

Halfway River Bridge (British Columbia)



Project description

Halfway River Bridge is one of the multiple projects that have been created by the Site C Hydro Dam project in Northern British Columbia.

Due to the construction of the dam, the Highway 29 at Fort St. John requires a realignment of its 66 miles (90 km) stretch.

The whole project includes the construction of a 12,139 ft. (3.7 km) long new two-lane highway, and that of a 3,280 ft. (1,042 m) long bridge.

mageba scope

The bridge deck is expected to experience movements of up to 1,135 mm at each end and in order to accommodate the large movements TENSA®FINGER GF sliding finger joints were selected and delivered.

The supplied joints, each measuring 36 ft. (11 m) in length, can accommodate movements of 1,150 mm and feature a drainage trough at a 10 % slope.

During the design phase of the joints the harsh weather conditions including frequent heavy snowfalls had to be also taken into account.

Additionally, there were numerous other project-specific requirements and different national design and fabrication standards that had to be considered.

Highlights & Facts

mageba Products:

Type: TENSA®FINGER GF sliding finger joints

Installation: August 2021

Structure:

City: Fort St. John, British Columbia

Country: Canada

Length: 3,280 ft. (1,042 m)

Completion: September 2021 (estimated date)

Owner: BC MoTI

Contractor: Eiffage Infrastructure Canada

Engineer: WSP

The bridge is situated in Northern British Columbia



Finger joint prepared for lifting and installation into the block out at the abutment



Finger joint is lowered into the bridge deck block out

