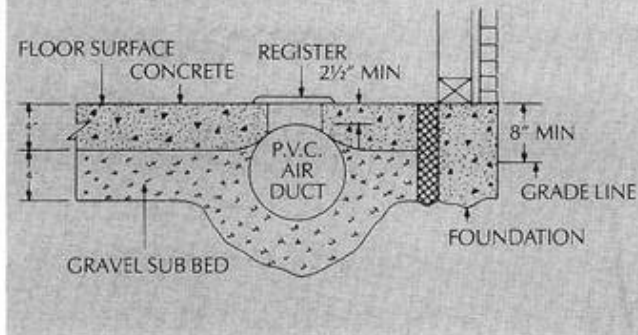




AIR HANDLING SYSTEMS

PVC Installation Guide - Underground Ducts

A Typical PVC Duct Installation Cross-Section View



INSTALL ABOVE WATER TABLE

The PVC duct system is not designed to be waterproof. Installation must be made safely above the water table. Ducts should not be placed where water infiltration may occur.

DEPTH

The top of the duct can extend into the cement, leaving a minimum of 2 1/2" of cement above the top, or the duct can be placed well below the cement. However, the duct should not be placed so deep that the weight on it will exceed the load capacities.

TRENCHING AND BACKFILL

After the excavation has been made, no special bedding need be used for PVC Duct. It can rest right on the ground,

or be set in sand or light aggregate. Pea gravel or sand (or the material taken from the trench, if equivalent) can be used to backfill. Spread the backfill material evenly around the duct making sure there are no gaps, and tamping in place is a recommended practice.

No cement is needed to fill in around the duct, since the tamped fill holds the duct in place and the plastic coating on the PCD fittings prevents ground corrosion of the galvanized steel. This plastic coating is resistant to any minerals or salts that may be in the backfill soil. PVC Duct will not "float" when backfilled to within 2" of the top of the duct. Concrete is then poured so that all "tie-down" work is eliminated.

CAUTION:

When backfilling or grading, care should be taken not to dump or push heavy loads directly on the duct, nor should heavy equipment be allowed to run over the duct. It can be crushed under thoughtless abuse.

LIMITATIONS:

1. Use PVC Ducts in underground applications only.
2. Maximum air temperature in ducts is to be 150°F.
3. Maximum recommended loading on ducts is 600 bs./linear foot.

Shipping Weights — PVC Ducts

Diameter	6"	8"	10"	12"
Lbs./Ft.	1.00	1.73	2.70	3.95

WORKING WITH PVC

Foremost PVC is a rugged, durable material that will take ordinary handling and shipping without damage. It can be easily cut with regular sheet metal tools and saws.

USE PCD FITTING

Foremost PCD fittings are available for easy, fast installation of PVC ducts or any combination of PVC and PCD ducts (see catalog #102).

CONNECTIONS

A PCD connector should always be used for connecting two sections of duct. This provides a permanently corrosion-proof joint. Use sheet metal screws every 6" around. Ends of fittings are made to slip inside duct, so where a fitting is used a connector is

not needed. All PCD fittings are accurately sized and fabricated with stainless steel fasteners.

SEALING

All joints should be wrapped to prevent air leakage and to keep dirt and sand out of the duct system. PCD Tape is recommended as it is ideal for this usage. It has superior adhesive qualities, even in extremely hot or extremely cold weather.

Also available, as an insurance factor, is PCD Duct Sealer No. 8 — a flexible and self-curing air pressure sealant. This can be applied from one-gallon cans by brush application. It provides a positive sealing of joints and screw holes. PCD Duct Sealer No. 8 may also be obtained in a cartridge package. Approx. coverage is 375 lin. ft. gal. @ 1/4" bead.