

Why FRE Composites?

Atkore™
FRE Composites



A division of Atkore, FRE Composites produces the highest quality epoxy and phenolic fiberglass conduit products for worldwide installations. Having manufactured fiberglass products since 1958, FRE Composites is focused exclusively on the design, engineering, and production of composite filament-wound fiberglass conduit products and accessories that serve the electrical, utility, telecom, wastewater, data center, utility, transportation, commercial and industrial markets.

- **Strength to Weight Ratio** – fiberglass composite materials provide unmatched flexural strength to weight ratio relative to more expensive options.
- **Ease of Installation** – along with being incredibly lightweight, FRE®'s Epoxy conduit systems feature a patented polyurethane Triseal® gasket with 500 lbs pull-out strength.
- **High Quality Epoxy and Phenolic Conduit Systems** – will not melt or fuse in case of a fault, and provide excellent corrosion resistance and outstanding impact strength. QA programs comply with UL, ANSI, NEMA, NSF, CSA, NEC, CANENA, & CEC standards.

Critical for Infrastructure

- Epoxy solution provides superior impact and crush resistance with the highest strength to weight ratio of any conduit. Suitable for above and below ground applications.
- Epoxy Elbows are a light weight, no burn-through solution for sweeps of all sizes providing easier handling and better corrosion resistance than rigid metallic offerings.
- Hazguard® XW Conduit is the ideal solution for Class 1 Div. 2 locations – For DOTs, airports, telecommunication provides, or anywhere subject to physical damage.
- BreathSaver® XW is the only Fiberglass system that is 2-Hr Fire Rated in both the horizontal and vertical for wet locations, making it the most complete solution for protecting emergency circuits.
- This low-smoke, zero-halogen system is perfect for tunnels, mines, plenums, transit and transportation (DOT) or any air handling spaces.
- To complement our conduit systems, FRE Composites has custom hanger systems to fit any configuration or application.



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Trusted in Road, Bridge, and Tunnel Projects Worldwide

Above and Below Ground Epoxy Conduit

- Thin Wall (4"-8" IPS, 4"-6" ID)
- Standard Wall (¾"-8" IPS, 2"-6" ID)
- Heavy Wall (4"-6" IPS, 4"-6" ID)

Note: Bell and Spigot come standard and sizes 2" and above are available in 10 and 20 foot lengths.



Epoxy Fittings*

- Double Bell Couplings including 5 degree DB
- O'Ring Expansion joints, Single Expansion joints and Split Stop Rings
- Box Connectors
- Male, Female, and NPT Adapters



HazGuard® Solution

- Extra Heavy Wall Epoxy Conduit and Fittings (¾"-1½" + 8" IPS, 2"-6" ID)
- Class 1 Div. 2 Locations
- O'Ring Expansion joints, Single Expansion joints and Split Stop Rings and Conduit Bodies



Phenolic Conduit

- BreathSaver® SW (1"-1½" IPS, 2"-6" ID), based on Own Publication
- BreathSaver® XW (¾"-1½" + 8" IPS, 2"-6" ID)

Note: Bell and Spigot come standard and sizes 2" and above are available in 10 and 20 foot lengths.



Phenolic Fittings*

- Double Bell Couplings
- O-Ring Expansion Joints and Split Stop Rings
- Box Connectors
- Male, Female, and NPT Adapters
- Conduit Bodies



Epoxy and Phenolic Elbows*

- Standard Wall (SW), Heavy Wall (Epoxy), Extra Heavy Wall (XW)
- IPS Elbows (SW and HW) with
 - Deep Socket PVC Couplings
 - PVC Male/Female Threaded Adapters
 - Stubouts
- 12" - 72" Standard Radii (min radius dependent on trade size)
- Red Striping available



Accessories

- End Caps (¾"-8" IPS, 2"-6" ID)
- Base and Intermediate Spacers, Caplocks (2"-6")
- Regular and Low-Temp Adhesive + Split Duct Conduit
- Splice and Repair Kits
- Radius Bell Ends (¾"-6")