

Tappan Zee Bridge (USA)



Project description

The New Tappan Zee Bridge, also known as the New NY Bridge and officially named the Governor Mario M. Cuomo Bridge after the late former governor Mario Cuomo, is a twin cable-stayed bridge built to replace the original Tappan Zee Bridge over New York's Hudson River. The \$4.0 billion bridge structure, completed in June 2018, contains a total of eight lanes for vehicular traffic as well as a shared-use bicycle and pedestrian path.

Additionally, an allowance has been made for the future construction, between the two structures, of a rail line to assist with trans-Hudson public transportation.

The Tappan Zee Bridge is a critically important transportation link in the New York Metropolitan Area, with over 138,000 vehicles crossing it each day.

mageba scope

mageba North America Corp. supplied all 23 of the TENSA®MODULAR (type LR) expansion joints required for the new Tappan Zee Bridge, in fully continuous lengths, the longest of which is 105 feet (32 meters). The largest joints are type LR18, each with 18 individual movement gaps which accommodate total longitudinal movements of up to 54 inches (1.4 meters).

mageba also supplied 16 RESTON®STU shock transmission units (STU, also known as lock-up devices), with lock-up capacities of 800 kips (3,550 kN) and pressure release valves rated for 1,600 kips (7,100 kN). Each STU weighs 13,500 lbs (6,150 kg), and have been individually tested to ensure that the performance meets the required design criteria.

Highlights & Facts

mageba products:

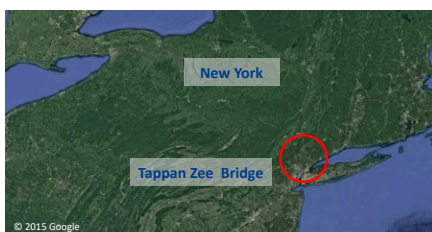
Type: 23 TENSA®MODULAR LR expansion joints
16 RESTON®STU shock transmission units

Installation: 2015–2018

Structure:

City: New York
Country: USA
Type: Cable stay Bridge
Completed: 2018
Length: 3.0 miles (4,800 m)
Builder: Fluor Corporation, American Bridge Copany, Granite Construction Northeast & Traylor Bros

The Tappan Zee Bridge is located close to New York City



Installation of a TENSA®MODULAR expansion joint type LR8



Installed shock transmission unit

