

ITEM 567.41XX--25 - REPLACING COMPRESSION SEAL FOR EXISTING BRIDGE JOINTS, (TYPES A1 THRU A7)

1. DESCRIPTION:

- 1.01 The work shall consist of furnishing and installing compression seals of the size and at the locations indicated on the plans or as directed by the Engineer. The work shall also include removal of the existing joint seal.

2. MATERIALS:

- 2.01 Compression Seal – The seal shall meet the provisions of subsection 567-2.02 Compression Seal.
- 2.02 Adhesive – The adhesive shall meet the provisions of Subsection 567.2.02 Adhesive.
- 2.03 Basis of Acceptance – The compression seal will be accepted at the work site upon certification to the Engineer by the Contractor that the materials used are in accordance with this Specification.
- 2.04 Shop Drawings – Shop drawings will not be required unless otherwise noted in the plans or proposal.

3. CONSTRUCTION DETAILS:

- 3.01 Cleaning – The Contractor shall remove the existing compression seal in its entirety. The recess to receive the joint shall be cleaned in accordance with Steel Structures Painting Council; Surface Preparation No. 6 Commercial Blast Cleaning (SSPC-SP6) and the cleaned surfaces will be defined by SSPC-Vis1 pictorial references ASP-6, BSP6, CSP-6 or DSP-6. The cleaned surfaces shall have adhesive applied before detrimental rusting occurs.
- 3.02 Preparation – Two copies of the seal manufacturer's specifications and installation procedures shall be delivered to the Engineer at least two weeks prior to the start of work. Just prior to the application of adhesive, all surfaces to receive adhesive shall be air blown or vacuum cleaned and dried in order to remove all loose or foreign matter. Apply adhesive to the vertical steel surfaces receiving the compression seal as per manufacturer's recommendations
- 3.03 Installation - Install the compression seal as per manufacturer's recommendations and installation procedures. Splices shall be avoided if possible. If necessary, all splices shall be located as per plan or as directed by the Engineer. All splices shall be completed with care as per manufacturer's recommendations.
- 3.04 Watertight Integrity Test – After compression seal installation is complete, a watertight integrity test shall be performed by the Contractor in accordance with the requirements of subsection 567-3.01H. All action necessary to successfully complete the test shall be completed by the Contractor as described.

4. METHOD OF MEASUREMENT:

- 4.01 Measurement will be made as the number of linear feet of compression seal completely and satisfactorily installed, measured horizontally and vertically along the centerline of joint system, as indicated on the contract plans.

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5. BASIS OF PAYMENT:

- 5.01 The unit price bid per linear foot shall include all labor, materials and equipment necessary to satisfactorily complete the work.

Payment will be made under:

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>PAY UNIT</u>
567.4101--25	COMPRESSION SEAL – TYPE A1	LF
567.4102--25	COMPRESSION SEAL – TYPE A2	LF
567.4103--25	COMPRESSION SEAL – TYPE A3	LF
567.4104--25	COMPRESSION SEAL – TYPE A4	LF
567.4105--25	COMPRESSION SEAL – TYPE A5	LF
567.4106--25	COMPRESSION SEAL – TYPE A6	LF
567.4107--25	COMPRESSION SEAL – TYPE A7	LF

TYPE	NOMINAL SEAL WIDTH	DIMENSION “J” @ 68°F	BRG. TYPE	DISTANCE TO FIXED BEARING	
				STEEL SUPERSTRUCTURE	CONCRETE SUPERSTRUCTURE
A1	1 ¾”	1”	FIX.	-0-	-0-
A2	2”	1 ¼”	EXP.	< 59 ft.	< 98 ft.
A3	2 ½”	1 ½”	EXP.	< 75 ft.	< 121 ft.
A4	3”	1 ¾”	EXP.	< 98 ft.	< 157 ft.
A5	3 ½”	2”	EXP.	< 124 ft.	< 196 ft.
A6	4”	2 ¾”	EXP.	< 147 ft.	< 236 ft.
A7	5”	2 ⅞”	EXP.	< 196 ft.	< 315 ft.

MAXIMUM SKEW LIMITS: FIXED END - NO LIMIT.

EXPANSION END – 45° FOR A2 THRU A6, 30° FOR A7.