Station square/city square Raunheim

Textile four point sails

For the redesign of the station forecourt in Raunheim (Pict. 1), five new textile sail constructions in the grouping 2-2-1 were designed by the open space planning office viaverde as waiting room canopies for public transport passengers. The sail surfaces made of coated glass fibre fabric were attached to steel supports clamped in quiver foundations, as was the case at the city square. The tensionable membrane corner detail already developed for the Town Square by AR Engineers was supplemented with a controlled roof drainage system that passes directly through the steel support into the sewer system,

For the design of the town square (2017, Pict. 2), four textile sail constructions were designed by the open space planning office viaverde. The sail surfaces made of coated fiberglass fabric were attached to steel supports clamped in quiver foundations. This made it possible to dispense with guy ropes, which would have been perceived as disturbing in the area of the square. For this purpose, AR-Ingenieure developed a tensionable membrane corner detail which allows the sails to be retensioned at a later date. The overall concept convinced the city and was also used in the redesign of the public space in the area of the station.

Project details:

Year: 2021 / 2017

Location: Raunheim, Germany

Building owner:
Eigenbetrieb Stadtentwicklung Stadt Raunheim

Client: Planex Technik in Textil GmbH

Services: Detailed development, workshop planning steel and membrane, cuttings

Other parties involved: Freiraumplanung viaverde

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