Section 8 – Bridge Joint Seals

Strip Joint Seal Assembly

XS Sheet Numbers
XS8-010

Description of Component
The strip joint seal assembly can accommodate longitudinal movements and some limited movements in the transverse direction.

Standard Drawing Features
The strip joint assembly consists of two edge beams with anchor studs and the elastomer gland (one joint cell). The assembly is placed in recesses over joint openings.

Design/General Notes
- The joint opening at installation \( W \) is given by the formula:

\[
W (\text{inches}) = 1.5 + [\max \text{str.temp}(\text{F}) - (\text{actual.str.temp}(\text{F}))](\text{coef})(12)(\text{contributory.length( feet)}),
\]

where \( \text{coef} \) is the thermal coefficient and is equal to 0.0000060 for concrete and 0.0000065 for steel.
- The minimum joint opening is equal to 1.5 inches.

Contract Specifications
Current Standard Specifications are available from the Division of Engineering Services (51-2 Joints).

Restrictions on Use of Standard Drawings
The Strip Joint Seal Assembly may be used for Movement Range (MR) up to 4 inches regardless the skew at joint location.