

Product Evaluation

RE: Review of Armorflex

PRODUCT

Armorflex is manufactured by Armortec Canada Inc. and distributed by Nilex Inc. located in Edmonton.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

Armorflex is a flexible, interlocking matrix of machine-compressed, cellular concrete blocks of uniform size, shape and weight used for hard armour erosion control. Armorflex blocks have specific tested hydraulic capacities and are laced longitudinally with galvanized steel, stainless steel or polyester revetment cables to provide ease of handling and rapid installation. Armorflex revetment systems combine the favorable aspects of lightweight blankets and meshes such as porosity, flexibility, vegetation encouragement and habitat enhancement with non-erodible self-weight and the high tractive force resistance of a rigid lining. Corporate website: www.nilex.com.

DESCRIPTION:

The Armorflex system is supported by extensive full-scale testing. With 20% open area, it allows full vegetation for the entire system to meet regulation demands and provide an aesthetic solution. Installation is fast and low cost installation will provide substantial savings on large projects when compared to large diameter riprap.

POTENTIAL USAGE:

It is an aesthetical and functional alternative to dumped stone riprap, gabions, structural concrete and other heavy-duty, durable erosion protection systems.

STANDARDS:

ASTM C150 Portland cement
ASTM C595 Blended cement
ASTM C207 Hydrated lime types
ASTM C618 Pozzolans
ASTM C33 Aggregate normal weight

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Transportation has no experience with Armorflex.

APPLICATION STANDARDS:

Alberta Transportation does not have a standard for Armorflex.

RECOMMENDATIONS:

Armorflex lists as a Proven Product under Alberta Transportation Products List, – Erosion and Sediment Control Systems – Miscellaneous Erosion and Sediment Control – Proprietary, based on the information provided.

TRIAL PROJECTS

Hwy 216:06, Anthony Henday Drive, South Valley Pond near N. Saskatchewan River

Fred Cheng

cc New Product Evaluation Standing Committee – Roger Skirrow