

## SECTION 730 -- STRIP SEALS

### 730.01 -- Description

1. The item, "Strip Seals", shall consist of furnishing and installing prefabricated steel extrusions supporting neoprene seal inserts, including integral curb units where specified, at the locations and limits shown in the plans. The seals shall be standard prefabricated products corresponding to the types and sizes shown in the plans.
2. Manufacturers producing such items are shown in the plans.

### 730.02 -- Material Requirements

1. Expansion and contraction movements shall be entirely taken by the neoprene.
2. Strip seals shall be complete with curb units, where specified in the plans, and shall be integral with the deck units or otherwise so designed and installed to thoroughly seal the joint against leakage.
3.
  - a. Structural steel for extrusions shall conform to the minimum requirements of ASTM A 709/A 709M, Grade 36, Grade 50, or Grade 50W steel.
  - b. All exposed surfaces of the extrusions (except weathering grade steel surfaces) shall be painted with a primer in accordance with Section 709. The finish coat is not required.
  - c. As an alternate, steel extrusions may be galvanized in accordance with ASTM A 123.
4.
  - a. The steel extrusions may be made of one continuous piece.
  - b. If made of more than one piece, they shall be welded at the joints or otherwise adequately bonded together so as to obtain a tight seal.
  - c. The neoprene seal shall be made of one continuous length, and no splicing shall be allowed except where specifically called for in the plans.
5. The neoprene seal shall be manufactured from polychloroprene, meeting the physical property requirements in Table 730.01.

### 730.03 -- Construction Methods

1. The Contractor shall provide setting or installation plans for the Engineer's approval. The Contractor shall install the strip seals in accordance with the manufacturer's instructions and recommendations.
2. The Contractor shall install strip seals on a properly prepared surface.

3. The Contractor shall protect the installed seals against damage from equipment by placing wood planks along the seals or by other suitable methods.

**730.04 -- Method of Measurement**

Strip seals shall be measured for payment by the linear foot of seal properly installed and accepted by the Engineer. Strip seal length shall be measured along the seal's centerline from end to end or between curb faces, with no allowance for skewed ends or for curb units.

**Table 730.01**

<b>Polychoroprene Requirements</b>		
<u>Property</u>	<u>ASTM Test</u>	<u>Requirements</u>
Tensile Strength	D 412	2,030 psi, min.
Elongation at Break	D 412	250% min.
Hardness	D 2240 (modified)	60±5 points Durometer A 20% max.
Compression Set 70 hours at 212°F	D 395 Method B (modified)	
Ozone Resistance Exposed to 300 pphm ozone for 70 hours at 104°F. Sample under 20% strain.	D 1149	No Cracks
Oil Deterioration Weight increase after immersion in ASTM oil #3 for 70 hours at 212°F	D 471	45% Max.

**730.05 -- Basis of Payment**

- |    |   |                  |
|----|---|------------------|
| 1. | <u>Pay Item</u>   | <u>Pay Unit</u>  |
|    | Strip Seals   | Linear Foot (LF) |
| 2. | Payment is full compensation for all work prescribed in this Section. |                  |