

1.1.20.2 Deck Expansion Joint Seals - (continued)

For the compression seals shown on Drawing BR140 S_{min} and S_{max} are the width of the seal under a compressive force of 50 and 10 lbs. per inch, respectively. In skewed joints, S_{min} and S_{max} may be limited by the allowable shear deformation of the seal. For the seals shown on BR140, shear deformation of the seal should never exceed 10^0 .

(4) Joint Setting at Mean Temperature

In most cases, the range of serviceable seal width provided by a standard joint seal (RP) will be somewhat larger than the range required by design (R). This excess $[E = RP - R]$ shall be equally distributed for expansion and contraction.

The following schematics show joint settings for the two design cases above:

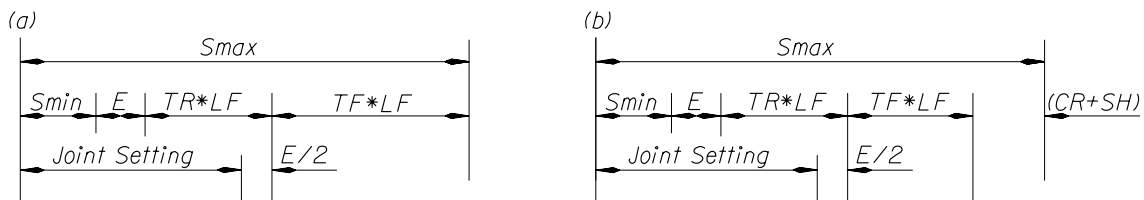


Figure 1.1.20.2D

Use the following form to call out joint settings on the plans:

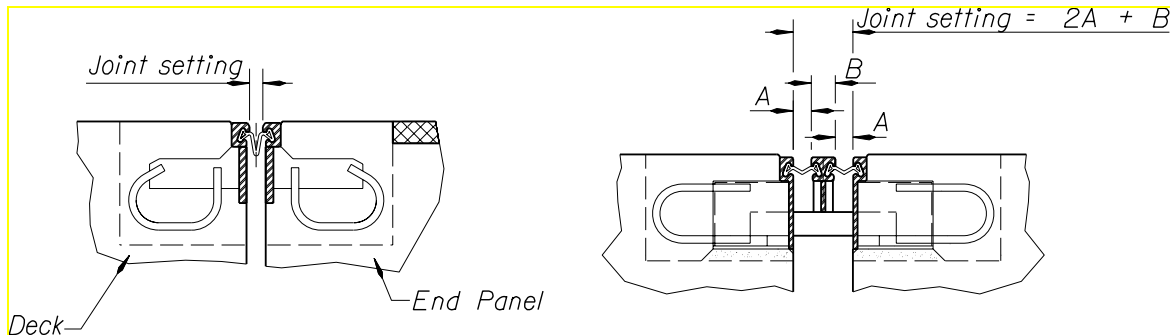


Figure 1.1.20.2E

Decrease Joint setting ___ inches for every 10^0 F of structure temperature above ___ 0 F.

Increase joint setting ___ inches for every 10^0 F of structure temperature below ___ 0 F.

Expansion joints are normally set after tensioning is complete, so elastic shortening is not included in the joint setting width.