

Product Evaluation

RE: Review of DuroMaxx Steel Reinforced Polyethylene Pipe

PRODUCT

The DuroMaxx Steel Reinforced Polyethylene Pipe is manufactured by Contech Engineered Solutions located in Kingman, Arizona and distributed by Calgary, Alberta and Canada Culvert located in Edmonton, Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

DuroMaxx steel reinforced ribbed profile wall construction will not creep or buckle. The built in capacity of the high strength steel eliminates concerns that have long plagued profile wall of high density polyethylene (HDPE) pipe. DuroMaxx Steel Reinforced Polyethylene Pipe can be twice as stiff as non-steel reinforced HDPE pipe. Product web link:

<http://www.conteches.com/Products/Pipe/Steel-Reinforced-Polyethylene-SRPE/DuroMaxx-Pipe.aspx>

DESCRIPTION:

DuroMaxx Steel Reinforced Polyethylene Pipe consists of 80 ksi steel reinforcing ribs which provide the strength and pressure rated Polyethylene Resin provides the durability. DuroMaxx is designed with a smooth inner wall for outstanding hydraulic capacity and the properties to perform in demanding environments.

POTENTIAL USAGE:

The DuroMaxx Steel Reinforced Polyethylene Pipe is typically used for gravity flow drainage applications including culverts, storm and sanitary sewers. DuroMaxx steel reinforced bell and spigot achieves a superior watertight joint.

STANDARDS:

ASTM F2562 Standard Specification for Steel Reinforced Thermoplastic Ribbed Pipe and Fittings for Non-Pressure Drainage and sewerage
AASHTO MP-20; ASTM D3350, CSA B182.14 Storm and CSA B182.15 Sanitary

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Transportation has many years of experience with the use of HDPE pipe for culverts and liners. This product is similar to the HDPE Big 'O' culverts used on several Alberta Transportation projects.

APPLICATION STANDARDS:

The Alberta Transportation specification for polyethylene culvert materials is as per the following: Specification 5.24, Supply of Polyethylene Pipe

RECOMMENDATIONS:

DuroMaxx Steel Reinforced Polyethylene Pipe be listed as a Trial Product under Alberta Transportation Products List, Culverts – Polyethylene Pipe – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

TRIAL PROJECTS

North of giffen Road to future 52nd Ave along west side of 43st North in the City of Lethbridge = 3000mm dia X 1.865 km Syphon. Installation 2017

Joe Filice

cc New Product Evaluation Standing Committee – Roger Skirrow



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