

PIPELINE

NEWS TRENDS TIPS & RESOURCES

NASSCO RELEASES FRP SPECIFICATION GUIDELINE

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Carbon and glass fiber reinforced polymers (FRP) have been used for infrastructure for more than three decades, and applications in pipeline and other below ground infrastructure rehabilitation has gained momentum in recent years. The advantages these systems can provide include high strength, corrosion resistance, light weight, and ability to be installed on essentially any type of structure, size, and geometry.

Because FRP systems are relatively new to underground infrastructure, particularly to sewer systems, there is not a standard for materials, design, or installation geared towards these systems. Accordingly, a workgroup was formed under NASSCO's Pipe Rehabilitation Committee to write a guideline (performance) specification on sewer rehabilitation with FRP liners. The new technical specification is the first of its kind and was written with the objective of providing guidance to sewer system owners, engineers and contractors in utilizing this rehabilitation system with high performance materials for their gravity sewer infrastructure. The guideline specification is mainly intended for structural rehabilitation of large diameter sewers, manholes, junction chambers, and vaults.

The new FRP Specification by NASSCO provides guidance on what the owners and engineers should look for in a performance work statement, products/material properties, design criteria, surface preparation and installation, quality assurance/control procedures, project close-out, warranty terms, and bid items for a sewer rehabilitation project with FRP. To download the specification, visit nassco.org/resources/guidelines-specs.



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New guidelines for repairing sewers using FRP are released

The new NASSCO repair specification released this month is the first of its kind and provides technical guidance for sewer system owners, engineers and contractors who desire to use high performance materials for repair of their critical underground infrastructure.

TUCSON, Ariz. (August 31, 2020) -- A new FRP specification released by the National Association of Sewer Service Companies (NASSCO) provides previously unpublished technical guidance on what sewer system owners and engineers need be looking for when using high performance composites for repair and rehabilitation.



“The new technical specification is the first of its kind and was written with the objective of providing guidance to sewer system owners, engineers and contractors,” said V. Firat Sever, Ph.D., P.E., NASSCO Pipe Rehab Committee member and Pipeline Division Manager for QuakeWrap, Inc.

“The guideline specification is mainly intended for structural rehabilitation of large diameter sewers, manholes, junction chambers and vaults,” Sever says.

The NASSCO Performance Specification Guideline, “Rehabilitation of Sewers Using Fiber Reinforced Polymers,” was released August 2020.

The guideline provides specific details system owners should be requiring when using FRP systems to repair their gravity sewer infrastructure. These include a performance work statement, products/material properties documents, design criteria, surface preparation and installation procedure, quality assurance/control procedures, project close-out, warranty terms, and other project items.

You can review the *Rehabilitation of Sewers Using Fiber Reinforced Polymers* guideline from the NACCSO website here

https://www.nassco.org/sites/default/files/FRP%20SPEC%20%207-17-20%20Final_0.pdf