

SR 520 Floating Bridge, Washington (USA)



Project description

The Governor Albert D. Rosellini Bridge-Evergreen Point, commonly called the SR 520 Bridge, is the longest floating bridge on the planet. At 7,580 ft. (2,310 m), it carries State Route 520 across Lake Washington from Seattle to Medina.

The four lane toll bridge was opened in 1963 after four years of construction.

Due to its age and deteriorated condition as well as increased traffic, the Evergreen Point Floating Bridge was replaced by a new floating bridge at the same site. The new bridge was opened in April 2016 and carries six lanes as well as a multi-use path for bicyclists and pedestrians. With its length of 7,708.49 feet (2,349.55 m) it is officially certified for the Guinness World Records.

mageba scope

mageba supplied nine TENSA®MODULAR expansion joints for the new bridge. The largest of these expansion joints has 16 gaps and allows 48.4 in (1,230 mm) of longitudinal movement, or 70.4 in (1,790 mm) of extreme limit state movement.

Smaller modular joints, with 2 and 6 gaps, and single gap joints, were also supplied by mageba.

These TENSA®MODULAR expansion joints will accommodate the significant transverse movements as well as the rotations about all axes that can be expected in a floating bridge.

Highlights & Facts

mageba products:

Type: TENSA®MODULAR joints, Types LR16, LR6, LR2; TENSA®GRIP, Type RS-B5

Features: Large rotations

Installed: 2015–2016

Structure:

City: Seattle, WA

Country: USA

Construction: Floating pontoon bridge

Type: Highway bridge

Built: 2013–2015

Length: 7,710 ft (floating)

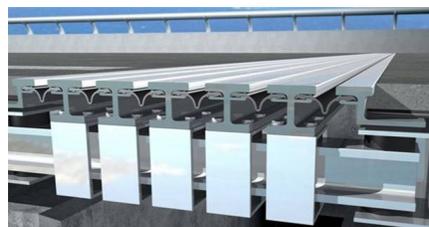
Contractor: Kiewit/General/Manson

Owner: WSDOT

The bridge crosses Lake Washington between the cities of Seattle and Medina



TENSA®MODULAR expansion joint of types LR6 and LR2 are ready for transportation.



Installation of a 16-gap TENSA®MODULAR joint (Type LR16) on the Lillebaelt Bridge in 2003

