

I-90 Track Bridges (USA)



Project description

The East Link Extension is a 14.5-mile Light Rail Transit (LRT) line that will provide east-west connections from the Eastside's largest population and employment centers to downtown Seattle, doubling the capacity of the I-90 Floating Bridge.

As part of the East Link light rail extension, Sound Transit is doing something that's never been done before, placing light rail on a floating bridge. To safely transition light rail vehicles from the I-90 land bridge to the floating bridge, engineers and designers had to consider a number of factors including six different ranges of motion from Lake Washington: up and down, back and forth and side to side.

mageba scope

The light rail track bridges span over the expansion joints of the main floating bridge and are connected to the top of the deck through LASTO®BLOCK bearings provided by mageba.

Each track bridge is connected to fixed, free and guided elastomeric bearings allowing the track bridges to expand and contract in the longitudinal direction and lock transverse movements.

A total number of 48 bearings were supplied for 8 track bridges and installed along the floating bridge.

Highlights & Facts

mageba Products:

Type: LASTO®BLOCK elastomeric bearings
Installation: 2019

Structure:

City: Seattle, WA
Country: United States
Completion: 2023
Type: Light railway bridge
Owner: Sound Transit
Contractor: Kiewit Hoffman
Engineering: Parsons Brinckerhoff

The East Link Extension serves the Eastside Region of the Seattle metropolitan area



LASTO®BLOCK bearings in production



Bearings before shipping to the site

