
DWPP

Dual-Wall Pipe



Storm Drains, Road Culverts, Underdrains, Drain Outlets

Springfield Plastics, Inc. Dual Wall Polyethylene Pipe combines a corrugated outer wall for exceptional strength and a smooth inner wall for outstanding hydraulic characteristics. The pipes primary use is to convey water for underground non pressure applications. (i.e. septic tanks, storm sewers, industrial wastewater, highway underdrains, drainage outlets, roadway culverts) Other uses include underground conduits. (i.e. telephone, electrical, television cable)



Springfield Plastics, inc.

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Strength: DWP has a corrugated outer wall with a smooth inner wall which gives the pipe superior strength as shown in Table 1 . This allows the DWP to be buried as shallow as 1 foot and as deep as 29 feet with Class III backfill compacted to 90% Standard Proctor Density.

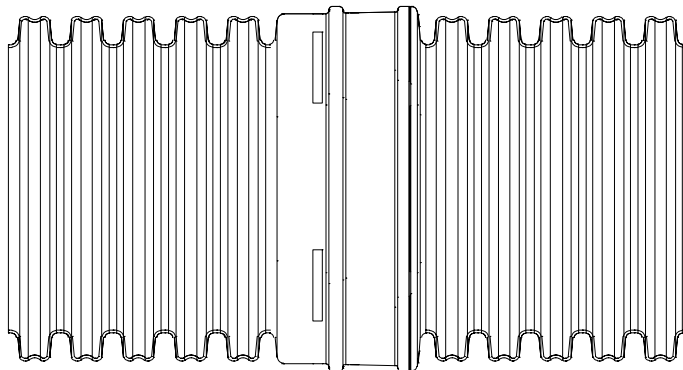
Hydraulics: DWP has a smooth inner wall which gives the pipe superior hydraulics. This gives the pipe up to 50% more capacity than corrugated steel and significantly more capacity than reinforced concrete pipe. Table 2 shows the pipe coefficients in Manning’s “n” values. With these superior hydraulics the pipe system may be downsized compared to traditional materials.

Table 1

Pipe Diameter	Minimum Pipe Stiffness DWP	Minimum Pipe Stiffness SDR35 - PVC
4"	50 psi	46 psi
6"	50 psi	46 psi
8"	50 psi	46 psi
10"	50 psi	46 psi
12"	50 psi	46 psi
15"	42 psi	46 psi
18"	40 psi	46 psi
21"	37 psi	46 psi
24"	34 psi	46 psi

Table 2

Pipe Coefficients in Manning’s “n” Values			
Pipe Diameters in.	DWP	Concrete Pipe	Corrugated Metal Pipe
4,6,8,10,12 15,18,21,24	.010 - .012	.011 - .015	.022 - .026



Dual Wall Pipe With Inline Bell Coupler



Quality you can depend on . . .

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Installation: Installation of DWP should be easier because DWP is lighter in weight than traditional materials. For example 12” DWP weighs 3.4 lbs. per foot compared to 10.5 lbs. For corrugated metal and 79 lbs. for concrete. In some cases this means you can use smaller equipment.

DWP can be coupled together with split couplers or snap couplers. 12”, 15”, 18”, 21” and 24” DWP also has belled ends on the pipe.