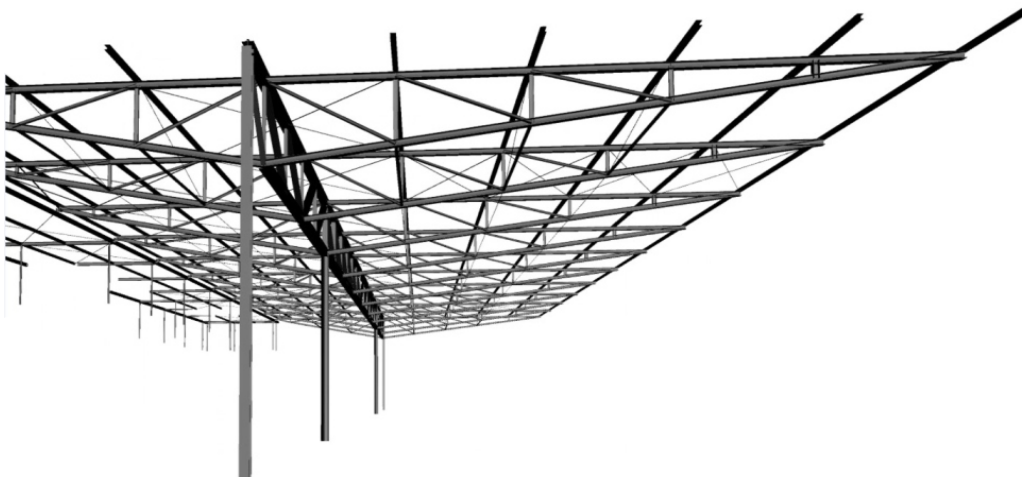


ROOF CONSTRUCTION SOUTHERN GRANDSTAND FOOTBALL STADIUM MILLERNTOR Hamburg (Germany)

NEW BUILDING

- Client:** Football-Club FC St. Pauli, Hamburg
- Architects:** AGN Architects - Engineers - general planners
Walter Hellmich GmbH, Dinslaken
Freyler Industriebau GmbH, Kenzingen
- Our services:** For the roof construction of the southern grandstand:
Full structural design
Vibration analysis
Optimising calculations
The construction was based on a ready planned and approved tender planning optimized and relieved by 35% steel.
- Brief description:** Construction of a new roof for the southern grandstand with standing area and seats for 5,600 spectators
- roof covering an area of approx. 80 x 30.5 m
- main trusses 80m in length braced by two outer supports and two inner supports
- side structure made from steel trussed girders spanning 12.5 m und a cantilever of 18 m
- the whole construction in very filigree i-beam sections and round pipe
- taking advantage of plastic load reserves
- assembly on site possible by joining prefabricated, welded subsystems and bolting with high-tensile screws
Basis for this type of optimised construction, where we were able to save 35% of the originally calculated steel requirement, were the available and already planned and approved tender documents.
- Completion:** 2008



Pictures / Illustrations: ProfessorPfeiferundPartner PartGmbH, Peters Stahlbau GmbH