

# SR 520 Floating Bridge (USA)



## Project description

The Governor Albert D. Rosellini Bridge Evergreen Point (commonly called the SR 520 Floating Bridge) carries State Route 520 across Lake Washington from Seattle to Medina. The SR 520 Bridge Replacement development reached its final construction phase with the West Approach Bridge South Project in 2023.

The new structures feature a floating pontoon bridge across the lake, and two prestressed girder bridges on the western approach. These bridges include wider lanes and shoulders, and accommodate a 14-foot-wide bicycle/pedestrian shared path.

## mageba scope

mageba supplied a total of 22 TENSA®-MODULAR (type LR and LR-LS) expansion joints for the new bridges, as well as TENSA®GRIP (type RS-B5) strip seal joints. The joints range from 2 to 16 gaps that allow up to 48.4 in (1,230 mm) longitudinal service movement, or 70.4 in (1,790 mm) of extreme limit state movement.

The joints on the approach bridges are equipped with noise-reducing “sinus plates”, which provide a smooth driving surface for vehicles, minimizing vibration and noise by up to 80 %. Another feature is the ROBO®MUTE blanket panels, a system of mat layered membrane that reduces noise transmitted from beneath the joint.

## Highlights & Facts

### mageba products:

Type: TENSA®MODULAR LR joints (LR2, LR6, LR7, LR8, LR16)  
TENSA®MODULAR LR-LS joints (LR-LS6, LR-LS7, LR-LS8)  
TENSA®GRIP RS-B5 strip seal joints

Features: Noise-reducing “sinus plates” on surface, ROBO®MUTE noise protection mats

Installation: 2015–2016, 2017, 2022–2023

### Structure:

City: Seattle, WA  
Country: USA  
Type: Prestressed girder bridges and floating pontoon bridge  
Built: 2015–2023

The bridge connects Seattle to Medina crossing Lake Washington



Installation of a 16-gap TENSA®MODULAR LR joint



TENSA®MODULAR LR8-LS expansion joint equipped with noise reducing sinus plates

