

Product Evaluation

RE: Review of ADS N-12 Corrugated Polyethylene Pipe

PRODUCT

The ADS N-12 Corrugated Polyethylene Pipe is a thermoplastic product made of high density polyethylene (HDPE). The ADS N-12 pipe is manufactured by Advanced Drainage Systems Inc. located in Hilliard, Ohio and distributed by Perma-Engineered Sales located in Edmonton, Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

The smooth interior of the ADS N-12 pipe provides superior flow characteristics. The mannings 'n' value is 0.012 making it a hydraulically efficient pipe. The ADS N-12 pipes light weight makes for ease of transporting and handling. ADS N-12 pipe has excellent resistance to abrasion and is highly resistant to chemical attack. Product web link: http://ads-pipecanada.ca/ca_en/

DESCRIPTION:

The ADS N-12 pipe is a thermoplastic product made of high density polyethylene with a smooth inner wall and corrugated exterior.

POTENTIAL USAGE:

The ADS N-12 pipe is typically used for gravity flow drainage applications including culverts, storm and sanitary sewers.

STANDARDS:

AASHTO M252 Corrugated Polyethylene Drainage Pipe
AASHTO M294 Corrugated Polyethylene Pipe – 300 to 1500mm diameter

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:

Alberta Transportation has used HDPE for culvert drainage on a number of projects since 1989. The ADS N-12 product is similar to the HDPE products already in use by the department. This product is recommended to be placed on the Alberta Transportation Products List as a Proven product.

Trial Projects

S.E. of Vegreville, S. on 857, turn E. on Township road 514 – between range road 142 & 141.

Joe Filice

cc New Product Evaluation Standing Committee – Roger Skirrow