



## STEEL PLATE BEAM GUARD



Policy Updated: September 18, 2016



### Project Acceptance:

Steel plate beam guard manufacturer must be on the department Pre-Qualified Steel Plate Beam Guard Manufacturers List. Procedure for manufacturer prequalification is listed in a separate section below.

### Certification of Compliance:

A Certification of Compliance shall be furnished (for each contract) by the guardrail installer for each manufacturer of beam guard for the contract. The certification needs to be have the date, signature and title of the person certifying the product. Information on the certificate shall include the following:

State Project ID  
Highway Number  
Project Description  
County  
Name or Brand of Manufacturer  
Product Identification Number (ie: AASHTO M180 Class A Type II)  
Signed Buy America Certification Statement\*

\*Note about Buy America Certification: Certification needs to state where the steel/iron has been melted, molded, galvanized, epoxy coated etc. A signature is required on the Buy America certification. Also, mill and manufacturer certification is expected to be on file and provided upon request. Buy America is a mandate of the Federal Highway Administration, enacted in 1983.

All guardrail materials and associated guardrail components are to meet the material requirements of WisDOT Standard Specification, Section 614 and AASHTO Specification M180. Any guardrail material not in conformance with specifications will be removed and replaced at no cost to the Wisconsin Department of Transportation.

The engineer will verify that the Certification of Compliance Product Identification number is on the shipment of beam guard delivered to the project site.

### Coating Thickness Quality Verification:

Annually, each WisDOT Regional Technical Services Section (TSS) shall visit projects where Beam Guard has been installed. Randomly select a rail and test using PosiTector Model 6000 F coating thickness gauge or equivalent to verify the minimum mean (average) for the rail is at least 80 microns (which has been tested in the Truax laboratory to be equivalent to the WisDOT specification Section 614 Coating Thickness requirement of 3.6 ounces per square foot.) If the mean of the rail measurements is deficient, randomly select two additional rails from that heat/lot number and take a batch of measurements at each end of the two rails. The mean coating thickness for all four of the batches must meet or exceed the specification of 80 microns (3.6 oz/sf). If the rails do not meet the specification, have the vendor cut three standard two-foot samples from the original failing rail for Truax laboratory testing. Also, mark the two retest rails in the field for future reference. If the test at Truax laboratory confirms deficient coating thickness, all of the beam guard provided for the contract will be removed and replaced at no cost to the Wisconsin Department of Transportation.

Beam guard coating thickness verification may be waived if less than 500 linear feet is placed on a contract.

Annually WisDOT will complete Round Robin Verification Testing to validate Region's Positector calibration and consistency. Positectors found to be outside of verification tolerances shall be repaired or replaced. Replaced Positectors shall test verification panel prior to use.

### Department Documentation:

1. All beam guard Coating Thickness Quality Verification testing as described above shall be reported on a material tracking/material information tracking (MTS/MIT) prefix 155 Miscellaneous Materials Report.
2. Certifications of Compliance shall be referenced on a MTS/MIT prefix 900 or 905 reference report. (Contact your region materials section for documentation preference.)
3. The complete marking stamped on the beam needs to be recorded in a MTS/MIT prefix 155 reference report. Create one MTS/MIT prefix 155 report for each manufacturer.

### Manufacturer Pre-Qualification Requirements:

Only materials from the manufacturers listed on the department Pre-Qualified Steel Plate Beam Guard Manufacturers List will be accepted for use on state projects.

Pre-qualification is based on Brand Registration and Guarantee in accordance with AASHTO M180. Submit Brand Registration and Guarantee annually to the WisDOT Division of Transportation Development-Bureau of Technical Services-Materials Management Section for approval.

AASHTO NTPEP is in the process of establishing a pre-qualification program for steel plate beamguard materials, and an audit program for manufacturers of these materials. When this program is formally in place, WisDOT will be participating. Information will be posted here in the future regarding the status of this participation.

## PRE-QUALIFIED STEEL PLATE BEAM GUARD MANUFACTURERS

Date last edited: 10/18/2016

<u>Contact Name</u>	<u>Manufacturer</u>	<u>Date Approved</u>
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