



REPLACING OUR INFRASTRUCTURE

Member of The Plastic Pipe Institute (www.plasticpipe.org)



Scope	THIS SPECIFICATION DESCRIBES 42" (1050MM) INTERNAL DIAMETER CORRUGATED HIGH-DENSITY POLYETHYLENE SMOOTH-INTERIOR GRAVITY-FLOW DRAINAGE PIPE MANUFACTURED UNDER CONTROLLED CONDITIONS AT BTC.
Design	THE PIPE DESIGN SHALL CONSIST OF A SMOOTH INTERIOR LINER BONDED/WELDED TO AN ANNULAR CORRUGATED EXTERIOR. THE PURPOSE OF THIS DESIGN IS FOR SUPERIOR STRENGTH PROPERTIES AND FLOW CHARACTERISTICS OVER ANNULAR CORRUGATED PIPE.
Applicable Standards	• ASTM F667: STANDARD SPECIFICATION FOR LARGE DIAMETER CORRUGATED POLYETHYLENE PIPE & FITTINGS • ASTM F477: STANDARD SPECIFICATION FOR ELASTOMERIC SEALS (GASKETS) FOR JOINING PLASTIC PIPE • ASTM D3350: STANDARD SPECIFICATION FOR POLYETHYLENE PLASTICS PIPE AND FITTINGS MATERIALS • AASHTO M294 (TYPE S/SP): STANDARD SPECIFICATION FOR CORRUGATED POLYETHYLENE PIPE
Fittings	BAUGHMAN TILE CO. STOCKS A COMPLETE LINE OF DUAL WALL FABRICATED FITTINGS. ALL FITTINGS, WHERE ACCESSIBLE, SHALL BE WELDED ON THE INTERIOR AND EXTERIOR AT ALL JUNCTIONS. FOR A COMPLETE LIST OF STANDARD FITTINGS, PLEASE CONSULT OUR PRODUCT CATALOG.
Joint Performance	WHERE SPECIFIED, THE PIPE MAY BE JOINED WITH THE BTC IN-LINE BELL-AND-SPIGOT JOINING SYSTEM. THE JOINT SHALL BE SILT-TIGHT AND NON-RATED WATERTIGHT ACCORDING TO AASHTO M294. SILT-TIGHT JOINTS SHALL MEET LABORATORY TEST PER ASTM D3212 EXCEPT THAT THE JOINT BE TESTED USING 2 PSI (14KPA). GASKETS SHALL BE MADE OF POLYISOPRENE MEETING THE REQUIREMENTS OF ASTM F477. GASKETS SHALL BE INSTALLED BY BTC AND COVERED WITH REMOVABLE WRAP TO ENSURE THE GASKET IS FREE FROM DEBRIS. A JOINT LUBRICANT SHOULD BE USED DURING ASSEMBLY (PLEASE CONSULT BTC JOINT ASSEMBLY INSTRUCTIONS).
Installation	INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321, CPPA GUIDELINES, AND BTC INSTALLATION INSTRUCTIONS. *MINIMUM COVER IN TRAFFICKED AREAS SHALL BE AT LEAST ONE FOOT (0.3M)
Perforations	AVAILABLE WITH OR WITHOUT PERFORATIONS
Pipe I.D.	42.00 inches approx.
Pipe O.D.	48.20 inches approx.
Bell O.D.	47.70 inches approx.
Spigot O.D.	46.60 inches approx.
Inner Liner Thickness	1.8 mm min.
Pitch	5.20 inches approx.
Pipe Lengths Available	Bell-and-spigot 20.75' only
Weight	29.0 lbs. per foot
Pipe Stiffness	20 psi min. @ 5% deflection according to AASHTO
Nominal Flow Area	1385.50 square inches
Mannings "n" value	0.010 to 0.012



Our Poly Smooth-Line® dual wall pipe has been certified by the Texas Research International Company in a program sponsored by the *Corrugated Polyethylene Polyethylene Pipe Association*, a division of the *Plastics Pipe Institute*. The testing program certifies products, and resins, that exceed specifications set forth in AASHTO M294 and MP7.