

Standard Guidelines for Product Review  
**TUBULAR MARKERS, SURFACE MOUNTED;**  
**Section 00225.13**  
July 8, 2010

**Surface Mounted Tubular Markers** are tubular markers that are designed to be attached to the roadway surface and used to delineate travel lanes. A steady burn, amber light is allowed for channelizing purposes. An amber flashing light is allowed for spot hazard conditions. All versions need to comply with the MUTCD and crash worthiness testing is required. It is your responsibility to determine if your product is crash-worthy. To determine this crashworthiness, you should use crash tests and or an engineering analysis.

**To submit a product for review:**

- Submit a completed [Preliminary Information Form for Product Evaluation](#).
- Submit shop drawings, brochures, pictures, and or samples sufficient for us to be able to determine that your product meets our specifications and is suitable for the application.
- For tubular markers without lights, submit a "Self-Certification" indicating compliance with the current FHWA crashworthiness requirements.
- For tubular markers with lights, submit documentation indicating compliance with the current FHWA crashworthiness requirements.

**Specifications** - The unit shall comply with the MUTCD and the following:

- Manufactured of a material capable of withstanding impact without damage to the markers or vehicles at a temperature range of -20 to 140 degrees F. The tube shall remain in the base when hit by vehicles.
- Capable of remaining upright during normal traffic flow, and wind conditions in the area where they are used.
- A minimum height of 28 inches , and
- A minimum dimension of 3 inches facing on-coming traffic and a minimum dimension of 2 inches for all other orientations.
- Colored orange.
- Reflectorized with at least two white, flexible reflective bands at least 3 inches wide, securely attached no more than 2 inches from the top with no more than 6 inches nor less than 1 inch between the bands.
- Reflectorized bands shall meet or exceed the requirements of ASTM D4956 Type III.
- The adhesive shall be a durable long-lasting adhesive material.

Please forward your information and/or questions to:

Oregon DOT – Materials Laboratory  
Attn: Product Evaluation Coordinator (503) 986-3059  
800 Airport Rd SE  
Salem, OR 97301-4798

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