

# Kosciuszko Bridge (USA)



## Project description

The Kosciuszko Bridge (also known as the K Bridge) is a pair of newly constructed cable stayed bridges connecting the boroughs of Queens and Brooklyn in New York City.

In 2014, the city awarded a contract to Skanska-Kiewit-Ecco III joint venture to replace the old truss bridge, experiencing traffic of over 200,000 commuters each day.

The first cable stayed bridge was opened to traffic in 2017, while the second bridge opened in 2019.

The new bridges also have a dedicated lane for pedestrians and bicyclists.

## mageba scope

For this project mageba designed and supplied 4 longitudinal and 2 lateral restrainer elastomeric bearings to support the relative movements and rotations between the cable stay pylons and the deck.

The bearings included rubber blocks to accommodate rotations, and steel restrainers around the rubber block to restrict excessive compression and deflection.

Transverse bearings were also provided with a PTFE sliding interface to allow deck movements.

To keep the size of the bearings to minimum, AASHTO cotton duck pad (CDP) material was used due to its higher allowable pressure limit, instead of the standard elastomeric material.

## Highlights & Facts

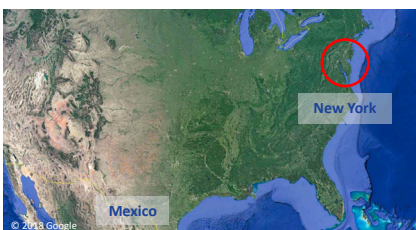
### mageba Products:

Type: LASTO®BLOCK  
elastomeric bearings  
Installation: 2018

### Structure:

City: New York City  
Country: United States  
Type: Cable stayed bridge  
Completion: 2018  
Owner: New York State DOT  
Contractor: Granite Construction

Kosciuszko Bridge spans over Newton Creek in New York City



Render of a longitudinal restrainer bearing



Completed & hot dip galvanized steel restrainer assemblies ready for shipping

