

**SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
QUALIFIED PRODUCT POLICY FOR
QUALIFIED PRODUCT LIST 61 – DETECTABLE WARNING SYSTEMS**

This policy covers Detectable Warning Surfaces used on pedestrian access routes.

Detectable Warning Systems:

Detectable Warning – A surface feature of truncated domes material built in or applied to the walking surface to advise of an upcoming change from pedestrian to vehicular way.

Manufacture the Detectable Warning Surface in conformance with the *Revised Draft Guidelines for Accessible Public Rights-Of-Way*, November 23, 2005 and the SCDOT **Standard Drawings** (720-9xx-xx).

D10 Wet Inset (Standard Drawings 720-910-xx) systems are suitable in all locations when placing new concrete. This system uses stainless steel mechanical anchors and threaded inserts or embedded fins to provide a bond with the curing concrete.

D11 Grouted/Mortared Paver (Standard Drawings 720-911-xx) systems are suitable only in locations where specified in the plans or special provisions. Grouted pavers are flat bottom bricks or tiles that use a grout or mortar bed and embedment thickness to provide sufficient bond to stay in place. Set all pavers flush with the adjacent sidewalk surface and with adjacent pavers. Use only a grouted paver system that conforms to any aesthetic requirements listed in the plans or special provisions, including size and color.

D12 Asphalt Applied (Standard Drawings 720-912-xx) systems are suitable only in locations when placing detectable warning directly on asphalt pavement (existing or newly placed). Asphalt Applied systems require both a bonding agent (pressure sensitive adhesive, construction adhesive) and full metal mechanical expansion anchors. Use only the bonding agent specified by the warning surface manufacturer. SCDOT requests that each manufacturer wishing to supply Asphalt Applied detectable warnings perform 1 test installation as part of the qualification process.

D19 Dry Bonded (Standard Drawings 720-919-xx) systems are suitable only in retrofit locations when retaining existing ramps. Do not use dry bonded systems on projects when placing new concrete. Dry Bonded systems require both a bonding agent (pressure sensitive adhesive, construction adhesive) and full metal mechanical expansion anchors. Use only the bonding agent specified by the warning surface manufacturer.

For each trademark product, submit a completed copy of the product information form QPL61DW, a sample (minimum 1 foot x 2 feet area), and a letter certifying compliance with SCDOT Standard Drawings 720-9xx-xx.

Manufacturers (not distributors) must submit application for **Qualified Product List 61**. Distributors may sell detectable warning systems listed on **Qualified Product List 61** for use within SCDOT right-of-way, but will not be listed. Use warning surface from only one manufacturer in

each category required to complete the project.

Use detectable warning surfaces that contrast visually with adjacent gutter, street, highway, or walkway surface, either light-on-dark or dark-on-light. Use a non-slip powder coat finish on all metal detectable warning surfaces. For all other materials, incorporate color directly into the warning surface material. The Department's default color is "safety yellow" (Federal Color No. 33538) for the Detectable Warning Surface. If a specific project requires another color, the designer must specify the color required in the plans or special provisions. Provide only one color on a project unless specified otherwise in the plans or special provisions.

SCDOT reserves the right to make revisions to the testing requirements for detectable warning surfaces. It is the manufacturer's responsibility to periodically review and ensure that the products listed meet the requirements. Submit information for each product using the attached product information form. Submit changes to company contact information on company letterhead in the event of ownership change, provide change notice on letterhead consistent with the QPL listing.

SCDOT does not have an obligation to use any products on **Qualified Product List 61** and reserves the right to re-evaluate qualification status of any product exhibiting performance issues. If for any reason, a company's product no longer meets these qualifications, the product will be removed from the list.

**PRODUCT INFORMATION FORM QPL61DW
DETECTABLE WARNING SURFACES**

When submitting detectable warnings for review by the Department, manufacturer must submit the following for each different model/type, and complete **all lines** of the form:

1. A sample (minimum 1 foot x 2 feet, which may include multiple pieces).
2. Manufacturer's installation instructions.
3. A letter certifying compliance with SCDOT Standard Drawings 720-9xx-xx
4. This Detectable Warning System Product Information Form:

Manufacturer Name: _____

Street Address _____

City _____

State, Postal Code _____

Company Website _____

Contact Name: _____

Contact Email: _____

Phone Number _____

Fax Number _____

Trademark Name: _____

Systems

(Please check only one – submit separate form for each trademark item)

For new construction or retrofit

D10 Wet Inset (720-910-xx)

- D10A Wet Inset Replaceable (Mechanical Anchors and Threaded inserts)
- D10B Wet Inset Dedicated (Mechanical Anchors and Threaded Inserts)
- D10C Wet Inset Dedicated (Embedded Fins)

D11 Grouted Paver (720-911-xx)

- D11A Grouted Paver Brick (> 0.5" thick)
- D11B Grouted Paver Tile (<= 0.5" thick)

D12 Asphalt Applied (720-912-xx) (Bonding Agent & Mechanical Expansion Anchors)

- D12A Asphalt Applied

For retrofit only

D19 Dry Bonded (720-919-xx) (Bonding Agent & Mechanical Expansion Anchors)

- D19A Dry Bonded

Colors Available: _____

Standard Sizes: _____

Tools required for field cutting: _____

Please send correspondence to:

Design Standards Office/ 955 Park Street, Room 409/ Columbia, SC 29201/ Fax (803) 737-0608