

Champion Fiberglass's comprehensive line of phenolic conduit, **FLAME SHIELD®** is the number one choice of surface mounted conduit for transit and passenger rail systems including subway tunnels and stations. **FLAME SHIELD** conforms to the latest **NFPA 130** requirements.

The **FLAME SHIELD** conduit system provides for improved system longevity and relief from stray eddy current issues common with some transit systems. It is a system that handles the damp, cold environments found in subterranean transit and rail systems while providing a low coefficient of thermal expansion. **FLAME SHIELD** is a non-metallic system tested and proven to handle the elevated conduit temperature requirements of **NFPA 130** and **NFPA 502**. It does this while maintaining low smoke density and without release of toxic gases.

FLAME SHIELD is manufactured without generating formaldehyde or residual corrosive by-products. In addition, this lightweight and cost effective system is easy on the maintenance crew.

FLAME SHIELD is an engineered product by the industry's foremost manufacturer of Reinforced Thermosetting Resin Conduit (RTRC), Champion Fiberglass, an **ISO 9001:2008 Certified Company**.

Important differences between... CHAMPION DUCT® vs. FLAME SHIELD®

A key difference between **CHAMPION DUCT** fiberglass conduit (RTRC) and **FLAME SHIELD** phenolic conduit is that phenolic conduit meets the elevated temperatures requirements of exposed conduits by **NFPA 130** and **ASTM E136**. This allows **FLAME SHIELD** to be in compliance when surface mounted. Fiberglass conduit (RTRC) is in compliance when encased in concrete. In addition, **FLAME SHIELD** has met the increased temperature and duration demands of **NFPA 502**.

To meet the requirements of **NFPA 130** and **502**, Champion has developed a phenolic conduit adhesive system that maintains the integrity of the conduit system. If those standards are not required, Champion's epoxy adhesive system is available.

Another important difference between fiberglass conduit (RTRC) and phenolic conduit is the low flame spread and low smoke characteristics of **FLAME SHIELD**. This allows **FLAME SHIELD** to be used in applications requiring these low numbers.

Due to the physical properties of phenolic conduit, **FLAME SHIELD** is not field bendable for elbows or offsets. Field bending is allowed for **CHAMPION DUCT** (RTRC) by **NFPA 70** (National Electric Code).

Phenolic **FLAME SHIELD** SW (Standard Wall) and MW (Medium Wall) conduits are not **UL** listed due to their physical properties. Phenolic **FLAME SHIELD** XW is **UL** listed and approved.

