

Velodrome "Andreasried" in Erfurt

The Andreasried velodrome, officially opened in 1885, is the oldest velodrome in the world. Looking back on a history steeped in tradition of high-calibre cycling, Andreasried has established itself clearly as a location and is a firm fixture one would not want to do without.

Full redevelopment started in summer 2006 which advanced the velodrome to what now is - one of the most modern of its kind. In addition to comprehensive renovation work on various functional buildings, membrane roofing ordered from the textile construction specialist, CENO TEC, was completed initially. Thus the textile roof could already provide important weather protection for the three-dimensional reinforced steel track during the highly complex concrete work.



The roofing itself uses a translucent membrane construction consisting of high-strength plastic coated polyester material. The basic supporting framework consists predominantly of circular steel tubes. The ground-plan of the structure is oval in shape and extends over a length of 124 metres and a width of 89 metres. The interior is not roofed. An oval-shaped opening with a length of 80 metres and a width of 27 metres remains. The roof surface consists of a total of 20 segments, shaped as membrane arc surfaces. Per segment, 5 steel tube rings with spans between 9.20 metres and 15.90 metres were installed to transfer them to the biaxially pre-tensioned status.

Project data

principal	Erfurter Sportbetrieb
architect	Bauconcept Planungsgesellschaft mbH, Lichtenstein
steel planning	Zeman & Co. Gesellschaft mbH, Wien
membrane planning	Ing.-Büro Teschner GmbH, Föising
covered area	6.680 qm
year of construction	2006-2007

