

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 to meet the requirements of CSA B182.8 and BNQ 3624-120. It has a minimum stiffness of 320kPa 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%. All diameters of pipe are available with or without perforations and filter sock and available in multiple perforation sizes and configurations. Please contact a sales representative for more information.

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	173	237	296	355	442	532	706	888	1065
mm (in)	(4.5)	(6.8)	(9.3)	(11.7)	(14)	(17.4)	(21)	(27.8)	(35)	(41.9)

Pipe length

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

Joint Performance

Pipes connect with an external split coupler overlapping a minimum of two full corrugations on each pipe for soil-tight connections, meeting the requirements of CSA B182.8 Type 3 and BNQ 3624-120. 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. Please contact a Technical Sales Representative for installation recommendations.