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NEW SUSPENSION FOOTBRIDGES

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Recently we have designed three suspension pedestrian bridges. The first one with the main span of 187 m that have deck assembled of precast concrete segments was completed this year in Umea, Sweden. The A shaped pylons are assembled of precast-match cast segments – see Fig. 1.

The second bridge of three spans of lengths of 15.75 + 105.00 + 15.75 m, which crosses the Becva River, Czech Republic, is under construction. The deck is assembled of precast concrete segments, the concrete pylons have shape of the letter V – see Fig. 2.

The third bridge of two spans of lengths of 100.175 + 19.10 m has steel-concrete composite deck formed by spine steel box with concrete overhangs supported by steel ribs. The deck is suspended in the bridge axis on an inclined A shaped steel pylon – see Fig. 3.

The paper will describe the structural arrangement, static and dynamic analyses and the technology of their construction.

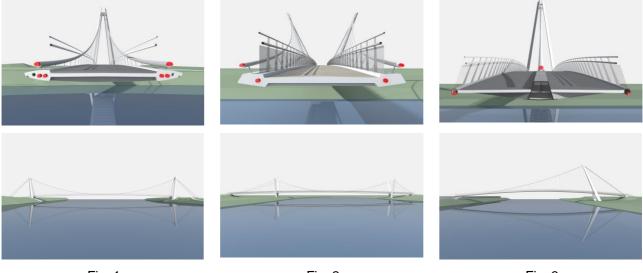


Fig. 1

