

Technical Data

Scope

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

Pipe Requirements

Hi-Flo HDPE Duo Tite pipe is manufactured with a smooth interior wall and a corrugated exterior to meet the requirements of CSA B182.6, 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. Hi-Flo HDPE Duo Tite pipe has a Manning's 'n' value of 0.012.

Material Properties

Hi-Flo HDPE Duo Tite 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 when conforming to CSA B182.8 and BNQ 3624-120. Pipe with perforations does not conform to CSA B182.6. 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.

Joint Performance

Pipes connect by a bell-and-spigot joint which is lab tested to meet the 100 kPa water pressure and vacuum joint requirements of CSA B182.6. The bell-and-spigot joint also meets the requirements of CSA B182.8 Type 1 and BNQ 3624-120 watertight joints, when tested in accordance with ASTM D3212. Gaskets are used to create the watertight joints and are supplied with a protective wrap to prevent debris from getting on the gaskets prior to installation. Joint lubricant will be supplied by the manufacturer for use in the installation process.

Installation

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