

The image shows the cover of a document titled "Unit 16 Qualified Products List". The cover has a grey header section with the title in large black font. To the right of the title is a white box containing the Oregon Department of Transportation Construction Section logo and the text "QUALIFIED PRODUCTS LIST" and "PUBLISHING DATE: JULY 2015". Below the title is the ODOT Materials & Inspection logo.

**Unit 16**  
Qualified Products List

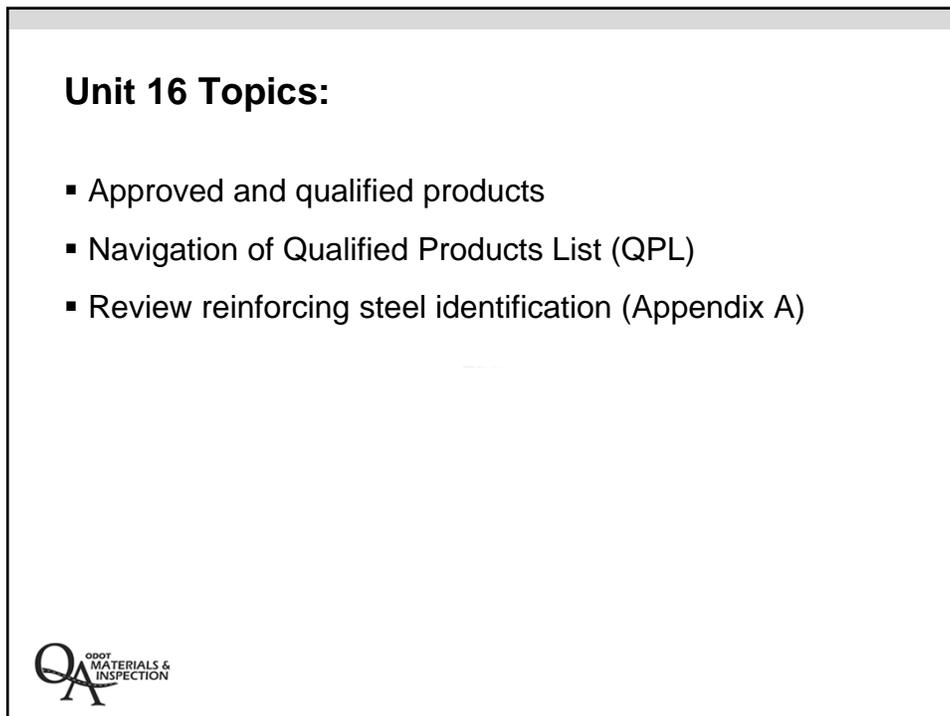
OREGON DEPARTMENT OF TRANSPORTATION  
CONSTRUCTION SECTION

QUALIFIED PRODUCTS LIST  
PUBLISHING DATE: JULY 2015



This list is published every six months and is available only from the Internet. Please notify the Product Evaluation Coordinator, in the Construction Section at the ODOT Materials Laboratory, of any changes in Standard Drawings, Special Provisions, or Specifications, etc., which would require additions to, deletions from, or changes to this listing.





The image shows a slide titled "Unit 16 Topics:" with a bulleted list of three items. The ODOT Materials & Inspection logo is in the bottom left corner.

**Unit 16 Topics:**

- Approved and qualified products
- Navigation of Qualified Products List (QPL)
- Review reinforcing steel identification (Appendix A)



## Qualified Products List (QPL)



- Updated every 6 months
- Questions concerning the QPL or products

**Dean Chess**

Product Evaluation Coordinator  
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Available online at:

<http://www.oregon.gov/ODOT/HWY/CONSTRUCTION/QPL/Docs/QPL.pdf>



## Qualified Products List (QPL)

▪ **Qualified List – (Q)**

- List of products that have been reviewed and found to be suitable for use in a specific category.
- Job control testing may still be necessary.

▪ **Approved List – (A)**

- List for commercially available products having low consequence of failure.
- May require a Field Inspection Report.
- No additional testing is required.



## Qualified Products List (QPL)

### Organization of QPL

- Page I-II – Index by category for Specification number
- Page III – Traffic Control Devices Notice information
- Pages IV-V – Erosion Control
- Pages VI-VII – Pavement Markings
- Pages 1-204 – Qualified/Approved List
- Pages A1-A9 – Reinforcing Steel Producers and Markings



## Qualified Products List (QPL) Pages I-II

### OREGON DEPARTMENT OF TRANSPORTATION

"QPL" INDEX BY CATEGORY TO GET SPECIFICATION NUMBERS

PAGE I

CATEGORY	SPEC #	CATEGORY	SPEC #	CATEGORY	SPEC #
ANTI-GRAFFITI COATINGS - SIGNS	02910.70	CONCRETE MODIFIER - FLY ASH	02030.10	FLAGGER STOP/SLOW PADDLE	00225.27
ASPHALT COLD PATCH - HI PERF	00745.00	CONCRETE MODIFIER - GGBF SLAG	02030.40	FORM TIE, NON-METALLIC	00540.45
ASPHALT RELEASE AGENT	00745.22	CONCRETE MODIFIER - LATEX	02030.30	FRP BRIDGE STRENGTHENING	00565.00
AUTOMATED FLAGGER ASSIST. DEVICE	00225.18	CONCRETE MODIFIER - METAKAOLIN	02030.50	GALVANIZING, REPAIR	02530.71
BACKER ROD	02440.14	CONCRETE MODIFIER - SILICA FUME	02030.20	GEOGRIDS - SUBGRADE REINFORCEMENT	02320.10
BARRICADE, TEMPORARY	00225.12	CONCRETE SURFACE RETARDER	02055.10	GEOGRIDS - TYPE I MSEW	02320.10
BARRIER PANELS, REFLECTIVE	00225.12	CONCRETE SEALER - WATER REPELLENT	02060.30	GLARESCREEN TEMPORARY	00225.12
BARRIER, CABLE	00811.00	CRACK INJECTION, EPOXY	00538.10	GLARE SHIELDS	00822.00
BEARINGS, BRIDGE	00582.10	CONCRETE & CRACK SEALER HIGH MODULUS	02060.20	GROUT, EPOXY	02080.10
BIRD SPIKES	00907.10	CONCRETE & CRACK SEALER LOW MODULUS	02060.10	GROUT, KEYWAY	02080.30
BONDING AGENT, EPOXY	02070.10	CURING BLANKET, CONCRETE	02050.30	GROUT, NON-EPOXY (NON SHRINK)	02080.20
BONDING AGENT, NON-EPOXY	02070.20	CURING COMPOUND, CONCRETE	02050.10	GROUT, TENDON	02080.50
CEMENT, PORTLAND	02010.10	DAMP PROOFING, CLEAR	00597.11	GUARDRAIL BLOCKS, PLASTIC	02110.20
CHEMICAL ADMIXTURES	02040.10	DELINEATORS - (TYPES 1 to 6)	00840.10	GUARDRAIL TERMINALS	02820.00
CHLORIDE REMOVER	00594.13	DETECTABLE WARNING DEVICES	00759.12	HERBICIDES, PRE-EMERGENT	01040.21
COATING FOR REBAR SPLICES	02510.11	DRAINS, TRENCH (PREFORMED)	00446.00	HIGHWAY EDGE DRAINS	02410.00
COATING, FOR REBAR, EPOXY	02510.11	ELASTOMERIC CONCRETE	00584.10	IMPACT ATTENUATOR, PERM.	00830.00
COMPOST	01040.15	ELECTRONIC CUTTABLE FILM	02910.60	IMPACT ATTENUATOR, TEMP.	00225.12
CONCRETE ANCHOR, MECHANICAL	00535.10	EROSION CONTROL	00280.00	IMPACT ATTENUATOR, TRUCK MTD	00225.12
CONCRETE ANCHOR, RESIN	00535.10	EXPANSION JOINTS, BRIDGE	00585.10	JOINT FILLER, PREFORMED	02440.10
CONCRETE BARRIER GATE	00820.00	FENCING, WORKZONE	00225.12	LATEX EMULSION PAINT	02210.30
CONCRETE MODIFIER - BLENDED	02030.60	FLAGGER STATION LIGHTING	00225.17	LOOP SEALANTS, TRAFFIC	00990.43

**Qualified Products List (QPL)  
Page III**

Traffic Control Devices Notice (7-2015) PAGE III

The American Association of State Highway and Transportation Officials (AASHTO) recently published the *Manual for Assessing Safety Hardware* (MASH). MASH is an update to and supersedes NCHRP Report 350.

Requirements in Section 1408 of SAFETEA-LU stated that "The Secretary, in cooperation with the Association [i.e., AASHTO], shall publish updated guidance regarding the conditions under which States, when choosing to improve or replace highway features on the NHS, should improve or replace such features ...". The AASHTO/FHWA Implementation Plan was developed to satisfy that requirement.

Category 1: Plastic Tubular Markers, Plastic Barrels. ODOT Link for Self Certification form: [Click Here](#)

Category 2: Portable Sign Supports, Tripod Mounted AFAD's, Type 3 Barricades, etc.

Category 3: Impact Attenuators, Guardrail, etc.

Category 4: Trailer Mounted Sequential Arrows, Trailer Mounted Message Boards, Trailer Mounted AFAD's, Trailer Mounted Flagger Station Lighting etc.

It is the responsibility of the Contractor to ensure they use a product that complies with the appropriate requirements.

FHWA Safety Websites:  
Work Zone Devices: [http://safety.fhwa.dot.gov/roadway\\_dept/policy\\_guide/road\\_hardware/wzdi/](http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/wzdi/)

Traffic Barriers, Barrier Terminals, Crash Cushions, and Bridge Railings:  
[http://safety.fhwa.dot.gov/roadway%5Fdept/policy\\_guide/road\\_hardware/barriers/term\\_cush.cfm](http://safety.fhwa.dot.gov/roadway%5Fdept/policy_guide/road_hardware/barriers/term_cush.cfm)

NCHRP Report 350: [http://safety.fhwa.dot.gov/roadway\\_dept/policy\\_guide/road\\_hardware/nchrp\\_350/](http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/nchrp_350/)

MASH: [http://safety.fhwa.dot.gov/roadway\\_dept/policy\\_guide/road\\_hardware/ctrmeasures/mash/](http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/ctrmeasures/mash/)

Self Certification Category: [http://safety.fhwa.dot.gov/roadway\\_dept/policy\\_guide/road\\_hardware/nchrp\\_350/catq1.cfm](http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/nchrp_350/catq1.cfm)

FHWA Work zone Letter WZ-161:  
[http://safety.fhwa.dot.gov/roadway\\_dept/policy\\_guide/road\\_hardware/listing.cfm?code=workzone](http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/listing.cfm?code=workzone)

**Qualified Products List (QPL)  
Pages IV-V**

Erosion Control Page IV

Category	Remarks	Section
Check Dam	Type 1 – Aggregate .....	00280.15a
	Type 2 – Straw Bale	
	Type 3 – Biofilter Bag	
	Type 4 – Sand Bag	
	Type 5 – Prefabricated Check Dam System	
	Type 6 – Compost Filter Sock	
Chemical Dust Control	Type 1 – Liquid .....	00280.14c
	Type 2 – Dry	
Drainage Curb .....		00280.15c
Flow Spreader .....		00280.15e
Inlet Protection	Type 1 – Sediment Fence .....	00280.16d
	Type 2 – Geotextile w/Aggregate Filter	
	Type 3 – Prefabricated Filter Insert (Standard and Oil/Gas Versions)	
	Type 4 – Biofilter Bag	
	Type 5 – Masonry and Aggregate	
	Type 6 – Sod	
	Type 7 – Compost Filter Sock	
	Type 8 - Other	
Matting** – Slope	Type A - Slopes 1:3 or flatter - Clay Soil .....	00280.14e
	Type B - Slopes 1:3 or flatter - Sandy Soil	
	Type C - Slopes steeper than 1:3 - Clay Soil	
	Type D - Slopes steeper than 1:3 - Sandy Soil	
Matting** – Flexible Channel Liner	Type E - Shear Stress Range 0 – 96 Pascals (0–2 lbs/sq ft) .....	00280.14e
	Type F - Shear Stress Range 0 – 192 Pascals (0–4 lbs/sq ft)	
	Type G - Shear Stress Range 0 – 287 Pascals (0–6 lbs/sq ft)	
	Type H - Shear Stress Range 0 – 383 Pascals (0–8 lbs/sq ft)	

\*\*Texas DOT Website for use with Mattings:  
[http://www.txdot.gov/business/doing\\_business/product\\_evaluation/erosion\\_control.htm](http://www.txdot.gov/business/doing_business/product_evaluation/erosion_control.htm)

**Qualified Products List (QPL)  
Pages VI-VII**

Page VI

**Pavement Markings (1 of 2)** (7-15)

**Longitudinal Durable Pavement Markings Section 00865.00**

Category	Applications	Material
Method (A) Extruded	(S) Surface (P) Profile, 120 Mils w/ 1/2" bumps (G) Grooved (NP) Non-Profile	(1) Methyl Methacrylate (MMA) (2) Thermoplastic
Method (B) Sprayed	(S) Surface (P) Profile, 120 Mils w/ 1/2" bumps (G) Grooved (NP) Non-Profile	(1) Methyl Methacrylate (MMA) (2) Thermoplastic
Method (C) Tape	Applications Pavement Marking Tape – Rolled-In Non-Patterned Pavement Marking Tape – Rolled-In Patterned Pavement Marking Tape – Grooved Non-Patterned Pavement Marking Tape – Grooved Patterned Pavement Marking Tape – Rolled-In Patterned Wet Weather Pavement Marking Tape – Grooved Patterned Wet Weather	
Method (D) Wet Weather	(S) Surface (P) Profile, 120 Mils w/ 1/2" bumps (G) Grooved (NP) Non-Profile	(1) Methyl Methacrylate (MMA) (2) Thermoplastic

**Qualified Products List (QPL)  
Pages 1-172**

Page 1

ODOT CONSTRUCTION / MATERIALS SECTION  
 QUALIFIED PRODUCTS LIST  
 APPROVED LIST - NO SAMPLES OR TESTS REQUIRED\*\*  
 QUALIFIED LIST - ADDITIONAL REQUIREMENTS\*\*  
 JULY 2015

STANDARD SPEC #	CATEGORY	PRODUCT NAME	LOCAL REPRESENTATIVE AND/OR MANUFACTURER	EFFECTIVE DATE	PRODUCT NUMBER	LIST	REMARKS
0025.11	SKIN COVERS POLYPROPYLENE	SKIN SOCKS	SKIN SOCKS INC 888745-4749 TODD PETREY 541297-8055	02/10/00	1966	A	COVERS SKIN COMPLETELY NOT APPROVED FOR PERMANENT APPLICATIONS.
0025.11	SKIN COVERS RIDGE COVER	SKIN SHIELD	SKIN SHIELDS 503704-1742	06/11/13	4858	A	COVERS SKIN COMPLETELY NOT APPROVED FOR PERMANENT APPLICATIONS.
0025.11	SKIN SHEETING - TYPE 04 RIGID - WORKZONE	ORALITE H PRISMATIC SERIES 9030 CONSTRUCTION WORKZONE	ORAFOL 86676-7100 BROOK JERZYK 86676-7100	04/01/13	4348	A	WAS NAMED REFLEXITE
0025.11	SKIN SHEETING - TYPE 04 RIGID - WORKZONE ODOT TYPE 04 FLUORESCENT ORANGE	AVERY DENNISON W-7314 ASTM D4956 TYPE VII	AVERY DENNISON 899327-5917	03/10/05	2855	A	THIS TYPE OF SHEETING IS REQUIRED IN WORKZONES FOR PROJECTS BID AFTER 1/1/2006. IT IS ON WOODOT QPL.
0025.11	SKIN SHEETING - TYPE 04 RIGID - WORKZONE ODOT TYPE 04 FLUORESCENT ORANGE	3M SERIES 3024S ASTM D4956 TYPE VII & X	3M COMPANY T350 899350-1380 SCOTT ELLWOOD 303268-9180	11/09/06	3236	A	THIS TYPE OF SHEETING IS REQUIRED IN WORKZONES FOR PROJECTS BID AFTER 1/1/2006. IT MEETS OUR SPEC FOR NZ.
0025.11	SKIN SHEETING - TYPE 04 RIGID - WORKZONE ODOT TYPE 04 FLUORESCENT ORANGE	3M SERIES 3054 ASTM D4956 TYPE IX	3M COMPANY T350 899350-1380 SCOTT ELLWOOD 303268-9180	12/09/04	2856	A	THIS TYPE OF SHEETING IS REQUIRED IN WORKZONES FOR PROJECTS BID AFTER 1/1/2006. IT IS ON WOODOT QPL.
0025.11	SKIN SHEETING - TYPE 04 RIGID - WORKZONE ODOT TYPE 04	ORNCUBE T-11500 SERIES ASTM TYPE II	AVERY DENNISON 249205-4891	07/27/12	4302	A	WHITE, FLUO YELLOW FLUO YELLOW GREEN FOR USE IF ALLOWED FLUO ORANGE IS ODOT STANDARD
0025.11	SKIN SHEETING - TYPE 04 RIGID - WORKZONE ODOT TYPE 04 FLUORESCENT ORANGE	ORNCUBE W-11514 FLUO ORANGE ASTM TYPE II	AVERY DENNISON 249205-4891	07/27/12	4301	A	
0025.11	SKIN SHEETING - ROLL-UP FOR ROLL-UP SKINS	REFLEXITE FLUORESCENT PINK SUPERBRITE	ORAFOL 86676-7100 BROOK JERZYK 86676-7100	06/11/09	3736	A	FOR INCIDENT RESPONSE CREWS ONLY. WAS NAMED REFLEXITE

\*LIST 'A' - APPROVED. MAY BE USED WITHOUT SAMPLES, TESTING, OR QUALITY COMPLIANCE CERTIFICATIONS. MAY NEED A FIELD INSPECTION REPORT.  
 \*\*LIST 'Q' - QUALIFIED. USE WITH SAMPLING, TESTING, AND QUALITY COMPLIANCE CERTIFICATIONS AS NEEDED. NEEDS A FIELD INSPECTION REPORT. CHECK SPECS AND NPTMAG.  
 LIST PUBLISHED BY: ODOT MATERIALS LAB, 800 AIRPORT RD SE, SALEM, OR 97301-4736; (503) 866-3059. PLEASE REPORT ANY PROBLEMS USING THESE PRODUCTS.

## QPL: Reinforcing Steel (pages A1-A4)

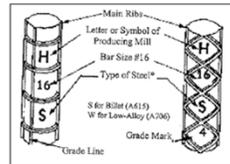
Oregon DOT – QPL (July 2015) Attachment “A” Approved Rebar Producers (English Units)

Page A 1

### Appendix A—Approved Reinforcing Steel Producers

The ASTM specifications for billet-steel and low-alloy reinforcing bars (A615 and A706, respectively) require identification marks to be rolled into the surface of one side of the bar to denote the producer’s mill designation, bar size, type of steel and minimum yield designation. Grade 420 bars show these marks in the following order:

- 1<sup>st</sup> ---Producing Mill (usually a letter)
- 2<sup>nd</sup> --- Bar Size Number (# 4 through # 18)
- 3<sup>rd</sup> --- Type of Steel: S Billet (A 615)  
W for Low Alloy ( A 706)
- 4<sup>th</sup> ---Minimum Yield Designation



The minimum yield designation for Grade 420 bars is either one (1) single, longitudinal line (grade line) or the number 4 (grade mark).

A grade line is smaller and is located between the two main ribs, which are on opposite sides of all bars made in the United States. A grade line must be continued through at least 5 deformation spaces, and it may be placed on the side of the bar opposite the bar marks. A grade mark is the fourth mark on the bar.

VARIATIONS: Bar identification marks may also be oriented to read horizontally (90° to those illustrated). Grade numbers may be placed within consecutive deformation spaces to read vertically or horizontally.

The Identification marks for the Approved Producers are shown in the following figures. Rebar grades shown on these pages are for reference only. Check the specs for the appropriate requirements.

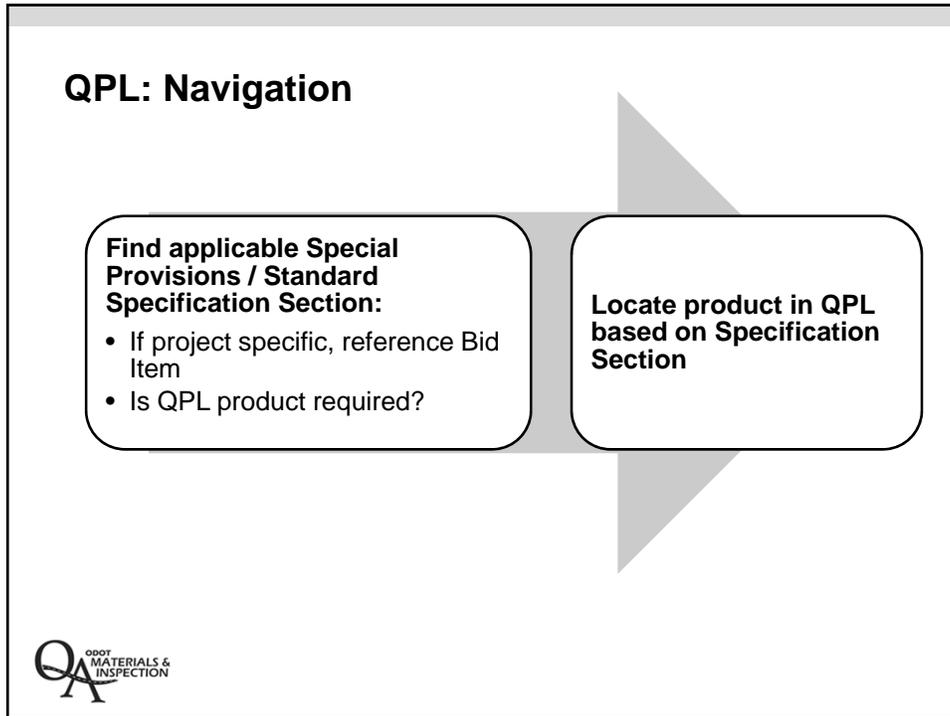
## Qualified Products List (QPL)

### Qualified/Approved List

Page 1, QPL

- 1) Standard Specification number
- 2) Category
- 3) Product Name
- 4) Manufacturer
- 5) Date it was effective
- 6) Product number
- 7) Category List Q/A
- 8) Remarks Section

STANDARD SPEC #	CATEGORY	PRODUCT NAME	LOCAL REPRESENTATIVE AND/OR MANUFACTURER	EFFECTIVE DATE	PRODUCT NUMBER	LIST	REMARKS
00225.11	SIGN COVERS POLYPROPYLENE	SIGN SOCKS	SIGN SOCKS INC. 888785-4769 TODD PETREY 541297-8655	02/10/00	1966	A	COVERS SIGN COMPLETELY NOT APPROVED FOR PERMANENT APPLICATIONS.
00225.11	SIGN COVERS RIDGE COVER	SIGN SHIELD	SIGN SHIELDS 503/704-1762	06/11/13	4658	A	COVERS SIGN COMPLETELY NOT APPROVED FOR PERMANENT APPLICATIONS.



- ### Qualified Products List Overview
- Always check the Special Provisions for Specific Materials
  - Always check the Standard Specification Materials
  - Always read to make sure you know what Quality Acceptance Documents are required
  - Always check ALL of the Contract Documents
    - Remember: Materials will be subject to acceptance testing if the Engineer so elects.
    - The Engineer may reject damaged or non-Specification Materials regardless of the Materials Conformance Documents furnished.
- 
- ODOT MATERIALS & INSPECTION

**Unit 16 Review:**

- ✓ Approved and qualified products
- ✓ Navigation of QPL
- ✓ Reinforcing steel identification (Appendix A)



**QPL: Test Your Navigational Skills!**

**Question 16-1:** What products can be used for roll-up sign sheeting?

- ✓ On page II (225.11) or 00225.11(a-4) in std. specs
- ✓ QPL Page 1 and 2 (2 products for work zone 3-M RS24 Rollup Sheeting and REFLEXITE-Marathon, 2 are for incident response - remarks)
- ✓ List A



## QPL: Test Your Navigational Skills!

**Question 16-2:** What products can be used for prefabricated check dams?

- ✓ Page IV 00280.15 (a) – Type 5
- ✓ QPL Page 53 (4 products-Geo-Ridge, Geobale, Geofilter, Triangular Silt Dike)
- ✓ List A



## Qualified Products List (QPL)

### Class Example Problem 16-3

**Scenario:** The Contractor on our project has delivered **Deltaline BTR non-reflective temporary removable tape** to our project for **temporary pavement markings**. Can we allow the Contractor to use the tape?



## Qualified Products List (QPL)

### Class Problems

**Question 16-4:** The Contractor is going to place White Method B, Sprayed Surface, Thermoplastic longitudinal profiled pavement markings. How many products are available and what quality documentation is required?

**Question 16-5:** What is the maximum allowable slope when using Terra Mulch for temporary mulching?

