



HDPE Pipe Specifications

Pacific Corrugated Pipe Company has been leading the drainage industry since 1935.

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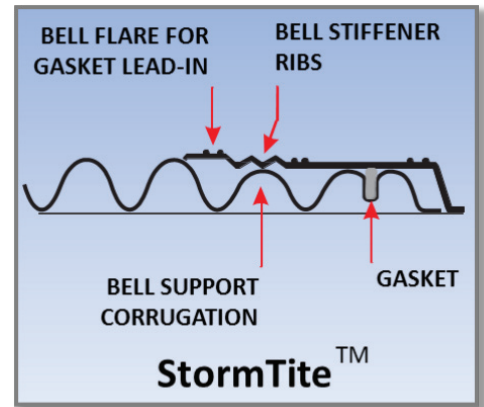


HDPE CORRUGATED PLASTIC PIPE

Pacific Corrugated Pipe Company's HDPE (High Density Polyethylene) pipe is a heavy-duty pipe for storm sewers, culverts, storm water storage, and water quality applications. Pacific Corrugated Pipe manufactures our StormTite™ brand utilizing both recycled and virgin resins in both type C - single wall with a corrugated interior and exterior, and Type S - double wall with a corrugated exterior and a smooth interior wall. We supply sizes to the market ranging from 4" to 60" in diameter. Both solid and perforated pipe are available. Type-S pipe is available with a plain end or an integral bell and spigot system. All other product specifications are listed on the back of this sheet.

StormTite™ Bell and Spigot

StormTite™ 10.8 psi bell and spigot joint systems for Type S pipe has been certified by independent third party laboratories to meet the "watertight" requirements defined in ASTM D-3212. This system eliminates the need for separate couplers without giving up strength or superior hydraulic flow.



Specifications

Products produced by Pacific Corrugated Pipe Co. ("PCP") are marked with the relevant applicable standards to which they conform. Listed below are specifications commonly used within the corrugated HDPE pipe industry. Specifications can have multiple editions and are revised from time to time. The markings on pipe products indicate conformance to the latest edition and revisions of such standards as of the date of production.

AASHTO M 252 - Standard Specification for Corrugated Polyethylene Drainage Pipe 3"-10" (75mm to 250mm)

AASHTO M 294 - Standard Specification for Corrugated Polyethylene Pipe, 12"-60" (300mm to 1500mm)

ASTM F 405 - Standard Specification for Corrugated Polyethylene (PE) Pipe and Fittings, 3"-6"

ASTM F 667 - Standard Specification for 8 through 24 inch Corrugated Polyethylene Pipe and Fittings

ASTM F 2306 - Standard Specification for 12 to 60 inch (300mm to 1500 mm) Annular Corrugated Profile-Wall Polyethylene Pipe and Fittings for Gravity-Flow Storm Sewer and Subsurface Drainage Applications

ASTM F 2648 - Standard Specification for 2 to 60 inch (50 to 1500mm) Annular Corrugated Profile Wall Polyethylene (PE) Pipe and Fittings for Land Drainage Applications (virgin and recycled resins)

ASTM D 2321 - Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications

ASTM D 3350 - Standard Specification for Polyethylene Plastics Pipe and Fittings Materials

ASTM F 477 - Standard Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe

ASTM D 3212 - Standard Specification for Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals

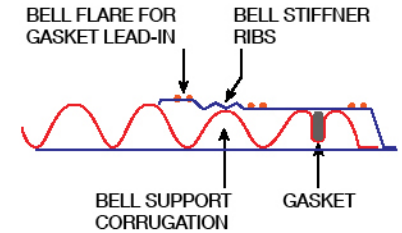
There are many other national and local standards that may be applicable to corrugated polyethylene pipe products. We welcome your questions about the specifications listed above or other related specifications.

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CORRUGATED PLASTIC



StormTite™, our 10.8 psi bell and spigot joint system has been certified by independent third party laboratories to meet “watertight” requirements defined in AASHTO M-294 and all applicable ASTM specifications including ASTM-3212. This system eliminates the need for separate couplers without giving up strength or superior hydraulic flow. This ease of installation of StormTite™, combined with its light weight and longer sections, ensures project savings over heavier materials such as reinforced concrete pipe (RCP). Using Pacific Corrugated HDPE pipe can lower your overall project construction costs as a result from the utilization of smaller crews, faster installation, easier handling of lightweight pipe and smaller equipment.



StormTite™

Sizes in the following tables outline our entire product line of pipe that are available with a plain end or integral bell and spigot joint system for pressure applications:

Dual-Wall (Type S) Bell and Spigot Style Specification Chart

Nominal Inside Diameter (Inches)	Outside Diameter (Inches)	Minimum Wall Stiffness (psi)	Minimum Wall Thickness (Inches)	Lengths (Feet)	Weight (lbs./ft.)	Solid, Perforated or Both	Perforation Class 1,2 or Both*
4	4.7	34.0	0.002	20	0.5	Both	Class 2 Slotted
6	6.9	34.0	0.002	20	1.0	Both	Class 2 Slotted
8	9.4	50.0	0.025	20	1.6	Both	Class 2 Slotted
10	11.8	50.0	0.025	20	2.5	Both	Class 2 Slotted
12	14.5	50.0	0.035	20	3.3	Both	Both
15	17.5	42.0	0.040	20	4.9	Both	Both
18	21.5	40.0	0.050	20	6.5	Both	Both
24	27.9	34.0	0.060	20	11.4	Both	Both
30	35.7	29.0	0.060	20	15.0	Both	Both
36	42.1	22.5	0.070	20	19.6	Both	Both
42	48.2	21.0	0.070	20	26.2	Both	Both
48	54.3	20.0	0.070	20	34.5	Both	Both
60	Call	Call	Call	20	Call	Both	Both

Note- 36" HDPE pipe will not nest into 42" pipe; 42" HDPE pipe will not nest into 48" pipe.

Class 1 Perforations (uncommon)

The rows of perforations shall be arranged in two equal groups placed symmetrically on either side of the lower side of the unperforated pipe below the spring line on the outside valleys of the corrugations.

Intended use, subsurface drainage or combination storm and under drain.

Class 2 Perforations (common)

The rows of perforations are evenly spaced for each diameter around the entire circumference on the outside valleys of the corrugations.

Intended use, subsurface drainage only.

Dual-Wall (Type S) Plain End Specification Chart

Nominal Inside Diameter (Inches)	Outside Diameter (Inches)	Minimum Wall Stiffness (psi)	Minimum Wall Thickness (Inches)	Lengths (Feet)	Weight (lbs./ft.)	Solid, Perforated or Both	Perforation Class 1,2 or Both*
8	9.4	50.0	0.025	20	1.6	Both	Class 2 Slotted
10	11.8	50.0	0.025	20	2.5	Both	Class 2 Slotted
12	14.5	50.0	0.035	20	3.3	Both	Both
15	17.5	42.0	0.040	20	4.9	Both	Both
18	21.5	40.0	0.050	20 & 30	6.5	Both	Both
24	27.9	34.0	0.060	20 & 30	11.4	Both	Both
30	35.7	29.0	0.060	20 & 30	15.0	Both	Both
36	42.1	22.5	0.070	20 & 30	19.6	Both	Both

Single-Wall (Type C) Plain End Specification Chart

Nominal Inside Diameter (Inches)	Outside Diameter (Inches)	Minimum Wall Stiffness (psi)	Minimum Wall Thickness (Inches)	Lengths (Feet)	Weight (lbs./ft.)	Solid, Perforated or Both	Perforation Class 1,2 or Both*
3	Call	Call	Call	100	Call	Both	Class 2 Slotted
4	4.7	30/25**	0.002	100/250	0.325	Both	Class 2 Slotted
6	6.9	30/25**	0.002	100	0.760	Both	Class 2 Slotted
8	9.4	50	0.025	20	1.275	Both	Class 2 Slotted
10	11.8	50	0.025	20	1.935	Both	Class 2 Slotted
12	14.5	50	0.035	20	2.635	Both	Both
15	17.5	42	0.040	20	4.450	Both	Both
18	21.5	40	0.050	20	5.400	Both	Both
24	27.9	34	0.060	20	9.250	Both	Both

** -30psi = 5% deflection; 25psi = 10% deflection