



## NEVADA DEPARTMENT OF TRANSPORTATION - RESEARCH SECTION

**EXTERNAL PRODUCT/MATERIAL ACCEPTANCE CRITERIA**  
**QPL Section 613.02.01 – DETECTABLE WARNINGS (ADA TILE)**

**Category Description:** Detectable warnings (truncated domes) are standardized design requirements to alert people with visual impairments of their approach to street crossings and hazardous drop-offs.

**Primary Evaluating Section:** Specifications

**Evaluation Criteria (modified 12/10/2020):**

Requirement	Criteria	Test
US Access Board's Public Right-of-Way Guidelines (PROWAG)	Must meet current PROWAG specifications for dome configuration, spacing, and alignment, as well as visual contrast.	Pass/Fail
Composition	Must be a cementitious or cast iron wet-set or replaceable panel. (Plastic, glue-down, or paint-on products are not allowed).	Pass/Fail
Landscape & Aesthetics Color Palette	Concrete - Must be available in Landscape Design color specification range: Nevada Red (DE-5117 to DE-5118). Cast Iron – Leave untreated to allow its natural patina to develop.	Pass/Fail
Cast Iron – Physical Properties	Complies (Class 30B) minimum Tensile Strength (Grade 3000) 30,000 psi minimum	ASTM A-48 ASTM A-159
Concrete – Integral Color	Color must be consistent throughout the panel.	Pass/Fail
Concrete – Panel Thickness	Minimum = ½ inch, maximum = 1 inch.	Pass/Fail
Concrete – PSI	10,000 psi minimum	Pass/Fail
Service Life	20 years minimum.	Pass/Fail
Sample	Sample provided with application.	Pass/Fail

**Note to Applicants:**

A representative sample of the product must be submitted to the Department for inspection along with the application package. The application package must contain a completed application for product evaluation, a report from an independent testing laboratory which documents conformance with the current PROWAG specifications, proof that color is consistent throughout panel (integral color), the concrete PSI, and the full results of testing for ASTM A-48 and ASTM A-159 (if product is cast iron).