

# **BOSS Poly-tite Specification**

# **SCOPE**

This specification covers the requirements of 100 mm to 900 mm nominal inside diameter Classic profile and 300 mm to 900 mm nominal inside diameter Modern profile corrugated high density polyethylene dual-wall pipe with a smooth interior wall and annular exterior corrugations for gravity-flow drainage applications.

#### **MATERIALS**

Pipe shall be manufactured from high density polyethylene resin, which shall meet or exceed the requirements of CSA B182.6.

#### PIPE DIMENSIONS

The nominal pipe size (NPS) is based on the nominal inside diameter of the pipe. The outside diameters should be specified for manhole/catch basins to accommodate the pipe. Perforated pipe and filter cloth are available on special order and may vary by region.

#### **PIPE STIFFNESS**

The Classic and Modern profile pipe shall have a minimum pipe stiffness of 320 kPa, meeting CSA B182.6.

# Classic Profile

Nominal Pipe Size (mm)	100	150	200	250	300	375	450	525	600	750	900
Outside Diameters (mm)	120	177	234	292	361	444	540	627	726	895	1087
Pipe Stiffness (kPa)	320	320	320	320	320	320	320	320	320	320	320
					210	210	210	210	210	210	210

# **Modern Profile**

Nominal Pipe Size (mm)	300	375	450	525	600	750	900
Outside Diameters (mm)	353	439	535	622	700	878	1064
Dina Stiffmass (I/Da)	320	320	320	320	320	320	320
Pipe Stiffness (kPa)	210	210	210	210	210	210	210

#### STOCKED LENGTHS

Standard pipe lengths shall be 6 m or as requested by the Engineer.

#### **JOINTS**

Joint options are outlined in the following table. Ultra Stab 100 is lab tested to 100 kPa in accordance with ASTM D3212, meeting the requirements of CSA B182.6. Styrene-Butadiene Rubber (SBR) or Thermoplastic Elastomer (TPE) gaskets shall be incorporated into the system with lubricant supplied by the manufacturer.

# **Nominal Pipe Size and Connection Type Options**

Connection Type	CSA	BNQ Standard	Joint Type	Nominal Pipe Size (mm)										
	Standard			100	150	200	250	300	375	450	525	600	750	900
Ultra-Stab 100 (standard bell & gasketed plain end)	B182.6	_	Watertight	•	•	•	•	•	•	•	•*	•	•*	
<b>Note:</b> For Classic profile and all standard bell fittings with a gasket. A different gasket is required for 525 mm and 750 mm pipe sizes for Classic and Modern profiles.														
Ultra-Stab 100 (in-line bell & in-line	B182.6	_	Watertight					•	•	•	•	•	•	•

Note: For Modern profile only. BOSSLock in-line double-wall (DW) bell and super extended spigot from 300 – 525 mm pipe sizes, and in-line DW bell with standard spigot from 600 – 900 mm pipe sizes.

#### **HYDRAULICS**

gasketed spigot)

The pipe shall have a Manning's 'n' value of 0.012 at a flow velocity of 0.75 m/s.

#### **RETEST AND REJECTION**

If any failure to conform to these specifications occurs, the pipe or fittings may be retested to establish conformity in accordance with the agreement between the purchaser and the seller.

# **APPLICABLE STANDARDS**

CSA B182.6, OPSS 410, OPSS 421, OPSS 1840, OPSD 806.02, BC MoT SS-31.



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