

CALIFORNIA PIER UPGRADES TO CORROSION-RESISTANT CONDUIT & DARK SKY LIGHTS



The 1300 ft. long Hermosa Beach Pier in LA County utilized the full Champion Fiberglass® product line of electrical conduit, strut, straps, nuts and bolts when upgrading lighting to be dark sky compliant.

Challenge

As with many projects in coastal regions, challenges included environmental corrosion due to salt spray and sunlight. Other requirements included weight restrictions to limit dead load added to the pier. And finally, installation over sand and water proved demanding.

Solution

Project engineers recommended fiberglass conduit to replace the aging PVC-coated steel and GRC along the pier as well as to address important project challenges like corrosion, weight restrictions and installation.

Thanks to epoxy resin strength, fiberglass conduit does not degrade from UV rays or saltwater, offering excellent corrosion resistance. Plus, it is lightweight. If GRC had been used on this project, the weight would have been nearly 10 times the weight of fiberglass.

Champion Fiberglass also provided special customizations including custom offsets to navigate around bump outs and electrical boxes along the pier.

As for installation, Champion Strut™ CS-S Series and strut fastening system straps provided corrosion-resistant, stable support along the pier. This combination allowed for complete engagement and maximum pull-out strength of the channel accessories.

Finally, lightweight Champion Fiberglass conduit and strut streamlined the installation process resulting in cost savings.

Results

Strong, durable Champion Fiberglass electrical conduit and the Champion Strut system facilitated a seamless, stable installation over sand and water for the contractor. Time and money were saved not only on a speedy installation but on materials. Further, these corrosion-resistant products offer durability for an extended lifespan along the pier.

QUICK FACTS

PROJECT NAME

Hermosa Beach Pier

APPLICATION

Port Authority / Coastal

CHAMPION FIBERGLASS PRODUCT(S)

[Champion Duct®](#)
[Champion Strut™](#)



BENEFITS

- > Corrosion resistance for project longevity
- > Lightweight for ease of installation
- > Speedy installation
- > Lower material & installation costs

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