

FRP - Fiberglass Reinforced Plastic • UnderDuct



Visit underduct.com for complete technical data, overviews, application spotlights!

OVERVIEW:

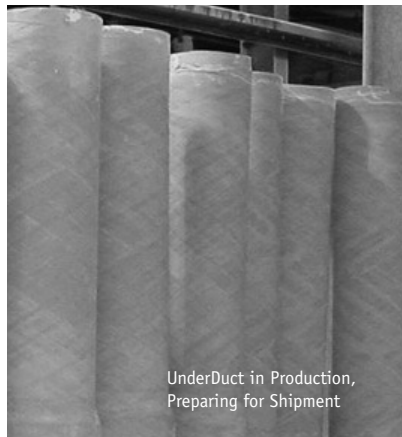
UnderDuct by Monoxivent provides the most versatile and cost effective Underground FRP (Fiberglass Reinforced Plastic) Duct on the market today! UnderDuct provides a wide range of solutions from the most demanding environments to standard layouts.

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.



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
- Zoos



UnderDuct in Production, Preparing for Shipment

DURABILITY:

Monoxivent 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:

Monoxivent 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:

Monoxivent 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:

Monoxivent 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:

Monoxivent 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:

Monoxivent 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.