

## The new roof structure for the Camp Nou Stadium

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### Abstract

Camp Nou in Barcelona, the biggest soccer stadium in Europe and number 4 worldwide is going to be renovated from 2020 to 2023. The Japanese architects from Nikken Sekkei won the design competition in 2015. schlaich bergemann partner is one of the General Planers team members and responsible for the roof design. The project is currently at the beginning of the Proyecto Ejecutivo phase.

In addition to extending the grandstands to 105,000 seats and upgrading the business areas, the renovation includes a complete roofing of the stadium which sums up to 50.000m<sup>2</sup>. schlaich bergemann partner designed a special kind of cable net structure, considering various demands such as

- limitations coming from the historical building
- time constrains
- functional constraints (the entire stadium has to be renovated under full operation, providing min. 80.000 seats during the whole construction phase)
- limited access
- and various others

The presentation will explain the roof structure itself but also give an overview about how the various challenges are handled and certain boundary conditions are taken into account.

