



corrosioncomposites.com

► **Overview:**

Corrosion Composites by Monoxivent is a source for corrosion resistant Fiberglass Fabrication Services.



Odor control duct systems for water treatment

Fiberglass laminated composites are light weight, high strength, non conductive, and corrosion resistant. Monoxivent assists with design, engineering, drawing, manufacturing, inspection, and installation. Monoxivent brings together years of fiberglass experience and manufacturing expertise. For many industrial, Water, and Wastewater applications where corrosion is a problem, fiberglass is the material of choice.

Typical products are: prefabricated duct, stacks, roof curb covers, hoods, pans, scrubbers, ladders, platforms, tanks, covers, and domes.

► **Products:**

For Industry, Water and Wastewater, Infrastructure:

- Duct
- Stacks
- Tanks
- Scrubbers
- Flumes
- Hoods
- Dampers
- Manholes
- Troughs
- Tank Covers
- Stack Liners
- Baffles
- Weirs
- Trenches
- Ladders
- Platforms
- Pressure Vessels
- And More!

CORROSION COMPOSITES FRP

- CORROSION RESISTANT
- INDUSTRIAL
- WATER TREATMENT
- INFRASTRUCTURE
- CUSTOM SOLUTIONS

CC Corrosion Composites
www.corrosioncomposites.com
FRP Products

► **Durability:**

Monoxivent's Corrosion Composites provide excellent resistance to corrosion and offer a very long service life. Laminates are designed for wind, seismic, snow, pressure, vacuum, and temperature.

► **Standards:**

Corrosion Composites adhere to ASTM,

SMACNA, and other industry standards.

► **Experienced Team:**

Monoxivent's design team includes engineering, layout, and custom solutions. This coupled with a manufacturing sources featuring over 40 years of experience, a 70,000-sq. foot facility, and state of the art equipment makes Corrosion Composites an excellent source for FRP products.



Underground storage tank



Tank covers, designed for snow and live loads



Storage tank



Stack liner, 6' diameter x 40' section of 200' stack



Prefabricated corrosion resistant duct system for water plant chlorine room



underduct.com

► **Overview:**

UnderDuct by Monoxivent provides the most versatile and cost effective Under-ground FRP (Fiberglass Reinforced Plastic) Duct on the market today! UnderDuct provides a wide range of solutions from the most demanding environments to standard layouts. Monoxivent's manufacturing source has over 40 years of experience and is a leader in the Under-Slab Fiberglass Duct market. Monoxivent has a nationwide network of sales representatives and a top-tier inside support staff, which provide engineering, design, sales, service, and marketing. UnderDuct is offered both in single wall and pre-insulated double wall construction to meet any ventilation needs. Monoxivent 824 Low Smoke Class 1 duct has been approved for direct burial.



► **Markets:**

Supply, return and exhaust systems include, but are not limited to: Auditoriums, Auto Exhaust, Banks, Botanical Gardens, Churches, High Rise Offices, Hospitals, Libraries, Parking Garages, Residences, Restaurants, Schools, Super Markets, Swimming Pools, and Zoos.

► **Durability:**

UnderDuct provides excellent resistance to corrosion and leakage. The corrosion resistance qualities are maintained throughout both the inside diameter (ID) and outside diameter (OD) allowing for a wide range of applications.



► **Ease of Use:**

UnderDuct can be directly placed onto a pea gravel bed in a graded trench, then backfilled with pea gravel eliminating concrete encasement. Simple joining methods provide for easy and quick installation, and the FRP duct is impervious to minerals or salts present in soil.

► **Efficiency:**

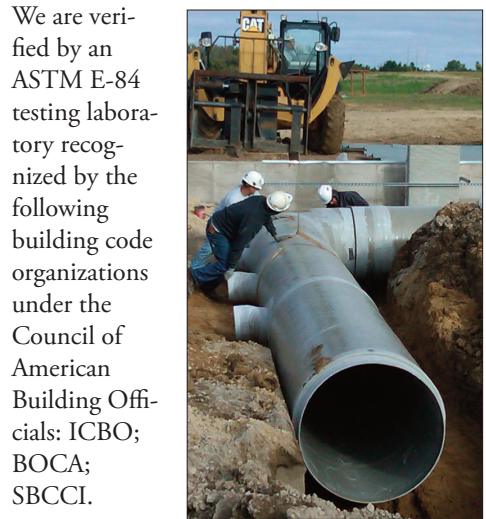
UnderDuct systems can be sealed to achieve a water and air tight system. A leak free system and smooth interior surface will ensure the air reaches its destination efficiently and without contamination.

► **Material Integrity:**

UnderDuct is filament wound with two chemically inert materials – glass and resin. The finished product can be relied upon for longer underground service life than galvanized sheet metal, stainless steel, or PVC coated sheet metal. The filament winding provides greater hoop strength resulting in a stronger duct versus other methods of construction such as hand lay-up. The finished product is lighter than steel while offering superior acoustical qualities and corrosion resistance.

► **Testing:**

UnderDuct products have met the Flame and Smoke requirements of a Class 1 duct per Underwriter's Laboratories (UL) 181 and Uniform Mechanical Code (UMC) 10-1.



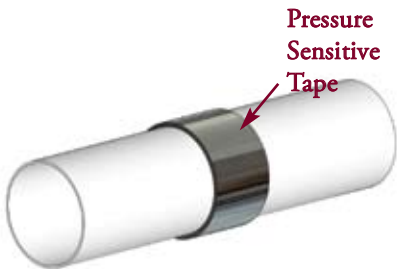
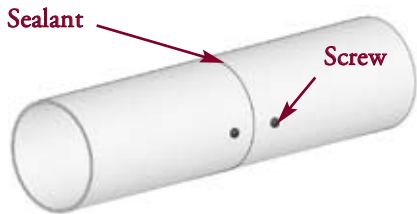
We are verified by an ASTM E-84 testing laboratory recognized by the following building code organizations under the Council of American Building Officials: ICBO; BOCA; SBCCI.

► **Versatility:**

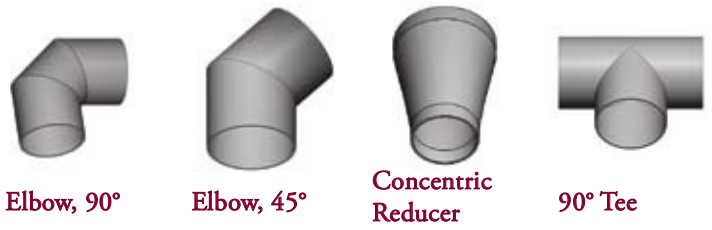
Underduct is available as straight lengths, standard and custom fittings, or in shop fabricated sections. Single wall duct can be shipped in prefabricated sections up to 40 feet long. Pre-insulated double wall duct has many advantages, including assured uniformity of insulation, permanent protection of insulation, and all in one installation.



Mechanical Joint



Fittings

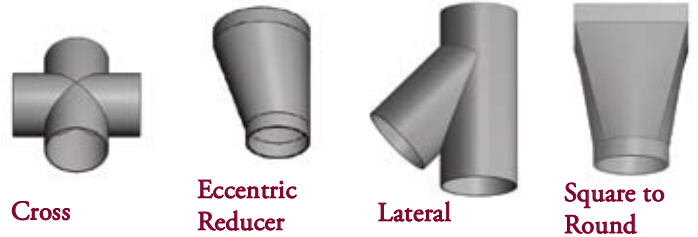


Elbow, 90°

Elbow, 45°

Concentric Reducer

90° Tee



Cross

Eccentric Reducer

Lateral

Square to Round

Wet Joint, Corrosion Applications



Y Piece

Single Wall

Any configuration available.

Our Class 1 rated single wall duct, meets 25/50 flame/smoke requirements of UL 181. Monoxivent UnderDuct 824 Low Smoke has been accepted for HVAC and occupied Industrial areas. Excellent choice for Corrosive environments where flame and smoke development are a concern, such as laboratories and swimming pools.

Double Wall Fittings & Duct

Any configuration available.

Double wall Monoxivent UnderDuct will eliminate any thermal losses and save time and money compared to insulating on site. When supplied with the standard 1" insulation, the duct has a k factor of 0.14 and an R value of 7. Also available in R-5, R-10, R-14 by request.

