

SECTION 5.21
ELASTOMERIC BEARING PADS

5.21.01--Description: Work under this item shall consist of furnishing and installing elastomeric bearing pads and all other necessary materials and equipment to complete the work as shown on the plans.

5.21.02--Materials: Elastomeric bearing pads and adhesive for bonding the pads to steel shall conform to the requirements of Article M.17.01.

5.21.03--Construction Method:

1--Shop Drawings: Before fabricating any materials, the Contractor shall submit drawings to the Engineer for approval in accordance with Subarticle 1.05.02-3. These drawings shall include but not be limited to the following information: The name of the manufacturer, complete details of the pads and pertinent material designations.

2--Setting the bearing pads: The Contractor shall set the elastomeric bearing pads in accordance with the following requirements:

(a) Concrete bearing areas: The bearing areas of the masonry upon which the elastomeric bearing pads are to rest shall be carefully finished, by grinding if necessary, to a smooth, even level surface of the required elevation, and shall show no variations from a true plane greater than 1.5 mm over the entire area upon which the elastomeric bearing pads are to rest.

(b) Metal bearing areas: The elastomeric bearing pads shall be bonded to steel masonry plates or to steel sole plates or girders where indicated on plans or when directed by the Engineer.

3--There shall be uniform bearing between the bottom of the beam or steel sole plate and the elastomeric bearing pad and between the elastomeric bearing pad and the concrete seat or steel base plate, after application of full dead load. Also after application of full dead load, there shall be uniform deflection of the elastomeric bearing pad.

4--The elastomeric bearing pads shall be bonded to the steel plates or beams as shown on contract plans or where directed. All contact surfaces to which the adhesive is to be applied shall be free of oil, paint, lacquer, galvanizing, mill scale, and rust. Primer, if required, and adhesive shall be applied in strict accordance with the manufacturer's printed instructions. The prefabricated pads shall be pressed to the steel plate under sufficient pressure to provide full intimate contact until the adhesive has set.

5--The adhesive shall be mixed in strict accordance with the manufacturer's printed directions.

5.21.04--Method of Measurement: This work will be measured for payment by the number of cubic millimeters of elastomeric bearing pads, installed and accepted.

5.21.05--Basis of Payment: This work will be paid for at the contract unit price per cubic millimeter of "Elastomeric Bearing pads", complete in place, which price shall include all materials, equipment, tools and labor incidental thereto, including all the cost of furnishing test pads.

Pay Item
Elastomeric Bearing Pads

Pay Unit
mm³