QPL 9: ELASTOMERIC BRIDGE JOINTS AND BRIDGE JOINT SYSTEMS

SECTION A: ELASTOMERIC BRIDGE JOINTS

GENERAL

This evaluation procedure outlines the Department's approval process for elastomeric bridge joints.

SPECIFICATIONS

- None

PROCEDURE

A completed Product Evaluation Form, Safety Data Sheet (if applicable), product data information, and a sample of the product being tested must be submitted to the Division of Materials and Tests.

The manufacturer shall install their product on a test deck provided by the Department. The joint shall remain flexible and neither crack, become tacky, debond nor deteriorate over the normal range of temperatures and weather conditions or when exposed to gasoline, hydraulic brake fluid, motor oil, calcium chloride or deicing chemicals.

After one year, a visual inspection shall be made to ensure that there is no visible evidence of deterioration in regards to the above-mentioned properties. In addition, the Department also reviews, in the lab, the product's ability to bond to hardened concrete and flexibility in below freezing temperatures.

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SECTION B: EXPANSION JOINT SYSTEMS FOR REINFORCED CONCRETE PAVEMENT AT BRIDGE ENDS

GENERAL

This evaluation procedure outlines the Department's approval process for expansion joint systems for reinforced concrete pavement at bridge ends.

SPECIFICATIONS

- TDOT Standard Drawing STD-1-5 – Reinforced Concrete Pavement at Bridge Ends

PROCEDURE

A completed Product Evaluation Form, MSDS sheets (if applicable), product data information, and a sample of the product being tested must be submitted to the Division of Materials and Tests.

The manufacturer shall install their product on a test deck provided by the Department. The joint shall remain flexible and neither crack, become tacky, debond nor deteriorate over the normal range of temperatures and weather conditions or when exposed to gasoline, hydraulic brake fluid, motor oil, calcium chloride or deicing chemicals.

After one year, a visual inspection shall be made to ensure that there is no visible evidence of deterioration in regards to the above mentioned properties. In addition, the Department also reviews, in the lab, the products' ability to bond to hardened concrete and flexibility in below freezing temperatures.