

Standard Guidelines for Product Review  
**Longitudinal Pavement Markings - Durable;**  
**Section 00865**  
October 11, 2010

DEPARTMENT OF  
TRANSPORTATION  
Construction Section  
800 Airport Road SE  
Salem, OR 97301-4798  
503/986-3059

## **00865 – Longitudinal Pavement Markings – Durable**

**General** – All Pavement Markings used on ODOT projects must come from the ODOT Qualified Products List (QPL). Here is the link to the QPL Website if you are interested.  
<http://highway.odot.state.or.us/cf/QPLSearch/index.cfm>

**Specifications** – We allow durable markings to be used in various applications, surface mounted and inlaid. We use spray, extrude, flat, profile, and wet weather markings. Current versions of all of our specifications are on the Internet. You can review the Standard Specifications and modifications to those called Special Provisions by reviewing Section 00850 and 00865 at: <http://www.oregon.gov/ODOT/HWY/SPECS/index.shtml>

We require satisfactory test deck information as part of the review process. There are three ways to accomplish this.

1. Satisfactory performance on a National Transportation Product Evaluation Program (NTPTP) or other approved DOT deck can help towards gaining Conditional Approval, but placement on an ODOT test deck is required prior to full approval.
2. Satisfactory performance on an in-house ODOT approved Demonstration can help towards gaining Conditional Approval, but placement on an ODOT test deck is required prior to full approval.
3. Satisfactory performance on an ODOT Test Deck. Contact Joel Fry in the Office of Maintenance for details (503-986-4485).

We require the reflective elements (glass beads) that are utilized with pavement markings to comply with the following:

Arsenic, Antimony & Lead Content – Reflective elements (glass beads) shall not contain more than the amounts listed for the following materials when tested according to EPA Test Methods 3052 and 6010C. Other suitable x-ray fluorescence spectrometry analysis methods may be used for screening purposes.

Arsenic	200 ppm (total)
Antimony (Sb <sub>2</sub> O <sub>3</sub> )	200 ppm (total)
Lead	200 ppm (total)

**Drawings** – You can review our Standard Drawings for this work at:  
[http://egov.oregon.gov/ODOT/HWY/ENGSERVICES/traffic\\_drawings.shtml](http://egov.oregon.gov/ODOT/HWY/ENGSERVICES/traffic_drawings.shtml)

**Process** – To have your product considered for placement on the QPL, submit the following for each formula and color:

- [Preliminary Information for Product Evaluation Form \(Submittal Form\)](#).
- List the specific application methods you are submitting for using the submittal form. - Detailed drawing of application, if submittal is for other than a flat line or standard profile.
- Copy of Independent Test Reports showing compliance with the Arsenic, Antimony & Lead Content requirements.
- Signed Warranty Acceptance Statement.
- Copy of your Contractor Certification program.
- Copies of Brochures, including pictures.
- MSDS (including primers if necessary).
- Limitations of Product.
- Installation Recommendations.
- Copy of this page with product information and test deck preference listed.
- Submit two samples of each color, and shape, approximately 8” long.
- Sample of the reflective elements used for any top dressing (1 pint).

Product Name: \_\_\_\_\_

Product Formula Number: \_\_\_\_\_

Reflective Elements Used: \_\_\_\_\_

- List your Test Deck Preference:

- NTPEP or other DOT Test Deck (attach documentation)
- ODOT Approved Demonstration (attach proposal)
- Official ODOT Test Deck

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Note:** Once your system has been approved, our specifications allow you to substitute better reflective elements on a project, but this is only allowed if you have supplied acceptable heavy metal test results as listed above, and performed one of the test deck methods listed above with that element and this resin, and, or otherwise received approval from the Materials Lab, and will warrant the product as specified.

**Submit to:**

Oregon Department of Transportation – Materials Lab  
Product Evaluation Coordinator  
800 Airport Road SE  
Salem OR 97301-4798

<http://www.oregon.gov/ODOT/HWY/CONSTRUCTION/QPL/QPIndex.shtml>

## Listings of ODOT Categories for Longitudinal Pavement Markings – Durable

On the submittal form, list the category you wish to have your product reviewed for.

<u>CATEGORY</u>	<u>APPLICATIONS</u>
Method A** - Profiled	120 Mils w/ ½” bumps
Method B** - Non-Profiled	120 Mils, Extruded
Method C** – Protected Inlay	Flat Line Flat Line – Wet Weather Truncated Dome Inverted Profile Longitudinal Profile
Method D** - Profiled Wet Weather	Truncated Dome Inverted Profile Longitudinal Profile
Method E** - Non-Profiled Wet Weather	Flat Line Truncated Dome Inverted Profile Longitudinal Profile
Method F** – Spray	120 Mils - Spray
Method G - Tape	Hot Laid Wet Weather Pattern, Hot Laid Grooved Wet Weather Pattern, Grooved Pattern - Hot Laid Pattern - Grooved

Notes: 1) Methyl Methacrylate is also known as MMA

- 2) \*\*Material Options for Methods A, B, C, D, E, & F:  
Option 1 - Methyl Methacrylate (MMA)  
Option 2 – Thermoplastic

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