



SHEET METAL CONNECTORS, INC.

www.smduct.com

MINNEAPOLIS, MN
 5850 Main Street N.E.
 Minneapolis, Minnesota 55432
 LOCALLY CALL: 763-572-0000
 TOLL FREE: 1-800-328-1966
 FAX: 763-572-1100

ROCKFORD, IL
 5601 Sandy Hollow Road
 Rockford, Illinois 61109
 LOCALLY CALL: 815-874-4600
 TOLL FREE: 1-866-504-4600
 FAX: 815-874-9979



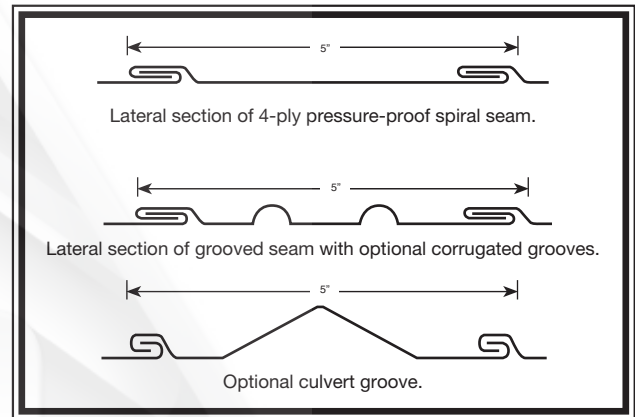
4x1 PVC for Underground Duct Systems

Sheet Metal Connectors, Inc. (SMC) PVC Underground Pipe and Fittings

with E-Z Flange and Barrel Clamp or Standard Slip Connection

Single-Wall PVC Spiral Pipe

Sheet Metal Connectors, Inc. PVC spiral pipe is formed from a coil of metal into a rigid PVC tube with a 4-ply spiral lockseam. It has smooth interior for low friction loss with the grooved seam entirely on the outside. This pipe has a resistance to crushing approximately 2 1/2 times that of longitudinal lockseam. Optional corrugations are available which increase the rigidity of the pipe by approximately 300%. Pipe sections can be joined together by an E-Z Flange with Barrel Clamp, E-Z Flange Jr. with Barrel Clamp, or Standard Spiral Pipe Connector.



Single-Wall Materials

DIAMETER	MATERIAL	THICKNESS	ASTM	TYPE	LENGTH
3" - 96"	PVS	26 - 16 gauge	A-653	4 x 1, 4 x 4	1' - 20', 10' Standard

General

The use of PVC Ductwork eliminates the need for encasing in concrete. Because no additional concrete is required, savings can be considerable. By combining the strength of steel and the chemical inertness of plastic, PVC Ductwork is lightweight as well as corrosion and weather resistant. PVC ductwork will not rust, chip, crack, peel, corrode or produce odors. Although light in weight, PVC Ductwork is strong enough to walk on and will not collapse under concrete. PVC Ductwork is specified by more engineers and architects than any other underground HVAC duct system.

Durability

PVC ductwork is a rugged, durable material that will take ordinary shipping and handling without damage. PVC ductwork needs no protection in earth from sand, concrete or plaster. It is not affected by the minerals and salts found in normal backfilling materials. PVC ductwork has also passed thousands of accelerated salt spray and humidity cabinet tests with no loss of adhesion or corrosion resistance. It can be cut and formed with regular sheet metal equipment and tools with no harm to the coating. Even the largest diameter ducts are easily cut with portable metal-cutting saber saws or circular saws.

Connections

E-Z Flange Jr. with Barrel Clamp - 6" to 24" Diameter

The E-Z flange jr. is a 5/8" flange turned out 90° on each end of the spiral pipe and fittings. The installer applies a gasket on one flange, mates the two flanges together, and attaches the barrel clamp. For field cuts a 5/8" flanged sleeve is available, cut the spiral pipe to the measured length and apply the sleeve.

*For dimensional data please refer to the E-Z Flange Specification Manual.

E-Z Flange with Barrel Clamp - 26" to 96" Diameter

The E-Z flange with barrel clamp can be factory installed or shipped loose for field installation. A set consists of two E-Z flanges and one barrel clamp. For field installation the installer attaches the E-Z flange to the pipe and fittings. Next the installer applies the gasket to one flange, mates the two flanges together and attaches the barrel clamp. SMC also installs E-Z flanges. Flanges are fastened and internally sealed on all ends of the spiral pipe and fittings.

*For dimensional data please refer to the E-Z Flange Specification Manual.

Standard Spiral Pipe Connector

Pipe to Pipe connections are made by using a fitting size coupling that slips inside the mating pipe sections, as shown. A stop bead runs around the middle of the coupling to center the coupling in the connection. Secure the connection by installing sheet metal screws through the outer shell of the duct, 1/2 inch from the stop bead.

