

726-B-044 BEARING ASSEMBLIES

(Revised 09-01-05)

The Standard Specifications are revised as follows:

SECTION 726, BEGIN LINE 1, INSERT AS FOLLOWS:

**SECTION 726 – BEARING ASSEMBLIES**

**726.01 Description**

*This work shall consist of furnishing and installing bearing assemblies in accordance with the applicable requirements of 915.04, the details shown on the plans, the manufacturer’s recommendations, or as directed.*

**726.02 Materials**

*Materials shall be in accordance with 915.04.*

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**726.03 Construction Requirements**

*Masonry plates for polytetrafluoroethylene bearings shall be perfectly level. The tolerance between the top face of the masonry plate and the bottom face of the top plate shall be a maximum of 1/16 in. (1.6 m), measured at the ends of a diameter of the bottom plate of the bearing assembly. Other dimensional tolerances shall be as shown on the plans or in accordance with 915.04(d).*

**726.04 Method of Measurement**

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*This work will be measured by the number of bearing assemblies complete in place.*

**726.05 Basis of Payment**

*This work will be paid for at the contract unit price per each for bearing assemblies of the type shown on the Schedule of Pay Items.*

*Payment will be made under:*

**Pay Item**

**Pay Unit Symbol**

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*Bearing Assembly, \_\_\_\_\_ EACH  
type*

*The cost of having a manufacturer’s representative at the job site during installation, and all necessary incidentals shall be included in the cost of this work.*

SECTION 915, AFTER LINE 289, INSERT AS FOLLOWS:

**915.05 Polytetrafluoroethylene Bearing Assemblies**

*A copy of the manufacturer’s design manual shall be submitted for approval when directed.*

*All steel components shall be in accordance with ASTM A 709 Grade 36 (ASTM A 709M Grade 250) unless otherwise shown on the plans. Where these assemblies are to be used in conjunction with self-weathering steel bridges, the steel components shall be*

*in accordance with ASTM A 709 Grade 50W (ASTM A 709M Grade 345W). Stainless steel mating surfaces shall be 14 gage minimum ASTM A 240 type 304 sheets with a maximum surface roughness of 20 Rms.*

*The polytetrafluoroethylene shall be 100% virgin unfilled polymer or 15% glass filled and etched on the bonding side. The properties of the polytetrafluoroethylene shall be in accordance with the following:*

<i>REQUIREMENT</i>	<i>TEST METHOD</i>	<i>VALUE</i>
<i>Hardness at 78°F (25°C)</i>	<i>ASTM D 5212</i>	<i>50-65 Durometer</i>
<i>Tensile Strength, minimum</i>	<i>ASTM D 638</i>	<i>2,500 psi (17.24 MPa)</i>
<i>Elongation, min. percent</i>	<i>ASTM D 638</i>	<i>200</i>
<i>Specific Gravity</i>	<i>ASTM D 792</i>	<i>2.1 to 2.3</i>

*Polytetrafluoroethylene, where required, shall be bonded to grit blasted steel. The polytetrafluoroethylene guides shall be bonded and mechanically fixed into place. The bonding compound used to bond polytetrafluoroethylene or elastomeric pads to steel plates shall be in accordance with ASTM D 429, Method B.*

*All steel surfaces exposed to the environment shall be zinc metallized and shall be 7 mils (175 µm) thick in accordance with CSA G-189, or painted with structural primer in accordance with 909.02(a). The finish coat for painted steel shall be in accordance with 909.02(d). The color shall be in accordance with Federal Color Standard 595a, color No. 30045.*

*All required materials shall be covered by a type B certification in accordance with 916.*