

## Evaluation Table

|                      |                             |
|----------------------|-----------------------------|
| <b>PEP ID:</b>       | <b>XXXXX</b>                |
| <b>Manufacturer:</b> | <b>Name of Manufacturer</b> |
| <b>Product Name:</b> | <b>Name of Product</b>      |

908 Detectable Warning Device

908 Surface Mounted Tactile Warning Surfaces (Polymer Concrete Tiles and Panels)

ADOT Standard Specification: 908, also see DWD Guidelines

ADOT Standard Drawing: C-05.30 Sheet 7

Responsible Section: Roadway Group

| <b>Material Property</b>                            | <b>Specification/<br/>Test Method</b>        | <b>Requirement</b>  | <b>Results</b> | <b>Pass/<br/>Fail</b> |
|---|--|---|----------------|-----------------------|
| Dome Base Diameter, inches                          | DWD Guidelines<br>C-05.30, Sheet 7           | 0.9 - 1.4   |                |                       |
| Dome Top Diameter, %                                | DWD Guidelines<br>C-05.30, Sheet 7           | 50 - 65% of base diameter   |                |                       |
| Dome Height, inches                                 | DWD Guidelines<br>C-05.30, Sheet 7           | 0.2   |                |                       |
| Dome Spacing,<br>Center to Center, inches           | DWD Guidelines<br>C-05.30, Sheet 7           | 1.6 - 2.4   |                |                       |
| Dome Spacing,<br>Base to Base, inches               | DWD Guidelines<br>C-05.30, Sheet 7           | 0.65 minimum  |                |                       |
| Installation Instructions                           | DWD Guidelines                               | Manufacturers shall provide<br>detailed installation instructions.  |                |                       |
| Fabrication   | DWD Guidelines                               | Detectable warning strip<br>components shall be pre-fabricated.<br>There shall be no on-site fabrication<br>of truncated domes. |                |                       |
| Skid Resistance                                     | DWD Guidelines                               | Detectable warning strips shall be<br>skid resistant.   |                |                       |
| Flexibility   | DWD Guidelines                               | Detectable warning strips shall be<br>rigid, inflexible, and non-yielding.  |                |                       |
| Flammability  | DWD Guidelines                               | Detectable warning strips shall be<br>non-flammable.  |                |                       |
| Average Compressive<br>Strength, minimum, psi       | DWD Guidelines<br>ASTM C109                  | 8,000   |                |                       |
| Average Flexural Strength,<br>minimum, psi          | DWD Guidelines<br>ASTM C293                  | 3,000   |                |                       |
| Average Splitting Tensile<br>Strength, minimum, psi | DWD Guidelines<br>ASTM C496 or<br>ASTM C1006 | 1,500   |                |                       |
| Impact Strength,<br>minimum, inch-lbs.              | DWD Guidelines<br>ASTM D5420                 | 550   |                |                       |
| Average Water Absorption,<br>maximum, %             | DWD Guidelines<br>ASTM D570                  | 1   |                |                       |

| <b>Material Property</b>   | <b>Specification/<br/>Test Method</b>                        | <b>Requirement</b>                           | <b>Results</b> | <b>Pass/<br/>Fail</b> |
|--|--|--|----------------|-----------------------|
| Resistance to a minimum of 50 freeze-thaw cycles, maximum  | DWD Guidelines<br>ASTM C666                                  | 0% material loss                             |                |                       |
|  |  | 20% relative dynamic modulus elasticity loss |                |                       |
| Color Change $\Delta E$ on the panel when weathered for 2000 hours with UV light, with spray and condensation in the cycles, maximum | DWD Guidelines<br>ASTM G155                                  | 5.0  |                |                       |
| Abrasion resistance test, average thickness loss, Maximum, inches (mm)   | DWD Guidelines<br>ASTM C418                                  | 0.118 (3)                                    |                |                       |
| Slip Resistance, minimum   | DWD Guidelines<br>ASTM C1028                                 | Dry: 0.8                                     |                |                       |
|  |  | Wet: 0.6                                     |                |                       |
| Anchor Pullout Strength  | DWD Guidelines<br>ASTM E754 or<br>ASTM E488 or<br>ASTM E1512 | Report Only                                  |                |                       |
| Adhesion Bond Strength   | DWD Guidelines<br>ASTM C1583                                 | Report Only                                  |                |                       |