

**ITEM 567.5101--03 - SAWING OR FORMING AND SEALING JOINTS**  
**BETWEEN BRIDGE DECKS AND APPROACH SLABS**

**DESCRIPTION**

The work shall consist of sawing or forming and sealing each “full depth formed joint” as shown in the plans and at each location shown in the plans. The work shall include furnishing all labor and equipment necessary to prepare the recess in accordance with this specification and to furnish and install the backer rod and silicone sealant in strict accordance with the manufacturer’s instructions

**MATERIALS**

Structural silicone sealant and backer rod shall be supplied by the same company. This sealant and company must be listed on the NYSDOT Approved List of Materials and Equipment under “Joint Materials, Structural” and then “Sealants, Silicone (Item 16567.51)”.

Two copies of the manufacturer’s materials details, material safety data sheets and directions for use of the sealant shall be supplied to the Engineer at least 10 days prior to the intended use of this product.

**CONSTRUCTION DETAILS**

General: The joint recess shall be built to conform to the details shown on the plans and these specifications. The top corners of the recess shall be radius or chamfered either by grinding or forming. The top corners radius may also be formed by cutting with a tool while the concrete is plastic.

- 1a. Surface Preparation-Saw Cutting Option: The contractor shall use a walk-behind road saw, meeting the requirements of Standard Specification section 502-2.04 E., guided by a straight edge to saw the recess at the correct location. The contractor will use a string line and make necessary adjustments to straighten the bulkhead for the deck pour so that a straight line can be sawed that will fall on the formed joint. The saw will be equipped with a blade capable of making the plan dimensioned recess in a single pass with vertical sides and a flat bottom. The recess shall be water blasted and blown clean with oil free compressed air immediately following the saw cut operation. The recess shall be abrasive blast cleaned, blown clean and then primed in accordance with instructions.
- 1b. Surface Preparation-Forming Option: With the approval of the Engineer, the contractor may elect to use a plastic form strip attached to the deck pour bulkhead that will form the recess to an acceptable depth and width. The contractor will be responsible for ensuring that the recess is not damaged during stripping. If the plastic form strip is damaged, it must be replaced prior to the second concrete placement. The final dimensions of the recess must conform to plan requirements.
2. A full round backer rod section, supplied by the sealant company and of the size called for in the contract plans, will be installed prior to placement of the silicone sealant.
3. The contractor shall strictly adhere to the silicone sealant manufacturer’s recommended practices.

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4. If the sealed joint will terminate at a curb or permanent concrete barrier the contractor will discuss with the Engineer how to best make this transition weather tight and keep the silicone sealant recessed.

**METHOD OF MEASUREMENT**

Payment will be made as the number of meters of joint sawed or formed and sealed, measured horizontally along the centerline of the joint between the outer limits indicated on the plans. If no limits are shown on the plans then the pay limits will be from approach slab edge to approach slab edge.

**BASIS OF PAYMENT**

The unit bid price shall include all labor, materials and equipment necessary to complete the work.