

4580202 BRIDGE DECK JOINTS
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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Comment: (10-21-13)

Under section 932, the FLDOT specification for Movement Capability calls out the ASTM C719 test method. However, the FLDOT specification calls out a 2 inch wide joint. I think this dimension is in error unless a special test machine is used. It should be a 2 inch long joint (by ½ inch wide) as described in ASTM C719.

Response: It appears to me that the movement capability requirement for Type D materials in 932-1.3.2 should be revised to delete "(joints 2" wide)". This particular language may be a holdover from the time when we limited the use of Type D materials to bridge deck joints that were no wider than 2" and somehow this limitation made it into Section 932 when it should never have been there:

No changes made.

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Comment: (11-7-13)

1. If Subarticle 458-2.2 is being deleted, which included Backer Rod and is substituted with Subarticle 2.1 which does not mention the use of backer rod, are we doing away with the application of backer rod?

Response: 458-2.2 is not being deleted, only the allowance for the use of Type A, B or C silicone materials is being deleted for use with poured joints.

No changes made.

2. Moreover the QPL reference section 932 **requires** that the Type D be use according to Design Standard Index 21110 which still indicate the application of backer rod.

Response: Type D will be the only material used for bridge joints, be they with or without backer rods. To tie this all up, 932-1.3.1, last paragraph should be revised as follows:

Type D - An ultra-low modulus, self-leveling
~~silicone~~ formulation, cold-applied, rapid-cure, used to seal expansion joints that experience both thermal and/or vertical movements. The material must cure by chemical reaction and not by evaporation of solvent or fluxing of harder particles. Tooling shall not be required. Use according to Design Standards, Index No. 21110 *for bridge deck expansion joints with backer rods or as shown in the Plans for other joints, with or without backer rods.*

No changes made to Section 458.

3. Are we going exclusive with Type D Silicone Sealant.?

Response: See response to previous comment.
