

Bascule Pedestrian Bridge, Lyon, France

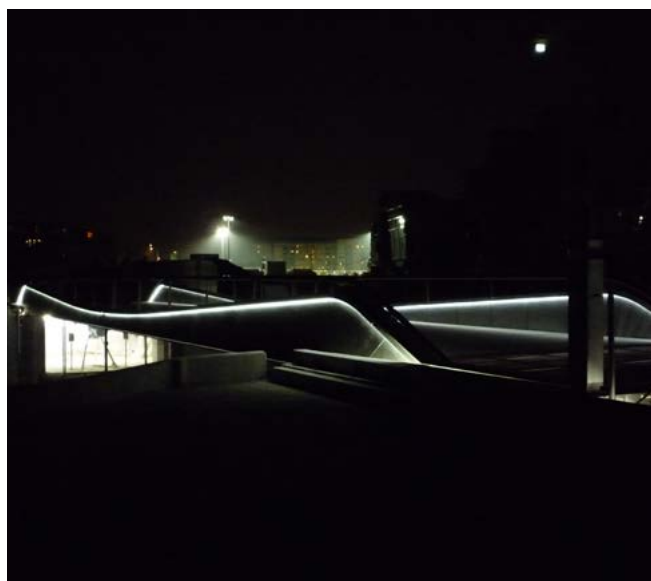
Architects: Patricia Colinet, PCCP, Paris

Structural Engineering: Groupe Alto, Gentilly (France)

At the confluence of the rivers Rhône and Saône in Lyon, a new quarter has grown around a new iconic museum. As part of the upgraded environment, a pedestrian bridge leads over a former dock which is now devoted to leisure activities. The structure was designed as a bascule bridge to allow also larger ships to enter the dock. The architects suggested a filigree shape, which should be outlined during the night by LED lighting. The aesthetic ambitions made weight saving essential and led to the selection of duplex stainless steel. Its high mechanical strength made it possible to reduce wall thickness by about 30% compared with carbon steel. The material ensures a long and virtually maintenance free service life. Making applied corrosion protection redundant, duplex stainless steel also contributes to the high sustainability profile of the bridge.

Details

Environment:	Urban
Fabrication process:	Welding
Grade and finish:	2205 / EN 1.4462 (Uranus 45)
Material thickness:	2 - 30 mm
Weight:	28 t
Date of completion:	2009
Manufacturing company:	Viry, Remiremont (France)
Material supplier:	Industeel



Photos by Marc Malinowsky