

N-12® PLAIN END PIPE (PER CSA B182.8)

N-12 corrugated dual wall pipe was introduced by ADS Canada in 1987 and today's N-12 ST IB pipe offers significant performance advantages. Available in diameters from 100 - 750 mm (4"-30"), N-12 pipe is replacing traditional materials as a preferred product.

The development of large diameter pipe is only one example of ADS Canada's commitment to providing superior products and improved performance. Our HDPE pipe delivers superior value while providing physical strength and structural design that cannot be matched by traditional materials.

APPLICATIONS:

Culverts/Cross Drains	Retention/Detention Systems
Slope/Edge Drains	Storm Sewers
Golf, Turf & Recreation	Parking Lot Drainage
Foundation Drains	Mining/Forestry/Industrial

FEATURES:

- Available in 6.1 m (20') lengths, resulting in fewer joints - pipe can easily be cut to the desired lengths in the field
- 100 mm - 750 mm (4"-30") diameters available
- Certified to meet Canadian Standards Association B182.8, Type 3, soil-tight joint performance requirements
- Available pipe stiffness of 210 kPa or 320 kPa at 5% deflection per CSA B182.8
- HS-25, HL-93 & CL-625 (highway traffic loads) rated with a minimum of 0.3 m (12") of cover for 100-750 mm (4"-30") diameters



BENEFITS:

- Easy-to-handle, safe, lightweight pipe requires less labor and equipment for faster installation and reduced costs
- Superior hydraulics - smooth interior will ensure no debris or sediment build-up
- Provides superior resistance to chemicals, road salts, motor oil and gasoline - will not rust, deteriorate or crumble
- Withstands repeated freeze/thaw cycles and continuous subzero temperatures
- Coupling bands are available



Internal Coupler



External Coupler

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



ADS CANADA N-12® PLAIN END PIPE (PER CSA B182.8) SPECIFICATION

SCOPE

This specification describes 100 to 1500 mm (4- through 60-inch) ADS Canada N-12 plain end pipe (per CSA B182.8) for use in gravity-flow drainage applications..

PIPE REQUIREMENTS

ADS Canada N-12 plain end pipe (per CSA B182.8) shall have a smooth interior and annular exterior corrugations.

- 100 to 1500 mm (4- through 60-inch) shall be certified by an accredited certification body to meet CSA B182.8
- 100 to 900 mm (4- through 36-inch) shall meet a minimum pipe stiffness of 320 kPa (46.4 psi) or 210 kPa (30.5 psi) where applicable when tested in accordance with ASTM D 2412
- 1050 to 1500 mm (42- through 60-inch) shall meet a pipe stiffness requirement that is variable based on the diameter when tested in accordance with ASTM D 2412. Minimum requirements are provided within CSA B182.8
- Manning's "n" value for use in design shall be 0.012

JOINT PERFORMANCE

Pipe shall be joined with coupling bands covering at least two full corrugations on each end of the pipe. The joint shall meet or exceed the soil-tight Type 3 requirements of CSA B182.8. Gasketed connections, when applicable, shall incorporate a closed cell synthetic expanded rubber gasket meeting the requirements of ASTM D1056, Grade 2A2. Gaskets, when applicable, shall be installed by the pipe manufacturer.

MATERIAL PROPERTIES

Virgin material for pipe production shall be high density polyethylene conforming with the minimum requirements of cell classification 435400C for 100 to 1500mm (4- through 60-inch) diameters, as defined and described in the latest version of ASTM D3350, except that carbon black content should not exceed 4%. The virgin pipe material shall comply with the notched constant ligament stress (NCLS) test as described in clause 8.5 of CSA standard B182.8. The average failure time of the 5 test specimens shall exceed 24 hours with no single test specimen's failure time less than 17 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 100 to 1200 mm (4- through 48-inch) diameters shall be 0.3 m (1 ft.) and for 1350 and 1500 mm (54- and 60-inch) diameters shall be 0.6 m (2 ft) in single run applications. Backfill for minimum cover situations shall consist of Class 1, Class 2 (minimum 90% SPD), or Class 3 (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 at www.ads-pipecanada.com for a copy of the latest installation guidelines.

PIPE DIMENSIONS

Pipe I.D., mm (in.)	100 (4)	150 (6)	200 (8)	250 (10)	300 (12)	375 (15)	450 (18)	525 (21)	600 (24)	750 (30)	900 (36)	1050 (42)	1200 (48)	1350** (54)	1500 (60)
Pipe O.D.,* mm (in.)	122 (4.8)	175 (6.9)	231 (9.1)	290 (11.4)	368 (14.5)	457 (18)	559 (22)	622 (24.5)	711 (28)	914 (36)	1067 (42)	1219 (48)	1372 (54)	1549 (61)	1702 (67)
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)	320 (46.4)	320 (46.4)	140 (20)	125 (18)	110 (16)	95 (14)

*Pipe O.D. values are provided for reference purposes only, values stated for 300-1500 mm are ± 25 mm. Contact a sales representative for exact values.

**Check with sales representative for availability by region and ordering.

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