

4580206 BRIDGE DECK JOINTS  
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

---

Andy Harper  
414-4776  
clifton.harper@dot.state.fl.us

Comments: (3-2-17, Internal)

In 458-2.4 we already say that strip seals must meet ASTM D5973, if we're going to list in table, should be remove from 458-2.4.

→ **458-2.6 Modular Joint:** Furnish modular joints meeting the requirements of this Section. Submit manufacturer certification that modular joint components meet the following material requirements. ¶

Table 2-6.1 Component Material Requirements	
Solid Separation Beams, Steel Extrusions, Support Bars, <u>Plate</u> and Milled Steel Shapes	ASTM A588 or ASTM A572, <u>Grade 50</u>
Box Seals	ASTM D2628*3542
Strip Seals	ASTM D5973
Seal Adhesive	ASTM D4070
Stud Shear Connectors and Threaded Studs	ASTM A108
Connection Plates - 3/8 inch minimum thickness	ASTM A588 or ASTM A572
Stainless Steel Sliding Plates - 3/8 inch minimum thickness	ASTM A240, Type 316
PTFE Sliding Plates Surface - 3/8 inch minimum thickness	ASTM D4895-10
Railing and Sidewalk Cover Plates - 1/2 inch minimum thickness	ASTM A36**

\*Provide seals with hardness Type A durometer equal to 55 (plus or minus 5) by ASTM D2240. ¶  
\*\*Hot dip galvanize railing and sidewalk cover plates in accordance with Section 962. ¶

Response: The applications corresponding to each callout are different and so it is appropriate to list ASTM D5973 for typical strip seal applications and again for modular joint applications. No change made.

\*\*\*\*\*  
Mark Francis  
D.S. Brown Co.  
678-366-3350

Comments: (3-7-17, Internal)

Here is the response from our VP of Engineering regarding the modular joint spec:

I have reviewed this document myself and had others in the department also do the same. In general we agree with the changes but notice that they call out Box Seal as ASTM3542 which is a compression seal specification which is not applicable to this shape. However, since box seals are not typically used on Florida modular joints this may not be an issue.

Response: The reference to ASTM 3542 is in agreement with AASHTO LRFD Construction Specifications, Section 19.3.2.

No change made.

\*\*\*\*\*