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FRP Composites for Subway and Transit Projects

03-08-2010

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FRP composites are used extensively in subway and transit projects because of their durability, corrosion resistance, toughness, and mar resistance. Applications include wall panels, seating, third rail covers, architectural panels, piping, and structural components.

In selecting FRP composite laminates for subway and transit projects - design, engineering, and specification consideration must be given to fire retardancy, low smoke, and perhaps most importantly, low smoke toxicity. (Most fire related deaths are because of smoke inhalation and not direct burns.)

For further discussion on the hazards of smoke and smoke toxicity, please request a copy of our Technical Bulletin "*Where There Is Fire - There Is Smoke*".

In the United States partial consideration has been given to fire retardancy, smoke, and smoke toxicity for items such as subway seats and wall panels. And, in commercial buildings, such as the World Trade Center and the UN Plaza, consideration is given for the ducting and fluid piping systems. Unfortunately though, similar consideration is not given to the many other infrastructure composites in a subway - including the many miles of FRP composite conduit and piping.

These issues of low smoke and low toxicity pipe have been addressed extensively throughout Europe. Other examples of end-users here in the U.S. that have also addressed these issues, in order to limit their liability in case of fire, include offshore oil platforms and the electronics industry. For additional specifications and videos showing the importance of fire retardancy, low smoke, and low smoke toxicity - please contact us.

Insure the safety and well-being of your subway and transit riders by using proven, safe, fire retardant, low smoke, and low smoke toxicity composites for your next projects.