



# Qualified Products List

Issue 2016-1  
January 15, 2016

## NOTICE

- **Products appearing on this list have been pre-qualified by the Department for general use. Unless noted otherwise, these products may be used on Highway and Bridge projects under the Section/Item Number indicated, without further testing.**
- **Products that are listed with an “Expiration Date” are only qualified for use through that date.**
- **A Certificate of Compliance is required for these materials.**
- **A product that falls into one of these categories and is not listed shall not be used, unless qualified through written request to the NHDOT, Bureau of Materials & Research. Such request shall be made with sufficient lead-time to allow for any necessary testing and/or research.**
- **Products shall conform to NH Code of Administrative Rules Chapter Env-A 4200 Architectural and Industrial Maintenance Coatings, available from the NH Department of Environmental Services, and all other State and Federal regulations related to safety or environmental issues in effect at the time of use. Inclusion of a product on this list does not imply that the product meets such regulations.**
- **The manufacturer’s Safety Data Sheet (SDS) should be referred to before use of any product appearing on this list.**
- **Unless denoted otherwise in the plans or specifications, manufacturer recommendations related to preparation, application, coverage, and shelf life shall be followed for all products appearing on this list.**
- **Report any failure, incompatibility or other problem associated with any product on this list to:**

**Product Evaluation Supervisor, NHDOT Bureau of Materials & Research  
PO Box 483, Concord, NH 03302-0483  
Tel: (603) 271-3151  
Fax: (603) 271-8700**

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**SECTION 403 - HOT BITUMINOUS PAVEMENT**

A. Not currently used.

B. Not currently used.

C. ITEM 403.6 - PAVEMENT JOINT ADHESIVE

*These products are qualified as being able to meet the requirements of Sections 401 & 403 of the NHDOT Standard Specifications for Road and Bridge Construction.*

<u>Manufacturer:</u>	<u>Product:</u>
Crafco, Inc.	Crafco Pavement Joint Adhesive
P&T Products, Inc.	Dura-Fill CJA

**SECTION 413 - HOT-POURED CRACK SEALANT**

A. ITEM 413.1 - HOT POURED CRACK SEALANT (AASHTO M 324, Type II)

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
Crafco, Inc.	Flex a Fill 9005	1/1/2017
Crafco, Inc.	Road Saver 201	1/1/2017
Dalton Enterprises, Inc.	Crack-Rite HP3405	1/1/2017
W.R. Meadows	Hi-Spec	1/1/2017

B. ITEM 413.2 - HOT POURED CRACK SEALANT (LOW MODULUS, AASHTO M 324, Type IV modified)

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
Crafco, Inc.	Road Saver 231	1/1/2017
Deery Brand (Crafco Inc.)	Deery 101	1/1/2017
McAsphalt Industries	MACSEAL 6690-4 (formerly, BERAM 195 LM)	1/1/2017

**SECTION 510 - BEARING PILES**

**A. ITEM 510.65 - DRIVING POINTS FOR STEEL BEARING PILES**

**Manufacturer:**

Assoc. Pile & Fitting Corp.  
Dougherty Foundation Prod., Inc.  
Mid-America Foundation Supply  
Piling Accessories, Inc.  
Versabite Piling Accessories

**Product:**

Hard-Bite HP 77600-B  
Hard-Bite HP 77750-B  
Hard-Bite HP 7780-B \*  
Pruyn Point HP 75750-B  
Tuftip Tufloy H-777 \*  
Model HPH \*\*  
Super-Bite PAR-T Series  
Versa-Bite VB 300-P Series

\* Available only in Grade 90-60

\*\* Available only in Grade 65-35

**SECTION 511 - PREPARATION FOR CONCRETE BRIDGE DECK REPAIRS**

**A. Not Currently used**

**SECTION 520 - PORTLAND CEMENT CONCRETE**

**A. FAST SET NON-SHRINK PATCHING MORTAR (For horizontal repairs)**

*Note: Products must be tested by the AASHTO National Transportation Product Evaluation Program (NTPEP) which requires retesting every 5 years. Products are considered to be qualified only through the indicated expiration date.*

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>	<b><u>Expiration Date:</u></b>
BASF	MasterEmaco T 1060 (formerly 10-60 Rapid Mortar) *	1/1/2019
CTS Cement Manufacturing Corp.	Rapid Set DOT Concrete Mix *	1/1/2020
CTS Cement Manufacturing Corp.	Rapid Set DOT Repair Mix *	1/1/2020
Dayton Superior Corp.	HD 50 *	1/1/2020
Euclid Chemical Company	Euco Repair V100 * ~	1/1/2020
Quikrete	Commercial Grade FastSet DOT Mix * ~	1/1/2019
Quikrete	Rapid Road Repair *	1/1/2019
Sika Corporation	SikaQuick VOH * ~	1/1/2020
Silpro LLC	SilproRapid *	1/1/2020
Silpro LLC	SilproRepair VOH * ~	1/1/2020
SpecChem	RepCon 928	1/1/2020
SpecChem	RepCon V/O * ~	1/1/2020
USG	Duracal *	1/1/2020

\* High Early Strength (1000 psi minimum at 1 hour - lab)

~ Recommended also for vertical/overhead patching

**B. Not Currently Used**

**C. AIR ENTRAINING ADMIXTURES**

*Use of a qualified admixture is contingent upon approval of a concrete mix design that includes the admixture as a component.*

*Note: Products must be tested by the AASHTO National Transportation Product Evaluation Program (NTPEP) which requires retesting every 5 years. Products are considered to be qualified only through the indicated expiration date.*

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>	<b><u>Expiration Date:</u></b>
BASF	MasterAir AE 200 (formerly Micro-Air)	1/1/2018
BASF	MasterAir AE 90 (formerly MB AE 90)	1/1/2018
Sika Corporation	Sika AEA-14	1/1/2017
Sika Corporation	Sika Air	1/1/2020
Sika Corporation	Sika Air-260	1/1/2018
W.R. Grace	Daravair 1000 (Daravair Pave 10)	1/1/2017
W.R. Grace	Darex II	1/1/2020

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### D. WATER REDUCING ADMIXTURES

Use of a qualified admixture is contingent upon approval of a concrete mix design that includes the admixture as a component.

Note: Products must be tested by the AASHTO National Transportation Product Evaluation Program (NTPEP) which requires retesting every 5 years. Products are considered to be qualified only through the indicated expiration date.

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>	<b><u>Expiration Date:</u></b>
BASF	MasterGlenium 3030	1/1/2019
BASF	MasterGlenium 7500 (formerly Glenium 7500)	1/1/2017
BASF	MasterGlenium 7620	1/1/2020
BASF	MasterPolyheed 1020 (formerly PolyHeed 1020)	1/1/2018
BASF	MasterPolyHeed 1725 (formerly PolyHeed )	1/1/2018
BASF	MasterPolyheed 997 ( formerly Polyheed 997)	1/1/2018
BASF	MasterPozzolith 200 (formerly Pozzolith 200N)	1/1/2017
BASF	MasterPozzolith 322	1/1/2017
BASF	MasterSet DELVO (formerly Delvo Stabilizer)	1/1/2017
Sika Corporation	Plastocrete 161	1/1/2018
Sika Corporation	Sika ViscoCrete 2100	1/1/2020
Sika Corporation	Sikament AFM	1/1/2018
Sika Corporation	SikaPlast 300GP	1/1/2019
Sika Corporation	SikaPlast 500	1/1/2019
Sika Corporation	ViscoCrete 1000	1/1/2018
Sika Corporation	Viscocrete 6100	1/1/2019
W.R. Grace	ADVA 140 (M)	1/1/2020
W.R. Grace	ADVA 190	1/1/2020
W.R. Grace	ADVA CAST 585	1/1/2020
W.R. Grace	ADVA CAST 600	1/1/2019
W.R. Grace	Daracem 55	1/1/2020
W.R. Grace	Daracem 65	1/1/2017
W.R. Grace	MIRA 95	1/1/2020
W.R. Grace	WRDA/HYCOL	1/1/2017
W.R.Grace	ADVA 198	1/1/2020
W.R.Grace	EXP 950	1/1/2020

## Qualified Products List



### E. RETARDING ADMIXTURES

Use of a qualified admixture is contingent upon approval of a concrete mix design that includes the admixture as a component.

Note: Products must be tested by the AASHTO National Transportation Product Evaluation Program (NTPEP) which requires retesting every 5 years. Products are considered to be qualified only through the indicated expiration date.

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>	<b><u>Expiration Date:</u></b>
BASF	MasterPozzolith 200 (formerly Pozzolith 200N)	1/1/2017
BASF	MasterPozzolith 322	1/1/2017
BASF	MasterSet DELVO (formerly Delvo Stabilizer)	1/1/2017
BASF	MasterSet R 100 (formerly Pozzolith 100XR)	1/1/2019
BASF	MasterSet R 961 (formerly Pozzolith 961R)	1/1/2017
Sika Corporation	Plastiment	1/1/2020
Sika Corporation	Plastocrete 161	1/1/2018
Sika Corporation	Sikatard 440	1/1/2019
W.R.Grace	Daratard 17	1/1/2020
W.R.Grace	Recover	1/1/2020

## Qualified Products List



### F. WATER-REDUCING, HIGH-RANGE ADMIXTURES

Use of a qualified admixture is contingent upon approval of a concrete mix design that includes the admixture as a component.

Note: Products must be tested by the AASHTO National Transportation Product Evaluation Program (NTPEP) which requires retesting every 5 years. Products are considered to be qualified only through the indicated expiration date.

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
BASF	MasterGlenium 3030	1/1/2019
BASF	MasterGlenium 3400 (formerly Glenium 3400)	1/1/2019
BASF	MasterGlenium 7500 (formerly Glenium 7500)	1/1/2017
BASF	MasterGlenium 7620	1/1/2020
BASF	MasterGlenium 7700	1/1/2019
BASF	MasterGlenium 7710	1/1/2020
BASF	MasterPolyheed 1020 (formerly PolyHeed 1020)	1/1/2018
BASF	MasterPolyHeed 1725	1/1/2018
BASF	MasterPolyheed 997 (formerly Polyheed 997)	1/1/2018
BASF	MasterRheobuild 1000 (formerly Rheobuild 1000)	1/1/2017
Sika Corporation	Sika ViscoCrete 2100	1/1/2020
Sika Corporation	Sika ViscoCrete 6100	1/1/2019
Sika Corporation	Sikament 610	1/1/2017
Sika Corporation	Sikament AFM	1/1/2018
Sika Corporation	Sikaplast 500	1/1/2019
Sika Corporation	ViscoCrete 1000	1/1/2018
W.R. Grace	ADVA 140 (M)	1/1/2020
W.R. Grace	ADVA 190	1/1/2020
W.R. Grace	ADVA Cast 535 (formerly, EXP 684)	1/1/2018
W.R. Grace	ADVA CAST 575	1/1/2018
W.R. Grace	ADVA CAST 585	1/1/2020
W.R. Grace	MIRA 95	1/1/2020
W.R. Grace	Adva 198	1/1/2020
W.R. Grace	ADVA Cast 600	1/1/2019
W.R. Grace	EXP 950	1/1/2020

### G. CORROSION INHIBITORS

Use of a qualified admixture is contingent upon approval of a concrete mix design that includes the admixture as a component.

Note: Products must be tested by the AASHTO National Transportation Product Evaluation Program (NTPEP) which requires retesting every 5 years. Products are considered to be qualified only through the indicated expiration date.

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
BASF	MasterLife CI 30 (formerly Rheocrete CNI)	1/1/2017
Sika Corporation	CNI	1/1/2021
W.R. Grace	DCI	1/1/2019
W.R. Grace	DCI-S	1/1/2018

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### H. CURING COMPOUNDS

*See specifications for limitations regarding the use of curing compounds.*

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>
Dayton Superior	White Resin Cure J10W (formerly D.S.S.C.C. White Resin Cure)
Kaufman Products, Inc.	Thinfilm 420 w/Dye
Kaufman Products, Inc.	Thinfilm 450
L&M Construction Chemicals Inc.	Cure R (w/fugitive dye)
Poly Sat Inc.	Harris Super Konkure White Emulsion (formerly, Harris Super Konkure White)

I. Not currently used.

J. Not currently used.

### K. BEARING STRIP (RUBBER-BACKED UHMV-PE)

*For use with "deck over backwall" expansion. Adhesive shall be as recommended by the manufacturer of the non-slip bearing strip.*

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>
Korolath of New England, Inc.	Korolath UHMW Rubber Backed
Quadrant Plastics	Tivar 1000 Rubber Backed
Röchling Engineering Plastics	Polystone M Rubber Backed

L. Not currently used

### M. EXTRUDED POLYSTYRENE (XPS) RIGID FOAM

*For use as a filler material in forming concrete joints and between concrete sections.*

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>
Dow Building Solutions	STYROFOAM
GreenGuard	Extruded Polystyrene Insulation Board
Owens Corning	Foamular 250

**SECTION 526 - CONCRETE CRACK SEALERS**

A. ITEM 526.2 - EPOXY FOR NON-MOVING CRACKS

<u>Manufacturer:</u>	<u>Product:</u>
BASF	Concresive 1380
Dayton Superior	Sure-Inject J-56
Hilti, Inc.	Hilti CI 060 EP Crack Injection System
Sika Corporation	Sikadur 35 (Warm Weather)
Sika Corporation	Sikadur 52 (Cool Weather)

**SECTION 528 - PRESTRESSED CONCRETE MEMBERS**

A. HIGH-STRENGTH, IMPACT-RESISTANT NON-SHRINK GROUT

*This is a 3-year sole source product approval issued by the FHWA.*

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
Dayton Superior	Sure-Grip High Performance Grout	11/16/2018

**SECTION 530 - WATERPROOFING CONCRETE SURFACES**

A. ITEM 530.3 - CEMENT BASE WITH ACRYLIC LATEX (2 Coats)

<u>Manufacturer:</u>	<u>Product:</u>
BASF	Thorseal (Pearl Gray) w/Acryl 60
Tamms Industries	Tamoseal (Oyster Gray) w/AKKRO-7T

B. ITEM 530.3 - CEMENT BASE, POLYMER MODIFIED (2 Coats)

<u>Manufacturer:</u>	<u>Product:</u>
Flexcrete Limited	Silcabond FCR 851 (Gray)
Tamms Industries	Duraltop Coating (Gray)

**SECTION 532 - ANTI-GRAFFITI COATINGS**

A. ITEM 532.1 - SEMI-PERMANENT ANTI-GRAFFITI COATINGS (CLEAR)

*When specified, use a water repellent product listed under 534.B.*

**SECTION 534 - WATER REPELLENT**

A. Not currently used

B. ITEM 534.3 - SILANE/SILOXANE

*These products can be used when ambient and surface temperatures are 40 degrees and above.*

<u>Manufacturer:</u>	<u>Product:</u>
Advanced Chemical Technologies, Inc.	SIL-ACT ATS-100 LV
Advanced Chemical Technologies, Inc.	SIL-ACT ATS-42A
ChemMasters	Aquanil Plus 100
Foundation Armor, LLC.	Armor SX 5000 EXT-100
Vexcon Chemicals	Powerseal 40

C. ITEM 534.3 - SILANE/SILOXANE - COLD WEATHER

*These products can be used when ambient and surface temperatures are 20 degrees and above.*

<u>Manufacturer:</u>	<u>Product:</u>
Vexcon Chemicals	Certi-Vex Penseal 244 100%
Vexcon Chemicals	Certi-Vex Penseal 244 40% AIM

**SECTION 538 - BARRIER MEMBRANE**

A. ITEM 538.1 - BARRIER MEMBRANE, PEEL AND STICK

*Products listed under 538.B may also be used for this item.*

*For horizontal application only. Qualified for use on buried structures.*

<u>Manufacturer:</u>	<u>Product:</u>
Royston Laboratories	10 AN Easy Pave, 713A Primer, 104CM Mastic

*(Membrane application temperature 40 Degrees F and rising)*

B. ITEM 538.2 - BARRIER MEMBRANE, PEEL AND STICK - VERTICAL SURFACES

*These products may also be used for Item 538.1.*

<u>Manufacturer:</u>	<u>Product:</u>
Protecto Wrap Co.	Jiffy Seal 140/60 Cold Weather, VOC 100 Primer, 160H Mastic
Royston Laboratories Inc.	104-AHT, 740 Primer, 104CM Mastic
W.R.Grace	Lo Temp Membrane, Bituthene Primer B2, Bituthene Mastic

*(Membrane application temperature 25 Degrees F and rising)*

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### C. PROTECTION BOARD FOR BARRIER MEMBRANE

*Use on membraned surfaces to be backfilled against.*

**Manufacturer:**

-  
W.R. Grace  
W.R. Meadows

**Product:**

1.0" Closed-Cell Extruded Polystyrene Board  
Bituthene Asphaltic Hardboard  
Sealtight PC-2

### D. Not currently used

### E. HOT RUBBERIZED ASPHALT

*For use along curb line with Items 538.5 and 538.6*

**Manufacturer:**

Henry Company  
Hydrotech Membrane Corp.  
McAsphalt Industries, Limited  
Ultraseal Construction Products  
Watson Bowman Acme

**Product:**

790-11 MTO Grade  
Hydrotech BDM  
MACSEAL BDM (formerly Bemalastic 1213 BDM)  
Ultraseal 3750  
Wabo Expandex

### F. ITEM 538.5 - BARRIER MEMBRANE, HEAT WELDED

**Manufacturer:**

IKO Industries Ltd.  
Soprema Roofing & Waterproofing Inc.

**Product:**

Armour Bridge/Pont 4.5 mm \*  
Sopralene Flam Antirock Membrane, Antirock Primer &  
Tackcoat

*(Required Laydown Temperature - Hot Bituminous Pavement (538.3.5) = 290 - 330 deg. F)*

*\* Use either Elastocol 500 Primer or Roofcraft Modified Asphalt Primer for both the primer and tack coat.*

### G. ITEM 538.6 - BARRIER MEMBRANE, HEAT WELDED - MACHINE METHOD

**Manufacturer:**

IKO Industries Ltd.  
Soprema Roofing & Waterproofing Inc.

**Product:**

Armour Bridge/Pont 4.5 mm \*  
Sopralene Flam Antirock Membrane, Antirock Primer &  
Tackcoat

*(Required Laydown Temperature - Hot Bituminous Pavement (538.3.5) = 290 - 330 deg. F)*

*\* Use either Elastocol 500 Primer or Roofcraft Modified Asphalt Primer for both the primer and tack coat.*

### H. Not currently used

## Qualified Products List



### I. MOISTURE METER (For concrete bridge decks)

*Meters must be calibrated annually. A copy of the calibration certification shall accompany the meter.*

<u>Manufacturer:</u>	<u>Product:</u>
Sovereign Chemical Industries, Ltd.	Dual Probe Moisture Master
Tramex, Ltd.	Tramex Concrete Encounter

## SECTION 541 - WATERSTOPS (PVC)

### A. ITEM 541.1 - WATERSTOP, NH TYPE 1

<u>Manufacturer:</u>	<u>Product:</u>
BoMetals, Inc	DB-4316
BoMetals, Inc	FR-4316
Greenstreak	721 (Ribbed Split), 741 (Dumbbell)
Paul Murphy Plastics	FR-4316 (Ribbed)
Vinylex	D4-316 (Dumbbell)

### B. ITEM 541.2 - WATERSTOP, NH TYPE 2

<u>Manufacturer:</u>	<u>Product:</u>
BoMetals, Inc.	RCB-938BR
Greenstreak	703 (Ribbed), 723 (Ribbed Split)
Paul Murphy Plastics	CR-6316 (Ribbed), SR-6316 (Ribbed Split)
Vinylex	RSB6-316 (Ribbed Split)

### C. ITEM 541.3 - WATERSTOP, NH TYPE 3

<u>Manufacturer:</u>	<u>Product:</u>
BoMetals, Inc	DBCBC-614
Greenstreak	780 (Ribbed), 757 (Dumbbell)
Paul Murphy Plastics	CR-6380 (Ribbed), SR-6380 (Ribbed Split)
Vinylex	RB6-14 (Ribbed), DBG-14 (Dumbbell)

### D. ITEM 541.4 - WATERSTOP, NH TYPE 4

<u>Manufacturer:</u>	<u>Product:</u>
BoMetals, Inc.	DBCBC-938
Greenstreak	696 (Ribbed), 753 (Dumbbell)
Greenstreak	725 (Split Ribbed Dumbbell)
Vinylex	RLB9-38 (Ribbed), DB9-38 (Dumbbell), DSB9-38 (Dumbbell-split)

E. ITEM 541.5 - WATERSTOP, NH TYPE 5

<u>Manufacturer:</u>	<u>Product:</u>
BoMetals, Inc.	RF-814
Greenstreak	769 (Ribbed)
Vinylex	L85-14 (Ribbed)

**SECTION 544 - REINFORCEMENT FOR CONCRETE**

A. SYNTHETIC FIBER REINFORCEMENT

*These products are qualified as being able to meet the requirements of Section 544 of the NHDOT Standard specifications for Road and Bridge Construction when used to control shrinkage cracking of fully supported slabs.*

<u>Manufacturer:</u>	<u>Product:</u>
BASF	Masterfiber MAC100
FORTA Corporation	FORTA FERRO
W. R. Grace	Strux 90/40 Fibers

**SECTION 550 - STRUCTURAL STEEL**

A. FAST SETTING GROUTS FOR ANCHOR BOLTS (550.3.15.4.2)

*These products are qualified as being able to meet the requirements of Section 550 of the Standard Specifications for Road and Bridge Construction, paragraph 550.3.15.4.2.*

<u>Manufacturer:</u>	<u>Product:</u>
CGM, Inc.	Super Por Rok
Dayton Superior	Sure-Grip High Performance Grout
Quikrete	Commercial Grade FastSet Non-Shrink Grout

B. STICK WAX FOR HIGH STRENGTH A325 & A490 FASTENERS

<u>Manufacturer:</u>	<u>Product:</u>
Castrol Industrial of North America	Stick Wax Lubricant
CRC Industries, Inc.	TrueTap Wax Stick
Relton	Stick Kut

**SECTION 559 - ASPHALTIC PLUG EXPANSION JOINT, ASPHALTIC PLUG CRACK**

A. ITEM 559.4 - ASPHALTIC PLUG EXPANSION JOINT (formerly "Elastomeric Plug Type Expansion Joint")

<u>Manufacturer:</u>	<u>Product:</u>
D.S. Brown	Matrix 502 Asphaltic Expansion Joint System w/ Matrix 502 binder
Dynamic Surface Applications, Ltd.	Thorma-Joint Asphaltic Plug Expansion Joint w/ BJ Super Binder
Watson Bowman Acme	Wabo Expandex Asphaltic Plug Joint System w/Expandex Binder

B. Not currently used

C. ITEM 559.41 - ASPHALTIC PLUG FOR CRACK CONTROL (formerly "Modified Elastomeric Plug Type Expansion Joint - 6" wide)

*Use the binder and aggregate from one of the joint systems that are listed under 559.A.*

D. ITEM 559.412 - REPAIR ASPHALTIC PLUG EXPANSION JOINT (Formerly Modified Elastomeric Plug Type Expansion Joint - 20" Wide)

*Use the binder and aggregate from one of the joint systems that are listed under 559.A.*

E. CLOSED CELL EXPANSION MATERIAL

<u>Manufacturer:</u>	<u>Product:</u>
Chase Construction Products	EVA-SEAL 30/Flexseal
Chase Construction Products	Metazeal
Chase Construction Products	Phyzite 380 w/HALS
Polysset Company	Ply-Seal
Polysset Company	Ply-Seal FB, HALS
Polysset Company	Ply-Seal FG
Watson Bowman Acme	Wabo Evazote

**SECTION 560 - PREFABRICATED COMPRESSION SEAL EXPANSION JOINT**

A. PREFABRICATED COMPRESSION SEAL EXPANSION JOINT

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>
D.S. Brown	Delastic "CV" and "CA" Series
Watson Bowman Acme	WA Series

**SECTION 561 - PREFABRICATED EXPANSION JOINT**

A. PREFAB. STRIP SEAL EXPANSION JOINT

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>
D.S. Brown	A2R-400 (SSA2 Steelflex rail profile)
Watson Bowman Acme	SE-400 ("A" steel edge member)

B. PREFAB. MODULAR BRIDGE JOINT SYSTEM

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>
D.S. Brown	D Series
Watson Bowman Acme	STM Series

C. PREFORMED FABRIC TROUGH (Used with prefabricated finger joints)

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>
Fabreeka Products Co.	Flexible Drain Trough
Thermoid of H.B.D. Industries, Inc.	3-ply PNT 50 Saniwhite 3/64 x FS

**SECTION 562 - SILICONE JOINT SEALANT**

A. SILICONE JOINT SEALANT (Non-sag, for vertical and horizontal joints).

*The use of primer is required with these products unless waived by the Engineer.*

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>
Dow Corning Corp.	Dow Corning 888 (Non-sag, for vertical and horizontal joints)
Sika Corporation	Sikasil-728 NS

### B. SILICONE JOINT SEALANT (Self-leveling, for horizontal joints)

*The use of primer is required with these products unless waived by the Engineer.*

**Manufacturer:**

Dow Corning Corp.

Sika Corporation

**Product:**

Dow Corning 890-SL (Self-leveling, for horizontal joints only)

Sikasil-728 SL

## SECTION 593 - GEOTEXTILES

### A. ITEM 593.ABC - GEOTEXTILES

*See the following tables for qualified products and their application, strength, and structure.*

*Note: Products must be tested by the AASHTO National Transportation Product Evaluation Program (NTPEP) which requires retesting every 3 years. Products are considered to be qualified only through the indicated expiration date.*

**A. ITEM 593.ABC - GEOTEXTILES**

**A= Application**

- 1 = Subsurface Drainage
- 2 = Separation
- 3 = Stabilization
- 4 = Permanent Erosion Control

**B= Strength Class**

- 0 = Class 0 (Extra High Strength)
- 1 = Class 1 (High Strength)
- 2 = Class 2 (Medium Strength)
- 3 = Class 3 (Low Strength)

**C= Structure**

- 0 = Contractor Option
- 1 = Nonwoven (Default - Applic. 1 & 4)
- 2 = Monofilament, Woven
- 3 = Slit Filament, Woven

**Note:** In addition to being listed here, manufacturers of geotextiles are required to participate in and maintain compliance with the AASHTO National Transportation Product Evaluation Program that audits producers of geotextiles.

Manufacturer & Product		Qualified For		
<b>Advanced Drainage System</b>	Expiration Date	A Application	B Strength Class	C Structure
104F	1/1/2019	2,3	2,3	2
<b>Belton Industries, Inc.</b>	Expiration Date	A Application	B Strength Class	C Structure
Beltech 315, Style 977	1/1/2017	2,3	1,2,3	3
<b>Carthage Mills</b>	Expiration Date	A Application	B Strength Class	C Structure
FX-160HS	1/1/2017	1,2,3,4	0,1,2,3	1
FX-45HS	1/1/2017	1,2,3	3	1
FX-55	1/1/2017	2,3	3	3
FX-60HS	1/1/2017	1,2,3,4	2,3	1
FX-66	1/1/2017	2,3	1,2,3	3
FX-80HS	1/1/2017	1,2,3,4	1,2,3	1
<b>Crown Resources</b>	Expiration Date	A Application	B Strength Class	C Structure
R070	1/1/2017	1,2,3,4	2,3	1
R100	1/1/2017	1,2,3,4	1,2,3	1
R120	1/1/2017	1,2,3,4	1,2,3	1
R160	1/1/2017	1,2,3,4	1,2,3	1
R042	1/1/2018	1,2,3	3	1
R060	1/1/2018	1,2,3,4	2,3	1
R080	1/1/2018	1,2,3,4	1,2,3	1

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**B= Strength Class**

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- 1 = Class 1 (High Strength)
- 2 = Class 2 (Medium Strength)
- 3 = Class 3 (Low Strength)

**C= Structure**

- 0 = Contractor Option
- 1 = Nonwoven (Default - Applic. 1 & 4)
- 2 = Monofilament, Woven
- 3 = Slit Filament, Woven

**Note:** In addition to being listed here, manufacturers of geotextiles are required to participate in and maintain compliance with the AASHTO National Transportation Product Evaluation Program that audits producers of geotextiles.

Manufacturer & Product		Qualified For		
<b>Hanes Geo Components</b>	Expiration Date	A Application	B Strength Class	C Structure
TerraTex GS	1/1/2017	2,3	3	3
Terratex GS-250	1/1/2017	2,3	2,3	3
Terratex HD	1/1/2017	2,3	1,2,3	3
TerraTex N06	1/1/2017	1,2,3,4	2,3	1
Terratex N07	1/1/2017	1,2,3,4	2,3	1
Terratex N08	1/1/2017	1,2,3,4	1,2,3	1
Terratex N16	1/1/2017	1,2,3,4	0,1,2,3	1
TerraTex N4.5	1/1/2017	1,2,3	3	1
<b>L&amp;M Supply Co.</b>	Expiration Date	A Application	B Strength Class	C Structure
LM 2199 FW	1/1/2019	2,3	2,3	2
<b>Propex Operating Company, LLC</b>	Expiration Date	A Application	B Strength Class	C Structure
Geotex 200ST	1/1/2017	2,3	3	3
Geotex 250ST	1/1/2019	2,3	2,3	3
Geotex 501	1/1/2019	1,2,3,4	3	1
Geotex 601	1/1/2019	1,2,3,4	2,3	1
Geotex 701	1/1/2019	1,2,3,4	2,3	1
Geotex 801	1/1/2019	1,2,3,4	1,2,3	1

**A. ITEM 593.ABC - GEOTEXTILES**

**A= Application**

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**B= Strength Class**

- 0 = Class 0 (Extra High Strength)
- 1 = Class 1 (High Strength)
- 2 = Class 2 (Medium Strength)
- 3 = Class 3 (Low Strength)

**C= Structure**

- 0 = Contractor Option
- 1 = Nonwoven (Default - Applic. 1 & 4)
- 2 = Monofilament, Woven
- 3 = Slit Filament, Woven

**Note:** In addition to being listed here, manufacturers of geotextiles are required to participate in and maintain compliance with the AASHTO National Transportation Product Evaluation Program that audits producers of geotextiles.

Manufacturer & Product		Qualified For		
	Expiration Date	A Application	B Strength Class	C Structure
<b>SKAPS Industries</b>				
SW200	1/1/2017	2,3	3	3
SW315	1/1/2017	2,3	1,2,3	3
W25	1/1/2017	2,3	2,3	3
W270	1/1/2017	2,3	2,3	3
GT116	1/1/2018	1,2,3,4	0,1,2,3	1
GT142	1/1/2018	1,2,3	3	1
GT160	1/1/2018	1,2,3,4	2,3	1
GT170	1/1/2018	1,2,3,4	2,3	1
GT180	1/1/2018	1,2,3,4	1,2,3	1
<b>TenCate Geosynthetics North America</b>				
	Expiration Date	A Application	B Strength Class	C Structure
Mirafi 500X	1/1/2017	2,3	3	3
Mirafi 160N	1/1/2018	1,2,3,4	2,3	1
Mirafi 180N	1/1/2018	1,2,3,4	1,2,3	1
Mirafi 600X	1/1/2018	2,3	1,2,3	3
Mirafi 140N	1/1/2019	1,2,3	3	1
Mirafi FW402	1/1/2019	2,3	3	2
Mirafi FW404	1/1/2019	2,3	1,2,3	2
<b>Thrace-LINQ</b>				
	Expiration Date	A Application	B Strength Class	C Structure
Civil Non-Woven 350EX	1/1/2018	1,2,3,4	0,1,2,3	1
140EX	1/1/2019	1,2,3	3	1

**A. ITEM 593.ABC - GEOTEXTILES**

**A= Application**

- 1 = Subsurface Drainage
- 2 = Separation
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**B= Strength Class**

- 0 = Class 0 (Extra High Strength)
- 1 = Class 1 (High Strength)
- 2 = Class 2 (Medium Strength)
- 3 = Class 3 (Low Strength)

**C= Structure**

- 0 = Contractor Option
- 1 = Nonwoven (Default - Applic. 1 & 4)
- 2 = Monofilament, Woven
- 3 = Slit Filament, Woven

**Note:** In addition to being listed here, manufacturers of geotextiles are required to participate in and maintain compliance with the AASHTO National Transportation Product Evaluation Program that audits producers of geotextiles.

Manufacturer & Product		Qualified For		
<b>US Fabrics</b>	Expiration Date	A Application	B Strength Class	C Structure
US 120NW	1/1/2017	1,2,3	3	1
US 160NW	1/1/2017	1,2,3,4	2,3	1
US 200	1/1/2017	2,3	3	3
US 205NW	1/1/2017	1,2,3,4	1,2,3	1
US 230	1/1/2017	2,3	1,2,3	2
US 230C	1/1/2017	2,3	1,2,3	2
US 250	1/1/2017	2,3	2,3	3
US 315	1/1/2017	2,3	1,2,3	3
US 380NW	1/1/2017	1,2,3,4	0,1,2,3	1
<b>Western Excelsior</b>	Expiration Date	A Application	B Strength Class	C Structure
Excel 16.0N	1/1/2017	1,2,3,4	0,1,2,3	1
<b>Willacoochee Industrial Fabrics, Inc</b>	Expiration Date	A Application	B Strength Class	C Structure
WINFAB 450N	1/1/2017	1,2,3	3	1
WINFAB 600N	1/1/2017	1,2,3,4	2,3	1
WINFAB 700N	1/1/2017	1,2,3,4	2,3	1
WINFAB 800N	1/1/2017	1,2,3,4	1,2,3	1
200W	1/1/2018	2,3	3	3
250W	1/1/2018	2,3	2,3	3
315W	1/1/2018	2,3	1,2,3	3
WINFAB 2199	1/1/2019	2,3	2,3	2
WINFAB 2404	1/1/2019	2,3	1,2,3	2

**SECTION 604 - CATCH BASINS, DROP INLETS, AND MANHOLES**

**A. FIBER REINFORCEMENT FOR PRECAST DRAINAGE STRUCTURES**

*Note: Use of fiber reinforcement is only allowed for drainage structures with a maximum diameter of 4'.*

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>
BASF	Masterfiber MAC100
FORTA Corporation	FORTA FERRO
W.R. Grace	Strux 90/40 Fibers

**SECTION 606 - GUARDRAIL**

**A. SYNTHETIC OFFSET BLOCKS**

*Block dimensions must be as indicated on the standard plan sheet for the item.*

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>
Mondo Polymer Technologies	Mondo Block
Monroeville Industrial Molding, Inc.	P-Block Series
Trinity Highway Products	Modified King Block

**B. ITEM 606.9512 - TEMPORARY IMPACT ATTENUATION DEVICE (Redirective), Test Level 2**

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>
Barrier Systems, Inc.	Universal Tau-II
Energy Absorption Systems, Inc.	Quadguard
Trinity Industries, Inc.	TRACC, WideTRACC, FastTRACC, ShortTRACC
Work Area Protection Corp.	SCI 100 GM

**C. ITEM 606.9513 - TEMPORARY IMPACT ATTENUATION DEVICE (Redirective), Test Level 3**

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>
Barrier Systems, Inc.	Universal Tau-II
Energy Absorption Systems, Inc.	QuadGuard
Trinity Industries, Inc.	TRACC, WideTRACC, FastTRACC, ShortTRACC
Work Area Protection Corp.	SCI 100 GM

**D. ITEM 606.9522 - TEMPORARY IMPACT ATTENUATION DEVICE (Non-redirective), Test Level 2**

*Sand or liquid filled devices may be used when allowed by specification. A product listed under B. ITEM 606.9512 - TEMPORARY IMPACT ATTENUATION DEVICE (Redirective), Test Level 2 may also be used.*

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>
Energy Absorbtion Systems, Inc.	N.E.A.T.

E. ITEM 606.9523 - TEMPORARY IMPACT ATTENUATION DEVICE (Non-redirective), Test Level 3

*Sand or liquid filled devices may be used when allowed by specification. When sand or liquid filled devices are not allowed by specification, use a product listed under C. ITEM 606.9513 - TEMPORARY IMPACT ATTENUATION DEVICE (Redirective), Test Level 3.*

**SECTION 609 - CURBS**

A. NON-SHRINK, NON-METALLIC GROUT (Cement Mortar for Bedding Curb; Bridge)

<u>Manufacturer:</u>	<u>Product:</u>
A.H. Harris	Harris Construction Grout
Conspec Marketing & Manufacturing Co	Enduro #50
Dayton Superior	1107 Advantage Grout
Five Star Products	Structural Concrete

B. POLYESTER FIBERS FOR BITUMINOUS CURB

<u>Manufacturer:</u>	<u>Product:</u>
Advanced Fiber Solutions, Inc.	P1251 Polyester Fibers
Advanced Fiber Solutions, Inc.	P440 Fibers, White or Black
GFC Materials Co.	Petroflex Type 450
Kapejo Inc.	Boni Fibers Type B

**SECTION 616 - TRAFFIC SIGNALS**

A. SAW CUT LOOP SEALANT

<u>Manufacturer:</u>	<u>Product:</u>
3M	Bondo Traffic P-606 Flexible Loop Sealer
Durant Performance Coatings	Stat-A-Flex Loop Sealer
RAI Products, Inc.	Pro-Seal 6006

**SECTION 619 - MAINTENANCE OF TRAFFIC**

**A. TEMPORARY RAISED PAVEMENT MARKERS**

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>
Apex Universal, Inc.	Apex Model 932 Chip Seal Marker *
Astro Optics Corp.	Model TPM
PEXCO LLC, Davidson Traffic Control	Halftrack Marker
PEXCO LLC, Davidson Traffic Control	RPM Durable Pavement Marker
PEXCO LLC, Davidson Traffic Control	TOM Road Marker *

\* Not for use on Interstates or other divided highway facilities.

**SECTION 632 - RETROREFLECTIVE PAVEMENT MARKINGS**

**A. ITEM 632.1 - PREFORMED RETROREFLECTIVE TAPE, TYPE I (REMOVABLE)**

*These products are considered to be "wet reflective"*

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>
3M	Stamark Wet Reflective Removable Tape Series 710 - White & Yellow
Briteline Technologies, Inc.	Deltaline TWR - White & Yellow

**B. Not Currently Used**

**C. ITEM 632.5 - PREFORMED RETROREFLECTIVE TAPE, LEVEL I**

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>
3M	Series 380-I ES - White & Yellow
3M	Stamark High Performance Tape Series 380AW - White
Briteline Technologies, Inc.	Deltaline XRP - White & Yellow

**D. ITEM 632.6 - PREFORMED RETROREFLECTIVE TAPE, LEVEL II**

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>
3M	Series 380-I ES - White & Yellow
Briteline Technologies, Inc.	Brite-Line Series 1000 Durable Tape - White & Yellow
Briteline Technologies, Inc.	Deltaline HDX - White & Yellow

E. Not currently used

F. ITEM 632.9 - PREFORMED BLACKOUT TAPE, TYPE I (REMOVABLE)

*Note: This category is for temporary obliteration of pavement markings.*

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>
3M	3M Stamark Removable Black Line Mask 715
Advance Traffic Markings	ATM 280 Hide A Line
Brite-Line Technologies, Inc.	Deltaline BTR

**SECTION 645 - EROSION CONTROL**

A. through G. These categories are not currently used.

H. TACKIFIERS

*Prior to use, verify conformance with applicable environmental regulations.*

*For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 271-6476.*

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>
CHEMSTAR	StarTak 100
CHEMSTAR	StarTak 600
Eastern Products, Inc.	Ecotak OP
Eastern Products, Inc.	Ecotak Sat

*Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer.*

*These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.*

I. Not currently used.

## Qualified Products List



### J. ITEM 645.41 - TEMPORARY SLOPE STABILIZATION TYPE A

*Note: Products must be tested by the AASHTO National Transportation Product Evaluation Program (NTPEP) which requires retesting every 3 years. Products are considered to be qualified only through the indicated expiration date.*

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>	<b><u>Expiration Date:</u></b>
American Excelsior Company	AEC Premier Straw Double Net	1/1/2017
American Excelsior Company	AEC Premier Straw Single Net	1/1/2017
American Excelsior Company	Curlex I CL	1/1/2017
American Excelsior Company	Curlex II	1/1/2017
American Excelsior Company	Curlex II .98	1/1/2018
East Coast Erosion Blankets	ECS-2	1/1/2017
Enviroscape ECM, Ltd.	C4000	1/1/2017
Enviroscape ECM, Ltd.	S2000	1/1/2018
Enviroscape ECM, Ltd.	SC3000	1/1/2017
North American Green	S150	1/1/2017
Western Excelsior	Excel CS-3	1/1/2017
Western Excelsior	Excel SR-1	1/1/2017
Western Excelsior	Excel SS-2	1/1/2017

### K. ITEM 645.42 - TEMPORARY SLOPE STABILIZATION TYPE B (Wildlife friendly)

*These products may also be used for Item 645.41.*

*Note: Products must be tested by the AASHTO National Transportation Product Evaluation Program (NTPEP) which requires retesting every 3 years. Products are considered to be qualified only through the indicated expiration date.*

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>	<b><u>Expiration Date:</u></b>
American Excelsior Company	Curlex I FibreNet	1/1/2017
East Coast Erosion Blankets, LLC	ECS-2B	1/1/2017
Erosion Control Blanket	S32 BD	1/1/2017
North American Green	S150BN	1/1/2017
Western Excelsior	Excel CS-3 All Natural	1/1/2018
Western Excelsior	Excel S-2 All Natural	1/1/2017
Western Excelsior	Excel SS-2 All Natural	1/1/2018

## Qualified Products List



### L. ITEM 645.43 - TEMPORARY SLOPE STABILIZATION TYPE C

*These products may also be used for Item 645.41.*

*Note: Products must be tested by the AASHTO National Transportation Product Evaluation Program (NTPEP) which requires retesting every 3 years. Products are considered to be qualified only through the indicated expiration date.*

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>	<b><u>Expiration Date:</u></b>
American Excelsior Company	AEC Premier Coconut	1/1/2017
American Excelsior Company	AEC Premier Straw/Coconut	1/1/2017
American Excelsior Company	Curlex High Velocity	1/1/2017
American Excelsior Company	Curlex II CL	1/1/2017
American Excelsior Company	Curlex III	1/1/2017
East Coast Erosion Blankets, LLC	ECC-2	1/1/2017
East Coast Erosion Blankets, LLC	ECSC-2	1/1/2017
Erosion Control Blanket	SC32	1/1/2017
North American Green	C125	1/1/2017
North American Green	SC150	1/1/2017
Western Excelsior	Excel S-2	1/1/2017
Western Excelsior	Excel SD-3	1/1/2017

### M. ITEM 645.44 - TEMPORARY SLOPE STABILIZATION TYPE D (Wildlife friendly)

*These products may also be used for Item 645.43.*

*Note: Products must be tested by the AASHTO National Transportation Product Evaluation Program (NTPEP) which requires retesting every 3 years. Products are considered to be qualified only through the indicated expiration date.*

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>	<b><u>Expiration Date:</u></b>
American Excelsior Company	AEC Premier Coconut FibreNet	1/1/2017
American Excelsior Company	AEC Premier Straw/Coconut FibreNet	1/1/2017
American Excelsior Company	Curlex II FibreNet	1/1/2017
East Coast Erosion Blankets, LLC	ECC-2B	1/1/2017
East Coast Erosion Blankets, LLC	ECSC-2B	1/1/2017
Erosion Control Blanket	C32BD	1/1/2017
Erosion Control Blanket	SC32 BD	1/1/2017
North American Green	C125BN	1/1/2017
North American Green	SC150BN	1/1/2017
Western Excelsior	Excel CC-4 All Natural	1/1/2018

### N. ITEM 645.45 - PERMANENT CHANNEL STABILIZATION TYPE A

*Note: Products must be tested by the AASHTO National Transportation Product Evaluation Program (NTPEP) which requires retesting every 3 years. Products are considered to be qualified only through the indicated expiration date.*

<b><u>Manufacturer:</u></b>	<b><u>Product:</u></b>	<b><u>Expiration Date:</u></b>
American Excelsior Company	Recyclex	1/1/2017
North American Green	P550	1/1/2018

## Qualified Products List



### O. ITEM 645.46 - PERMANENT CHANNEL STABILIZATION TYPE B

*These products may also be used for Item 645.45*

*Note: Products must be tested by the AASHTO National Transportation Product Evaluation Program (NTPEP) which requires retesting every 3 years. Products are considered to be qualified only through the indicated expiration date.*

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
East Coast Erosion Blankets, LLC	ECP-3	1/1/2018
North American Green	P550	1/1/2018
Propex, Inc.	LandLok 300	1/1/2017
Propex, Inc.	Landlok TRM 450	1/1/2017
Propex, Inc.	Pyramat	1/1/2017

## SECTION 718 - RETROREFLECTIVE SHEETING

A. Not currently used

B. Not currently used

### C. RETROREFLECTIVE SHEETING - TYPE IV

<u>Manufacturer:</u>	<u>Product:</u>
3M	High Intensity Prismatic Reflective Sheeting 3930
Avery Dennison	T-6500

### D. RETROREFLECTIVE SHEETING - TYPE VIII

*Unless otherwise specified, Type VIII, and Type IX can be used interchangeably.*

<u>Manufacturer:</u>	<u>Product:</u>
3M	3M Prismatic Reflective Sheeting Series 3940
Avery Dennison	T-7500
Nippon Carbide Industries	Nikkalite Crystal Grade Reflective Sheeting 92000 Series

## Qualified Products List



### E. RETROREFLECTIVE SHEETING - TYPE IX

*Unless otherwise specified, Type VIII and Type IX can be used interchangeably.*

**Manufacturer:**

3M  
Avery Dennison  
Avery Dennison

**Product:**

Diamond Grade VIP Reflective Sheeting Series 3990  
OmniCube (T-11500) Series  
T-9500

### F. Not currently used

### G. OVERLAY FILM

**Manufacturer:**

3M  
Avery Dennison

**Product:**

Electrocut 1170 Series - Yellow, Blue, Green, Red  
OL-2000 Series - Yellow, Blue, Green, Red, Brown

### H. RETROREFLECTIVE SHEETING - TYPE XI

**Manufacturer:**

3M  
Avery Dennison

**Product:**

3M Diamond Grade DG3 Reflective Sheeting Series 4000  
OmniCube (T-11500) Series