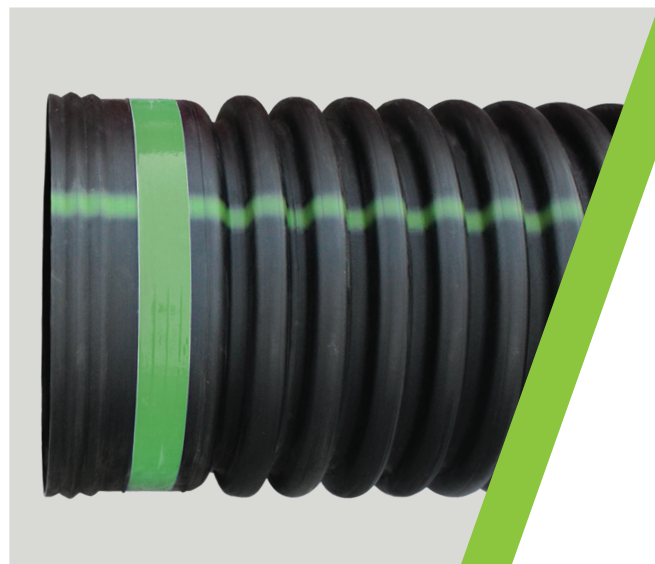
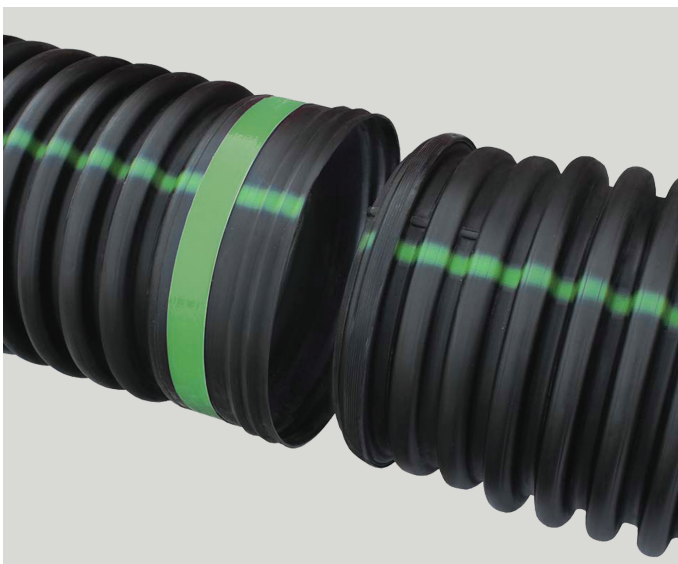
- Storm sewers
- Retention & detention systems
- Ditch enclosures
- Culverts & cross drains
- Slope & edge drains
- Mining, forestry & industrial

Features

- 200-900 mm (8"-36") diameters available
- Available in 6.1 m (20') lengths, resulting in fewer joints
- Certified to meet CSA B182.6
- Meets 100 kPa (14.5 psi) water pressure and vacuum lab testing requirements
- HS-25, HL-93 and CL-625 (highway traffic loads) rated with a minimum of 0.3 m (1') of cover

Benefits

- Fast bell-and-spigot join assembly
- Bell reinforcement provides uniform support not found in the corrugated HDPE pipe industry
- Avoids possible infiltration of sands and fines resulting in sinkholes and differential settlement to adjacent structures



N-12 HDPE WT IB (CSA B182.6) Pipe Specification

Scope

This specification describes 200 to 900 mm (8- through 36-inch) N-12 WT IB (per CSA B182.6) pipe for use in gravity-flow drainage applications.

Pipe Requirements

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

- 200 to 900 mm (8- through 36-inch) shall be certified by an accredited certification body to meet CSA B182.6
- 200 to 900 mm (8- through 36-inch) shall meet a minimum pipe stiffness of 320 kPa (46.4 psi) 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 bell & spigot joint meeting the 100 kPa (10.5 psi) joint requirements of CSA B182.6.

200 to 900 mm (8- through 36-inch) shall be watertight according to the requirements of CSA B182.6. Gaskets shall be made of polyisoprene meeting the requirements of ASTM F477. Gaskets shall be installed by the pipe manufacturer and covered with a removable, protective 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.

200 to 900 mm (8- through 60-inch) diameters shall have an exterior bell wrap installed by the manufacturers.

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 production shall be high-density polyethylene conforming with the minimum requirements of cell classification 435400C for 200 to 900 mm (8-36 inch) diameters, as defined and described in the latest version of ASTM D3350, except that carbon black content should not exceed 3%. The virgin pipe material shall comply with the notched constant ligament stress (NCLS) test as described in clause 8.5 of CSA B182.6. The average failure time of the five test specimens shall exceed 41 hours with no single test specimen's failure time less than 29 hours.

Installation

Installation shall be in accordance with CSA B182.11 and ADS published installation guidelines with the exception that minimum cover in trafficked areas for 200 to 900 mm (8-36 inch) diameters shall be 0.3 m (1 ft.). Backfill for minimum cover situations shall consist of Class I, Class II (minimum 90% SPD) or Class III (minimum 95% SPD) material. Maximum fill heights depend upon embedment material and compaction level; please refer to Technical Note 2.01C. Contact your local ADS representative or visit our website www.adspipe.ca for a copy of the latest installation guidelines..

Pipe Dimensions*

Pipe I.D. mm (in)	200 (8)	250 (10)	300 (12)	375 (15)	450 (18)	525 (21)	600 (24)	750 (30)	900 (36)
Pipe O.D. mm (in)	231 (9.1)	290 (11.4)	368 (14.5)	457 (18.0)	559 (22.0)	622 (24.5)	711 (28.0)	914 (36.0)	1067 (42.0)
Minimum Pipe Stiffness kPa (psi)	320 (46.4)	320 (46.4)	320 (46.4)	320 (46.4)	320 (46.4)	320 (46.4)	320 (46.4)	320 (46.4)	320 (46.4)

*Check with sales representative for availability by region. **Pipe O.D. values are provided for reference purposes only, values stated for 12- through 60-inch are ±1 inch. Contact a sales representative for exact values.

