

Connecticut Department of Transportation


Qualified Product List

Revised November 2018

Report No. CT-211-22-17-6

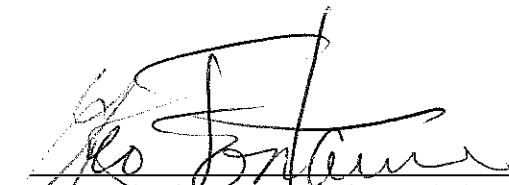
Connecticut Department of Transportation
Bureau of Policy and Planning
Office of Roadway Information Systems
Research Section

APPROVALS



Research Unit

3-16-2018
Date



Research Liaison Committee Chairman

3-19-2018
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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|---|---|

SI (Modern Metric) Conversion Factors

| SI* (MODERN METRIC) CONVERSION FACTORS | | | | |
|--|-----------------------------|-----------------------------|-----------------------------|---------------------|
| APPROXIMATE CONVERSIONS TO SI UNITS | | | | |
| 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 yard | 0.836 | square meters | m ² |
| ac | acres | 0.405 | hectares | ha |
| mi ² | square miles | 2.59 | square kilometers | km ² |
| 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 |
| NOTE: volumes greater than 1000 L shall be shown in m ³ | | | | |
| MASS | | | | |
| oz | ounces | 28.35 | grams | g |
| lb | pounds | 0.454 | kilograms | kg |
| T | short tons (2000 lb) | 0.907 | megagrams (or "metric ton") | Mg (or "t") |
| TEMPERATURE (exact degrees) | | | | |
| °F | Fahrenheit | 5 (F-32)/9 or (F-32)/1.8 | Celsius | °C |
| ILLUMINATION | | | | |
| fc | foot-candles | 10.76 | lux | lx |
| fl | foot-Lamberts | 3.426 | candela/m ² | cd/m ² |
| FORCE and PRESSURE or STRESS | | | | |
| lbf | poundforce | 4.45 | newtons | N |
| lbf/in ² | poundforce per square inch | 6.89 | kilopascals | kPa |
| APPROXIMATE CONVERSIONS FROM SI UNITS | | | | |
| 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 |
| ha | hectares | 2.47 | acres | ac |
| km ² | square kilometers | 0.386 | square miles | mi ² |
| 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 |
| MASS | | | | |
| g | grams | 0.035 | ounces | oz |
| kg | kilograms | 2.202 | pounds | lb |
| Mg (or "t") | megagrams (or "metric ton") | 1.103 | short tons (2000 lb) | T |
| TEMPERATURE (exact degrees) | | | | |
| °C | Celsius | 1.8C+32 | Fahrenheit | °F |
| ILLUMINATION | | | | |
| lx | lux | 0.0929 | foot-candles | fc |
| cd/m ² | candela/m ² | 0.2919 | foot-Lamberts | fl |
| FORCE and PRESSURE or STRESS | | | | |
| N | newtons | 0.225 | poundforce | lbf |
| kPa | kilopascals | 0.145 | poundforce per square inch | lbf/in ² |

*SI is the symbol for the International System of Units. Appropriate rounding should be made to comply with Section 4 of ASTM E380.
(Revised March 2003)

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Addendum

| Date: | Item Changed | Page |
|--------------|---|--|
| 05/17 | X-LITE Guardrail End Terminal – (Removed) | 22&26 |
| 06/17 | List Removed – no longer needed. <ul style="list-style-type: none">▪ Qualified Products for Use on Municipal or Other Non- ConnDOT Systems Only | 49 |
| 08/17 | Impact Attenuation Systems lists updated. <ul style="list-style-type: none">▪ Type B Impact Attenuation Systems (Tangential)▪ Type B Impact Attenuation Systems (Flared)▪ Type B Impact Attenuation Systems (Median/Gore) | 22 23 24 |
| 06/18 | Retroreflective Sheeting Type IX - Revise intended use of Type IX sheeting . | 35&36 |
| 07/18 | Impact Attenuation Systems lists updated to match revised specification descriptions. <ul style="list-style-type: none">▪ Sand Barrels▪ Impact Attenuation Systems (Tangential)▪ Impact Attenuation Systems (Flared)▪ Impact Attenuation Systems (Median/Gore)Added MAX-Tension Median Terminal▪ Impact Attenuation Systems (Non-Gating)▪ Impact Attenuation Systems (Non-Gating – High Incident) | 21 22 23 24 24 25 26 |
| 08/02 | Dural HS Gel added to Chemical Anchors list. | 5 |
| 11/07 | Wasser Polyflex Bridge Deck System added to Waterproofing List | 38 |

Qualified Product Lists

The following pages contain lists, which are directly referenced in either the standard specifications or in special provisions 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

| Manufacturer/Supplier | Product Brand Name |
|---|-----------------------------|
| Cold Mix Manufacturing Corp. Mr. Scott Herman 120-30 28 th Avenue Flushing, NY 11354 Mr. Scott Herman – Office Telephone: 914-755-4575 Website: www.GREENPATCH.com <u>Local Distributor:</u> O&G Industries, Inc. 112 Wall Street Torrington, CT 06790 Office Telephone: 860-489-9261 | GreenPatch |
| HI TECH Asphalt Solutions, Inc. 5113 Pole Green Road Mechanicsville, VA 23116-5432 Website: www.aquaphalt.com | Aquaphalt |
| The EZ Street Company Mr. Tom Francione 1786 NW 82 Avenue Miami, FL 33126 Website: www.ezstreetasphalt.com | EZ Street Cold Asphalt |
| Tri-Products, LLC Mr. Mike Jennings 89 Ship Street Providence, RI 02903 Website: www.hudsoncompanies.com/hag/triproducs.asp | Plus Patch Asphalt Emulsion |

Continued on Next Page:

Qualified Product Lists – Continued

Bituminous Concrete Patching Materials (Cold Applied) - Continued:

SPECIFICATION: REFERENCE FILE No. 2011-01

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

| Manufacturer/Supplier | Product Brand Name |
|--|--|
| Logan County Asphalt Mr. Steven McBride 2905 Commerce Boulevard Guthrie, OK 73044 Website: www.prolinecoldasphalt.com/predistributors.php | ProLine Cold Asphalt Patching Material |
| Quality Pavement Repair Mr. Anthony J. Fagnoli 154 Bouckhart Avenue Rochester, NY 14622 Website: www.qprcoldpatch.com | QPR |
| UNIQUE Paving Materials Corp William Stull. 3993 East 93 rd Street Cleveland, OH 44105 Website: www.uniquepavingmaterials.com | UPM Permanent Pavement Repair Material |
| B. Metcalf Asphalt Benjamin Metcalf 104 Interlaken Rd Lakeville, CT 06039 Website: www.bmetcalfasphalt.com | GemPatch |

Qualified Product Lists – Continued

Chemical Anchors:

SPECIFICATION: Standard Specification, 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.

| Manufacturer/Supplier | Product Brand Name |
|---|---|
| A & P Foglia, Inc. 14 Hickory Drive East Brunswick, NJ 08816 | Magnabond |
| Adhesives Technology Corp. 450 East Copans Road Pompano Beach, FL 33064 Website: www.atcepoxy.com . | Ultrabond: 1 1300 2 HS200 |
| Covert Operations, Inc. 1940 Freeman Avenue Signal Hill, CA 90755 | CIA Gel 7000 |
| Dayton Superior Chemical Division 4226 Kansas Avenue Kansas City, KS 66106 Website: www.daytonsuperiorchemical.com | Highway Fast Set Epoxy (AHT) ResCon 304 (Symons) Sure Anchor I (J-51) |
| Fosroc, Inc. 150 Carley Court Georgetown, KY 40324 | Thoroc: Anchor Bond Anchortite |
| Hilti, Inc. P.O. Box 21148 Tulsa, OK 74121 Website: www.us.hilti.com | Hilti: HIT HY150MAX HTE50 HVA Capsules HY-200 RE500 |

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Qualified Product Lists – Continued

Chemical Anchors - Continued:

SPECIFICATION: Standard Specification, 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.

| Manufacturer/Supplier | Product Brand Name |
|---|---|
| ITW Commercial Construction 1300 North Michael Drive Wood Dale, IL 60191 Website: www.ramset-redhead.com | Epcon Ceramic 6 Granite 5 RedHead A7+ |
| Powers Fasteners, Inc. 2 Powers Lane Brewster, NY 10509 Website: www.powers.com | AC 100+ GOLD Chem-Stud PE1000+ PURE GP PURE110+ PURE50+ T308+ |
| Kelken Construction Systems P.O. Box 284 Parlin, NJ 08859 Website: www.kelken.com | Kelibond Anchors Keligrout Keligrout 101 |
| MKT Fastening LLC #1 Gunnebo Drive Lonoke, AR 72086 Website: www.mktfastening.com | Liquid Roc: 300 28oz. Twin Tube 300 Capsule Anchors Polyester Pump 500 Epoxy Twin Tube |
| Polygem, Inc. 1105 Carolina Avenue West Chicago, IL 60185 Website: www.polygem.com | Polybac 1257 |

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Qualified Product Lists – Continued

Chemical Anchors - Continued:

SPECIFICATION: Standard Specification, 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.

| Manufacturer/Supplier | Product Brand Name |
|---|--|
| Unitex 3101 Gardner Avenue Kansas City, MO 64120 Website: www.unitex-chemicals.com | Pro-Poxy: 300 300 Fast Sonneborn Epogel (ChemRex, Inc.) |
| Simpson StrongTie Anchoring Systems 4120 Dublin Boulevard, Suite 400 Dublin, CA 94568 Website: www.simpsonanchors.com | EDOT ET-HP (formally known as Simpson Strong-Tie Epoxy-Tie) Simpson Strong-Tie Acrylic-Tie |
| Unisorb Installation Technologies P.O. Box 1000 Jackson, MI 49204-1000 Website: www.unisorb.com | Unisorb Capsule Anchor |
| USP Structural Connectors 14305 Southcross Drive – Suite 200 Burnsville, MN 55306 Website: http://www.uspconnectors.com | CIA-GEL 6000-GP |
| Adhesives Technology Corp. 450 East Copans Road Pompano Beach, Florida 33064 | Dural HS Gel |

Continued on Next Page:

Qualified Product Lists – Continued

Chemical Anchors - Continued:

SPECIFICATION: Standard Specification, 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.

| Manufacturer/Supplier | Product Brand Name |
|---|--|
| W.R. Meadows, Inc. 300 Industrial Drive Hampshire, IL 60140 Website: www.wrmeadows.com | Sealtight Rezi-Weld Gel Paste UCE |
| Wejit, Inc. 7737 Japine Drive Liverpool, NY 13090 315-396-8063 (Cell) Website: www.wejit.com | Inject-TITE: AWF (All Weather Formula) Fast Set |

Qualified Product Lists – Continued

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

SPECIFICATION: Standard Specification 9.21

PREAPPROVAL CRITERIA: Federal Standard 595A Color #22144 or approved equal.

| Manufacturer/Supplier | Product Brand Name |
|---|---|
| Access Products Inc. 241 Main Street, Suite 100 Buffalo, NY 14203 Telephone: 888-679-4022 Website: www.accessproducts.com | Access Tile Detectable Warning Tiles |
| Cape Fear Systems, LLC 215 South Water Street, Suite 103 Wilmington, NC 28401 Telephone: 800-456-5263 Website: www.alerttile.com/ | alerttile® Detectable Warnings: alerttile Surfaced Applied alertcast Cast-In-Place |
| Armor-Tile 300 International Drive, Suite 100 Williamsville, NY 14221 Telephone: 800-682-2525 Website: www.armor-tile.com/ | Armor-Tile Tactile System: Cast-In-Place System Surface Applied System (Retrofit) |
| ADA Solutions, Inc. P.O Box 179 North Billerica, MA 01862 Telephone: 978-262-9900 Website: www.adatile.com | Detectable Warning Tile: Cast-In-Place Tactile Surface Applied Tactile (Retrofit) Cast-In-Place Replaceable Tactile |
| East Jordan Iron Works 5000 Airport Road PO Box 439 East Jordan, MI 49727 Telephone: 231-536-2261 Website: www.ejco.com | DURALAST Detectable Warning Plates Cast Iron Uncoated Natural Finish |
| TufTile Inc. 1200 Flex Court Lake Zurich, IL 60047 Telephone: 888-960-8897 Website: www.tuftile.com | Cast Iron Wet Set (cast-in-place) |

Qualified Product Lists – Continued

Erosion Control Matting:

SPECIFICATION: Standard Specification 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 Standards¹

| | <u>Clay Soils</u> | <u>Sandy Soils</u> |
|-------------------------|-------------------|--------------------|
| Slopes 3:1 or Flatter | 80% | 70% |
| Slopes Steeper than 3:1 | 80% | 70% |

Minimum Acceptable Sediment Loss Standards (kg/10 m²)¹

| | <u>Clay Soils</u> | <u>Sandy Soils</u> |
|-------------------------|-------------------|--------------------|
| 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 stress² (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: \geq 100 Pa

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

Minimum Acceptable Vegetation Density Standards¹

70%

Continued on Next Page:

Qualified Product Lists – Continued

Erosion Control Matting - Continued:

Minimum Acceptable Sediment Loss Standards¹

| | <u>Average Soil Deformation (cm)</u> |
|--------------------------|--------------------------------------|
| Shear Stress 1 to 100 Pa | 1.15 |
| Shear Stress > 100 Pa | 1.00 |

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

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Qualified Product Lists – Continued

Erosion Control Matting - Continued:

SPECIFICATION: Standard Specification, Section 9.50 & M.13.09

PREAPPROVAL CRITERIA: Certified Test Report

| Manufacturer/Supplier | Class 1: Slope Protection * | | | | Class 2: Flexible Channel Type 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 Website: www.curlex.com | AEC Premier Coconut AEC Premier Straw/Coconut AEC Premier StrawDoubleNet et AEC Premier StrawSingleNet Bindex BFM Curlex I Curlex I CL Curlex II Curlex NetFree | AEC Premier Coconut AEC Premier Straw/Coconut AEC Premier StrawDoubleNet AEC Premier StrawSingleNet Bindex BFM Curlex I Curlex I CL Curlex II CL Curlex NetFree Curlex NetFree | AEC Premier Coconut AEC Premier Straw/Coconut AEC Premier StrawDoubleNet Bindex BFM Curlex I Curlex I CL | AEC Premier Coconut AEC Premier Straw/Coconut AEC Premier StrawDoubleNet Bindex BFM Curlex I Curlex I CL Curlex II Curlex II CL Curlex NetFree | AEC Premier Straw/Coconut AEC Premier StrawDoubleNet AEC PremierCoconut Curlex Enforcer Curlex II Curlex II CL Curlex III Recyclcx Recyclcx TRM-V | AEC Premier Coconut AEC Premier Straw/Coconut AEC Premier StrawDoubleNet Curlex Enforcer Curlex II Curlex II CL Curlex III Recyclcx Recyclcx TRM-V | Curlex Enforcer Recyclcx Recyclcx TRM-V | Curlex Enforcer Recyclcx Recyclcx TRM-V |
| Belton Industries 8613 Roswell Road Atlanta, GA 30350 | | Geocoir/DeKoWe 700 Geocoir/DeKoWe 900 | | Geocoir/DeKoWe 700 Geocoir/DeKoWe 900 | | | | |
| Contech Construction Products, Inc. 265 Highland Avenue Cheshire, CT 06410 Website: www.contech-cpi.com | Ero-Mat Ero-Mat Hi- Velocity Ero-Mat Standard | Ero-Mat Ero-Mat Standard | Ero-Mat Hi- Velocity | | | | | |

* 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 Net.

Continued on Next Page:

Qualified Product Lists – Continued

Erosion Control Matting – Continued:

SPECIFICATION: Standard Specification, Section 9.50 & M.13.09

PREAPPROVAL CRITERIA: Certified Test Report

| Manufacturer/Supplier | Class 1: Slope Protection * | | | | Class 2: Flexible Channel Type 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 Road Bernville, PA 19506 | ECS - 1 ECS - 1B ECS - 1D ECS - 2 ECS - 2B ECS - 2D ECSC - 2 ECSC - 2B ECX - 1 ECX - 2 | EC - 7Y EC - 9Y ECS - 1B ECS - 1D ECS - 2 ECS - 2B ECS - 2D ECS - 1 ECSC - 2 ECSC - 2B ECX - 1 ECX - 2 | ECC - 2 ECC - 2B ECC - 3 ECP - 2 ECS - 2 ECS - 2B ECS - 2D ECSC - 2 ECSC - 2B ECX - 1 ECX - 2 | EC - 7Y EC - 9Y ECC - 2 ECC - 2B ECP - 2 ECS - 2 ECS - 2B ECS - 2D ECS - 2 ECS - 2B ECSC - 2 ECSC - 2B ECX - 1 ECX - 2 | ECC - 2 ECC - 2B ECC - 3 ECP - 2 10 oz. ECP - 2 T-RECS ECP - 3 ECSC - 3 | ECC - 2 ECC - 2B ECC - 3 ECP - 2 10 oz. ECP - 2 T-RECS ECP - 3 ECSC - 3 | ECC - 2 ECC - 2B ECC - 3 ECP - 2 10 oz. ECP - 2 T-RECS ECP - 3 ECSC - 3 | ECC - 2 ECC - 2B ECC - 3 ECP - 2 10 oz. ECP - 2 T-RECS ECP - 3 ECSC - 3 |
| ErosionControlBlanket.com P.O. Box 69 Riverton, Manitoba ROC 2RO Canada | S31 S31UVD | S31 S31UVD | S32 S32UVD | S32 S32UVD | P42 S32 S32UVD | P42 S32 S32UVD | P42 | P42 |
| Enviroscape ECM 22700 Street, 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 | | |

* 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 Net.

Continued on Next Page:

Qualified Product Lists – Continued

Erosion Control Matting – Continued:

SPECIFICATION: Standard Specification, Section 9.50 & M.13.09

PREAPPROVAL CRITERIA: Certified Test Report

| Manufacturer/Supplier | Class 1: Slope Protection * | | | | Class 2: Flexible Channel Type Protection | | | |
|---|---|--|--|--|--|--|---|--|
| | Type A | Type B | Type C | Type D | Type E * | Type F * | Type G * | Type H ** |
| Greenstreak Group 3400 Tree Court Boulevard St. Louis, MO 63122 | Pec-Mat | Pec-Mat | | | | | Pec-Mat | Pec-Mat |
| North American Green 14649 Highway 41 Evansville, IN 47711 | S150 S150BN S75 S75BN SC150 SC150BN | S150 S150BN S75 S75BN SC150 SC150BN | S150 S150BN SC150 SC150BN | C125 C125BN S150 S150BN SC150 SC150BN | C125 C125BN P300 | P300 | P300 | C350 Biodegradable P300 |
| SI Geosolutions (formally known as Synthetic Industries) 6025 Lee Highway Chattanooga, TN 37421 www.fixsoil.com | Landlok: CS2 unseeded S1 S2 TRM435 | Landlok: CS2 unseeded S1 S2 TRM 435 | Landlok: C2 CS2 unseeded S2 TRM 435 | Landlok: C2 CS2 unseeded S2 TRM 435 | Landlok: C2 TRM 435 TRM 450 TRM1060 | Landlok: C2 TRM 435 TRM 450 TRM1060 | Landlok: C2 TRM 1060 TRM 435 TRM 450 | Landlok: TRM 1060 TRM 435 TRM 450 Pyramat: SFB 12 |
| US Erosion Control Products 1034 Albany Avenue W. Pearson, GA 31642 | | | | | | | US-1S US-2C US-2S US-2S | US-2P10 US-2P12 |

* 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 Net.

Continued on Next Page:

Qualified Product Lists – Continued

Erosion Control Matting – Continued:

SPECIFICATION: Standard Specification, Section 9.50 & M.13.09

PREAPPROVAL CRITERIA: Certified Test Report

| Manufacturer/Supplier | Class 1: Slope Protection * | | | | Class 2: Flexible Channel Type Protection | | | |
|---|---|--|----------------------------------|-------------------------|---|---------------------------|---|------------------------------|
| | Type A | Type B | Type C | Type D | Type E * | Type F * | Type G * | Type H ** |
| Verdyol Alabama, Inc. P.O. Box 605 407 Miles Parkway Pell City, AL 35125 | Ero-Mat: Standard Excelsior: Hi-Velocity Standard | Ero-Mat: Standard Excelsior: Standard | Excelsior: Hi-Velocity | | | | | |
| Western Excelsior Corp. 4609 E Boonville-New Harmony Road Evansville, IN 47725 | Excel R-1 Excel S-2 Excel SR-1 Excel SS-2 | Excel R-1 Excel S-2 Excel SR-1 Excel SS-2 | Excel S-2 Excel SS-2 | Excel S-2 Excel SS-2 | Excel PP5-8 Excel S-2 ExcelSD-3 | Excel PP5-8 Excel SD-3 | Excel PP5-8 Excel PP5-10 Excel PP5-12 | Excel PP5-10 Excel PP5-12 |

* 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 Net.

Qualified Product Lists – Continued

Geotextiles:

SPECIFICATION: Standard Specification, 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, 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.

Continued on Next Page:

Qualified Product Lists – Continued

Geotextiles - Continued:

SPECIFICATION: Standard Specification, Sections 2.19., 7.51, 7.55 and M.08.01-19

PREAPPROVAL CRITERIA: Certified Test Report According to AASHTO M 288

| Manufacturer/Supplier | Subsurface Drainage | | Sediment Control | | Erosion Control | | Separation | |
|---|--|---|------------------------|-------------------------------------|--|---|-------------------------------------|--|
| | Class A | Class B | Wire Supported | Self Supported | Class A | Class B | High Survivability ¹ | Medium Survivability ¹ |
| 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 Avenue New Bedford, MA 02746 Website: www.boomenviro.com | AEF: 200W 300W 600W 650W 880 1080 1280 | AEF: 100W 130W 150W 200W 300W 480 480HS 600W 650W 680 880 1080 1280 | AEF: 180W | AEF: 100W 150W 180W | AEF: 300W 650W 880 1080 1280 | AEF: 100W 180W 300W 480 480HS 650W 680 880 1080 1280 | AEF: 300W 1080 1280 | AEF: 200W 300W 600W 880 1080 1280 |
| BBA Fiberweb, Inc. 70 Old Hickory Boulevard 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.

Continued on Next Page:

Qualified Product Lists – Continued

Geotextiles - Continued:

SPECIFICATION: Standard Specification, Sections 2.19., 7.51, 7.55 and M.08.01-19

PREAPPROVAL CRITERIA: Certified Test Report According to AASHTO M 288

| Manufacturer/Supplier | Subsurface Drainage | | Sediment Control | | Erosion Control | | Separation | |
|---|---------------------------|--|----------------------|----------------------|--|--|--------------------|-----------------------------|
| | Class A | Class B | Wire Supported | Self Supported | Class A | Class B | High Survivability | Medium Survivability |
| Belton Industries, Inc. P.O. Box 127 Belton, SC 29627 Website: 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 |
| Carthage Mills 4243 Hunt Road Cincinnati, OH 45242 Website: www.carthagemills.com | Carthage - 6% FX-75NW | Carthage - 6% FX-35HS FX-35NW FX-40HS FX-40NW FX-75NW | FX-11 | FX-11 | Carthage - 6% FX-55 * FX-66 FX-75NW | Carthage - 6% FX-33 FX-35HS FX-35NW FX-40HS FX-40NW FX-44 FX-55 * FX-66 FX-75NW | FX-66 FX-75NW | FX-55 * FX-66 FX-75NW |
| DGI Industries P.O. Box 16522 Hooksett, NH 03442 Website: www.dgiindustries.com | | | CT138036 CT213036 | CT138036 CT213036 | | | | |
| Evergreen Technologies Inc. (Div. of Tensar) 200 Miller Sellers Drive Evergreen, AL 36401 | TG650 | TG420 * TG500 TG650 | TG420 | TG550 | TG700 | TG420 * TG500 TG700 | TG650 | TG500 TG650 |

* 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

Geotextiles - Continued:

SPECIFICATION: Standard Specification, Sections 2.19., 7.51, 7.55 and M.08.01-19

PREAPPROVAL CRITERIA: Certified Test Report According to AASHTO M 288

| Manufacturer/Supplier | Subsurface Drainage | | Sediment Control | | Erosion Control | | Separation | |
|---|-------------------------------|---|---------------------------------|---------------------------------|---------------------------------|--|--------------------------------|---|
| | Class A | Class B | Wire Supported | Self Supported | Class A | Class B | High Survivability | Medium Survivability |
| First Line Corp. P.O. Box 68 Pearson, GA 31642 | | | CSF 330 | CSF 330 | | | | |
| Hanes Geo Components 815 Buxton Street Winston-Salem, NC 27101 Website: www.hanesgeo.com | Terratex: EP NO8 | Terratex: EP NO4 NO8 SD SO4 | Terratex: SC SC-90 | Terratex: SC SC-90 | Terratex: GS * NO8 | Terratex: GS * GS-150 * NO4 NO8 SD | Terratex: EP HD * | Terratex: EP GS * HD * NO8 |
| Hoechst Celanese Corp. P.O. Box 5650 Spartanburg, SC 29304-5650 | | | Trevira: 011/140 | | | Trevira: 011/140 | | Trevira: 011/200 |
| Indian Valley Industries Inc. 60-100 Corliss Avenue Johnson City, NY 13790 Website: www.iviindustries.com | | | CT-3611 | CT-3611 | | CT-3611 | | |

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

Continued on Next Page:

Qualified Product Lists – Continued

Geotextiles - Continued:

SPECIFICATION: Standard Specification, Sections 2.19., 7.51, 7.55 and M.08.01-19

PREAPPROVAL CRITERIA: Certified Test Report According to AASHTO M 288

| Manufacturer/Supplier | Subsurface Drainage | | Sediment Control | | Erosion Control | | Separation | |
|---|---|--|--------------------------|----------------------------|---|--|--|---|
| | Class A | Class B | Wire Supported | Self Supported | Class A | Class B | High Survivability | Medium Survivability |
| LINQ Industrial Fabrics, Inc. 4550 W. Fifth North Street 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 185 5 | | | | |
| 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 |

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

Continued on Next Page:

Qualified Product Lists – Continued

Geotextiles - Continued:

SPECIFICATION: Standard Specification, Sections 2.19., 7.51, 7.55 and M.08.01-19

PREAPPROVAL CRITERIA: Certified Test Report According to AASHTO M 288

| Manufacturer/Supplier | Subsurface Drainage | | Sediment Control | | Erosion Control | | Separation | |
|--|--|---|------------------|------------------------|---|---|--|--|
| | Class A | Class B | Wire Supported | Self Supported | Class A | Class B | High Survivability | Medium Survivability |
| Propex Geosolutions 6025 Lee Highway Suite 425 PO Box 22788 Chattanooga, TN 37422 Website: www.geotextile.com | Geotex: 104F 135ST 102F 200ST 401 701 801 1071 1291 170 1 | 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 |
| 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* | | M706 GT140 GT142 SW200* SW315* GT180 |

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

Continued on Next Page:

Qualified Product Lists – Continued

Geotextiles - Continued:

SPECIFICATION: Standard Specification, Sections 2.19., 7.51, 7.55 and M.08.01-19

PREAPPROVAL CRITERIA: Certified Test Report According to AASHTO M 288

| Manufacturer/Supplier | Subsurface Drainage | | Sediment Control | | Erosion Control | | Separation | |
|--|--|---|------------------------|---|--|--|--|---|
| | Class A | Class B | Wire Supported | Self Supported | Class A | Class B | High Survivability ¹ | Medium Survivability |
| Willacoochee Industrial Fabrics, Inc. PO Box 599 769 W Main Street Willacoochee, GA 31650 Website: www.winfabusa.com | WINFAB: 200W 400N 700N 800N 1000NE 2199 | WINFAB: 600N 700N 800N 1000NE | | | WINFAB: 200W 315W 800N 1000NE 2199 | WINFAB: 200W 315W 400N 600N 700N 800N 1000NE 2199 | WINFAB: 315W 700N 800N 2x2HF 1000NE | WINFAB: 200W 315W 600N 700N 800N 2x2HF 1000NE |
| TenCate Geosynthetics North America (formerly TC Mirafi) 365 South Holland Drive Pendergrass, GA 30567 Website: www.tencate.com | 170N 180N FW404 FW500 FW700 | 135N 140N 140NC 140NL FW404 FW500 FW700 | 100X FW500 FW700 | 100X Enviro-Fence FW404 FW500 FW700 | 180N 500X * 600X * FW404 FW500 FW700 | 140N 140NL 500X * 600X * FW404 FW500 FW700 | 170N 180N 600X * FW404 FW500 FW700 HP370 | 140N 500X * 550X 600X * FW500 FW700 |
| TNS Advanced Technologies, Inc. 681 DeYoung Road Greer, SC 29651 | R070 R080 | R031 R035 R040 R042 | R035 | W280 | R080 | R035 R040 R042 | R070 R080 | R042 |
| US Silt & Site Supply/GETSco Telephone: 603-225-4600 X10 E-Mail: sales@ussilt.com Website: www.ussilt.com | | | CT36112130 | CT36112130 | | | | |

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

Qualified Product Lists – Continued

Impact Attenuation Systems:

SPECIFICATION(s): January 2018 Supplements Section 18.02 SAND BARRELS

Standard Specification Form 817 Section 18.02 TYPE A – IMPACT ATTENUATION SYSTEM

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.

| Sand Barrels ** | | | | | | | | | |
|------------------------|---|------------------|-------------------------------------|---|--|-------------------------|-------------------|------------------|---|
| System | Manufacturer/Supplier | Energy Absorbing | Transition to Rigid System Required | Available Widths (Barrel Size) | Available Lengths | Deck Structure Required | Bi-Direct Capable | Redirect Capable | Comments |
| Big Sandy Barrels | Traffix Devices, Inc. Telephone: 949-361-5663 Extension 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. |
| CrashGard Barrels | Plastic Safety Systems, Inc. Telephone: 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. |
| Energite III Barrels | TRANSPO Telephone: 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. |
| | | | | | | | | | |

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

** Publication of January 2018 Supplements changed Section 18.02 title from “TYPE A – IMPACT ATTENUATION SYSTEM” to “SAND BARRELS”

Qualified Product Lists – Continued

Impact Attenuation Systems - Continued:

SPECIFICATION(s) January 2018 Supplements Section 18.03 IMPACT ATTENUATION SYSTEM

CTDOT Special Provision Item # 1803064A TYPE B IMPACT ATTENUATION SYSTEM (TANGENTIAL) REPLACEMENT PARTS

CTDOT Special Provision Item # 1803071A TYPE B IMPACT ATTENUATION SYSTEM (TANGENTIAL)

PREAPPROVAL CRITERIA: 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.

| Impact Attenuation Systems (Tangential) * | | | |
|--|--|----------------------------------|---------------------------------|
| System | Manufacturer/ Supplier | Compatible Barrier System | Crash Test Specification |
| SoftStop | Trinity Products | R-B 350, R-B MASH | MASH |
| SKT-SP | Road Systems, Inc. | R-B 350 | NCHRP-350 |
| MSKT-SP | Road Systems, Inc. | R-B 350, R-B MASH | MASH |
| MAX-Tension | Barrier Systems by Lindsay | R-B 350, R-B MASH | MASH |
| BEAT | Road Systems, Inc. | 6” Box Beam | NCHRP-350 |
| | | | |

* Publication of January 2018 Supplements incorporated CTDOT Special Provision “TYPE B IMPACT ATTENUATION SYSTEM (TANGENTIAL)” into Section 18.03 “IMPACT ATTENUATION SYSTEM”

Qualified Product Lists – Continued

Impact Attenuation Systems - Continued:

SPECIFICATION(s): January 2018 Supplements Section 18.03 IMPACT ATTENUATION SYSTEM

CTDOT Special Provision Item # 1803063A TYPE B IMPACT ATTENUATION SYSTEM (FLARED) REPLACEMENT PARTS

CTDOT Special Provision Item #1803070A TYPE B IMPACT ATTENUATION SYSTEM (FLARED)

PREAPPROVAL CRITERIA: 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.

| Impact Attenuation Systems (Flared) * | | | |
|---------------------------------------|------------------------------------|---------------------------|--------------------------|
| System | Manufacturer/ Supplier | Compatible Barrier System | Crash Test Specification |
| SRT | Trinity Products | R-B 350, R-B MASH | NCHRP-350 |
| FLEAT-SP | Road Systems, Inc. | R-B 350, R-B MASH | NCHRP-350 |

* Publication of January 2018 Supplements incorporated CTDOT Special Provision “TYPE B IMPACT ATTENUATION SYSTEM (FLARED)” into Section 18.03 “IMPACT ATTENUATION SYSTEM”

Qualified Product Lists – Continued

Impact Attenuation Systems - Continued:

SPECIFICATION(s): January 2018 Supplements Section 18.03 IMPACT ATTENUATION SYSTEM

CTDOT Special Provision Item # 1803065A TYPE B IMPACT ATTENUATION SYSTEM (MEDIAN/GORE) REPLACEMENT PARTS

CTDOT Special Provision Item # 1803072A TYPE B IMPACT ATTENUATION SYSTEM (MEDIAN/GORE)

CTDOT Special Provision Item # 1807200A TEMPORARY IMPACT ATTENUATION SYSTEM TYPE B

CTDOT Special Provision Item # 1807201A RELOCATION OF TEMPORARY IMPACT ATTENUATION SYSTEM TYPE B

PREAPPROVAL CRITERIA: 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.

| Impact Attenuation Systems (Median/Gore) * | | | |
|---|--|--|---------------------------------|
| System | Manufacturer/ Supplier | Compatible Barrier System | Crash Test Specification |
| CAT 350 | Trinity Products | R-B 350, R-B MASH, MD-B 350, MD-B MASH | NCHRP-350 |
| BEAT-MT | Road Systems, Inc. | 8” x 6” Box Beam | NCHRP-350 |
| MAX-Tension Median | Barrier Systems by Lindsay | MD-B 350, MD-B MASH | MASH |

* Publication of January 2018 Supplements incorporated CTDOT Special Provision “TYPE B IMPACT ATTENUATION SYSTEM (MEDIAN/GORE)” into Section 18.03 “IMPACT ATTENUATION SYSTEM”

Qualified Product Lists – Continued

Impact Attenuation Systems - Continued:

SPECIFICATION(s): January 2018 Supplements Section 18.03 IMPACT ATTENUATION SYSTEM

CTDOT Special Provision Item # 1803060A TYPE B IMPACT ATTENUATION SYSTEM (NON-GATING)

CTDOT Special Provision Item # 1803062A TYPE B IMPACT ATTENUATION SYSTEM (NON-GATING) REPLACEMENT PARTS

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.

| Impact Attenuation Systems (Non-Gating) * | | | | | | | | | |
|---|--|---------------------|---|--------------------------------------|----------------------|----------------------------|-------------------|---------------------|--|
| System | Manufacturer/ Supplier | Energy Absorbing | Transition to Rigid System Required | Available Widths (Barrel Size) | Available Lengths | Deck Structure Required | Bi-Direct Capable | Redirect Capable | Comments |
| QUADGUARD Family | Distributed by TRANSCO Telephone: 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 Telephone: 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 Telephone: 800- 321-2755 | Yes | No | 2.6' | 21' | Yes | Yes | Yes | Unit is shipped completely assembled. |

* Publication of January 2018 Supplements incorporated CTDOT Special Provision “TYPE B IMPACT ATTENUATION SYSTEM (NON-GATING)” into Section 18.03 “IMPACT ATTENUATION SYSTEM”

Qualified Product Lists – Continued

Impact Attenuation Systems - Continued:

SPECIFICATION(s): January 2018 Supplements Section 18.03 IMPACT ATTENUATION SYSTEM

CTDOT Special Provision Item # 1803066A TYPE B IMPACT ATTENUATION SYSTEM (HIGH-INCIDENT) NON-GATING

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.

| Impact Attenuation Systems (Non-Gating – High Incident) * | | | | | | | | | |
|---|--|---------------------|---|--------------------------------------|----------------------|----------------------------|-------------------|---------------------|---|
| System | Manufacturer/ Supplier | Energy Absorbing | Transition to Rigid System Required | Available Widths (Barrel Size) | Available Lengths | Deck Structure Required | Bi-Direct Capable | Redirect Capable | Comments |
| REACT 350 Family | Distributed by TRANSPO Telephone: 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. |
| SC1100GM Family | Distributed by Onsite, Inc. Telephone: 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. |

* Publication of January 2018 Supplements incorporated CTDOT Special Provision “TYPE B IMPACT ATTENUATION SYSTEM (NON-GATING – HIGH INCIDENT)” into Section 18.03 “IMPACT ATTENUATION SYSTEM”

Qualified Product Lists – Continued

Penetrating Sealer Protective Compound – Clear or Pigmented:

SPECIFICATION: Standard Specification, 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.

| Manufacturer/Supplier | Product Brand Name | Type |
|---|---|-------------|
| Advanced Chemical Technologies 100 W. Wilshire Boulevard Oklahoma City, OK 73116 Website: www.advchemtech.com | Sil-Act ATS-42 | C |
| Bay Oil Company 38 Plainfield Street Chicopee, MA 01013 | BayGuard Salt Protector No. 244 | C |
| Degussa Building Systems 889 Valley Park Drive Shakopee, MN 55379 Website: www.DegussaBuildingSystems.com | Enviroseal 20 Enviroseal 40 Masterseal SL40 VOC | C,P |
| Modac Products Co. 600 Reed Road Broomall, PA 19008 Website: www.modacproducts.com | Modac F | C,P |
| Nox-crete Products Group P.O. Box 8102 Omaha, NE 68108 Website: www.NOX-CRETE.com | Stifel-S | C |
| Princeton Chemical, Inc. P.O. Box 132 Lincoln, RI 02865 | Crete-Shield | C |
| ProSoCo, Inc. 3741 Greenway Circle Lawrence, KS 66046 Website: www.prosoco.com | Consolideck Saltguard WB | C |

Continued on Next Page:

Qualified Product Lists – Continued

Penetrating Sealer Protective Compound – Clear or Pigmented - Continued:

SPECIFICATION: Standard Specification, 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.

| Manufacturer/Supplier | Product Brand Name | Type |
|--|---|-------------|
| Sivento, Inc. 65 Challenger Road Ridgefield Park, NJ 07660 | CHEM-TRETE BSM 40 VOC Dynasytan BH-N | C |
| Tamms Industries 3835 State Route 72 Kirkland, IL 60146 | Baracade 16 (Formerly SMS-250 and Chemstop SMS-250) | C |
| Vexcon Chemicals 7240 State Road Philadelphia, PA 19135 Website: www.vexcon.com | Certi-Vex: Enfio Smooth VOC Enfio Tex VOC Powerseal 40% | C,P |
| Watson-Bowman & Acme 95 Pineview Drive Amherst, NY 14228 | WABO HorseySet WDE | C,P |

Qualified Product Lists – Continued

Retroreflective Sheeting Type III:

SPECIFICATION: 1) Standard Specifications Section M.18.09
2) Materials Certificate submission conforming to Standard Specifications 1.06.07.

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

| Retroreflective Sheeting Type III - Traffic Cone | |
|---|---|
| Manufacturer/Supplier | Product Brand Name |
| 3M Company Traffic Safety & Security Division 3M Center, Building 225-3A-09 St. Paul, MN 55144-1000 | 3810 White 3930 White 3940 White 3310 White 3314 Orange |

| Retroreflective Sheeting Type III - Opposing Traffic Lane Divider (Flexible Sheeting) | |
|---|--|
| Manufacturer/Supplier | Product Brand Name |
| 3M Company Traffic Safety & Security Division 3M Center, Building 225-3A-09 St. Paul, MN 55144-1000 | 3310 White 3314 Orange 3930 White 3934 Orange 3940 White |

| Retroreflective Sheeting Type III - Glare Screens | |
|---|--|
| Manufacturer/Supplier | Product Brand Name |
| 3M Company Traffic Safety & Security Division 3M Center, Building 225-3A-09 St. Paul, MN 55144-1000 | 3310 White 3314 Orange 3930 White 3931 Yellow 3940 White |

| Retroreflective Sheeting Type III - Posts and Tubular Markers | |
|---|---|
| Manufacturer/Supplier | Product Brand Name |
| 3M Company Traffic Safety & Security Division 3M Center, Building 225-3A-09 St. Paul, MN 55144-1000 | 3310 White 3314 Orange 3930 White 3931 Yellow 3934 Orange 3940 White |

Qualified Product Lists – Continued

Retroreflective Sheeting Type IV:

SPECIFICATION: 1) Standard Specifications M.18.09
 2) Materials Certificate submission conforming to Standard Specification 1.06.07.

PREAPPROVAL CRITERIA: 1) Conformance to ASTM D4956
 2) Participation in the National Transportation Product Evaluation Program (NTPEP) 3-Year Retroreflective Sheeting Test Deck.

| Retroreflective Sheeting Type IV - Extruded Aluminum Signs, Sheet Aluminum Signs, Delineators | |
|--|---|
| Manufacturer/Supplier | Product Brand Name |
| 3M Company Traffic Safety & Security Division 3M Center, Building 225-3A-09 St. Paul, MN 55144-1000 | 3310 White 3314 Orange 3930 White 3931 Yellow 3934 Orange 3937 Green |
| 3M Company Traffic Safety & Security Division 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 |
| Avery Dennison Reflective Films Division 7542 N. Natchez Avenue Niles, IL 60714 | T-6500 White T-6501 Yellow T-6504 Orange T-6505 Blue T-6507 Green T-6508 Red T-6509 Brown |
| Avery Dennison Reflective Films Division 7542 N. Natchez Avenue Niles, IL 60714 | T-6500 Series T-6500 White T-6504 Orange |

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Qualified Product Lists – Continued

Retroreflective Sheeting Type IV - Continued:

SPECIFICATION: 1) Standard Specification M.18.09
 2) Materials Certificate submission conforming to Standard Specification 1.06.07.

PREAPPROVAL CRITERIA: 1) Conformance to ASTM D4956
 2) Participation in the National Transportation Product Evaluation Program (NTPEP) 3-Year Retroreflective Sheeting Test Deck.

| Retroreflective Sheeting Type IV - Extruded Aluminum Signs, Sheet Aluminum Signs, Delineators | |
|--|--|
| Manufacturer/Supplier | Product Brand Name |
| Nippon Carbide Industries 12981 E. Florence Avenue Santa Fe Springs, CA 90670 | 94802 White 94804 Yellow 94805 Red 94806 Blue 94807 Orange 94808 Green |
| ORAFOL Americas Inc. 120 Darling Drive Avon, CT 06001 | 5900-010 White (Reflexite IC415) 5930-038 Oralite® Fluorescent Orange |
| 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) |

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Qualified Product Lists – Continued

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

SPECIFICATION: 1) Standard Specification M.18.09
2) Materials Certificate submission conforming to Standard Specification 1.06.07.

PREAPPROVAL CRITERIA: 1) Conformance to ASTM D4956
2) Participation in the National Transportation Product Evaluation Program (NTPEP) 3-Year Retroreflective Sheeting Test Deck.

| Retroreflective Sheeting Type V - Delineators – Aluminum | |
|---|---|
| Manufacturer/Supplier | Product Brand Name |
| ORAFOL Americas, Inc. 120 Darling Drive Avon, CT 06001 | ORALITE® : AP1000 Red AP1000 White AP1000 Yellow AR1000 White AR1000 Yellow |

Qualified Product Lists – Continued

Retroreflective Sheeting Type VI

SPECIFICATION: 1) Standard Specification M.18.09
 2) Materials Certificate submission conforming to Standard Specification 1.06.07.

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

| Retroreflective Sheeting Type VI - Construction Roll-Up Signs | |
|---|---|
| Manufacturer/Supplier | Product Brand Name |
| 3M Company Traffic Safety & Security Division 3M Center, Building 225-3A-09 St. Paul, MN 55144-1000 | RS 20 Roll Up Sign Series RS 30 Roll Up Sign Series RS 60 Flexible Roll Up Sign (White) RS64I Flexible Roll Up Sign (Orange) |
| ORAFOL Americas, Inc. 120 Darling Drive Avon, CT 06001 | ORALITE®: Orange Roll Up Sign Fluorescent Orange Super Bright Roll Up Sign |

| Retroreflective Sheeting Type VI - Traffic Cones | |
|--|---|
| Manufacturer/Supplier | Product Brand Name |
| ORAFOL Americas, Inc. 120 Darling Drive Avon, CT 06001 | ORALITE®: 2010 Series 2010 White Cone Collar |

Qualified Product Lists – Continued

Retroreflective Sheeting Type VIII

SPECIFICATION: Standard Specification M.18.09

PREAPPROVAL CRITERIA: 1) Conformance to ASTM D4956
 2) Participation in the National Transportation Product Evaluation Program (NTPEP) 3-Year Retroreflective Sheeting Test Deck.

| Retroreflective Sheeting Type VIII - Construction Signs, Guide Signs | |
|---|---|
| Manufacturer/Supplier | Product Brand Name |
| 3M Company Traffic Safety & Security Div. 3M Center, Building 225-3A-09 St. Paul, MN 55144-1000 | 3924S Fluorescent Orange 3940 White 3941 Yellow 3942 Red 3945 Blue 3947 Green |
| Avery Dennison Reflective Products Division 7542 N. Natchez Avenue 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 |
| 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: Standard Specification M.18.09

PREAPPROVAL CRITERIA: 1) Conformance to ASTM D4956
 2) 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).

| |
|--|
| Retroreflective Sheeting Type IX - Extruded Aluminum Signs, Sheet Aluminum Signs, Delineators |
|--|

| Manufacturer/Supplier | Product Brand Name |
|--|--|
| 3M Company Traffic Safety & Security Division 3M Center, Building 225-3A-09 St. Paul, MN 55144-1000 | 3910 Series 3910 White 3914 Fluorescent Orange 3924S Fluorescent Orange |
| 3M Company Traffic Safety & Security Division 3M Center, Building 225-3A-09 St. Paul, MN 55144-1000 | 3981 Fluorescent Yellow 3983 Fluorescent Yellow/Green 3990 White 3991 Yellow 3992 Red 3995 Blue 3997 Green |
| Avery Dennison Reflective Products Division 7542 N. Natchez Avenue Niles, IL 60714 | 7100 White 7114 Fluorescent Orange WR-7100 Series |
| Avery Dennison Reflective Products Division 7542 N. Natchez Avenue 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 |

Continued on Next Page:

Qualified Product Lists – Continued

Retroreflective Sheeting Type IX - Continued

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

SPECIFICATION: Standard Specification M.18.09

PREAPPROVAL CRITERIA: 1) Conformance to ASTM D4956
 2) 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).

| |
|---|
| Retroreflective Sheeting Type IX - Traffic Drums, 42” Traffic Cone, Traffic Cone, Construction Barricade |
|---|

| Manufacturer/Supplier | Product Brand Name |
|---|---|
| Avery Dennison Reflective Products Division 7542 N. Natchez Avenue 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 80 mil 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) concrete. | ASTM D4541 | 150 psi (1.0 MPa) or failure in |
| 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 (3.2mm) -15°F (-26°C) | ASTM 1305 | Pass @ 10 cycles, 0.125 in. |
| 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.

Continued on Next Page:

Qualified Product Lists – Continued

Spray-Applied Membrane Waterproofing System - Continued:

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

PRE-APPROVAL CRITERIA: See previous page.

APPROVAL: See previous page.

PROVISIONS FOR CONTINUANCE ON QPL: See previous page.

| Manufacturer/Supplier | Product Brand Name | Date of Test Compliance | Expiration Date |
|--|------------------------------------|-------------------------|-------------------|
| Bridge Preservation, LLC 87 Shawnee Avenue Kansas City, KS 66105 Telephone: 913-321-9006 | Bridge Deck Membrane System | March 1, 2015 | Feb. 29, 2020 |
| Stirling Lloyd Products, Inc. 152 Rockwell Road, Building A Newington, CT 06111 Telephone: 860-666-5008 | Eliminator | March 1, 2015 | Feb. 29, 2020 |
| PIM Corporation 201 Circle Drive North, Suite 105 Piscataway, NJ 08854 Telephone: 732-469-6224 | PMB Blue Shield | December 28, 2012 | December 27, 2017 |
| Wasser Coatings Inc. 4118 B Place NW Suite B Auburn, WA 98001 | Wasser Polyflex Bridge Deck System | November 7, 2018 | November 7, 2023 |

Qualified Product Lists – Continued

Walls: Embankment Walls:

SPECIFICATION: ConnDOT Special Provision:

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

PREAPPROVAL CRITERIA: LRFD Bridge Design Specification

| SUPPLIER/LOCATION | PRODUCT BRAND NAME |
|---|--|
| Keystone Retaining Wall Systems 4444 West 78 th Street Bloomington, MN 55435 Telephone: 952-897-1040 E-Mail: jfriederichs@keystonewalls.com Website: www.keystonewalls.com | KeySystem I Retaining Wall |
| TENSAR Earth Technology, Inc. 227 Ritter Road Sewickley, PA 15143 Telephone: 412-749-9190 | MESA Retaining Wall System |
| The Reinforced Earth Company 133 Park Street North Reading, MA 01864 Telephone: 978-664-2830 E-Mail: PAnderson@reinforcedearth.com Website: www.reinforcedearth.com | Pyramid Modular Blockwall |
| Connecticut Precast Corp. 555 Fan Hill Road Monroe, CT 06468 Telephone: 203-268-8688 Fax: 203-452-1007 Website: www.ctprecast.com | Recon Retaining Wall |
| Redi-Rock Walls - CT Division 68A South Canal Street Plainville, CT 06062 Telephone: 860-793-6805 | Redi-Rock Retaining Wall-Cobblestone Face Mold |
| VERSA-LOK of New England 5 Northern Boulevard, Unit 15 Amherst, NH 03031 Telephone: 603-883-3042 E-Mail: Sales@wallsthatwork.com Website: www.versa-Lok.com | VERSA-LOK Retaining Wall |

Qualified Product Lists – Continued

Walls: Retaining Walls - Mechanically Stabilized Earth (MSE) Walls:

SPECIFICATION: ConnDOT Special Provision: Item #'s 0601651A, 0601665A, 0601678A & 0601687A
RETAINING WALL

PREAPPROVAL CRITERIA: LRFD Bridge Design Specification

| SUPPLIER/LOCATION | PRODUCT BRAND NAME |
|---|----------------------------------|
| Big R Bridge Corporate P.O. Box 1290 Greeley, CO 80632 Telephone: 207-232-3228 | Vist-A-Wall Systems |
| TEG Engineering, LLC 1505 44th Street Wyoming, MI 49509 | Tricon Retained Soil Wall System |
| The Reinforced Earth Company 133 Park Street North Reading, MA 01864 Telephone: 978-664-2830 | Reinforced Earth Walls |
| The Reinforced Earth Company 1372 Oldbridge Road, Suite 101 Woodbridge, VA 22192 Telephone: 703-499-9818 | Retained Earth |
| Inventure Civil LLC P.O. Box 1781 Wake Forest, NC 27588 Telephone: (919) 453-2011 | SINE WALL |

Walls: Retaining Walls - Prefabricated Modular Walls:

SPECIFICATION: ConnDOT Special Provision: Item #'s 0601651A, 0601665A, 0601678A & 0601687A
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 Telephone: 860-793-0295 |
| T-Wall Retaining Wall System | The Neel Company 8328-D Trafford Lane Springfield, VA 22152 Telephone: 703-913-7858 |

Qualified Product Lists – Continued

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 V. Carlson, P.E.
Telephone: 860-258-0325

Administrative Contact: James P. Connery, P.E.

Acceptance Criteria: Special Provision.

Asphalt Plug Expansion Joints – Movement Capacity 1½” or less

RESPONSIBLE UNIT: Bridge Consultant Design

Technical Contact: Timothy D. Fields, P.E.
Telephone: 860-594-3217

Administrative Contact: Theodore H. Nezames, P.E.

Acceptance Criteria: 1) Special Provision.
2) Prequalification Procedure.

Bearings – Pot, Spherical or Disc

RESPONSIBLE UNIT: Bridge Consultant Design

Technical Contact: Timothy D. Fields, P.E.
Telephone: 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.
Telephone: 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.

Qualified Product References (With Acceptance Criteria)

Coating Systems for New Steel

RESPONSIBLE UNIT: Division of Materials Testing

Technical Contact: Jonathan T. Boardman
Telephone: 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.
Telephone: 860-594-3217

Administrative Contact: Theodore H. Nezames, P.E.

Acceptance Criteria: 1) Special Provision.
2) Prequalification Procedure.

Epoxy Injection Crack Repair

RESPONSIBLE UNIT: Division of Materials Testing

Technical Contact: John R. Giannini
Telephone: 860-258-0324

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.
Telephone: 860-594-3217

Administrative Contact: Theodore H. Nezames, P.E.

Acceptance Criteria: 1) Special Provision.
2) Prequalification Procedure.

Qualified Product References (With Acceptance Criteria)

Field Coatings for Blast Cleaned Steel

RESPONSIBLE UNIT: Division of Materials Testing

Technical Contact: Jonathan T. Boardman
Telephone: 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 D. Daily, Jr.
Telephone: 860-594-3312

Administrative Contact: Theodore H. Nezames, P.E.

Acceptance Criteria: 1) Special Provision.
2) Prequalification Procedure.

Grouts – Non-Shrink Cementitious

RESPONSIBLE UNIT: Division of Materials Testing

Technical Contact: John R. Giannini
Telephone: 860-258-0324

Administrative Contact: James P. Connery, P.E.

Acceptance Criteria: Standard Specification, M.03.05.

High Strength Patch Materials for Concrete Bridge Decks

RESPONSIBLE UNIT: Bridge Consultant Design

Technical Contact: Timothy D. Fields, P.E.
Telephone: 860-594-3217

Administrative Contact: Theodore H. Nezames, P.E.

Acceptance Criteria: 1) Special Provision.
2) Prequalification Procedure.

Qualified Product References (With Acceptance Criteria)

Offset Blocks for W-beam Guide Rail – Plastic

RESPONSIBLE UNIT: Division of Design Services

Technical Contact: David J. Kilpatrick
Telephone: 860-594-3288

Administrative Contact: Leo L. Fontaine, P.E.

Acceptance Criteria: 1) Special Provision.
2) Prequalification.

Pavement Joint and Crack Sealants

RESPONSIBLE UNIT: Division of Materials Testing

Technical Contact: John R. Giannini
Telephone: 860-258-0324

Administrative Contact: James P. Connery, P.E.

Acceptance Criteria: Standard Specification, M.04.01.

Pile Point Reinforcement – Prefabricated

RESPONSIBLE UNIT: Division of Materials Testing

Technical Contact: Jonathan T. Boardman
Telephone: 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
Telephone: 860-258-0327

Administrative Contact: James P. Connery, P.E.

Acceptance Criteria: ASTM A36.

Qualified Product References (With Acceptance Criteria)

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

RESPONSIBLE UNIT: Division of Materials Testing

Technical Contact: John R. Giannini
Telephone: 860-258-0324

Administrative Contact: James P. Connery, P.E.

Acceptance Criteria: Standard Specification or Special Provision, 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
Telephone: 860-258-0324

Administrative Contact: James P. Connery, P.E.

Acceptance Criteria: Standard Specification, M.03.01-3.

Prefabricated Expansion Joints – Movement Capacity Over 4”

RESPONSIBLE UNIT: Bridge Consultant Design

Technical Contact: Timothy D. Fields, P.E.
Telephone: 860-594-3217

Administrative Contact: Theodore H. Nezames, P.E.

Acceptance Criteria: 1) Special Provision.
2) Prequalification Procedure.

Qualified Product References (With Acceptance Criteria)

Prefabricated Geocomposite Drain

RESPONSIBLE UNIT: Soils and Foundations Section

Technical Contact: Leo L. Fontaine, P.E.
Telephone: 860-594-3180

Administrative Contact: Timothy M. Wilson, P.E.

Acceptance Criteria: 1) Special Provision.
2) Prequalification Procedure.

Rebar Connectors

RESPONSIBLE UNIT: Division of Materials Testing

Technical Contact: John R. Giannini
Telephone: 860-258-0324

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 V. Carlson, P.E.
Telephone: 860-258-0325

Administrative Contact: James P. Connery, P.E.

Acceptance Criteria: Standard Specification or Special Provision, 4.06.03-3

Rebar Zinc Rich Coatings – Rehabilitation

RESPONSIBLE UNIT: Division of Bridge Design

Technical Contact: David A. Cutler, P.E.
Telephone: 860-594-3210

Administrative Contact: Theodore H. Nezames, P.E.

Acceptance Criteria: Special Provision.

Qualified Product References (With Acceptance Criteria)

Shear Connectors – Welded Stud

RESPONSIBLE UNIT: Division of Materials Testing

Technical Contact: Jonathan T. Boardman
Telephone: 860-258-0327

Administrative Contact: James P. Connery, P.E.

Acceptance Criteria: Standard Specification, M.06.02-4; Prequalification AMS D1.5.

Silicone Expansion Joint System

RESPONSIBLE UNIT: Bridge Consultant Design

Technical Contact: Timothy D. Fields, P.E.
Telephone: 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: Kevin F. Carifa; Telephone: 860-594-2932

Administrative Contact: Gregory M. Dorosh, P.E.

Acceptance Criteria: 1) Special Provision.
2) Prequalification Procedure.

Strip Seal Expansion Joint Systems (with Bridge Joint Extrusions)

RESPONSIBLE UNIT: Bureau of Highway & Bridge Operations

Technical Contact: David Hiscox
Telephone: 860-594-2626

Administrative Contact: **TBD**

Acceptance Criteria: Special Provision ITEM #0520034A.

Qualified Product References (With Acceptance Criteria)

Variable Depth Patch

RESPONSIBLE UNIT: Division of Bridge Design

Technical Contact: Ralph D. Daily, Jr.
Telephone: 860-594-3312

Administrative Contact: Theodore H. Nezames, P.E.

Acceptance Criteria: 1) Special Provision.
2) Prequalification Procedure.