

**719 - EXPANSION JOINTS (STRIP SEAL ASSEMBLY,
PREFORMED ELASTOMERIC (NEOPRENE AND COMPRESSION) AND OTHER)**

SECTION 719

**EXPANSION JOINTS (STRIP SEAL ASSEMBLY,
PREFORMED ELASTOMERIC (NEOPRENE AND COMPRESSION) AND OTHER)**

719.1 DESCRIPTION

Install expansion joints as designated in the Contract Documents.

BID ITEM

Expansion Joint (*)

*Strip Seal Assembly, Preformed Elastomeric Neoprene, Preformed Elastomeric Compression or other

UNITS

Linear Foot

719.2 MATERIALS

Provide strip seal assemblies and preformed elastomeric neoprene and compression joint seals that comply with **DIVISION 1500**.

Fabricate the strip seal assembly and preformed elastomeric compression seal according to **DIVISION 700**.

Fabricate the preformed elastomeric compression joint seals to extend across the roadway in 1 piece. The material may be trimmed at the ends.

Provide the type of expansion joint system designated in the Contract Documents that complies with **DIVISION 1500**.

719.3 CONSTRUCTION REQUIREMENTS

a. Strip Seal Assembly. Submit shop drawings (see **subsection 105.10**) for each location, type and model of strip seal assembly used, according to **DIVISION 700**. The Contractor is responsible for preparing shop drawings and coordinating the fabrication of the strip seal assemblies that require structural steel protection angles with the fabricator of the structural steel angles.

Install the strip seal assemblies according to the Contract Documents and the manufacturer's recommendations.

Place either a butt joint at each break in the pavement cross slope, or bend a unit of the device to comply closely to the break in cross slope. Do not field cut the device without approval of the Engineer.

If the assembly is installed in sections, show the sequence of unit installation on the shop drawings. Install the first unit and adjust it so that the anchor bolts shall center in the mounting slots. Install washers and tighten bolts to the torque recommended by the manufacturer. Wire brush both ends of the successive units, and butt them tightly against installed units. Do not apply the sealant until the unit is ready to be bolted down. Cut the corner at the face of curb, and grind to match normal curb dimensions. Tighten all bolts and scrape excess sealant off the surface.

If the assembly is installed in one continuous length with no field splices, proceed with the installation in a uniform manner to maintain continuity of the seal.

Complete final sealing of the finished expansion joint as soon as possible after installation. Fill all bolts, exposed ends, joints between units and other areas of possible leakage with sealant. Scrape excess sealant away before it has set.

b. Preformed Elastomeric Neoprene and Compression Joint Seals. When constructing the concrete forms for the ends of the bridge deck and adjacent abutment backwalls, form block-outs for the preformed elastomeric compression joint seals, according to the Contract Documents. The block-outs in the poured concrete must be uniform in depth and width, and free of irregularities.

Before installing the elastomeric joint seals, thoroughly clean the surfaces of the indentation formed for the elastomeric joint material, and swab it with a uniform coating of the lubricant-adhesive as recommended by the manufacturer.

Install the elastomeric joint material according to the manufacturer's recommendations. Use equipment capable of placing the strips at the specified depth without increasing or decreasing the length as taken from the roll or box by more than 5%.

**719 - EXPANSION JOINTS (STRIP SEAL ASSEMBLY,
PREFORMED ELASTOMERIC (NEOPRENE AND COMPRESSION) AND OTHER)**

Recess the top of the installed joint material a minimum of $\frac{1}{8}$ inch, and a maximum of $\frac{3}{8}$ inch below the top of the roadway deck adjacent to the joint material.

c. Other Expansion Joints. Provide a qualified representative of the expansion joint system manufacturer to instruct the Contractor and KDOT personnel in the correct installation procedures for the expansion joint system used.

Prepare the expansion gap area and install the expansion joint system according to the manufacturer's recommendations. Allow the expansion joint system to cure as recommended by the manufacturer before permitting traffic on the joint.

The Engineer will inspect the expansion gap area for the proper depth, width and alignment, as shown in the Contract Documents.

719.4 MEASUREMENT AND PAYMENT

The Engineer will measure expansion joints by the linear foot, measured along the centerline of the expansion joint.

Payment for "Expansion Joint (*)" at the contract unit price is full compensation for the specified work.