

Standard Guidelines for Product Review

TUBULAR MARKERS; Section 00225.13

February 28, 2008

Tubular Markers - The unit shall utilize two-piece construction, so the tube and base combined constitute a marker which will remain upright in its designated position during normal traffic flow and wind conditions. All versions need to comply with the MUTCD and a crash worthiness evaluation is required.

To submit a product for review:

- Submit a completed Preliminary Information Form for Product Evaluation.
- Submit shop drawings, brochures, pictures, and samples sufficient for us to be able to determine that your product meets our specifications and is suitable for the application.
- Submit a "Self-Certification" indicating compliance with NCHRP 350 Category 1. It is your responsibility to determine if your product is crash-worthy. To determine crashworthiness, you should use crash tests and or an engineering analysis.

Specifications:

Tubular Markers - 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. 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
- 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 AASHTO M 268 Type III.
- A minimum diameter of 3 inches.
- The base shall be made of solid, durable rubber with a weight of at least 8 pounds. The base shall measure at least 8 inches from the center of the base to the outside edge, and the thickness shall be 1 inch to 2 inches.

Please forward your information and/or questions to:

OREGON DOT – MATERIALS LABORATORY
ATTN: MIKE DUNNING (503) 986-3059
800 AIRPORT RD SE
SALEM OR 97301-4798

[HTTP://WWW.OREGON.GOV/ODOT/HWY/CONSTRUCTION/QPL/QPINDEX.SHTML](http://www.oregon.gov/odot/hwy/construction/qpl/qpindex.shtml)