

RE: Review of Layfield Wire Back Silt Fence (SF135)

PRODUCT

The Layfield Wire Back Silt Fence (SF135) incorporates an effective filter fabric supported with durable 14-gauge wire mesh. It is manufactured by Layfield Geosynthetics & Industrial Fabrics Ltd. of Edmonton.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

This Layfield Wire Back Silt Fence (SF135) provides rugged, reliable and low maintenance silt control. Wire Back Silt Fence will effectively protect storm water drainage systems from fouling with silt, and will protect you from environmental liability due to silt leaving your project site. Layfield provides metal T Posts and ties to secure the Wire Back Silt Fence in position. This supported style of silt fence is designed to withstand adverse weather conditions and high runoff volumes.

DESCRIPTION:

Layfield's Wire Back Silt Fence is constructed with their SF135 woven polypropylene fabric (stabilized for resistance to UV radiation), supported by a wire mesh and metal T-posts.

POTENTIAL USAGE:

The silt fence can be used to keep silts out of catch basins, streams and waterways, off streets, and out of neighbouring property.

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 Permittivity
ASTM D4355 UV Resistance
Layfield provides installation instructions.

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 materials as found in Special Provisions SpE011, Geotextile Fence Barrier (Silt Fence). The Layfield SF135 fabric meets AT specifications.

RECOMMENDATIONS:

Layfield Wire Back Silt Fence (SF135) be listed as a Proven Product under Alberta Transportation Product List, Erosion Control Systems – Silt Fence – Proprietary, based on the information provided.

TRIAL PROJECTS

Fred Cheng

cc New Product Evaluation Standing Committee – Terry Willis
Roger Skirrow