

**Project:** Temporary bridges across the Elbe to Lübeck canal – Lauenburg, Germany

**Product:** Retro Heavy Bridge with Retro Footbridge alongside

**Loading:** DIN-FB 101/103

Retro Bridge GmbH has successfully supplied and installed two temporary bridges across the Elbe – Lübeck canal adjacent to the existing Horsterdamm crossing at Lauenburg in Germany for client Wayss & Freytag. The temporary bridges will be removed once a new crossing has been built at the site.

A Retro Heavy Bridge (RHB) has been erected with a total length of 75 metres and a roadway width of 7.5 metres. The temporary road bridge has three spans of 21 metres, 40.5 metres and 13.5 metres and was supplied complete with associated bearings and span junction equipment. The structure was supplied with our standard heavy BN4 type parapet system and factory applied anti-skid surfacing to the deck surface. The contractor built the associated abutments and intermediate supports. All bridge bearings were supplied and installed by Retro Bridge at standard locations beneath the bridge before being fixed in place. These slide on PTFE / stainless steel plates welded to the bridge's support beams and use steel angle longitudinal guides.



The RHB units were erected using an 800 tonne telescopic crane positioned on each bank of the canal. The 61 tonne 40.5 meter units were tandem lifted into position. Following installation of the bridge units, bolting up of the longitudinal connections between bridge elements proceeded quickly and smoothly.



A temporary Retro Footbridge was also successfully constructed alongside the Retro Heavy Bridge to provide a crossing for pedestrians and cyclists. Its spans mirror those of the temporary road bridge. The structures share the same intermediate supports. The temporary footbridge structure has one simply supported span and 2 continuous spans and, as with many other Retro Footbridges, was supplied complete with mesh panels and factory applied anti-skid surfacing to ensure the safety of its users.



# Project Overview

