

Standard Guidelines for Product Review

TUBULAR MARKERS - BLUE; Section 00225.13

October 15, 2009

Blue 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 crash worthiness testing is required.

To Submit a product for review:

- Submit a completed [Preliminary Information 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.
- The tube shall have a a minimum height of 28 inches
- Colored blue as follows: Pantone 294 or Federal Standard 595b color 15095.
- Reflectorized with at least two blue, 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 be blue and meet or exceed the requirements of AASHTO M 268 Type III.
- The tube shall have 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)

Standard Guidelines for Product Review

TUBULAR MARKERS - BLUE; Section 00225.13

October 15, 2009

CONTACT INFORMATION FOR COLOR CHARTS:

PANTONE:

<http://en.wikipedia.org/wiki/Pantone>

<http://www.pantone.com/pages/products/product.aspx?pid=293&ca=1>

FEDERAL STANDARD 595B:

Fan Fold Color Chart from the Federal Gov't: 202-629-8925

<http://www.fed-std-595.com/>