COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3154-10

Product Evaluation Coordinator
Colorado Department of Transportation
4670 North Holly Street, Unit A
Denver, Colorado 80216

Material code: 216.02.03.00

FOR INTERNAL CDOT USE

Material code description full name: Turf Reinforcement Mat

PART 1

Product name: Landlok 450

Product category: Envir., Erosion Control\Soil Retention Covering\TRM [Class 2]

Product representative (name & address):
Attn: Jim Lemos
Propex Operating Company, LLC
13612 W. Alaska Place
Lakewood, CO 80228
Phone: (303) 520-3238 FAX:

Manufacturer (name & address):
Attn: Scott Manning
Propex Operating Company, LLC
4019 Industry Drive
Chattanooga, TN 37416
Phone: (423) 553-2520 FAX: (423) 899-7619

Web-site address: www.geotextile.com www.propexus.com

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Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)
Landlok 450 turf reinforcement mat (TRM) features X3™ technology that consists of a dense web of crimped, interlocking, multi-lobed polypropylene fibers positioned between two biaxially oriented nets and mechanically bound together by parallel stitching with polypropylene thread. The TRM is designed to accelerate seedling emergence, exhibit high resiliency, and possess strength and elongation properties to limit stretching in a saturated condition. Every component of Landlok 450 is stabilized against chemical and ultraviolet degradation which are normally found in a natural soil environment. Furthermore, the TRM contains no biodegradable components.
Mass per unit - 10 oz/yd2.
Roll dimensions - 6.5ft x 138.5 ft. (100 yd2).
Tensile Strength: 400 x 300 lb/ft
UV Resistance: 80% @ 1000 hours
Seedling Emergence: 409%

Restrictions, (installation and/or use):
Do not use on continuous flow channels or shoreline applications with high wave action (over 1 foot).

Use of the product, (be specific to CDOT highway activities only):
Slopes up to 1.5H:1V, channels - velocity up to 18 ft/sec and Shear stress up to 10 lb/ft2 vegetated.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
Landlok 450 is flexible, conforms well to contours of soil. Contains X3 fiber for better seedling emergence. Larger roll size which translates to a lower installation cost. Available in tan or green color.

Specifications, (listing those applicable is required) **& Certificate of Compliance** (required to certify compliance with listed specifications):

- ☐ CDOT :
- ☐ ASTM :
- ☐ AASHTO :
- ☒ FHWA : FP-03, Section 713, Type 5A,5B,5C
- ☐ other :

Product testing, (from national/independent laboratories or universities) **& Certified Test Report** (CTR required to validate all claims):

- ☒ NTPEP-AASHTO : 2010 NTPEP Report 12001.10
- ☐ FHWA :
- ☒ other : CSU (March 29, 2010)
- ☐ other :

State DOT Approvals, (current documentation required):

Sample submitted: ☒ yes ☐ no ☐ n/a | Materials Safety Data Sheets (MSDS): ☒ yes ☐ no ☐ n/a

Notes/Additional Comments
Since every component of the matrix is stabilized against ultraviolet degradation and inert to chemicals normally encountered in soils, LANDLOK TRM 450 is truly a permanent turf reinforcement mat. As a result, the physical properties (i.e. mass per unit area, ground cover…) of LANDLOK TRM 450 will not dramatically change over the course of 3 – 5 years .
No State DOT Approval documentation provided for Kansas, Maryland, Virginia, New York, Texas.