



Perry Fiberglass Products, Inc.

LEADERS IN FIBERGLASS REINFORCED PLASTIC DUCT PRODUCTS

33660 PIN OAK PKWY, AVON LAKE, OH 44012

PHONE 440-930-7701

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www.PerryFiberglass.com

OVERHEAD AND UNDERGROUND SPECIFICATION SHEET

HVAC OVERHEAD AND UNDERGROUND

PERRY 20S LOW SMOKE™ CLASS 1 DUCT – FLAME AND SMOKE

Ductwork

Single Wall (20S)

Ductwork, including fittings, shall be constructed of filament wound fiberglass reinforced plastic, as manufactured by Perry Fiberglass Products, Inc. The resin shall be Perry 20S Low Smoke™.

The duct and fittings, as a finished composite shall meet the Flame and Smoke requirements of a Class 1 duct per UL 181 and UMC 10-1. Liners and/or coatings are not acceptable. Performance shall have been verified by an ASTM E-84 testing laboratory recognized by the following building code organizations under the Council of American Building Officials: ICBO; BOCA; SBCCI.

When installation is to be made where water infiltration is a threat, the duct shall be manufactured with a resin rich veil on the OD. The field joints will be made using the wet lay-up method.

REQUIREMENTS OF A CLASS 1 DUCT PER UL 181 AND UMC 10-1

FLAME SPREAD: less than 25

SMOKE DEVELOPMENT: less than 50

FUEL CONTRIBUTED: less than 10

Additionally, the resin shall conform to or be less than the values of the New York State Fire-Gas Toxicity Data.

Wall thickness shall comply with PS 15-69 duct standards. The ductwork shall be furnished with the following minimum wall thickness 0.125" for ducts up to 20" in diameter, 0.187" for ducts 21" to 36" in diameter, and 0.25" for ducts 37" to 60" in diameter.

Rectangular ductwork thickness shall be determined by substituting the long side for the round diameter.

When specified, Perry 20S-IR7 Pre-insulated Double Wall duct shall have 1" of insulation, with a k factor of 0.14 and an R-value of 7. The duct OD wall thickness is equal to the single wall thickness above.

INSTALLATION

Generally, for underslab installation, the duct shall be installed in a graded trench with good drainage and on a 4" bed of pea gravel with sand or pea gravel used as a backfill. The field joints will be made using the wet lay-up method. Manufacturer's installation instructions to be followed.

The underground system is to be leak tested to 0 leakage before backfilling.

Do not allow vehicular traffic on top of the FRP duct.

Overhead installation field joints shall be butt-type wet lay-up method. Flanged connections shall be provided where indicated on the contract drawings. Both of these joining methods are of the same material as the duct, thus forming a continuous FRP component system.

Overhead ductwork, when exposed shall be manufactured incorporating a color selected by the Architect.



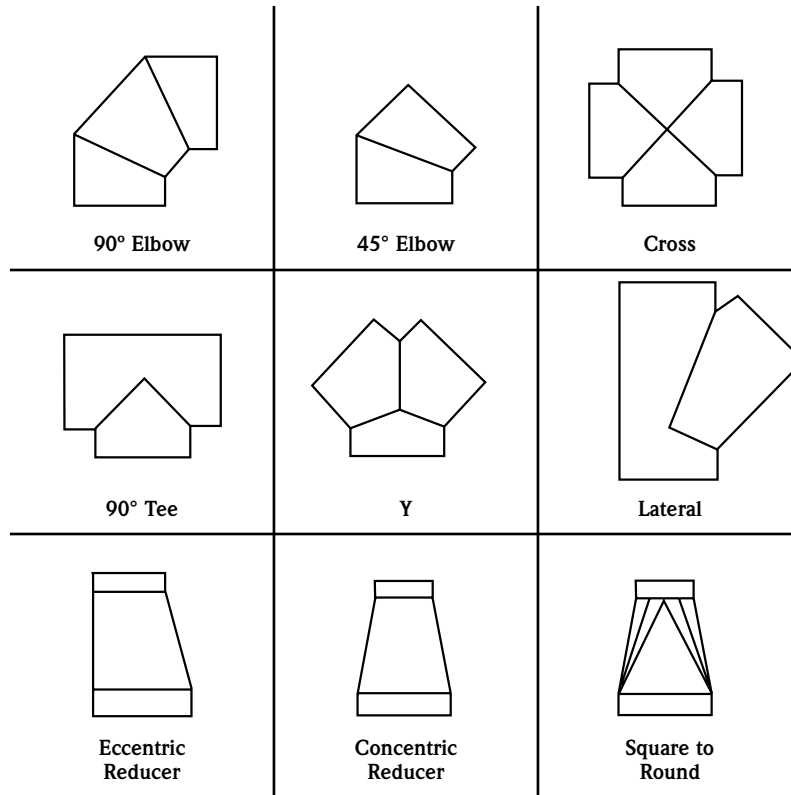
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TYPICAL CONFIGURATIONS

Individual product sheets are available on our website or by calling our offices.



JOB _____

LOCATION _____

JOB NO. _____

ENGINEER _____

REPRESENTATIVE _____

CONTRACTOR _____

DATE _____

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APPROVED BY _____