

Homer M. Hadley Memorial Floating Bridge (1-90)

Location

Seattle, Washington

Project Description

Installation of four DS-1200 B Maurer™ Swivel Expansion Joint Assemblies by the D.S. Brown Company. Two of the expansion joints were 42' long, 12' wide, and weighed 91,000 lbs. The other two joints were 66' long, 12' wide, and weighed 135,000 lbs apiece. All of the expansion joints were fabricated at D.S. Brown's North Baltimore, Ohio facility. The joint assemblies can accommodate up to 40" of movement and were shipped out as complete units, ready for placement into the bridge deck blockouts.

Installation Date

May and July, 2009

Bridge Owner

WSDOT

Contractor

General Construction Co.

Design

WSOT

Notable Features of Project

Expansion joints were shipped and installed in a compressed configuration before expanding them prior to concrete placement.



Homer M. Hadley and Lacey V. Murrow Memorial Floating Bridges



Expansion Joint being loaded onto truck.

Homer Hadley Memorial Floating Bridge Case Study

Swivel Expansion Joint Assemblies

1. Expansion Joint Leaving the D.S. Brown Facility
2. WSDOT project engineers and bridge inspectors inspecting an expansion joint upon arrival in Seattle.
3. General Construction Co. crews lower the new expansion joint into the 1-90 express lanes.
4. New expansion joint installed in the westbound mainline lane.

