

9320103 NONMETALLIC ACCESSORY MATERIALS FOR CONCRETE PAVEMENT AND
CONCRETE STRUCTURES
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

Rudy Powell

Comments: (11-16-11)

What happens if bearings are shown in the plans that don't meet this criteria? I don't think this belongs in the spec, maybe SDG or PPM.

932-2.1 Ancillary Structures – Plain or Fiber Reinforced Bearing Pads:

~~932-2.1.1 General:~~ Furnish either plain or fiber reinforced (resilient) elastomeric structure bearing pads as shown in the Contract Documents. ~~The elastomer shall be either natural rubber or polychloroprene (neoprene) and meet the material requirements of AASHTO M 251, Appendix X1. Finished pads shall meet the fabrication and tolerance requirements of AASHTO M 251. Elastomeric bearings furnished under this specification shall adequately provide for the thermal expansion and contraction, rotation, camber changes, creep, and shrinkage of structural members. Elastomeric bearings as defined herein shall include plain pads (elastomer only) and laminated bearings with steel or fabric laminates. Bearings manufactured and tested under this specification shall have a plan area less than 1000-in² square inches and be less than 8-inches in height. Flash tolerance, finish and appearance of bearings shall meet the requirements of the latest edition of the Rubber Handbook as published by the Rubber Manufacturer's Association, Inc. RMA-F3-T.063 for molded bearings, and RMA-F2 for extruded bearings.~~

Response:

Cheryl Hudson
414-5332

Comments: (11-18-11)

Generally I really like and appreciate the changes to this section; however, there are two sentences in the first paragraph of section 932.2.6 Bridge Structures that may need some tweaking:

The mold shall have a standard **shop** practice **shop** finish. Perhaps they meant a standard practice shop finish?

The internal steel laminates shall be blast **cleaned to a cleanliness** and conform... Perhaps they meant blast cleaned to conform, or blast cleaned and conform, or blast cleaned until the cleanliness conforms?

932-2.2-6 Bridge Structures - Elastomeric Bearing Pads:

~~932-2.2.1 General:~~ Furnish elastomeric bearing pads in accordance with the requirements of the "AASHTO LRFD Bridge Construction Specifications" Section 18.2, Elastomeric Bearings. Section 18.2 of the above mentioned specification establishes the requirements for plain, fabric reinforced and steel laminated elastomeric bearing pads for bridge structures. ~~When steel reinforced bearings are specified, all~~ *Bearings with steel laminates shall be cast as a unit in a mold and bonded and vulcanized under heat and pressure. Bearings with steel laminates which are designed to act as a single unit with a given shape factor must be manufactured as a single unit. The mold shall have a standard **shop** practice **shop** finish. The internal steel laminates shall be blast **cleaned to a cleanliness** and conform to SSPC-SP6 at the*

time of bonding. Plates shall be free of sharp edges and burrs and shall have a minimum edge cover of 0.25 inches. External load plates (sole plates) shall be hot bonded to the bearing during vulcanization.

Response:

D4 Construction

Comments: (12-15-11)

932-2.3 Sampling: ~~For the purpose of this section, a~~ A sampling LOT shall consist of a maximum of 100 bearing pads of a single type of bearing, of the same design, materials, and thickness, delivered to the project site.

932-2.3.1 Ancillary Structure Pads: Sampling is not required and acceptance is by certification.

932-2.3.2 Bridge Structure Pads: A minimum of two bridge bearing pads will be selected by the Engineer at the project site- ~~One pad will be for testing and the other retained~~ one for confirmation in the event of a failing test result. Samples shall consist of.....

Shouldn't we be sampling two pads per lot per project? We define a lot by pad thickness. You could have more than one pad thickness called out.

Response:
