

Product Evaluation

RE: Review of FRP Drain Piping

PRODUCT

FRP Drain Piping is manufactured by Grace Composites located in Lonoke, Arkansas and distributed by Fibreglass Solutions Inc. located in Edmonton, Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

FRP Drain Piping is a corrosion free fiberglass bridge drain pipe system. Fiberglass is inert to oil, gas, salt, ice-melting solutions and many other corrosive components found on highway structures. Fiberglass drain piping can be up to 10 times lighter than equivalent metallic systems. Product web link: <http://bridgedrainpipe.com/resources/>

DESCRIPTION:

FRP Drain Piping is a filament wound composite pipe consisting of a thermosetting resin and continuous glass filament structural reinforcement. An adhesion bonded socket joint is the primary joining method for FRP bridge drain pipe.

POTENTIAL USAGE:

FRP Drain Piping can be up to 10 times lighter than equivalent metallic systems. A major advantage of a fiberglass drain system lies in its prefabrication capabilities. On-site deliveries can easily include preassembled joints, collectors, cleanouts and even directional changes. The lightweight nature of fiberglass also limits the need for heavy machinery used to handle the materials, decreasing installation costs even higher.

STANDARDS:

ASTM D2996
RTRP-12EA12122

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Transportation does not have experience with this product.

APPLICATION STANDARDS:

Alberta Transportation does not have a standard for FRP Drain Piping.

RECOMMENDATIONS:

FRP Drain Piping be listed as a Potential Product under Alberta Transportation Products List, Drainage Systems – Bridge Drain Pipe – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

TRIAL PROJECTS

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