

Product Evaluation

RE: Review of Multi-Flow

PRODUCT

Multi-Flow is manufactured by Varicore Technologies Inc. and distributed by Nilex Inc. located in Edmonton.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

Multi-Flow is a series of 1" diameter pipes fused together to form a drainage system. The pipe is wrapped in a non-woven geotextile and is best utilized for water inception and collection. The pipes are made of high density polyethylene (HDPE). Corporate website: www.nilex.com.

DESCRIPTION:

Multi-Flow provides a large surface area that interfaces with saturated soils. This allows water to enter the system rapidly. Multi-Flow's narrow shape allows for insertion into a narrow trench resulting in minimal excavation. Multi-Flow comes wrapped in a premium, needle-punched, geotextile filter preventing sand and soil from entering and blocking the system. A large array of connectors allows the Multi-Flow system to be configured to limitless designs.

POTENTIAL USAGE:

An option whenever a conventional aggregate drain (French or trench drain) is considered in roads, play fields, golf courses and venting systems.

STANDARDS:

Drainage Core:

ASTM D1777 Thickness

ASTM D4716 Flow rate

ASTM D1621 Compressive strength

Geotextile Filter:

ASTM D4632 Tensile strength, elongation

ASTM D4833 Puncture

ASTM D3786 Mullen burst

ASTM D4533 Trapezoidal tear

ASTM D4491 Coefficient of perm, flow rate, permittivity

ASTM D4751 AOS

ASTM D4355 UV stability

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Transportation has no experience with this product.

APPLICATION STANDARDS:

Alberta Transportation does not have a standard for Geonet, but has a standard for non-woven geotextile as a filter material.

RECOMMENDATIONS:

Multi-Flow list as a Proven Product under Alberta Transportation Products List, Geosynthetics – Geonet & Geocomposite – Proprietary, based on the information provided.

TRIAL PROJECTS

Hwy 41:18 Battle River

Fred Cheng

cc New Product Evaluation Standing Committee – Roger Skirrow