## Bridge Sculpture "Slinky springs to fame"

schlaich bergermann und partner

Location Type of structure Owner Completed Scope of our work

Contractors Cooperation Oberhausen, Germany multispan stress ribbon bridge Emschergenossenschaft 2011 conceptual design, construction design, lighting design ARGE Stahlbau Raulf; IHT Bochum Bauplan GmbH Wagner + Partner, Gelsenkirchen; Madako, Oberhausen

## Technical data

Total length Span Lengths of the ramps Bridge width Deck surface Superstructure height Awards 406 m 20 - 66 - 20 m (stress ribbon), 10 m (ramps) 130 resp. 170 m 2.67 m 1,085 m<sup>2</sup> 12 cm (stress ribbon), 25 cm (ramps) Stahl-Innovationspreis 2012; Footbridge Awards 2014 medium span and Lighting Award (highly commended)

The elegant pedestrian bridge across the Rhine-Herne canal is a part of the project "EMSCHERKUNST 2010". Following the design of the artist Tobias Rehberger, a colorful ribbon wrapped in a light, swinging spiral connects the two existing parks. The lightness of this design is due to the minimalist structural design of the stress ribbon bridge. Two steel ribbons made of high strength steel connect to the inclined supports across the canal. The resulting tension force is transferred into strong abutments through the outer vertical tension rods. The walkway consists of pre-cast concrete plates, bolted to the stress ribbon, to which the railing and spiral are attached. The springy synthetic pavement of the walkway as well as the colorful rhythmization of the concrete and coating amplifies the dynamic experience of the bridge. Railings made of steel and cable nets effectively add to the dampening of this animated bridge.

Photos: Roman Mensing / artdoc.de (right, left bottom)

