

# Pipe A-42

# Polyethylene Culvert and Drain Pipe



## Corrugated Pipe

Corrugated polyethylene tubing is structurally designed to be used as culvert pipe and for other heavy duty drainage applications. This pipe meets the toughest requirements and is approved by most state departments of transportation, and many county and local regulatory agencies.

### Applicable Specifications:

- ASTM F 405, Standard Specification for Corrugated Polyethylene Tubing and Fittings.
- ASTM F 667, Standard Specification for 8", 10", 12", and 15" Corrugated Polyethylene Tubing.
- 4"-10" AASHTO M 252, Type C and 12"-24" M 294, Type C Standard Specification for Polyethylene Corrugated Drainage Tubing.

PIPE SIZE	LGTH	PRODUCT NUMBER	
		SOLID	PERFORATED
4"	100'	78210	78205
4"	250'	78208	78215
6"	100'	78218	78219 1
6"	20'	78220	78225
8"	20'	78230	78235
10"	20'	78240	78245
12"	20'	78250	78256
15"	20'	78260	78260 1
18"	20'	78270	78275
24"	20'	78280	78276
DESCRIPTION		PRODUCT NUMBER	
4" x 100' Perforated Pipe w/Sock		78205 2	
4" x 250' Perforated Pipe w/Sock		78216 1	
6" x 100' Perforated Pipe w/Sock		78227	
6" x 20' Perforated Pipe w/Sock		78226	

### Installation Recommendations:

- Crushed stone, gravel or compacted soil backfill should be used as bedding and envelope material around the culvert. Aggregate size should not exceed one inch.
- Corrugated pipe should be laid to grade, on a layer of bedding material. If native soil is used for bedding and backfill material, it should be well compacted in six inch layers under the haunches, around the sides and above the pipe to the recommended minimum height of cover.
- Either flexible (asphalt) or rigid (concrete) pavement may be laid as part of the minimum cover requirements.
- Site conditions and availability of bedding materials often dictate the method of installation.
- Load bearing capability of flexible conduit is dependent upon the type of backfill material used and the degree of compaction achieved. Crushed stone and gravel backfill material typically reach a compaction level of 90-95% AASHTO standard density without compaction. When native soils are used as backfill material, a compaction level of 85% is required. This is the same minimum compaction that is recommended by all culvert pipe manufacturers and can be achieved by either hand or mechanical tamping.

## Couplings

CPLG. SIZE	PRODUCT NUMBER	
	SNAP CPLG.	INTERNAL CPLG.
4"	78290	78291
6"	78325	78323
8"	78361	78359
10"	78377	—
12"	—	—
15"	—	—
18"	—	—
24"	—	—
CPLG. SIZE	PRODUCT NUMBER	
	SPLIT CPLG.	SPIN-ON CPLG.
4"	78292	—
6"	78326	—
8"	78360	—
10"	78375	—
12"	78390	—
15"	78405	—
18"	78420	—
24"	78435	—

### NOTES:

- Pipe covered with "Drain Guard" or "Filter Sock" is available for areas with silt problems. Call your area Team EJP sales office for availability and pricing.
- See Sec. B for Corrugated Polyethylene Drain Fittings.