



NEVADA DEPARTMENT OF TRANSPORTATION - RESEARCH SECTION

EXTERNAL PRODUCT/MATERIAL ACCEPTANCE CRITERIA
 QPL Section 618.02.01 – GUARDRAIL OFFSET BLOCKS

Category Description: Blocks used to offset guardrail from posts. NDOT reserves the right to limit the number of products in this category for maintenance inventory reasons.

Primary Evaluating Section: Specifications

Evaluation Criteria (adopted 06/12/2018):

Requirement	Criteria	Test
Composition	Product must be made of wood or a composite material.	Pass/Fail
Gravitational Pendulum ²	Product must have undergone MASH-16, Appendix D, D1.5 testing at an independent facility and both the test report and the videos provided with application.	Pass/Fail
Durability	Product must have a service life of between 20 to 40 years.	Pass/Fail
Compressive Properties ²	Independent laboratory report furnished with application for ASTM D6108. Product must achieve 280 psi minimum.	Pass/Fail
Accelerated Outdoor Weathering of Nonmetallic Materials Using Concentrated Sunlight ²	<p>Independent laboratory report furnished with application for the following test: Perform in sequence where ASTM D256 is performed on exposed samples and unexposed control samples from ASTM G90 to indicate the effect of natural sunlight on the impact resistance of the product.</p> <p>The minimum impact value for the lowest returned value on the unexposed specimens must be greater than 55J/m.</p> <p>The minimum impact value for the lowest returned value on the exposed specimens must be less than 75% of the lowest value returned for the unexposed specimens.</p>	Pass/Fail
Classification System for Plastic Materials ²	Independent laboratory report for ASTM D4000 furnished with application.	Pass/Fail

Note to Applicants:

Products made of wood must conform to Sections 618 and 718 of the NDOT Standard Specifications for Road and Bridge Construction. Requirements marked with a superscript numeral 2 in the requirement column relate only to composite products.