
UHPC BRIDGE in LEIDEN, NETHERLANDS

Precast Concrete Application: AALBORG WHITE CEM I 52,5 SR5



PROJECT DESCRIPTION

The Catherina Bridge in Leiden, Netherlands, is officially the longest bridge in ultra-high performance concrete in the Netherlands. The bridge is 36-meter-long and has a maximum cross section thickness of 275 mm.

The bridge was completed in 2016, by contractor Pieters Bouwtechniek and architect DP6, Leiden. The bridge elements were designed and manufactured by Hi-Con Nederland B.V.

CRC i3[®], a third generation of the original CRC[®] (Compact Reinforced Concrete) from 1986, based on AALBORG WHITE[®], was used for the bridge sections. This version includes larger aggregates and exhibits even lower shrinkage and enhanced stiffness. CRC JointCast[®] with AALBORG WHITE[®] was used for jointing the bridge sections.

PROJECT PARTICIPANTS

CRC Producers: HICON

Architects: Hicon

White Cement Producer: Aalborg Portland A/S