

# P.V.S.<sup>®</sup>

## Anatomy of Installing Air Duct<sup>\*</sup>

An illustrated worksheet of procedures



*Featuring:*

Trenching and Backfill

Cutting in the Field

Scratched Surfaces

Connecting P.V.S. Fittings and Sections

Air Conditioning and Heating Systems

## Trenching and Backfill



After the excavation has been made, no special bedding need be used for P.V.S. ducting. It can rest right on the ground, or be set in sand or light aggregate. This can be shoveled beneath the duct if major gaps appear. The material taken from the trench can be used to backfill, but care should be taken not to dump or push heavy loads directly on the duct. It can be crushed under thoughtless abuse. Spread the backfill material evenly around both sides of the duct — tamping in place is a recommended practice. Then only one pour of cement is needed to cover the duct and complete the slab floor. The top of the duct should extend about two inches into the concrete floor.



No cement is needed to fill in around the duct, since the tamped fill holds the duct in place and the plastic coating prevents ground corrosion of the galvanized steel. This plastic coating also is resistant to any minerals or salts that may be in the backfill soil. P.V.S. 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.

*When duct is 14” or more in diameter, it should be corrugated.*

## Cutting in the Field



To cut duct to size, mark line to be followed with a standard marking crayon. Then cut along guideline with a power driven hand saw or tin snips.

## Scratched Surfaces



If, through a field accident, the P.V.S. coating is scratched or scarred so as to expose the base metal, apply P.V.S. touch-up paint to the damaged surface. This can be sprayed or brushed on. Apply liberally and allow time for drying. The damaged surface is then ready for service — a new protective coating has been added on.

## Connecting P.V.S. Fittings and Sections

### Connecting P.V.S. Fittings with Sheet Metal Screws and P.V.S. Sealant

Section is joined with section by means of the P.V.S. sleeve, which is inserted into the ends of the sections being connected. The sleeve is attached to the duct by means of sheet metal screws spaced on approximately 6" centers around the circumference. Sealant is applied on the outside of the sleeve and inside the duct ends before inserting the sleeves. An additional coating of Sealant is applied over the joint and screws to assure an air tight connection. Tape is then applied to make the connection watertight.



### P.V.S. Fittings and P.V.S. Sleeves for P.V.S. Duct Sections

P.V.S. fittings and connectors are manufactured of the same material as the P.V.S. duct. The ends of both P.V.S. fittings and P.V.S. sleeves are crimped to allow easy insertion into the P.V.S. duct section.



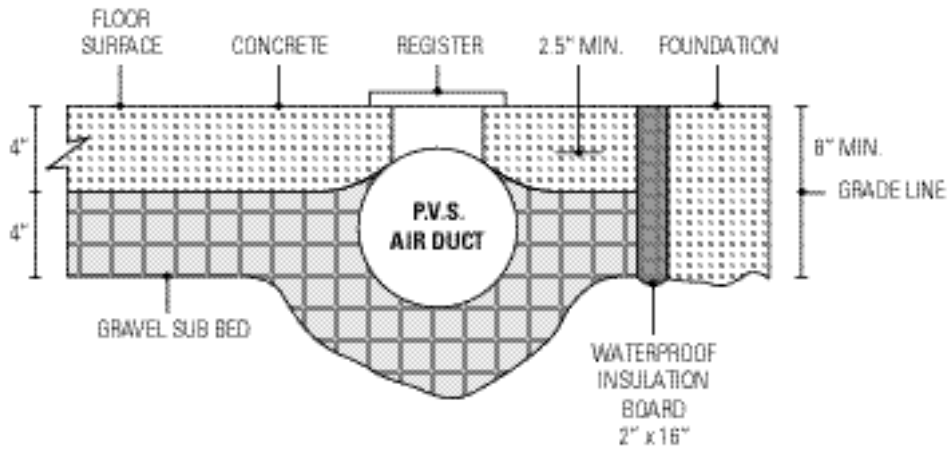
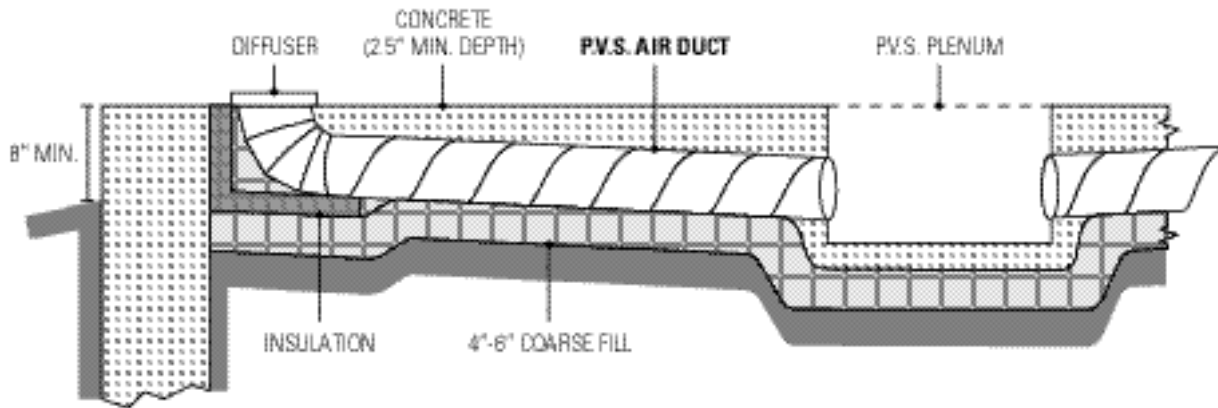
*Corrosive Fumes Installation*

### Connecting P.V.S. Sections with Duct Tape

Duct tape is recommended, as it is ideal for this usage. Wrap 2-3 laps of Tape tightly around joints. It is recommended that the joints be covered with approved duct sealer as specified above.



# For Air Conditioning and Heating Systems — A Typical P.V.S. Duct Installation



**P.V.S.** MANUFACTURING DIVISION

*P.V.S. is an exclusive product of:*

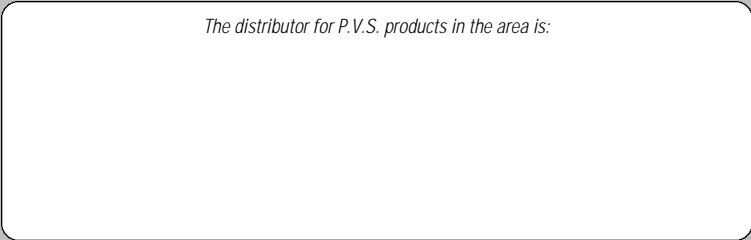
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