
Special Specification 7259

Repair Modular Bridge Expansion Joint System



1. DESCRIPTION

Design, fabricate, test, ship modular bridge expansion joint repair components in accordance with this Specification and as shown the plans. Remove and install repair components in accordance with this Specification and as shown on the plans.

2. GENERAL

Provide the repair components per plan for the installed modular bridge expansion joint system supplied by the D.S. Brown Company, 300 East Cherry Street, North Baltimore, Ohio 45872, phone 419-257-3561, fax 419-257-2200, attention Mr. Mark Francis. Repair components not supplied by the OEM or approved by the OEM will not be considered.

Deliver components to the jobsite. Damage to the joint components during shipping will be cause for rejection.

Provide material that conform to the requirements shown on the plans.

Remove and reinstall neoprene bearings and neoprene springs as shown on the plans.

Replace control springs and pins as shown on the plans.

Resurface, repair, and replace missing stainless bearing surfaces on support beams as shown on the plans.

Replace joint glands as shown on the plans.

3. SUBMITTALS

Submit repair drawings and procedures sufficient in detail to enable repair of the modular joints without reference to the plan sheets. The shop plans must be developed in accordance with the joint manufacturer's recommendations. The submittal must include but is not limited to:

- procedure to remove and replace pre-compressed neoprene springs and neoprene slide bearings,
- jacking plans,
- neoprene springs and neoprene slide bearing shop details.
- control spring and pin shop details,
- stainless steel sliding bearing plate resurfacing procedure,
- stainless steel sliding bearing plate replacement procedure and shop details,
- joint seal or gland shop details,
- certification that welding inspection personnel are qualified and certified as welding inspectors under AWS QC1 Standard for Qualification and Certification of Welding Inspectors.

4. CONSTRUCTION

To aid in the proper repair of each expansion joint, a qualified modular bridge expansion joint installation technician who is fully trained and employed full time by the manufacturer must be available on site for up to 30 days at a maximum of three intervals. Contractor must adhere to recommendations made by the installation technician and approved by the Engineer. The installation technician must advise the Contractor

and the Engineer, and certify that proper installation procedures have been followed. A written, signed, and dated certification must be supplied to the Engineer.

5. MEASUREMENT

This Item will be measured by each modular bridge expansion joint system to be repaired.

6. PAYMENT

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid by each "Repair Modular Bridge Expansion Joint System" This price is full compensation for designing, inspecting, manufacturing, shipping, assisting with on-site installation, furnishing hardware required for installation; and materials, services, labor, tools, equipment, and incidentals.