

- BUILDINGS AND SPECIAL STRUCTURES

Stadiums

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Specialist in the **design**, manufacturing and installation of steel structures

About Maeg

Maeg is an international player in the construction sector. With more than 40 years of experience, Maeg's expertise can adapt to each project characteristics to devise tailor-made and innovative engineering solutions, concretely transforming design into substance.



ISO 3834

ISO 9001:2015

ISO 1090-1/2

EURO SOA











RFI - SQ008 TMF-001

AFER

RVS-15.05.11



List of projects

Stadiums/Sport complexes Gewiss Stadium, Bergamo - Italy Paul Biya Stadium, Yaoundè - Cameroon Al Janoub Stadium, Al Wakrah - Qatar

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07-08|09-10 11-12|13-14 15-16|17-18

GEWISS STADIUM

Location

Bergamo, Italy

Client Stadio Atalanta S.r.l.

Scope of work

Design, fabrication and installation of steel structures

Period of execution

2019

Weight 1.050 tons

Construction of the North Stand of the Atalanta Stadium, as part of the reconstruction project of the existing Stands, which will be demolished and rebuilt with a steel roof, wrapping the entire façade.

The modernization of the "Atleti Azzurri d'Italia" Stadium in Bergamo arises from the need to make the structure compliant with UEFA standards, so as to be able to play European competitions and International matches, also providing a covered and comfortable facility for the fans. The construction of the roof of the North Stand, made by reticular beams with of tubular profiles, represents the first step towards the completion of the stadium that, at the end of the works, will have a rectangular layout and a capacity of 24,000 seats – 18,000 of them located in the two new lateral stands. The decision to renovate the existing stadium in the city, compared to a new option outside











PAUL BIYA STADIUM

Location

Yaoundé, Cameroon

Client Fédération Camerounaise de Football

Contractor

Gruppo Piccini S.p.A.

Scope of work

Design, fabrication and installation of steel structures

Period of execution

2017-2018

Weight 8.000 tons The "Sports Complex d'Olembe", also called COSO, is a stadium designed to host the 2019 Africa Cup of Nations (AFCON). With 60.000 seats, a hotel, a shopping mall, gyms and swimming pools, this complex aims to become a new point of reference for the Cameroonian capital.

The COSO Stadium roofing is a tensile structure, a solution based on pre-tensioned cables composing an external compression ring connected through radial cables to and internal tension ring, supporting a membrane. Firstly, these cables are laid down and pretensioned on the ground, secondly pulled from the external compression by means of jacks reaching their final position. Consequently, the resistance of the structure is obtained by the overall behaviour of the high-resistance cables rather than by the inertia of each single element. This stadium typology permits a light and flexible structure, reducing installation time and crane capacity requirements. The rest of the structure is composed by prefabricated







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concrete and steel elements that, built in the factory with a more controlled environment in respect to an on-site construction, allow for a time and cost reduction.



AL WAKRAH STADIUM

Location

Doha, Qatar

Client Supreme Committee for Delivery & Legacy

Contractor

Midmac - Purr - Six Construct Joint Venture (MPSJV)

Scope of work

Design, fabrication and installation of steel structures

Period of execution

2016-2018

Weight 7.500 tons This 40.000 seats stadium will host the 2022 FIFA World Cup, first time in an Arabic country. The design of the structure has been conceived by the notorious studio Zaha Hadid Architects and it has been inspired by the sails of traditional Dhow boats, used to cut through the Persian Gulf.

The roofing of the Al Wakrah Stadium is shaped like a ring divided in two symmetrical halves composed of three shells composed of reticular trusses. This light and rigid structure are connected by box purlins supporting the weight of the above secondary steel structures and external cladding. At the center of the structures, to ensure a better control on elevated temperatures of the country, there is an opening provided of a retractable roof that wrap itself into a dedicated space











material was preassembled and transported inside the stadium using SPMTs. To avoid interferences with other ongoing activities, all liftings have been performed from the inside, using also temporary towers reaching 60 meters of height.





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