

EXPANSION DEVICE, HINGED SLIDING PLATE ASSEMBLY

**\*\*From Brookfield BRF FLBR(2)**

XX. DESCRIPTION. This work shall consist of detailing, fabricating, furnishing, and installing steel hinged sliding plate assembly expansion devices at the locations indicated in the Plans and as directed by the Engineer.

The work under this Section shall be performed in accordance with these provisions, the Plans, and Section 516 of the Standard Specifications.

xx. MATERIALS.

(a) Steel Components. Steel plates, pipes, and rods used for fabrication shall be stainless steel conforming to ASTM A 240/A 240M or ASTM A 312, as applicable, and shall be hot-finished with a minimum yield strength of 30 ksi and minimum tensile strength of 70 ksi.

(b) Hardware. Hardware shall be stainless steel conforming to ASTM F 593, Alloy Group 1, 2, or 3, Condition CW, with a minimum yield strength of 43 ksi and minimum tensile strength of 75 ksi.

xx. GENERAL REQUIREMENTS.

(a) Fabrication. Steel plates used in the construction of the hinged sliding plate assemblies shall be accurately cut to the true shape and alignment detailed in the Plans. All edges and corners shall be ground free of burrs.

(b) Welding. All weld design details, quality of work, procedures, and inspection of welding shall conform to the requirements of AWS D1.6 Structural Welding Code - Stainless Steel and Subsection 506.10. The top surface of the plate-to-pipe weld shall be ground flush. Field welding will not be allowed.

(c) Construction. Expansion devices shall be constructed to the configuration shown in the Plans.

xx. METHOD OF MEASUREMENT. The quantity of Special Provision (Expansion Device, Hinged Sliding Plate Assembly) to be measured for payment will be the number of meters (linear feet) used in the complete and accepted work, measured along its centerline.

xx. BASIS OF PAYMENT. The accepted quantity of Special Provision (Expansion Device, Hinged Sliding Plate Assembly) will be paid for at the Contract unit price per meter (linear foot). Payment will be full compensation for detailing, furnishing, handling, transporting, welding, and placing the materials specified, including surface preparation and bolts, and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

Payment will be made under:

Pay Item

Pay Unit

900.640 Special Provision (Expansion Device,  
Hinged Sliding Plate Assembly)

Meter  
(Linear Foot)