QUALIFIED PRODUCT LIST
FOR
CONNECTICUT DEPARTMENT OF TRANSPORTATION
PROJECTS

June 2015

Report No. CT-211-00-15-1

Connecticut Department of Transportation
Bureau of Policy and Planning
Research Unit

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Revised: (12/2015)

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APPROVALS

Research Unit	5/26/2015 Date
Research Liaison Committee Chairman	5/18/15 Date

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PREFACE

This Report has been developed as a means for determining what products, suppliers, manufacturers, equipment and methodologies may be used on ConnDOT construction projects. The items referenced have met the approval of ConnDOT personnel in one of the following ways:

- They have been approved by the Research Liaison Committee.
- They have been used successfully since before the establishment of a formal approval process.
- They currently satisfy Department of Transportation specifications.

It should be understood that this document is open to refinement and will be under close scrutiny to ensure that the information contained herein is complete and accurate. Over the years, many items will be added and deleted.

Many products that may be used in ConnDOT will not be represented in this document because they conform to a generic specification, and the approval procedure is in accordance with the standard specifications.

- **ConnDOT's Product Evaluation Web Site:**

  http://www.ct.gov/dot/cwp/view.asp?a=1387&q=259630

- **ConnDOT's Qualified Product List (QPL):**

  http://www.ct.gov/dot/cwp/view.asp?a=1387&q=259630

- **AASHTO's NATIONAL TRANSPORTATION PRODUCT EVALUATION PROGRAM (NTPEP):**

  http://www.ntpep.org/Pages/default.aspx

- **AASHTO Product Evaluation List (APEL):**

  http://apel.transportation.org/

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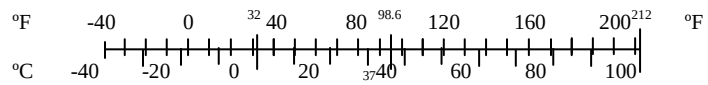
METRIC CONVERSION FACTORS

APPROXIMATE CONVERSIONS TO METRIC MEASURES

SYMBOL	WHEN YOU KNOW	MULTIPLY BY	TO FIND	SYMBOL
		LENGTH		
in	inches	25.4	millimeters	mm
ft	feet	0.305	meters	m
yd	yards	0.914	meters	m
mi	miles	1.61	kilometers	km
		AREA		
in^2	square inches	645.2	square millimeters	mm^2
ft^2	square feet	0.093	square meters	m^2
yd^2	square yards	0.836	square meters	m^2
mi^2	square miles	2.59	square kilometers	km^2
ac	Acres	0.405	hectares	ha
		MASS		
oz	ounces	28.35	grams	g
lb	pounds	0.454	kilograms	kg
T	short tons (2000 lb.)	0.907	Megagrams	Mg
		VOLUME		
fl oz	fluid ounces	29.57	milliliters	ml
gal	gallons	3.785	liters	l
ft^3	cubic feet	0.028	cubic meters	m^3
yd^3	cubic yards	0.765	cubic meters	m^3
		TEMPERATURE (exact)		
ºF	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	ºC

APPROXIMATE CONVERSIONS FROM METRIC MEASURES

SYMBOL	WHEN YOU KNOW	MULTIPLY BY	TO FIND	SYMBOL
		LENGTH		
mm	millimeters	0.039	inches	in
m	meters	3.28	feet	ft
m	meters	1.09	yards	yd
km	kilometers	0.621	miles	mi
		AREA		
mm^2	square millimeters	0.0016	square inches	in^2
m^2	square meters	10.764	square feet	ft^2
m^2	square meters	1.195	square yards	yd^2
km^2	square kilometers	0.386	square miles	mi^2
ha	hectares (10,000 m^2)	2.47	acres	ac
		MASS		
g	grams	0.035	ounces	oz
kg	kilograms	2.202	pounds	lb
Mg	Megagrams (1000 kg)	1.103	short tons	T
		VOLUME		
ml	milliliters	0.034	fluid ounces	fl oz
l	liters	0.264	gallons	gal
m^3	cubic meters	35.314	cubic feet	ft^3
m^3	cubic meters	1.307	cubic yards	yd^3
		TEMPERATURE (exact)		
ºC	Celsius temperature	9/5 (then add 32)	Farenheit temperature	ºF



Revised: (06 /2015)

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Categories of Products for Use on Municipal or
Other Non-ConnDOT Systems.....54

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Addendum

Date:	Item Changed	Page #
12/15	Retroreflective wording replaced /corrected.	39-46
12/15	Road Systems Inc. Phone number updated: 330-799-9291.	33-35
12/15	Bituminous Concrete Patching Materials (Cold Patch) Regulation ref. correction	13
12/15	Name change, “Simpson Strong-Tie Epoxy Tie” to “ET-HP”.	16
12/ 30	Labeling/Marketing of identical product under different name. Pure50+ = Pure GP	16

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Qualified Product Lists

The following pages contain lists, which are directly referenced in the standard specifications as Qualified Products Lists. These lists will be updated annually, and no product may be used in these categories unless it is shown on an appropriate list.

Bituminous Concrete Patching Materials (Cold Applied):

SPECIFICATION: REFERENCE FILE No. 2011-01

PREAPPROVAL CRITERIA: Compliance with Section 22a-174-20(k) of the Regulations of Connecticut

BRAND NAME	SUPPLIER/LOCATION
Aquaphalt	HI TECH ASPHALT SOLUTIONS INC 5113 Pole Green Road Mechanicsville, VA 23116-5432 www.aquaphalt.com
EZ Street Cold Asphalt	The EZ Street Company Mr. Tom Francione 1786 NW 82 Avenue Miami, FL 33126 www.ezstreetasphalt.com
GreenPatch	Cold Mix Manufacturing Corp. 120-30 28TH Ave Flushing, NY 11354 Mr. Scott Herman Office: 914-755-4575 www.GREENPATCH.com Local Distributor: O&G Industries, Inc. Office: 860-489-9261 112 Wall Street Torrington, CT 06790
Plus Patch Asphalt Emulsion	Tri-Products, LLC Mr. Mike Jennings 89 Ship Street Providence, RI 02903 www.hudsoncompanies.com/hag/triproducts.asp
ProLine Cold Asphalt Patching Material	Logan County Asphalt Mr. Steven McBride 2905 Commerce Blvd. Guthrie, OK 73044 www.prolinecoldasphalt.com/predistributors.php
QPR	Quality Pavement Repair Mr. Anthony J. Fargnoli 154 Bouckhart Avenue Rochester, NY 14622 www.qprcoldpatch.com

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Qualified Product Lists – continued

Chemical Anchors:

SPECIFICATION: Form 816, M.03.07

PREAPPROVAL CRITERIA:

1. ASTM E-1512 pullout test by an independent laboratory.

2. The use of all chemical anchors (referenced in Standard Specifications Section M.03.07) in sustained tensile-load overhead applications is prohibited where failure of the chemical adhesive would result in a risk to the public. This applies to all design and ongoing construction projects. Other anchorage alternatives must be used for such applications.

SUPPLIER/LOCATION	BRAND NAME
A A & P Foglia, Inc. 14 14 Hickory Drive Ea East Brunswick, NJ 08816	Magnabond
Adhesives Technology Corp. 450 East Copans Road Pompano Beach, FL 33064 www.atcepoxy.com.	Ultrabond HS200 Ultrabond 1300 Ultrabond 1 Ultrabond 2
Covert Operations Inc. 1940 Freeman Avenue Signal Hill, CA 90755	CIA Gel 7000
Dayton Superior Chemical Division 4226 Kansas Avenue Kansas City, KS 66106 www.daytonsuperiorchemical.com	Sure Anchor I (J-51) ResCon 304 (Symons) Highway Fast Set Epoxy (AHT)
Fosroc, Inc. 150 Carley Court Georgetown, KY 40324	Thoroc Anchor Bond Thoroc Anchortite
Hilti, Inc. P.O. Box 21148 Tulsa, OK 74121 www.us.hilti.com	Hilti HIT HY150MAX Hilti HTE50 Hilti HVA Capsules Hilti RE500 Hilti HY-200
ITW Ramset/Red Head 1300 North Michael Drive Wood Dale, IL 60191 www.ramset-redhead.com	Epcon Acrylic 7 Epcon Ceramic 6 Granite 5
Kelken Construction Systems P.O. Box 284 Parlin, NJ 08859 www.kelken.com	Kelibond Anchors Keligrout Keligrout 101
MKT Fastening LLC #1 Gunnebo Drive Lonoke, AR 72086 www.mktfastening.com	Liquid Roc 300 28oz. Twin Tube Liquid Roc 300 Polyester Pump Liquid Roc 300 Capsule Anchors Liquid Roc 500 Epoxy Twin Tube

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Qualified Product Lists - continued

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SUPPLIER/LOCATION	BRAND NAME
Polygem, Inc. 1105 Carolina Ave. West Chicago, IL 60185 www.polygem.com	Polybac 1257
Powers Fasteners, Inc. 2 Powers Lane Brewster, NY 10509 www.powers.com	AC 100+ GOLD Chem-Stud PE1000+ T308+ PURE50+ PURE GP PURE110+
Simpson StrongTie Anchoring Systems 4120 Dublin Boulevard, Suite 400 Dublin, CA 94568 www.simpsonanchors.com	ET-HP (formally known as Simpson Strong-Tie Epoxy-Tie) Simpson Strong-Tie Acrylic-Tie EDOT
Unisorb Installation Technologies P.O. Box 1000 Jackson, MI 49204-1000 www.unisorb.com	Unisorb Capsule Anchor
Unitex 3101 Gardner Kansas City, MO 64120 www.unitex-chemicals.com	Pro-Poxy 300 Fast Pro-Poxy 300 Sonneborn Epogel (ChemRex Inc.)
W.R. Meadows, Inc. 300 Industrial Drive Hampshire, IL 60140 www.wrmeadows.com	Sealtight Rezi-Weld Gel Paste UCE
Wejit Inc. 7737 Japine Dr. Liverpool, NY 13090 315-396-8063 (Cell) www.wejit.com	Inject-TITE Fast Set Inject-TITE AWF (All Weather Formula)
USP Structural Connectors 14305 Southcross Dr – Suite 200 Burnsville, MN 55306 http://www.uspconnectors.com	CIA-GEL 6000-GP

Detectable Warning – (i.e. ADA Truncated Dome Detectable Warning Systems)

SPECIFICATION: ConnDOT Special Provision:

- Item #0921001A – Concrete Sidewalk
- Item #0921036A – Retrofit Detectable Warning Strip
- Item #0921005A – Concrete Sidewalk Ramp
- Item #0921039 – Detectable Warning Strip

PREAPPROVAL CRITERIA:

- Federal Standard 595A Color #22144 or approved equal.

PRODUCT BRAND NAME	SUPPLIER/LOCATION
Armor-Tile Tactile System • Cast-In-Place System • Surface Applied System (Retrofit)	**Armor-Tile** 300 International Drive, Suite 100 Williamsville, NY 14221 (800) 682-2525 www.armor-tile.com/
Detectable Warning Tile • Cast-In-Place Tactile • Surface Applied Tactile (Retrofit) • Cast-In-Place Replaceable Tactile	**ADA SOLUIONS INC.** P.O Box 179 North Billerica, MA 01862 (978) 262-9900 www.adatile.com
***alerttile*® Detectable Warnings** • alerttile Surfaced Applied • alertcast Cast-In-Place	**Cape Fear Systems, LLC** 215 South Water Street Suite 103 Wilmington, NC 28401 (800) 456-5263 www.alerttile.com/
DURALAST Detectable Warning Plates • Cast Iron Uncoated Natural Finish	**East Jordan Iron Works** 5000 Airport Rd PO Box 439 East Jordan MI 49727 USA 231-536-2261 www.ejco.com

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Qualified Product Lists – continued

Embankment Walls:

SPECIFICATION: ConnDOT Special Provision:

- ITEM #0601445A - #0601449A (SITE NO. 1 thru 5)
- ITEM #0601490A - #0601495A (SITE NO. 6 thru 11)

PREAPPROVAL CRITERIA:

- LRFD Bridge Design Specification

PRODUCT BRAND NAME	SUPPLIER/LOCATION
VERSA-LOK Retaining Wall	VERSA-LOK of New England 5 Northern Blvd., Unit 15 Amherst, NH 03031 Tel: 603-883-3042 Email: Sales@wallsthatwork.com Website: www.versa-Lok.com
MESA Retaining Wall System	TENSAR Earth Technology, Inc. 227 Ritter Road Sewickley, PA 15143 (412) 749-9190
KeySystem I Retaining Wall	Keystone Retaining Wall Systems 4444 West 78th Street Bloomington, MN 55435 952-897-1040 jfriederichs@keystonewalls.com www.keystonewalls.com
Pyramid Modular Blockwall	The Reinforced Earth Company 133 Park Street North Reading, MA 01864 Tel: 978-664-2830 Email: PAnderson@reinforcedearth.com Website: www.reinforcedearth.com
Redi-Rock Retaining Wall- Cobblestone Face Mold	Redi-Rock Walls - CT Division 68A South Canal Street Plainville, CT 06062 (860) 793-6805

Retaining Walls - Prefabricated Modular Walls:

SPECIFICATION:

ConnDOT Special Provision:

- ITEM #0601651A-0601680A RETAINING WALL

PREAPPROVAL CRITERIA:

- LRFD Bridge Design Specification

PRODUCT BRAND NAME	SUPPLIER/LOCATION
Doublewal-Standard Module	Doublewal Corporation 7 West Main Street Plainville, CT 06062 (860) 793-0295
T-Wall Retaining Wall System	The Neel Company 8328-D Traford Lane Springfield, VA 22152 (703) 913-7858

Retaining Walls - Mechanically Stabilized Earth (MSE) Walls

SPECIFICATION:

ConnDOT Special Provision:

- ITEM #0601651A-0601680A RETAINING WALL

PREAPPROVAL CRITERIA:

- LRFD Bridge Design Specification

PRODUCT BRAND NAME	SUPPLIER/LOCATION
Reinforced Earth Walls	The Reinforced Earth Company 133 Park Street North Reading, MA 01864 (978) 664-2830
Retained Earth	The Reinforced Earth Company 1372 Oldbridge Road, Suite 101 Woodbridge, VA 22192 (703) 499-9818
Tricon Retained Soil Wall System	TEG Engineering, LLC 1505 44th Street Wyoming, MI 49509

Erosion Control Matting:

SPECIFICATION: Form 816 Section 9.50 & M.13.09
PREAPPROVAL CRITERIA: See below

In general, organic materials are cheaper than synthetics, will photo-degrade after a period of time leaving a naturally vegetated channel, and are adequate for channels, which are expected to carry storm water flows not exceeding 95.76 Pa shear stress. Synthetic materials generally do not photo-degrade and often remain as a permanent element within a drainage channel, although more expensive, synthetic materials are generally best for critical channels which will carry high flows or velocities of storm water runoff.

Minimum Performance Standards

Erosion control matting is evaluated for use in eight Types, grouped in two Classes. In order for a product to be placed upon the Department's Qualified Products List, it must meet the following Minimum Performance Standards.

CLASS 1: Slope Protection – Classification is based upon steepness of slope and soil type. The purpose is to protect the seedbed from loss of sediment and promote the establishment of a warm season, perennial vegetative cover.

Type A. Slopes 3:1 or Flatter – Clay Soils
Type B. Slopes 3:1 or Flatter – Sandy Soils
Type C. Slopes Steeper than 3:1 – Clay Soils
Type D. Slopes Steeper than 3:1 – Sandy Soils

Minimum Acceptable Vegetation Density Standards[1]

	Clay Soils	Sandy Soils
Slopes 3:1 or Flatter	80%	70%
Slopes steeper than 3:1	80%	70%

Minimum Acceptable Sediment Loss Standards (kg/10 m^2)[1]

	Clay Soils	Sandy Soils
Slopes 3:1 or Flatter	0.35	12.00
Slopes steeper than 3:1	0.35	27.00

CLASS 2: Flexible Channel Liner Protection – Classification is based upon the permissible shear stress[2] (T_p) present. The purpose is to protect the geometry of the channel from loss of sediment, and to promote the establishment of a warm-season, perennial vegetative cover.

Type E. Permissible shear stress: <25 Pa
Type F. Permissible shear stress: 25 to <50 Pa
Type G. Permissible shear stress: 50 to <100 Pa
Type H. Permissible shear stress: ≥100 Pa

T_p, the permissible shear stress, indicates the force required to initiate the movement of the lining material.

Minimum Acceptable Vegetation Density Standards[1]

70%

Minimum Acceptable Sediment Loss Standards[1]

	Average Soil Deformation (cm)
Shear Stress 1 to 100 Pa	1.15
Shear Stress > 100 Pa	1.00

Erosion Control Matting:

SPECIFICATION: Form 816, Section 9.50 & M.13.09

PREAPPROVAL CRITERIA: It should be recognized that those products listed by brand or trade name on the Qualified Products List have demonstrated their ability to meet or exceed the Department's minimum Performance standards. It is the Contractor's option as to which product he or she actually uses on a project, provided that the product used is on the Qualified Products List for that application.

It will be the district's responsibility to verify that the Erosion Control Matting proposed by the Contractor is, in fact, listed as an acceptable product on the Qualified Products List.

It should also be recognized that the decision to undergo testing for possible approval rests solely with the manufacturers or distributors of Erosion Control Matting. The Department has created a fair but rigorous testing process for Erosion Control Matting. The Department does not choose or stipulate which products are to be tested.

The Department's position is that, while we encourage the evaluation of new products for possible use in our operations, we cannot utilize a product that has not been tested and approved through the Department's evaluation process.

As new products are tested on an annual basis, those meeting our requirements will be added to the Qualified Products List. If, by the time actual field installation of Erosion Control Matting commences on a project, new products have been added to the Qualified Products List, the Contractor may elect to use these newly approved products even though they were not an "approved" product at the time bids were received on the project.

[1] Final Performance Analysis – 1995 Evaluation Cycle, Texas DOT/Texas Transportation Institute, Hydraulics and Erosion Control Laboratory, February 1996.

[2] Shear Stress ranges based on values published in FHWA Hydraulic Engineering Circular No. 15 (HEC-15), Design of Roadside Channels with Flexible Linings, Publication No. FHWA-ZP-87-7, April 19

Erosion Control Matting:

SPECIFICATION: Form 816, Section 9.50 & M.13.09
PREAPPROVAL CRITERIA: Certified Test Report

	CLASS 1: SLOPE PROTECTION *				CLASS 2: FLEXIBLE CHANNEL LINER PROTECTION			
	TYPE A	**TYPE B**	**TYPE C**	**TYPE D**	**TYPE E ***	**TYPE F ***	**TYPE G ***	**TYPE H ****
American Excelsior Co. 831 Pioneer Avenue Rice Lake, WI 54868 www.curlex.com	AEC Premier StrawSingleNet AEC Premier StrawDoubleNet Curlex I CL Curlex NetFree Curlex I AEC Premier Straw/Coconut AEC Premier Coconut Curlex II Bindex BFM	AEC Premier StrawSingleNet AEC Premier StrawDoubleNet Curlex I CL Curlex NetFree Curlex I AEC Premier Straw/Coconut AEC Premier Coconut Bindex BFM Curlex II CL Curlex NetFree	AEC Premier StrawDoubleNet Curlex I CL Curlex I AEC Premier Straw/Coconut AEC Premier Coconut Bindex BFM	AEC Premier StrawDoubleNet Curlex I CL Curlex I AEC Premier Straw/Coconut AEC Premier Coconut Curlex II Bindex BFM Curlex II CL Curlex NetFree	AEC Premier StrawDoubleNet AEC Premier Straw/Coconut Curlex II Curlex II CL Curlex III Curlex Enforcer AEC Premier Coconut Recyclex Recyclex TRM-V	AEC Premier StrawDoubleNet AEC Premier Straw/Coconut Curlex II Curlex II CL Curlex III Curlex Enforcer AEC Premier Coconut Recyclex Recyclex TRM-V	Curlex Enforcer Recyclex Recyclex TRM-V	Curlex Enforcer Recyclex Recyclex TRM-V
Belton Industries 8613 Roswell Rd. Atlanta, GA 30350		Geocoir/ DeKoWe 700&900		Geocoir/ DeKoWe 700&900				
Contech Construction Products, Inc. 265 Highland Avenue Cheshire, CT 06410 www.contech-cpi.com	Ero-Mat Ero-Mat Standard Hi-Velocity Ero-Mat	Ero-Mat Ero-Mat Standard	High-Velocity Ero-Mat					

* Products listed in this category are generally temporary (bio- or photo-degradable). Exceptions are noted.
** Products listed in this category are generally permanent (non-bio- or non-photo-degradable). Exceptions are noted.

TYPE E – Generally includes, but is not limited to, Woven Paper Net, Jute Net.
TYPE F – Generally includes, but is not limited to, Fiberglass Roving (single or double).
TYPE G – Generally includes, but is not limited to, Straw with Net, Curled Wood Mat.
TYPE H – Generally includes, but is not limited to, Synthetic N

Erosion Control Matting:

SPECIFICATION: Form 816, Section 9.50 & M.13.09
PREAPPROVAL CRITERIA: Certified Test Report

	CLASS 1: SLOPE PROTECTION *				CLASS 2: FLEXIBLE CHANNEL LINER PROTECTION			
	TYPE A	**TYPE B**	**TYPE C**	**TYPE D**	**TYPE E ***	**TYPE F ***	**TYPE G ***	**TYPE H ****
Conwed Fibers 219 Simpson Street Conover, NC 28613	Futerra Mat	Futerra Mat						
East Coast Erosion Blankets 443 Bricker Rd Bernville, PA 19506	ECS - 1 ECS - 1B ECS - 1D ECS – 2 ECS - 2D ECS - 2B ECSC - 2 ECSC - 2B ECX -1 ECX – 2	ECS -1 ECS -1B ECS -1D ECS – 2 ECS - 2D ECS - 2B ECSC- 2&2B ECX -1 ECX – 2 EC-7Y & 9Y	ECS – 2 ECS - 2D ECS - 2B ECSC- 2 ECSC- 2B ECX -1 ECX - 2 ECC-2 & 2B ECC-3 ECP-2	ECS – 2 ECS - 2D ECS - 2B ECSC - 2 ECSC - 2B ECX -1 & 2 ECC-2 & 2B ECC-3 ECP-2 EC-7Y &9Y	ECC-2 ECC-2B ECC-3 ECP-2 T-RECS ECP-2 10oz ECP-3 ECSC-3	ECC-2 ECC-2B ECC-3 ECP-2 T-RECS ECP-2 10oz ECP-3 ECSC-3	ECC-2 ECC-2B ECC-3 ECP-2 T-RECS ECP-2 10oz ECP-3 ECSC-3	ECC-2 ECC-2B ECC-3 ECP-2 T-RECS ECP-2 10 oz ECP-3 ECSC-3
ErosionControlBlanket.com P.O. Box 69 Riverton, Manitoba R0C 2RO CANADA	S31UVD S31	S31UVD S31	S32UVD S32	S32UVD S32	P42 S32UVD S32	P42 S32UVD S32	P42	P42
Enviroscape ECM 22700 St. Rt. 613 Oakwood, OH 45873	S1000 S1000BD S2000 S2000BD SC3000 SC3000BD	S1000 S1000BD S2000 S2000BD SC3000 SC3000BD	C4000 C4000BD	C4000 C4000BD	S1000 S1000BD S2000 S2000BD SC3000 SC3000BD	C4000 C4000BD		
Greenstreak Group 3400 TreeCourt BLVD St. Louis, MO 63122	Pec-Mat	Pec-Mat					Pec-Mat	Pec-Mat

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TYPE H – Generally includes, but is not limited to, Synthetic N

Qualified Product Lists - continued

Erosion Control Matting:

SPECIFICATION: Form 816, Section 9.50 & M.13.09

PREAPPROVAL CRITERIA: Certified Test Report

	CLASS 1: SLOPE PROTECTION *				CLASS 2: FLEXIBLE CHANNEL LINER PROTECTION			
	TYPE A	**TYPE B**	**TYPE C**	**TYPE D**	**TYPE E ***	**TYPE F ***	**TYPE G ***	**TYPE H ****
North American Green 14649 Highway 41 Evansville, IN 47711	S150 S150BN SC150 SC150BN S75&S75BN	S150 S150BN SC150 SC150BN S75&S75BN	S150 S150BN SC150 SC150BN	S150 SC150 S150BN SC150BN C125&C125 BN	P300 C125 C125BN	P300	P300	P300 C350 Biodegradable
SI Geosolutions (formally known as Synthetic Industries) 6025 Lee Highway Chattanooga, TN 37421 www.fixsoil.com	Landlok: TRM435 S1 S2 CS2 unseeded	Landlok: TRM 435 S1 S2 CS2 unseeded	Landlok: TRM 435 C2 S2 CS2 unseeded	Landlok: TRM 435 C2 S2 CS2 unseeded	Landlok: TRM 435 TRM1060 TRM 450 C2	Landlok: TRM 435 TRM 1060 TRM 450 C2	Landlok: TRM 435 TRM 1060 TRM 450 C2	Landlok: TRM 435 TRM 1060 TRM 450 Pyramat SFB 12
US Erosion Control Products 1034 Albany Ave W. Pearson, GA 31642							US-1S, US-2S, US-2S/C, US-2C,	US-2P10, US-2P12,
Verdyol Alabama, Inc. P.O. Box 605 407 Miles Parkway Pell City, AL 35125	Ero-Mat: Standard Excelsior: Standard Hi-Velocity	Ero-Mat: Standard Excelsior: Standard	Excelsior: Hi-Velocity					
Western Excelsior Corp. 4609 E Boonville-New Harmony Rd Evansville, IN 47725	Excel SR-1 Excel SS-2 Excel R-1 Excel S-2	Excel SR-1 Excel SS-2 Excel R-1 Excel S-2	Excel SS-2 Excel S-2	Excel SS-2 Excel S-2	Excel S-2 ExcelSD-3 Excel PP5-8	Excel SD-3 Excel PP5-8	Excel PP5-8 Excel PP5-10 Excel PP5-12	Excel PP5-10 Excel PP5-12

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Qualified Product Lists - continued

Geotextiles:

SPECIFICATION: Form 816, Sections 2.19, 7.51, 7.55 and M.08.01-19
PREAPPROVAL CRITERIA: Certified Test Report According to AASHTO M 288

The following list denotes those geotextiles that are approved for use on ConnDOT projects. The categories listed are in accordance with the AASHTO M 288 specification. Geotextile selection shall be based on the following definitive information and the applicable design criteria.

1. **Subsurface Drainage** – Geotextiles within this category shall be used for, but not limited to the following applications: pavement edge drains; interceptor drains; wall drains; recharge basins and relief wells. The geotextile shall be designed to allow the passage of water normal to its surface while retaining in situ soil without clogging. Class A drainage applications for fabrics are where installation stresses are more severe than Class B applications; i.e., very coarse, sharp, angular aggregate is used; a heavy degree of compaction (95% or greater by AASHTO method T 99) is specified; or depth of trench is greater than 3.00 m. Class B drainage applications are those where the fabric is used with smooth graded surfaces having no sharp angular projections, no sharp angular aggregate is used; compaction requirements are light (less than 95% by AASHTO method T 99); and trenches are less than 3.00 m in depth.

2. **Sediment Control** – Geotextiles within this category shall be used as a barrier-fence designed to remove suspended particles from the water that passes through it. "Wire Supported" signifies that fabric is supported with a mesh made of wire or plastic.

3. **Erosion Control** – Geotextiles within this category shall be used for, but not limited to the following applications: cut and fill slope protection; protection of various small drainage structures and ditches, wave protection for causeways and shoreline roadway embankments and scour protection for structures such as bridges and abutments. The geotextile shall be designed to allow the passage of water while retaining in situ soil without clogging. Class A erosion control applications are those where the fabrics are used under conditions where installation stresses are more severe than Class B, i.e., aggregate placement height should be less than 1.00 m, and aggregate weights should not exceed 115.00 kg. Class B erosion control applications are those where the fabric is used in structures or under conditions where the fabric is protected by a sand cushion or by "zero drop height" placement of aggregate.

4. **Separation** – Geotextiles within this category shall be used for, but are not limited to, the following applications: separation of dissimilar materials, such as subgrades and pavement base courses and zones in embankments, foundations and select fill materials. When soil stabilization is the primary concern, the Design Engineer is cautioned that a detailed process must be followed, taking into consideration not only the separation properties of the geotextile, but its reinforcement function as well. The geotextile shall be designed to allow the passage of water while retaining in situ soil without clogging

Qualified Product Lists - continued

Geotextiles:

SPECIFICATION: Form 816, Sections 2.19.02, 7.51, 7.55 and M.08.01-19
PREAPPROVAL CRITERIA: Certified Test Report According to AASHTO M 288

	SUBSURFACE DRAINAGE		SEDIMENT CONTROL		EROSION CONTROL		SEPARATION	
	Class A	Class B	Wire Supported	Self Supported	Class A	Class B	High Surviv.	Medium Surviv.
A.H. Harris & Sons Inc. P.O. Box 311058 367 Alumni Road Newington, CT 06131			Harris Siltfence	Harris Siltfence				
American Engineering Fabrics, Inc. 1 Coffin Ave. New Bedford, MA 02746 www.boomenviro.com	AEF: 880 1080 1280 600W 650W 200W 300W	AEF: 480 480HS 680 880 1080 1280 600W 650W 200W 300W 100W 130W 150W	AEF: 180W	AEF: 100W 150W 180W	AEF: 880 1080 1280 650W 300W	AEF: 480 480HS 680 880 1080 1280 650W 300W 100W 180W	AEF: 1080 1280 300W	AEF: 880 1080 1280 600W 200W 300W
Belton Industries, Inc. P.O. Box 127 Belton, SC 29627 www.boomenviro.com	768 769 977 1475	307 308 751 768 769 977 1475	940	307 940	769 1475	307 769 940 1475	1475	768 977 1475
BBA Fiberweb Inc. 70 Old Hickory Blvd. Old Hickory, TN 37138		Typar: 3401G	Typar: 3401G	Typar: 3401G		Typar: 3401G	Typar: 3631G	Typar: 3401G

* Product is satisfactory only where the affected soil contains less than 50% material, by weight, passing the number 200 sieve.

Qualified Product Lists - continued

Geotextiles:

SPECIFICATION: Form 816, Sections 2.19.02, 7.51, 7.55 and M.08.01-19
PREAPPROVAL CRITERIA: Certified Test Report According to AASHTO M 288

	SUBSURFACE DRAINAGE		SEDIMENT CONTROL		EROSION CONTROL		SEPARATION	
	Class A	**Class B**	**Wire Supported**	**Self Supported**	**Class A**	**Class B**	**High Surviv.**	**Medium Surviv.**
Carthage Mills 4243 Hunt Road Cincinnati, OH 45242 www.carthagemills.com	FX-75NW Carthage-6%	FX-35HS FX-40HS FX-35NW FX-40NW FX-75NW Carthage-6%	FX-11	FX-11	FX-75NW FX-55 * FX-66 Carthage-6%	FX-35HS FX-40HS FX-35NW FX-40NW FX-33 FX-44 FX-75NW FX-55 * FX-66 Carthage-6%	FX-66 FX-75NW	FX-55 * FX-66 FX-75NW
DGI Industries P.O. Box 16522 Hooksett, NH 03442 www.dgiindustries.com			CT138036 CT213036	CT138036 CT213036				
Evergreen Technologies Inc. (Div. of Tensar) 200 Miller Sellers Dr. Evergreen, AL 36401	TG650	TG650 TG500 TG420 *	TG420	TG550	TG700	TG700 TG500 TG420 *	TG650	TG650 TG500
First Line Corp. P.O. Box 68 Pearson, GA 31642			CSF 330	CSF 330				
Hanes Geo Components 815 Buxton St. Winston-Salem, NC 27101 www.hanesgeo.com	Terratex: EP NO8	Terratex: SD NO4 EP NO8 SO4	Terratex: SC SC-90	Terratex: SC SC-90	Terratex: GS * NO8	Terratex: SD NO4 GS-150 * GS * NO8	Terrate x: HD * EP	Terratex: GS * NO8 HD * EP
Hoechst Celanese Corp. P.O. Box 5650 Spartanburg, SC 29304-5650			Trevira: 011/140			Trevira: 011/140		Trevira: 011/200

* Product is satisfactory only where the affected soil contains less than 50% material, by weight, passing the number 200 sieve.

Qualified Product Lists - continued

Geotextiles:

SPECIFICATION: Form 816, Sections 2.19.02, 7.51, 7.55 and M.08.01-19
PREAPPROVAL CRITERIA: Certified Test Report According to AASHTO M 288

	SUBSURFACE DRAINAGE		SEDIMENT CONTROL		EROSION CONTROL		SEPARATION	
	Class A	Class B	Wire Supported	Self Supported	Class A	Class B	High Surviv.	Medium Surviv.
Indian Valley Industries Inc. 60-100 Corliss Avenue Johnson City, NY 13790 www.iviindustries.com			CT-3611	CT-3611		CT-3611		
LINQ Industrial Fabrics, Inc. 4550 W. Fifth North St. Summerville, SC 29483	180EX 225EX 250EX 275EX 350EX	180EX 125EX 130EX 150EX 225EX 250EX 275EX 350EX	180 102 104 105	180 102 104 105	180EX 225EX 250EX 275EX 350EX GTF 400E	180EX 125EX 130EX 150EX 225EX 250EX 275EX 350EX GTF 400E	180EX 225EX 250EX 275EX GTF 300 * 350#X Typar: 3631	180EX GTF 200S GTF 200 * GTF 300 * 130EX 150EX 225EX 250EX 275EX 350EX
Mutual Industries Inc. 707 West Grange Street Philadelphia, PA 19120			MISF 1830 MISF 1855	MISF 1830 MISF 1855				
OnSite Systems, Inc. P.O. Box 241166 Charlotte, NC 28224			WCF 120	WCF 120	WCF 200	WCF 150 WCF 200	WCF 300	WCF 200 WCF 300
Propex Geosolutions 6025 Lee Highway Suite 425 PO Box 22788 Chattanooga, TN 37422 www.geotextile.com	Geotex 104F 135ST 102F 200ST 401 701 801 1071 1291 1701	Geotex 200ST 311 351 401 451 501 601 701 801 1071 1291 1701		Geotex 117F 2130	Geotex 104F 200ST 315ST 102F 801 1071 1291 1701	Geotex 104F 200ST 315ST 102F 351 401 451 601 801 1071 1291 1701	Geotex 315ST 2x2HF 701 801 1071 1291 1701	Geotex 200ST 315ST 2x2HF 451 501 601 701 801 1071 1291 1701

* Product is satisfactory only where the affected soil contains less than 50% material, by weight, passing the number 200 sieve.

Qualified Product Lists - continued

Geotextiles:

SPECIFICATION: Form 816, Sections 2.19.02, 7.51, 7.55 and M.08.01-19
PREAPPROVAL CRITERIA: Certified Test Report According to AASHTO M 288

	SUBSURFACE DRAINAGE		SEDIMENT CONTROL		EROSION CONTROL		SEPARATION	
	Class A	**Class B**	**Wire Supported**	**Self Supported**	**Class A**	**Class B**	**High Surviv.**	**Medium Surviv.**
SKAPS INDUSTRIES 335 ATHENA DRIVE ATHENS, GA 30601	M706 GT170 GT180	GT131 GT135 GT140 GT142 M706	GT135 W100	W100	SW200* Sw315* GT180 M706	GT135 GT140 GT142 SW200* SW315*	M760 SW315* GT170 GT180	M706 GT140 GT142 SW200* SW315* GT180
TenCate Geosynthetics North America (formally TC Mirafi) 365 South Holland Drive Pendergrass, GA 30567 www.tencate.com	FW404 FW500 FW700 170N 180N	FW404 FW500 FW700 140N 140NL 135N 140NC	FW500 100X FW700	FW404 FW500 FW700 100X Enviro- Fence	FW404 FW500 FW700 180N 500X * 600X *	FW404 FW500 FW700 140N 140NL 500X * 600X *	HP370 FW404 FW500 FW700 600X * 170N 180N	FW500 FW700 140N 500X * 550X 600X *
TNS Advanced Technologies Inc. 681 DeYoung Road Greer, SC 29651	R070 R080	R031 R035 R040 R042	R035	W 280	R080	R035 R040 R042	R070 R080	R042
US Silt & Site Supply/ GETSco sales@ussilt.com PH: 603-225-4600 X10 www.ussilt.com			CT36112130	CT36112130				
Willacoochee Industrial Fabrics, Inc. PO Box 599 769 W Main St Willacoochee, GA 31650 www.winfabusa.com	WINFAB: 2199 200W 400N 700N 800N 1000NE	WINFAB: 600N 700N 800N 1000NE			WINFAB: 2199 200W 315W 800N 1000NE	WINFAB: 2199 200W 315W 400N 600N 700N 800N 1000NE	WINFAB: 315W 700N 800N 2x2HF 1000NE	WINFAB: 200W 315W 600N 700N 800N 2x2HF 1000NE

* Product is satisfactory only where the affected soil contains less than 50% material, by weight, passing the number 200 sieve.

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Qualified Product Lists - continued

Impact Attenuation Systems:

SPECIFICATION: Form 816 Section 18.00 thru 18.06

PREAPPROVAL CRITERIA: Written approval from FHWA for use on National Highway System roads and Crash Tested in accordance with "National Cooperative Highway Research (NCHRP) Report 350 – Recommended Procedures for the Safety Performance Evaluation of Highway Features" Test Level 3 criteria *or* Crash tested in accordance with "AASHTO Manual for Assessing Safety Hardware (MASH)" Test Level 3 criteria

Comments: For all attenuators, see the ConnDOT Highway Design Manual for guidance.

System	Manufacturer or Distributor	Energy Absorbing	Trans. to Rigid System Required	Available Widths (Barrel Size)	Available Lengths	Deck Structure Required	Bi-direct Capable	Redirect Capable	Comments
TYPE A IMPACT ATTENUATION SYSTEMS									
CrashGard (BARRELS)	Distributed by Plastic Safety Systems Inc. 1-800-662-6338	No	No	6.5 to unlimited (48" Tall x 36" Dia.)	TL-3 :approx. 28'	No	Yes	No	*Primarily used as a temporary barrier. System is fully gating.
FITCH UNIVERSAL MODULE BARRELS	Distributed by TRANSPO 1-800-321-7870	No	No	6.5' to unlimited (36" Tall x 36" Dia.)	TL-3: 18' to 40'	No	Yes	No	**Primarily used as a temporary barrier. System is fully gating.
ENERGITE III (BARRELS)	Distributed by TRANSPO 1-800-321-7870	No	No	6.5 to unlimited (36" Tall x 36" Dia.)	TL-3: 18' to 40'	No	Yes	No	**Primarily used as a temporary barrier. System is fully gating.
BIG SANDY	TrafFix Devices Inc. 1-949-361-5663 ext. 219	No	No	80" (36" Tall x 36" Dia.)	TL-1: approx. 14' TL-3: approx. 29'	No	Yes	No	**Primarily used as a temporary barrier. System is fully gating.

* Interchangeable with other approved sand barrel systems, however, this system must be installed in the back due to height.
** Interchangeable with other approved sand barrel systems.

Qualified Product Lists - continued

Impact Attenuation Systems:

SPECIFICATION: Form 816 Section 18.00 thru 18.06

PREAPPROVAL CRITERIA: Written approval from FHWA for use on National Highway System roads and Crash Tested in accordance with "National Cooperative Highway Research (NCHRP) Report 350 - Recommended Procedures for the Safety Performance Evaluation of Highway Features" Test Level 3 criteria *or* Crash tested in accordance with "AASHTO Manual for Assessing Safety Hardware (MASH)" Test Level 3 criteria

Comments: For all attenuators, see the ConnDOT Highway Design Manual for guidance.

System	Manufacturer or Distributor	Energy Absorbing	Trans. to Rigid System Required	Available Widths	Available Lengths	Deck Structure Required	Bi-direct Capable	Redirect Capable	Comments
TYPE B IMPACT ATTENUATION SYSTEMS (TANGENTIAL)									
*SKT-SP Standard Steel Post Systems	Distributed by Road Systems Inc. 330-799-9291	Yes	Yes	2'	12'-6" to length of need point, remainder is standard strong post guiderail	No	Yes, only if head of system is placed outside clear zone for opposing direction of traffic	Yes, starting at the third post & energy absorbing	Use in a median where the opposing travel way is > 30' away. Site grading required and install at 29" rail height.
BEAT	Distributed by Road Systems Inc. 330-799-9291	Yes	Yes	6" Box Beam with Impact Head at a 50:1 Offset	14'	No	No	Yes, starting at the third post	Roadside Box Beam Terminal, Energy Absorbing
WY-BET	Manufactured by Trinity Products 1-800-321-2755	Yes	Yes	6" Box Beam with Impact Head at a 50:1 Offset	48'-2"	No	No	Yes, starting at the third post	Roadside Box Beam Terminal, Energy Absorbing
X-LITE Guardrail End Terminal	Lindsay Transportation Solutions/Barrier Systems 180 River Road Rio Vista, CA 94571	Yes	Not needed if transitioning to W Beam.	Standard W Beam	50' (approved length)	N/A	Yes, shoulder.	Redirective at POST 3 & beyond	None

*Component parts are interchangeable with FLEAT system.

Qualified Product Lists - continued

Impact Attenuation Systems:

SPECIFICATION: Form 816 Section 18.00 thru 18.06

PREAPPROVAL CRITERIA: Written approval from FHWA for use on National Highway System roads and Crash Tested in accordance with "National Cooperative Highway Research (NCHRP) Report 350 - Recommended Procedures for the Safety Performance Evaluation of Highway Features" Test Level 3 criteria
or Crash tested in accordance with "AASHTO Manual for Assessing Safety Hardware (MASH)" Test Level 3 criteria

Comments: For all attenuators, see the ConnDOT Highway Design Manual for guidance.

System	Manufacturer or Distributor	Energy Absorbing	Trans. to Rigid System Required	Available Widths	Available Lengths	Deck Structure Required	Bi-direct Capable	Redirect Capable	Comments
TYPE B IMPACT ATTENUATION SYSTEMS (FLARED)									
SRT – 350 Steel Post System	Manufactured by Trinity Products 1-800-321-2755	No	Yes	18"	37.5'	No	No	Yes, starting at the third post	W-beam terminal Site grading required and install at 29" rail height
*FLEAT-SP Standard Steel Post System	Distributed by Road Systems Inc. 330-799-9291	Yes	Yes	2'	12'-6" to length of need point, remainder is standard strong post guiderail	No	No	Yes, starting at the third post & energy absorbing	W-beam terminal Site grading required and install at 29" rail height
X-LITE Guardrail End Terminal	Lindsay Transportation Solutions/Barrier Systems 180 River Road Rio Vista, CA 94571	Yes	Not needed if transitioning to W Beam.	Standard W Beam	50' (approved length)	N/A	Yes, shoulder.	Redirective at POST 3 & beyond	None

*Component parts are interchangeable with SKT system.

Qualified Product Lists - continued

Impact Attenuation Systems:

SPECIFICATION: Form 816 Section 18.00 thru 18.06

PREAPPROVAL CRITERIA: Written approval from FHWA for use on National Highway System roads and Crash Tested in accordance with "National Cooperative Highway Research (NCHRP) Report 350 - Recommended Procedures for the Safety Performance Evaluation of Highway Features" Test Level 3 criteria *or* Crash tested in accordance with "AASHTO Manual for Assessing Safety Hardware (MASH)" Test Level 3 criteria

Comments: For all attenuators, see the ConnDOT Highway Design Manual for guidance.

System	Manufacturer or Distributor	Energy Absorbing	Trans. to Rigid System Required	Available Widths	Available Lengths	Deck Structure Required	Bi-direct Capable	Redirect Capable	Comments
TYPE B IMPACT ATTENUATION SYSTEMS (MEDIAN/GORE)									
C-A-T	Manufactured by Trinity Products 1-800-321-2755	Yes	Yes	2.3'	30'-3"	No	Yes	Yes, starting at the third post	Median width 20' or more. Site grading required.
BEAT-MT	Distributed by Road Systems Inc. 330-799-9291	Yes	Yes	8" Box Beam with impact head at a 50:1 offset	32'-3"	No	Yes	Yes, starting at the third post	Median Box Beam Terminal
WY-BET (MD)	Manufactured by Trinity Products 1-800-321-2755	Yes	Yes	8" Box Beam with impact head at a 50:1 offset	48'-2"	No	Yes	Yes, starting at the third post	Median Box Beam Terminal

Qualified Product Lists - continued

Impact Attenuation Systems:

SPECIFICATION: Form 816 Section 18.00 thru 18.06

PREAPPROVAL CRITERIA: Written approval from FHWA for use on National Highway System roads and Crash Tested in accordance with "National Cooperative Highway Research (NCHRP) Report 350 - Recommended Procedures for the Safety Performance Evaluation of Highway Features" Test Level 3 criteria *or* Crash tested in accordance with "AASHTO Manual for Assessing Safety Hardware (MASH)" Test Level 3 criteria

Comments: For all attenuators, see the ConnDOT Highway Design Manual for guidance.

System	Manufacturer or Distributor	Energy Absorbing	Trans. to Rigid System Required	Available Widths	Available Lengths	Deck Structure Required	Bi-direct Capable	Redirect Capable	Comments
TYPE B IMPACT ATTENUATION SYSTEMS (NON-GATING)									
QUADGUARD Family	Distributed by TRANSPO 1-800-321-7870	Yes	No	2' to 7.5'	5.7' To 38.7'	Yes	Yes	Yes	Primarily used to shield fixed objects. Available widths are measured at back up.
TAU II	Distributed by Barrier Systems 1-856-424-8186	Yes	Yes	2'	5.3' To 28'	Yes	Yes	Yes	Primarily used to shield fixed objects. Available widths are measured at back up.
TRACC	Manufactured by Trinity Products 1-800-321-2755	Yes	No	2.6'	21'	Yes	Yes	Yes	Unit is shipped completely assembled.

Qualified Product Lists - continued

Impact Attenuation Systems:

SPECIFICATION: Form 816 Section 18.00 thru 18.06

PREAPPROVAL CRITERIA: Written approval from FHWA for use on National Highway System roads and Crash Tested in accordance with "National Cooperative Highway Research (NCHRP) Report 350 – Recommended Procedures for the Safety Performance Evaluation of Highway Features" Test Level 3 criteria *or* Crash tested in accordance with "AASHTO Manual for Assessing Safety Hardware (MASH)" Test Level 3 criteria

Comments: For all attenuators, see the ConnDOT Highway Design Manual for guidance.

System	Manufacturer or Distributor	Energy Absorbing	Trans. to Rigid System Required	Available Widths	Available Lengths	Deck Structure Required	Bi-direct Capable	Redirect Capable	Comments
TYPE B IMPACT ATTENUATION SYSTEMS (HIGH INCIDENT) - NON-GATING									
SCI100GM Family	Distributed by Onsite Inc. 1-860-669-3988	Yes	No, if under 24'-9" and no reverse direction traffic	24" to 11'	13'-6" to 50'	Yes	Yes	Yes	Primarily used in locations where a high # of accidents have occurred on high speed (NHS) high volume roadways
REACT 350 Family	Distributed by TRANSPO 1-800-321-7870	Yes	No (transition to W-beam available)	3' to 10'	15' to 30'	Yes	Yes	Yes	Primarily used in locations where a high # of accidents have occurred on high speed (NHS) high volume roadways.

Qualified Product Lists - continued

Penetrating Sealer Protective Compound – Clear or Pigmented:

SPECIFICATION: Form 816, M.03.09
PREAPPROVAL CRITERIA: Independent laboratory test results per NCHRP 244 for northern climates

TYPES OF SEALER – Each product will be assigned a category based on its physical characteristics, as follows:

P - Pigmented. Not necessarily white. Overcoat for clear.

C - Clear. Intended for use on structure wing walls, beam seats, inside faces of parapets, or as called for by the engineer. Requires pigmented sealant overcoat.

W - White. Intended for use on Jersey barrier or when called for by the engineer.

BRAND NAME	TYPE	SUPPLIER/LOCATION
Tamms Industries 3835 State Route 72 Kirkland, IL 60146	C	Baracade 16 (Formerly SMS-250 and Chemstop SMS-250)
Bay Oil Company 38 Plainfield Street Chicopee, MA 01013	C	BayGuard Salt Protector No. 244
Vexcon Chemicals 7240 State Road Philadelphia, PA 19135 www.vexcon.com	C,P	Certi-Vex Enfio Smooth VOC Certi-Vex Enfio Tex VOC Certi-Vex Powerseal 40%
Sivento, Inc. 65 Challenger Road Ridgefield Park, NJ 07660	C	CHEM-TRETE BSM 40 VOC Dynasylan BH-N
ProSoCo, Inc. 3741 Greenway Circle Lawrence, KS 66046 www.prosoco.com	C	Consolideck Saltguard WB
Princeton Chemical, Inc. P.O. Box 132 Lincoln, RI 02865	C	Crete-Shield
Degussa Building Systems 889 Valley Park Drive Shakopee, MN 55379 www.DegussaBuildingSystems.com	C,P	Enviroseal 20 Enviroseal 40 Masterseal SL40 VOC
Watson-Bowman & Acme 95 Pineview Drive Amherst, NY 14228	C,P	WABO HorseySet WDE
Modac Products Co. 600 Reed Road Broomall, PA 19008 www.modacproducts.com	C,P	Modac F
Advanced Chemical Technologies 100 W. Wilshire Blvd. Oklahoma City, OK 73116 www.advchemtech.com	C	Sil-Act ATS-42
Nox-crete Products Group P.O. Box 8102 Omaha, NE 68108 www.NOX-CRETE.com	C	Stifel-S

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Retroreflective Sheeting Type III

SPECIFICATION: Standard Specifications Section M.18.09 and a Materials Certificate submission conforming to Standard Specifications Section 1.06.07.

PREAPPROVAL CRITERIA: Conformance to ASTM D4956 and participation in the National Transportation Product Evaluation Program (NTPEP) 1-year Retroreflective Sheeting Test Deck.

Traffic Cone

Supplier	Product
3M Company Traffic Safety & Security Div. 3M Center, Building 225-3A-09 St. Paul, MN 55144-1000	3810 White 3930 White 3940 White 3310 White 3314 Orange

Qualified Product Lists – continued:

Retroreflective Sheeting Type III

SPECIFICATION: Standard Specifications Section M.18.09 and a Materials Certificate submission conforming to standard Specifications Section 1.06.07.

PREAPPROVAL CRITERIA: Conformance to ASTM D4956 and participation in the National Transportation Product Evaluation Program (NTPEP) 3-year Retroreflective Sheeting Test Deck.

Opposing Traffic Lane Divider (Flexible Sheeting)

Supplier	Product	
3M Company Traffic Safety & Security Div. 3M Center, Building 225-3A-09 St. Paul, MN 55144-1000	3930 White 3934 Orange 3940 White	3310 White 3314 Orange

Glare Screens

Supplier	Product	
3M Company Traffic Safety & Security Div. 3M Center, Building 225-3A-09 St. Paul, MN 55144-1000	3930 White 3931 Yellow 3940 White	3310 White 3314 Orange

Posts and Tubular Markers

Supplier	Product	
3M Company Traffic Safety & Security Div. 3M Center, Building 225-3A-09 St. Paul, MN 55144-1000	3930 White 3931 Yellow 3934 Orange 3940 White	3310 White 3314 Orange

Qualified Product Lists – continued:

Retroreflective Sheeting Type IV

SPECIFICATION: Standard Specifications Section M.18.09 and a Materials Certificate submission conforming to standard Specifications Section 1.06.07.

PREAPPROVAL CRITERIA: Conformance to ASTM D4956 and participation in the National Transportation Product Evaluation Program (NTPEP) 3-year Retroreflective Sheeting Test Deck.

Extruded aluminum signs, sheet aluminum signs, delineators.

Supplier	**Product**	
Avery Dennison Reflective Films Division 7542 N. Natchez Ave Niles, IL 60714	T-6500 White T-6501 Yellow T-6504 Orange	T-6505 Blue T-6507 Green T-6508 Red T-6509 Brown
Nippon Carbide Industries 12981 E. Florence Avenue Santa Fe Springs, CA 90670	94802 White 94804 Yellow 94806 Blue	
ORAFOL Americas Inc. 120 Darling Drive Avon, CT 06001	ORALITE® 5930-038 Fluorescent Orange 5900-010 White (Reflexite IC415) 5900-020 Yellow (Reflexite IC 418) 5900-030 Red (Reflexite IC412) 5900-050 Blue (Reflexite IC423) 5900-060 Green (Reflexite IC427)	
3M Company Traffic Safety & Security Div. 3M Center, Building 225-3A-09 St. Paul, MN 55144-1000	3930 White 3940 White 3945 Blue 3937 Green 3947 Green	3932 Red 3935 Blue 3939 Brown

Qualified Product Lists – continued:

Retroreflective Sheeting Type IV

SPECIFICATION: Standard Specifications Section M.18.09 and a Materials Certificate submission conforming to standard Specifications Section 1.06.07.

PREAPPROVAL CRITERIA: Conformance to ASTM D4956 and participation in the National Transportation Product Evaluation Program (NTPEP) 1-year Retroreflective Sheeting Test Deck.

Construction barricade (substrate includes aluminum, plastic and high impact styrene), opposing lane divider.

Supplier	Product	
Avery Dennison Reflective Films Division 7542 N. Natchez Ave Niles, IL 60714	T-6500 Series T-6500 White T-6504 Orange	
Nippon Carbide Industries 12981 E. Florence Avenue Santa Fe Springs, CA 90670	94802 White 94804 Yellow 94806 Blue	
3M Company Traffic Safety & Security Div. 3M Center, Building 225-3A-09 St. Paul, MN 55144-1000	3930 White 3931 Yellow 3934 Orange 3937 Green	**3310 White** **3314 Orange**
ORAFOL Americas Inc. 120 Darling Drive Avon, CT 06001	5930-038 Oralite® Fluorescent Orange **5900-010 White (Reflexite IC415)**	

Qualified Product Lists – continued:

Retroreflective Sheeting Type V (Non-Adhesive Backing, Roll-Up specific)

SPECIFICATION: Standard Specifications Section M.18.09 and a Materials Certificate submission conforming to Standard Specifications Section 1.06.07.

PREAPPROVAL CRITERIA: Conformance to ASTM D4956 and participation in the National Transportation Product Evaluation Program (NTPEP) 3-year Retroreflective Sheeting Test Deck.

Delineators - Aluminum

Supplier	Product
ORAFOL Americas Inc. 120 Darling Drive Avon, CT 06001	ORALITE® AR1000 Yellow ORALITE® AR1000 White
	ORALITE® AP1000 White ORALITE® AP1000 Yellow ORALITE® AP1000 Red

Retroreflective Sheeting Type VI

SPECIFICATION: Standard Specifications Section M.18.09 and a Materials Certificate submission conforming to Standard Specifications Section 1.06.07.

PREAPPROVAL CRITERIA: Conformance to ASTM D4956 and participation in the National Transportation Product Evaluation Program (NTPEP) 1-year Retroreflective Sheeting Test Deck.

Construction roll-up signs.

Supplier	Product
ORAFOL Americas Inc. 120 Darling Drive Avon, CT 06001	ORALITE® Orange Roll Up Sign ORALITE® Fluorescent Orange Super Bright Roll Up Sign
3M Company Traffic Safety & Security Div. 3M Center, Building 225-3A-09 St. Paul, MN 55144-1000	RS 20 Roll Up Sign Series RS 30 Roll Up Sign Series

Traffic Cone

Supplier	Product
ORAFOL Americas Inc. 120 Darling Drive Avon, CT 06001	ORALITE® 2010 Series ORALITE® 2010 White Cone Collar

Qualified Product Lists – continued:

Retroreflective Sheeting Type VIII

SPECIFICATION: Form 816 Section M.18.09

PREAPPROVAL CRITERIA: Conformance to ASTM D4956 and participation in the National Transportation Product Evaluation Program (NTPEP) 3-year Retroreflective Sheeting Test Deck(except Construction signs which require 1-year Retroreflective Sheeting Test Deck).

Construction Signs, Guide Signs

Supplier	Product
Avery Dennison Reflective Products Division 7542 N. Natchez Ave Niles, IL 60714	7000 Series 7500 White 7501 Yellow 7504 Orange 7505 Blue 7506 Green 7507 Red 7508 Brown 7529 Worboys Green W-7514 Fluorescent Orange
Nippon Carbide Industries Inc. 3136 East Victoria Street Rancho Dominguez, CA 90221	Nikkalite: 92802 White 92808 Green 92844 Fluorescent Yellow/Green 92847 Fluorescent Orange
3M Company Traffic Safety & Security Div. 3M Center, Building 225-3A-09 St. Paul, MN 55144-1000	3940 White 3945 Blue 3947 Green 3924S Fluorescent Orange 3941 Yellow 3942 Red
ORAFOL Americas Inc. 120 Darling Drive Avon, CT 06001	Oralite® 5930-038 Fluorescent Orange

Qualified Product Lists – continued

Retroreflective Sheeting Type IX

Note: Bright Wide Angle Retroreflective *sheeting has been replaced by Type IX sheeting.*

SPECIFICATION: Form 816 Section M.18.09

PREAPPROVAL CRITERIA: Conformance to ASTM D4956 and participation in the National Transportation Product Evaluation Program (NTPEP) three-year evaluation for Retroreflective sheeting(except Construction signs which require 1-year Retroreflective Sheeting Test Deck).

Sheet Aluminum Signs – Stop, ALL-Way, Yield, Wrong Way, Do Not Enter, warning, delineators.

Supplier	Product	
3M Company Traffic Safety & Security Div. 3M Center, Building 225-3A-09 St. Paul, MN 55144-1000	3990 White 3991 Yellow 3992 Red 3995 Blue 3997 Green	3981 Fluorescent Yellow 3983 Fluorescent Yellow/Green
Avery Dennison Reflective Products Division 7542 N. Natchez Ave Niles, IL 60714	T-9500 White T-9501 Yellow T-9505 Blue T-9507 Green	T-9508 Red T-9513 Fluorescent Yellow/Green W-9514 Fluorescent Orange
Avery Dennison Reflective Products Division 7542 N. Natchez Ave Niles, IL 60714	T-11500 White T-11501 Yellow T-11505 Blue T-11507 Green T-11508 Red	T-11511 Fluorescent Yellow T-11513 Fluorescent Yellow/Green W-11514 Fluorescent Orange

Traffic Drums, 42″ Traffic Cone, Traffic Cone, Construction Barricade.

Supplier	Product	
3M Company Traffic Safety & Security Div. 3M Center, Building 225-3A-09 St. Paul, MN 55144-1000	3910 Series 3910 White	3914 Fluorescent Orange 3924S Fluorescent Orange
Avery Dennison Reflective Products Division 7542 N. Natchez Ave Niles, IL 60714	WR-7100 Series 7100 White	7114 Fluorescent Orange
Avery Dennison Reflective Products Division 7542 N. Natchez Ave Niles, IL 60714	T-9500 White T-9501 Yellow T-9505 Blue T-9507 Green	T-9508 Red T-9513 Fluorescent Yellow/Green W-9514 Fluorescent Orange
Avery Dennison Reflective Products Division 7542 N. Natchez Ave Niles, IL 60714	T-11500 White T-11501 Yellow T-11505 Blue T-11507 Green T-11508 Red	T-11511 Fluorescent Yellow T-11513 Fluorescent Yellow/Green W-11514 Fluorescent Orange
ORAFOL Americas Inc. 120 Darling Drive Avon, CT 06001	Oralite® 5930-038 Fluorescent Orange	

Qualified Product Lists – continued;

Spray-Applied Membrane Waterproofing System:

SPECIFICATION: Item No. 0707009A–Membrane Waterproofing (Cold Liquid Elastomeric)

PRE-APPROVAL CRITERIA:

A) Material requirements:

1. Primer: The primer shall be a 100% reactive, acrylic based, two component, spray applied resin capable of full cure in 40 minutes at 68°F (20°C).
2. Membrane: The membrane shall be 100% solvent free reactive, acrylic based, two component, spray applied material.
3. Aggregate: The aggregate shall be a nonfriable, durable #8 aggregate stone.

B) Test Requirements:

The membrane, when tested as an 80mil layer alone or as an 80mil layer plus 40mil topping with aggregate system, shall meet or exceed the following performance requirements:

Water Vapor Transmission	ASTM E96	0.3 Perms or less
Adhesion (Concrete)	ASTM D4541	150 psi (1.0 MPa) or failure in concrete
Adhesion (Steel)	ASTM D4541	300 psi (2.1 MPa)
Minimum Tensile Strength	ASTM D638, Method A, Die C	940 psi (6.4 MPa)
Minimum Elongation at Break	ASTM D638, Method A, Die C	80%
Crack Bridging	ASTM 1305	Pass @ 10 cycles, 0.125 inch (3.2mm) -15°F (-26°C)
Resistance to Heat Aging	ASTM C1522	Pass

APPROVAL:

Submitted products will be reviewed for approval pending results of a one-year long test trial.

PROVISIONS FOR CONTINUANCE ON QPL:

All testing shall have been performed no longer than 5 years prior to the product installation date. Testing showing conformance with the above noted performance requirements shall be submitted to the Department who shall establish the "Date of Test Compliance". Products with a "Date of Test Compliance" greater than 5 years prior to the product installation date shall not allowed to be used.

QUALIFIED PRODUCTS:

BRAND NAME	SUPPLIER/LOCATION	Date of Test Compliance	Expiration Date
Eliminator	Stirling Lloyd Products, Inc. 152 Rockwell Road, Building A Newington, CT 06111 (860) 666-5008	March 1, 2015	Feb. 29, 2020
Bridge Deck Membrane System	Bridge Preservation, LLC 87 Shawnee Ave. Kansas City, Kansas 66105 (913) 321-9006	March 1, 2015	Feb. 29, 2020

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QUALIFIED PRODUCT REFERENCES (WITH ACCEPTANCE CRITERIA)

The categories listed below have products and or materials that have met the specific requirements of the Standard Specifications or project Special Provisions.

Antistripping Additives

RESPONSIBLE UNIT: Division of Materials Testing
Technical Contact: Eliana Carlson, P.E.; 860-258-0327
Administrative Contact: James P. Connery P.E.

Asphalt Plug Expansion Joints – Movement Capacity 1½″ or less

RESPONSIBLE UNIT: Bridge Consultant Design
Technical Contact: Timothy D. Fields, P.E.; Phone (860) 594-3217
Administrative Contact: Theodore H. Nezames, P.E.

Acceptance Criteria: Special Provision; Prequalification Procedure

Bearings – Pot, Spherical or Disc

RESPONSIBLE UNIT: Bridge Consultant Design
Technical Contact: Timothy D. Fields, P.E.; Phone (860) 594-3217
Administrative Contact: Theodore H. Nezames, P.E.

Acceptance Criteria: Recurring Special Provision

Channelizing Devices – Traffic Cones and Drums Type 1 (purchased after 10/1/98)

RESPONSIBLE UNIT: Division of Traffic Engineering
Technical Contact: Mark F. Makuch P.E.; Phone (860) 594-2788
Administrative Contact: Charles S. Harlow P.E.;

Acceptance Criteria: 1) Catalog cut check for compliance with state specifications. 2) Manufacturer's self-certifying letter, stating NCHRP 350 testing requirements.

Coating Systems for New Steel

RESPONSIBLE UNIT: Division of Materials Testing
Technical Contact: Jonathan T. Boardman; Phone (860) 258-0327
Administrative Contact: James P. Connery P.E.

Acceptance Criteria: Prequalification Procedure NEPCOAT

Elastomeric Concrete Expansion Joint Systems

RESPONSIBLE UNIT: Bridge Consultant Design
Technical Contact: Timothy D. Fields, P.E.; Phone (860) 594-3217
Administrative Contact: Theodore H. Nezames, P.E

Acceptance Criteria: Special Provision; Prequalification Procedure

Epoxy Injection Crack Repair

RESPONSIBLE UNIT: Division of Materials Testing
Technical Contact: John R. Giannini; Phone (860) 258-0326
Administrative Contact: James P. Connery P.E.

Acceptance Criteria: Special Provision; Prequalification Procedure

Fast Setting High Strength Header Materials

RESPONSIBLE UNIT: Bridge Consultant Design
Technical Contact: Timothy D. Fields P.E.; Phone (860) 594-3217
Administrative Contact: Theodore H. Nezames, P.E.

Acceptance Criteria: Special Provision; Prequalification Procedure

Field Coatings for Blast Cleaned Steel

RESPONSIBLE UNIT: Division of Materials Testing
Technical Contact: Jonathan T. Boardman; Phone (860) 258-0327
Administrative Contact: James P. Connery P.E.

Acceptance Criteria: Prequalification Procedure NEPCOAT

Field Touch-Up Paint

RESPONSIBLE UNIT: Division of Bridge Design
Technical Contact: Ralph Daily, Jr.; Phone (860) 594-3312
Administrative Contact: Theodore H. Nezames, P.E.

Acceptance Criteria: Special Provision; Prequalification Procedure

Grouts - Non-Shrink Cementitious

RESPONSIBLE UNIT: Division of Materials Testing
Technical Contact: John R. Giannini; Phone (860) 258-0326
Administrative Contact: James P. Connery P.E.

Acceptance Criteria: Form 816, M.03.05

High Strength Patch Materials for Concrete Bridge Decks

RESPONSIBLE UNIT: Bridge Consultant Design
Technical Contact: Timothy D. Fields, P.E.; Phone (860) 594-3217
Administrative Contact: Theodore H. Nezames, P.E.

Acceptance Criteria: Special Provision; Prequalification Procedure

Offset Blocks for W-beam Guide Rail - Plastic

RESPONSIBLE UNIT: Division of Design Services
Technical Contact: David J Kilpatrick; Phone (860) 594-3288
Administrative Contact: Leo L. Fontaine, P.E.

Acceptance Criteria: Recurring Special Provision; Prequalification

Pavement Joint and Crack Sealants

RESPONSIBLE UNIT: Division of Materials Testing
Technical Contact: John R. Giannini; Phone (860) 258-0326
Administrative Contact: James P. Connery P.E.

Acceptance Criteria: Form 816, M.04.01

Pile Point Reinforcement – Prefabricated

RESPONSIBLE UNIT: Division of Materials Testing
Technical Contact: Jonathan T. Boardman; Phone (860) 258-0327
Administrative Contact: James P. Connery P.E.

Acceptance Criteria: ASTM A27

Pile Splicers – Prefabricated

RESPONSIBLE UNIT: Division of Materials Testing
Technical Contact: Jonathan T. Boardman; Phone (860) 258-0327
Administrative Contact: James P. Connery P.E.

Acceptance Criteria: ASTM A36

Polypropylene (5A) & Polyester Fibers (5B)

RESPONSIBLE UNIT: Division of Materials Testing
Technical Contact: John R. Giannini; Phone (860) 258-0326
Administrative Contact: James P. Connery P.E.

Acceptance Criteria: Form 816, M.04.02

Portland Cement Concrete
Air-Entraining Admixtures
High Range Water-Reducing Admixtures
Portland Cement
Retarders
Water-Reducing Admixtures

RESPONSIBLE UNIT: Division of Materials Testing
Technical Contact: John R Giannini; Phone (860) 258-0326
Administrative Contact: James P. Connery P.E.

Acceptance Criteria: Form 816, M.03.01-3

Prefabricated Expansion Joints – Movement Capacity Over 4″

RESPONSIBLE UNIT: Bridge Consultant Design
Technical Contact: Timothy D. Fields, P.E.; Phone (860) 594-3217
Administrative Contact: Theodore H. Nezames, P.E.

Acceptance Criteria: Special Provision; Prequalification Procedure

Prefabricated Geocomposite Drain

RESPONSIBLE UNIT: Soils and Foundations Section
Technical Contact: Leo L. Fontaine, P.E.; Phone (860) 594-3180
Administrative Contact: Timothy M. Wilson P.E.;

Acceptance Criteria: Special Provision; Prequalification Procedure

Rebar Connectors

RESPONSIBLE UNIT: Division of Materials Testing
Technical Contact: John R. Giannini; Phone (860) 258-0326
Administrative Contact: James P. Connery P.E.

Acceptance Criteria: AASHTO 8.32.2.3

Release Agents

RESPONSIBLE UNIT: Division of Materials Testing
Technical Contact: Eliana Carlson; Phone (860) 258-0326
Administrative Contact: James P. Connery P.E.

Acceptance Criteria: Form 816, 4.06.03-3

Rebar Zinc Rich Coatings – Rehabilitation

RESPONSIBLE UNIT: Division of Bridge Design
Technical Contact: Ralph Daily, Jr.; Phone (860) 594-3312
Administrative Contact: Theodore H. Nezames, P.E.

Acceptance Criteria: Recurring Special Provision

Shear Connectors – Welded Stud

RESPONSIBLE UNIT: Division of Materials Testing
Technical Contact: Jonathan T. Boardman; Phone (860) 258-0327
Administrative Contact: James P. Connery P.E.

Acceptance Criteria: Form 816, M.06.02-4; Prequalification AMS D1.5

Silicone Expansion Joint System

RESPONSIBLE UNIT: Bridge Consultant Design
Technical Contact: Timothy D. Fields, P.E.; Phone (860) 594-3217
Administrative Contact: Theodore H. Nezames, P.E.

Acceptance Criteria: Special Provision; Prequalification Procedure

Stormwater Treatment (Oil/Grit Separators)

RESPONSIBLE UNIT: Office of Environmental Compliance
Technical Contact: Paul Corrente; Phone (860) 594-2932
Administrative Contact: Timothy M. Wilson P.E.;

Acceptance Criteria: Special Provision; Prequalification Procedure

Strip Seal Expansion Joint Systems (with Bridge Joint Extrusions)

RESPONSIBLE UNIT: Bureau of Highway & Bridge Operations
Technical Contact: David Hiscox; Phone (860) 594-2626
Administrative Contact: Richard Van Allen P.E.

Acceptance Criteria: Special Provision ITEM #0520034A

Variable Depth Patch

RESPONSIBLE UNIT: Division of Bridge Design
Technical Contact: Ralph Daily, Jr.; Phone (860) 594-3312
Administrative Contact: Theodore H. Nezames, P.E.

Acceptance Criteria: Special Provision; Prequalification Procedure

QUALIFIED PRODUCTS FOR USE ON MUNICIPAL OR OTHER NON-CONNDOT SYSTEMS ONLY:

A list of products considered to be acceptable but which are not used in the Department for reasons relating to cost, appearance, logistics, or other reasons not directly related to product performance.

PRODUCTS/TECHNOLOGIES	ACCEPTANCE CRITERIA
Extruded Concrete Curb	Municipal Standards
Sign Post – Solid Filled Tubular Fiberglass	
1. Composite Post 40	Strength Analysis
Corrugated PVC Pipe Smooth Interior – Sanitary	
1. Contech A-2000 Sewer Pipe	Municipal Standards