

State of Louisiana
Department of Transportation and Development (DOTD)
Materials and Testing Section Approved Materials Procedure
for

METAL BEAM FOR HIGHWAY GUARD RAIL

MATERIAL SPECIFICATION REFERENCE:

DOTD Standard Specifications, Section 704, Subsection 1010.09, AASHTO M 180, Supplemental Specifications and Special Provisions.

APPROVED MATERIAL EVALUATION SUBMITTAL:

The manufacturer shall submit a completed Approved Materials Evaluation Submittal to the DOTD Materials and Testing Section Coordinator listed below.

PRELIMINARY REQUIREMENTS:

The complete submittal must include:

- Complete Approved Materials Evaluation Form
- Letter requesting evaluation of the material or system
- Outline of the manufacturer's quality assurance sampling and testing program
- Identification mark stamped on guard rail (brand trademark)
- Product Data Sheets
- Manufacturer's specifications
- Independent Laboratory Test Results
- Safety Data Sheet (SDS)
- AASHTO National Transportation Products Evaluation Program (NTPEP) Results

The address of the contact affiliated with AASHTO NTPEP is:

NTPEP Coordinator
AASHTO National Transportation Products Evaluation Program
444 N. Capitol St. N.W.
Suite 249
Washington, D.C. 20001
Phone: (202) 624-3695
Fax: (202) 624-5806
<http://data.ntpep.org>

For detailed information, refer to the Operational Procedures of the AASHTO NTPEP available from the NTPEP Coordinator.

NOTE: Evaluation will not begin until all required items listed above are received by the Materials Laboratory

PRELIMINARY REQUIREMENTS CONTINUED:

Certifications and/or Test Reports

Prior to submitting an "Approved Materials Evaluation Form" to the Materials and Testing Section, the manufacturer shall have successfully completed the requirements of the AASHTO NTPEP for "Evaluation of Highway Guardrail Manufacturers". The laboratory results obtained from the AASHTO NTPEP report will be used to determine conformance of the material to LA DOTD Standard Specifications.

The manufacturer shall provide a Certificate of Analysis (CA) by an independent laboratory reporting the required physical and chemical properties for Metal Beams for Highway Guardrail and all required components of the system in accordance with LA DOTD Standard Specifications.

Product Data Sheets shall provide all pertinent information relative to the material to be evaluated, including but not limited to:

- Manufacturer's specifications
- Identification mark stamped on guard rail (brand trademark)

INSPECTION:

The Department may require a field evaluation and/or an inspection of the manufacturing plant to review methods of sampling, testing and handling of guard rail systems.

Evaluation Time (1 Month)

GENERAL:

Upon completion of the evaluation, the manufacturer/fabricator will be notified in writing concerning the results of the evaluation and whether the plant and material or system will or will not be added to the Approved Materials List (AML). Source approval may be granted based on the Department's satisfaction that consistent guard rail systems are being produced, and conform to the Department's Specifications. If approved, the manufacturer/fabricator is required to submit a list to the DOTD Materials and Testing Section Coordinator showing that plant representatives are authorized to sign "Certificate of Compliance for Metal Beam for Highway Guard Rail" forms which shall accompany each shipment to state projects.

The DOTD Materials and Testing Section Coordinator shall be notified in writing of any change from the original system submittal. The Department reserves the right to re-evaluate any system at any time. The manufacturer/fabricator shall annually file a Brand Registration and Guarantee with the DOTD Materials Engineer Administrator in accordance with AASHTO M 180. Additionally, a Certificate of Analysis (CA) of the system shall be submitted every two (2) years to the DOTD Materials and Testing Section Coordinator to remain on the AML.

It is also the manufacturer's responsibility to supply the contact information of the representative responsible for the material to the Materials Section Coordinator to remain on the AML. This is done by completing the Approved Materials Evaluation Form every two (2) years or when there is a change in the manufacturing representative responsible for the material.

PROJECT ACCEPTANCE REQUIREMENTS:

The inclusion of any system on the AML is not blanket approval for its use. All systems, regardless of prior approval, shall be sampled in accordance to the Materials Sampling Manual.

DISQUALIFICATION AND REMOVAL:

Any material may be removed from the AML at any time. Causes for removal from the AML may include, but are not limited to the following:

- Non-conformance with specifications
- Performance requirements
- Failure to notify the Department of any change in material formulation
- Failure of the supplier to provide proper certifications as required by this procedure
- Failing test results obtained by the Materials Section of project verification samples
- Failure to supply current contact information for the material representative in accordance with this procedure

REQUALIFICATION:

Any system which has been disqualified and/or removed from the AML will be considered for re-evaluation only after submission of a formal request along with acceptable evidence that the problems causing the disqualification and/or removal have been resolved.

DOTD MATERIALS AND TESTING SECTION COORDINATOR:

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BRIAN OWENS, P.E.
DOTD MATERIALS ENGINEER ADMINISTRATOR