



# Haviland Drainage Products Co.

## SMOOTH-FLOW ASTM F-2648 WT 10.8 PIPE SPECIFICATIONS

Diameter:	4"-60" (100-1500mm)
Length:	20' Sections
Joint System:	Bell & Spigot
Joint Performance:	Watertight
Gasket:	meeting or exceeding ASTM F477
Specifications:	ASTM D3350, ASTM F477, ASTM D3212, ASTM F2648, ASTM F405, ASTM F667



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### Description

This specification includes Haviland Smooth-Flow WT 10.8 dual wall pipe, diameters 4"-60" (100-1500mm), for use in non-pressure gravity flow applications, including storm sewers, culverts, highway drains, and various other gravity flow drainage applications.

### Pipe Requirements

Smooth-Flow F-477 pipe meets or exceeds specifications set forth in ASTM F667/F405 and meets ASTM F2648 structural and cell class requirements.

### Material Properties

Raw materials used in the manufacture of Smooth-Flow F-477 pipe and fittings are high density polyethylene conforming to the requirements of ASTM D3350, with a minimum cell class of 424420C (4" thru 10"), and 435420C (12" thru 60").

### Joint Performance

Smooth-Flow WT 10.8 pipe is joined with a bell & spigot joint system, made watertight by compressing a rubber gasket between the bell and spigot ends of the pipe. The gasket conforms to the requirements of ASTM F477. This joint system is pressure tested to 10.8 psi in accordance with the requirements of ASTM D3212. Gaskets are installed before shipment and protected by a removable plastic wrap. During pipe installation and joint assembly, a joint lubricant is to be used. This lubricant is available from Haviland Drainage Products Co.

