Government of Alberta ■
Transportation

Product Evaluation

Product ID: 8130-3-10
Initiation Date: September 2005
Revision Date: November 17, 2010

RE: Review of Armtec Silt Fence (2130)

PRODUCT
The Armtec Silt Fence 2130 is manufactured with a woven geotextile fabric on wooden or steel posts. It is manufactured by Specialty Converting and Supplies of Nashville, GA and locally supplied by Armtec Limited Partnership of Langley, BC.

VENDOR CLAIMS AND INFORMATION

CLAIMS:
This Armtec's pre-assembled silt fence structures are specifically designed to satisfy environmental erosion problems during site development and construction, by controlling and filtering silt laden run-off.

DESCRIPTION:
Armtec's sedimentation control fabrics are manufactured from ultra-violet stabilized, woven polypropylene fibres, specifically designed with the optimum opening size to provide both soil filtration and water retention.

POTENTIAL USAGE:
The silt fence fabric screens a large percentage of the silt and sand particles, which are suspended in the surface flow, thereby creating an increasingly effective soil filter on the upstream side of the fence. This process retards flow and impounds run-off behind the silt fence. The significantly reduced flow velocities which result, induce the settlement of suspended solids behind the silt fence structure.

STANDARDS:
ASTM D4632 Grab Tensile
ASTM D4632 Elongation
ASTM D4533 Trapezoidal Tear
ASTM D4833 Puncture Strength
ASTM D3786 Mullen Burst
ASTM D4751 AOS
ASTM D4491 Permitivity
ASTM D4355 UV Resistance

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:
Alberta Transportation has experience with non-supported, wood posts silt fences in construction sites.

APPLICATION STANDARDS:
Alberta Transportation has a standard for silt fence fabric and post materials as found in Special Provisions SpE011, Geotextile Fence Barrier (Silt Fence). The Armtec Silt Fence 2130 fabric meets AT specifications.

RECOMMENDATIONS:
Armtec Silt Fence 2130 be listed as a Proven Product under Alberta Transportation Product List, Erosion Control Systems – Silt Fence – Proprietary, based on the information provided.

TRIAL PROJECTS

H88/H754 – Slave Lake (AT 7543/07); H695:02 (AT 7769/08); H658:02 (AT 7354/08); H676:02 (AT 7738/08)

Fred Cheng
cc New Product Evaluation Standing Committee
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