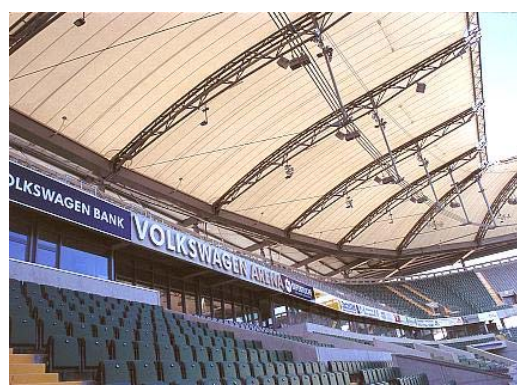


## "Volkswagen Arena", Wolfsburg

30,000 fans of the German Bundesliga club VfL Wolfsburg can experience sports events unspoilt by bad weather. While textile roofing manufactured by CENO TEC already protected the grandstands in the old VfL stadium, all grandstands in the new Volkswagen Arena are roofed with a translucent membrane structure made of highly tensile Type III (tensile strength warp/weft- 560/560 daN/5 cm) polyester fabric. To ensure that this architectural construction will keep its aesthetic attractiveness for many years, the top side of the coated material has been given a final PVDF coating with a self-cleaning effect. 32 radial trusses arranged at intervals of up to 14 metres with an individual length of up to 40 metres form the supporting system mounted at a height of 33 metres. The individual membrane fields with dimensions of up to 14 x 36 metres are mounted between these radial trusses and stabilised against snow and wind. 20,000 m<sup>2</sup> of membrane material were required to roof the surface of just under 15,000 m<sup>2</sup>.



An extremely high-tensile material with a strength of approx. 112 thousand Newtons per metre was used. Due its own low weight of just 1 kg/square metre - with a thickness of just 0.8 mm - surfaces of several thousand m2 can be roofed effortlessly without supports on the basis of its high-tensile strength. Hence, also the view to the field in the new Volkswagen Arena is not disturbed by a single pillar.

|                      |  |
|----------------------|--|
| Building owner       | Wolfsburg AG   |
| General underwriter  | Volkswagen Immobilien Service GmbH                           |
| General contractor   | Köster AG & Co., Melle                                       |
| Membrane design      | CENO TEC GmbH, Greven  |
| Architect            | Büro Hpp   |
| Execution planning   | Schlaich, Bergemann & Partner, Stuttgart                     |
| Steel works planning | dbn - Planungsgruppe Dröge-Baade-Nagaraj, Salzgitter         |
| Membrane planning    | Ing.-Büro Teschner, Kosel                                    |
| Completion           | Dezember 2002  |
| Roofed surface       | 15,000 sq.m membrane roofing for the grandstands             |
| Membrane type        | plastic-coated polyester fabric Type III with surface finish |

