

# Everyone in the construction industry is well aware of the current worldwide PVC shortage and its ramifications.

It began with the pandemic as some businesses closed or slowed operations while employees quarantined and isolated. Then, an active hurricane season hit Louisiana particularly hard and forced chemical plants to shut down.



If that was not enough, Winter Storm Uri forced chemical plants making resin base materials for PVC to go offline, slowing production and adding another wrinkle to the PVC shortage already in place.

In fact, Winter Storm Uri could be responsible for the loss of 5 billion pounds or more of resin production, estimates ThePlasticsExchange.com.

With strong demand and decreased production, prices of PVC products like SCH 40 and SCH 80 electrical conduit used in construction have soared and delivery times greatly increased. <u>The Wall Street Journal</u> reports that analysts have said it could be months more before all petrochemical plants along the Texas Gulf Coast are fully back in operation.

But there's a solution. Projects don't have to suffer through long delays and skyrocketing prices, exceeding deadlines and budgets. You don't have to wait for PVC electrical conduit.

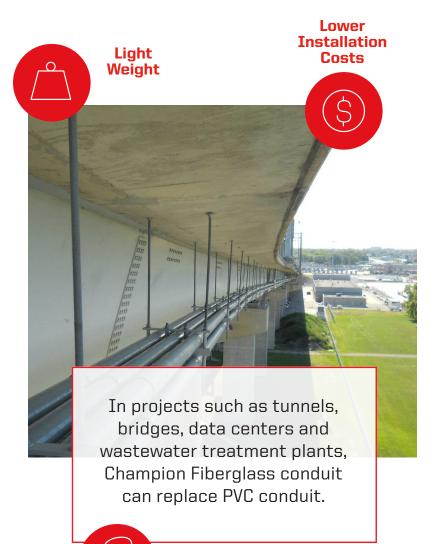
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# The Solution is Champion Fiberglass<sup>®</sup> conduit.

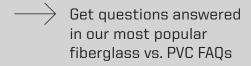
Unaffected by the PVC shortage, Champion Fiberglass® conduit is available with shorter lead times and competitive pricing.

In many cases, fiberglass conduit (RTRC) can be used in place of PVC conduit with great success. Across many applications, projects using fiberglass conduit benefit from:



Superior Compression and Impact Strength

#### Learn more in this eGuide



See a head-to-head product comparison between PVC SCH 40, PVC SCH 80 and PVC-coated steel

Find engineering specs and details in data sheets

See how easy installation can be

Read success stories
where fiberglass conduit
was used instead of PVC

Learn about BIM/
Revit models for
project planning and
calculators to get
project estimates fast

#### **POPULAR PVC RELATED FAQs**

Got questions about fiberglass electrical conduit? Get answers to our more popular PVC electrical conduit related questions – about applications, weight and installation – and how fiberglass conduit can be used instead of PVC electrical conduit.



# Used Across Many Industries and Applications

# Q. In what industries can fiberglass conduit replace PVC conduit?

A. Fiberglass conduit can replace PVC conduit in a variety of applications including commercial, industrial, construction, bridges, tunnels, data centers, utilities, and mining. Its corrosion resistance to many chemicals makes it ideal for wastewater treatment, chemical plants, and port authority/coastal environments. Not only is it lightweight for faster installation, it is also strong and durable with superior impact resistance.

#### The Weight Issue

# Q. How does fiberglass conduit compare in weight to PVC conduit?

A. One hundred feet of 4" SW fiberglass (RTRC) conduit weighs 72 pounds, significantly lighter than comparable PVC SCH 40 at 231 lbs. Because of its lightweight nature, fiberglass conduit does not add as much weight to supporting structures as other conduit systems.



# CHASIPION FIBERGLASS

#### The Scoop on Easy Installation

# Q. Who fares better in terms of installation rates - PVC or fiberglass conduit?

A. The NECA Manual of Labor Rates states that to install a 100-foot length of 6" diameter conduit it takes just 9 hours for fiberglass conduit. For PVC SCH 40, it takes 24 hours. This means fiberglass conduit installs faster, in one-third the time as PVC SCH 40.

Read more FAQs here.

## SEE A HEAD-TO-HEAD ELECTRICAL CONDUIT PRODUCT COMPARISON

To illustrate how PVC and fiberglass conduit systems compare, we've detailed product features across fiberglass, PVC SCH 40, PVC SCH 80 and PVC-coated steel in an easy-to-read chart format.

See head-to-head how they stack up regarding installation times, halogen release, cable fault, UV resistance and more.

Download the full chart here.



# **9 Reasons Fiberglass Conduit Performs Better than PVC**

- \$ 1. Competitive pricing
- $\sqrt{2}$  Shorter lead times

- 3. Light weight
- **5.**Superior compression and impact strength
- 7. No elbow burn-through



- Lower installation costs
- **6.** Lower cable coefficient of friction
- 8. Broader temperature range
- Safety no toxic halogens are released

#### **DATA AND SPEC SHEETS**

Find the right engineering data and information details for your project's application.

If you are unfamiliar with fiberglass conduit, allow us to help guide you in your search for details. For engineers, contractors and project managers, we offer helpful data and specs to determine whether fiberglass conduit satisfies your project requirements.

Here's a sampling of technical and engineering specs and information you will find:

Specifications for Fiberglass Conduit Below Ground & Specifications for Fiberglass Conduit Above Ground &

Both of these documents offer a wide range of information such as specific dimensions and wall thickness of conduit and electrical characteristics like dielectric strength and surface resistivity. Mechanical characteristics include tensile and compressive strength. Additionally, there are impact resistance weights by conduit size and toxicity information. You will find even more data including environmental and manufacturing information and fittings and accessories details.

Chemical Resistance Guide, where you can view results of testing by specific chemical blackSafety Data Sheets for standards, guidelines and recommendations blackEngineering Requirements for UL and factory ISO information black



CHAMPION 5400 Spring Structure Fig. 37 Spring, TX TORKS FISHER SEASON 3 F FISH SEASON 25

Champion Duct® catalog 🕹

For engineers, contractors and project managers, we offer helpful data and specs to determine whether fiberglass conduit satisfies your project requirements.

#### **Installation Information**

Discover how easy (and cost-efficient) installation can be with fiberglass conduit.

Projects using fiberglass conduit install faster than most other conduit types. Our conduit's light weight contributes to a streamlined process that makes installation simple and easy-to-follow.

Faster installation saves not only time but money. In fact, the NECA Labor Rates state that to install a 100-foot length of 6" diameter conduit takes just 9 hours for fiberglass conduit, compared to 24 hours for PVC SCH 40, 29 hours for PVC SCH 80, and 60 hours for PVC-coated steel. Faster installation means safer, more cost-effective projects.

Get all the installation details – guidelines, how-to videos and installation FAQs – in our <u>online installation guide</u>.



Watch installation videos.

Our conduit's light

#### **Success Stories**

Read case studies where fiberglass conduit was selected over PVC SCH 40, PVC SCH 80 and PVC-coated steel. Learn more about why customers selected it and and how the product contributed to favorable outcomes.

#### **Edwardsport IGCC Power Plant**

Using Champion Fiberglass conduit instead of PVC SCH 80 streamlined installation and provided savings since it eliminated the need for expensive concrete vaults.

#### Read More





#### **Monterey Bay Coast Guard Pier**

Haz Duct® X Wall conduit withstands UV exposure, saltwater and weather.

Read More

#### **Fox Metro Wastewater Treatment Plant**

When the PVC coating on the rigid steel conduit in this facility's waste pits began to separate and corrode, Champion Fiberglass provided a custom solution and an installation assist.

**Read More** 



# Ready for more information or to get in touch?

## **/**

#### Get an estimate.

Check out our <u>conduit calculator</u> where you can plug in numbers specific to your job and get a detailed estimate comparing fiberglass conduit to PVC SCH 40 and PVC SCH 80 and PVC-coated steel.



## **/**

#### **Download BIM/Revit Models**

BIM/Revit models help promote collaboration and project efficiency. Get access to our library here.



## **/**

#### Find a Manufacturer's Representative

Our <u>Find a Rep</u> tool will guide you to a rep firm in your area, when you are ready.





#### **Get in Touch**

Got a specific question not answered here or a challenging job you want to talk about? Contact our helpful team: Contact us.

