

Technical Data

Scope

This specification describes 100 mm - 900 mm (4" - 36") diameter Hi-Flo HDPE Duo pipe for use in gravity-flow drainage applications.

Pipe Requirements

Hi-Flo HDPE Duo pipe is manufactured with a smooth interior wall and a corrugated exterior certified to the requirements of CSA B182.8. It has a stiffness of 320 kPa measured at a 5% deflection when tested in accordance with ASTM D2412. It also has a Manning's 'n' value of 0.012. Hi-Flo HDPE Duo pipe is also available in 210 kPa stiffness, which is ideal for forestry applications.

Material Properties

Hi-Flo HDPE Duo pipe is manufactured from high-density polyethylene (HDPE) resin, conforming with the minimum cell classification of 435400C, as defined in the latest version of the ASTM D3350 standard.

Pipe Dimensions

The nominal pipe size is referenced based on the inside diameter. The tolerance of the stated values of inside diameter is +3% / -1.5%.

Pipe Nominal Inside Diameter	100	150	200	250	300	375	450	600	750	900
mm (in)	(4)	(6)	(8)	(10)	(12)	(15)	(18)	(24)	(30)	(36)
Pipe Outside Diameter	114	174	237	296	355	442	536	706	888	1071
mm (in)	(4.5)	(6.8)	(9.3)	(11.7)	(14)	(17.4)	(21.1)	(27.8)	(35)	(42.2)

Pipe length

Standard pipe lengths are 6 m and are at a minimum of 99% of the stated length. Pipe lengths of 7.3 m and 9 m are also available upon request.

Joint Performance

Pipes connect with an external coupler overlapping a minimum of two full corrugations on each pipe for soil-tight connections, meeting the requirements of CSA B182.8 Type 3. The joint provides sufficient longitudinal strength to preserve the pipe alignment and prevent separation of the joints.

Installation

Installation of Hi-Flo HDPE Duo pipe is to be in accordance with the standard CSA B182.11 or AIL installation recommendations. Please contact a Sales Representative for installation recommendations.