

Standard Guidelines for Product Review

Traffic Delineators – Type 6;

Section 00840.10

September 29, 2010

00840.10 – Traffic Delineators – Type 6

We use six types of Traffic Delineators.

- Type 1 are flat, metal and designed to be driven into the ground.
- Type 1U are flat, metal, utility grade and designed to be driven into the ground.
- Type 2 are flat and designed to be driven into the ground.
- Type 3 are round and designed to be driven into the ground.
- Type 4 Alt - 1 are flat and designed to be mounted on guard rail posts.
- Type 4 Alt - 2 are flat, metal and designed to be mounted on guard rail posts.
- Type 5 are barrier markers, designed to be mounted on top of concrete barrier.
- **Type 6 delineators have a trapezoidal shape and attach to the “well” in Type 2A or Type 3 guardrail.**

ODOT keeps a list of approved retro-reflectorized concrete barrier markers reflectors.

To have your product listed, you must show compliance with the specifications listed below.

- Have a trapezoidal shape and a minimum retro-reflective area of 8 square inches with no dimension less than 1.5 inches. The delineator shall fit into the “well” or inner groove of the guardrail section without protruding past the face of the rail. Metal units shall not extend under the guardrail bolt, unless crash testing for that design has been approved by FHWA.
- Steel delineators shall have a galvanized coating as per [ODOT Standard Specification #02820](#).
- Be substantial in nature and capable of being mounted onto guardrail as described above and aimed at on-coming traffic without causing confusion.
- Supplier shall submit a “[Self-Certification](#)” indicating compliance with NCHRP Category 1. The manufacturer has the responsibility to determine crash-worthiness of the product, based on crash tests or engineering analysis.
- Delineators made of plastic shall use a durable material resistant to impact, ultraviolet light, ozone, hydrocarbons and other effects of atmospheric weathering. They shall mount to the guardrail with a positive and durable mechanism.
- Plastic delineators shall not bend under ordinary wind conditions.
- Delineator color and appearance shall consist of either galvanized steel or white plastic, with an option of red-brown base plastic, paint or powder-coating (color #30059 from the Federal Standard 595B color index) for use in certain architectural applications.
- Delineators using retroreflective adhesive material shall meet or exceed ASTM D 4956 Type III. Provide models with retro-reflective sheeting on either one or both sides of the delineator.

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- Sealed acrylic plastic prismatic reflex units conforming to the following:

<u>Observation Angle (Degrees)</u>	<u>Entrance Angle (Degrees)</u>	<u>Specific Intensity Candlepower per foot candle</u>	
		<u>White</u>	<u>Yellow</u>
0.1	0	115	70
0.1	20	45	25
0.33	0	48	29
0.33	20	19	11

To apply for inclusion on the QPL, submit the following:

- Preliminary information for [Product Evaluation Form](#) (copy enclosed).
- Independent test results showing compliance with specs listed above.
- Spec data sheet.
- Detailed installation/operating instructions with recommended adhesive information.
- List of limitations and precautions.
- Provide two working, production-line samples for evaluation.

Submit documentation and samples for evaluation to:

Oregon Department of Transportation
Materials Laboratory
Attn: Product Evaluation Coordinator
800 Airport Road SE
Salem OR 97301-4798
503-986-3059

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