

Standard Guidelines for Product Review

TUBULAR MARKERS, SURFACE MOUNTED, PERMANENT;

Section 00856.10

January 17, 2007

DEPARTMENT OF
TRANSPORTATION

Construction Section

800 Airport Road SE
Salem, OR 97301-4798
503/986-3059

Surface Mounted Tubular Markers are tubular markers that are designed to be attached to the roadway surface in permanent applications and used to delineate travel lanes. 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.
- Submit test data showing compliance with the Specifications listed below.
- Submit a "[Self-Certification](#)" indicating compliance with NCHRP 350 Category 1.
- Each submittal should be specific to a model number, and only include one model.

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 F. The tube shall remain in the base when hit by vehicles.
- We require these versions to be bolted to the pavement. They shall be capable of remaining upright during normal traffic flow, and wind conditions in the area where they are used.
- Heights: 28", 36", and 48"
- Diameter: Minimum 3 inches in any position.
- Colored white or yellow as required.
- Reflectorized with 2 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. The color of the reflective band shall match the color of tube.
- Reflective bands shall meet or exceed the requirements of AASHTO M 268 Type III or Type IV.

Please forward your information and/or questions to:

OREGON DOT – MATERIALS LABORATORY

Attn: MIKE DUNNING (503) 986-3059

800 AIRPORT ROAD SE

SALEM OR 97301-4798

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