St. Patrick's Footbridge (Canada)

Project description

The old St. Patrick's Bridge has connected Calgary's East Village to the west end of St. Patrick's Island in the Bow River since 1965, but did not continue across the river to the other side. To rectify this shortcoming, the bridge has been replaced with a new St. Patrick's Bridge, constructed between 2012 and 2014. The design of the bridge, reminiscent of the trajectory of a stone skipping across the river, and its elegant inclined arches, make it a most attractive structure.

Delivered products

The new structure is supported by mageba linear rocker bearings and elastomeric bearings with movement restraints. The rocker bearings are designed to resist longitudinal and transverse loads and to facilitate significant rotations about every axis, and are made of 100 % stainless steel to ensure maximum durability and resistance to corrosion. The elastomeric bearings are designed to allow movements in all directions (free deforming) at some locations, and to allow only longitudinal movements (guided deforming) at others.

Highlights & Facts

mageba products:

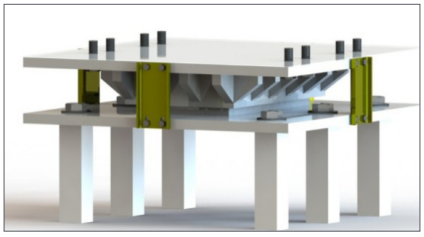
Type:	Rocker bearings
Features:	100 % stainless steel
Installation:	2013

Bridge:

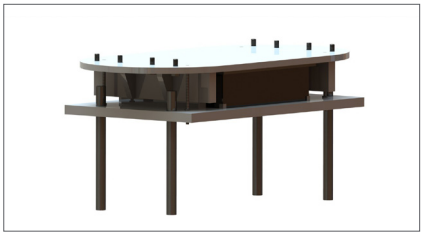
City:	Calgary
Country:	Canada
Construction:	Footbridge
Type:	Arch bridge
Built:	2012–2014
Builder:	Graham Construction and Engineering JV

The bridge crosses the Bow River in Calgary city center, providing access to St. Patrick's Island

Stainless steel linear rocker bearings permit significant rotations but prevent movements



Elastomeric bearings allow rotations and horizontal movements



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