

Stuttgart, August 5, 2016

Rio 2016

The 2016 Summer Olympics are starting today! A spectacular opening ceremony in the Maracanã Stadium is going to welcome athletes and spectators from all over the world and to prepare them for the excitement of the coming weeks.

The Maracanã Stadium in Rio de Janeiro remains unforgotten since Germany's victory in the 2014 World Cup final. As well as hosting the opening and closing ceremony it will once more stage exciting competitions. After the success of the new membrane roof's construction for the World Cup, the engineers of schlaich bergemann partner are back on board. Together with mega-event planners, stage directors, choreographers, and many volunteer performers and helpers, an international team has honed the spectacular show which will turn the Maracanã Stadium for a short time into one of the world's biggest stages.

The Olympic Live Site at the tip of the Olympic Site Barra da Tijuca brings people together. It is a venue for celebrations, and a place where spectators share the thrills from the games. Extremely translucent membrane sails have been arranged into a semicircular form, whilst overlapping each other to fan out into the shape of a lotus blossom. The design comprises thus an elegant and lightweight roof structure of approx. 2,000 m² which provides shade and an appropriate framework for all events.

Furthermore, in collaboration with gmp Architekten, schlaich bergemann partner designed the tennis facilities which have partially been intended for temporary use. Additionally to the permanent arena with 10,000 seats, the facilities encompass an outdoor tennis court and two temporary sporting venues which provide room for altogether 8,000 spectators. Another building for temporary use is the swimming arena with 18,000 seats that was also planned by sbp and gmp. The modular and transportable system allows for fast dismantling after the Olympic and Paralympic Games. Hence, almost all components can be reused.

We look forward to the games and wish all athletes good luck!

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Bild 1: The Live Site as the venue during the Olympic Games 2016 in Rio de Janeiro (© Dhani Borges)



Bild 2: Bird eye view on the Maracanã Stadium (© Marcus Bredt)

Watch our video clip here: <https://vimeo.com/177670039>

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Office profile of schlaich bergemann partner

schlaich bergemann partner are independent consulting engineers.

Since 1980, the year of our foundation, the design and construction of ambitious structures has been the focus of our work. Our projects range from long span lightweight roofs to a diversity of bridges, slender towers, innovative building constructions, and pioneering solar power plants.

We are keen to establish a collaborative partnership with clients, architects and other consultants to create outstanding buildings in a cooperative interaction.

We operate in almost all fields of structural engineering. Our scope of work includes all planning phases ranging from preliminary studies, conceptual design and detailed structural design to the supervision of the construction.

The link to teaching and research via three professorships at universities allows us to include experimental studies (testing of materials and building components, wind tunnel tests) in our projects.

We provide checking engineering and inspection services in both the private and the public sector. Prof. Dr. Ing. sc. techn. M. Schlaich in Berlin and Dr. Ing. J. Gugeler in Stuttgart render these services in their function as accredited checking engineers for stability and structural engineering.

Our solar team is dedicated to develop new technologies for the use of renewable energy and solar radiation. The key technologies within this field of work are the parabolic trough, technology solar power tower systems and Solar Updraft Towers in the field of large-scale solar power plants, and Dish-Stirling systems in the field of decentralized and small-scale power plants, concentrating (CPV) and building integrated photovoltaic systems (BIPV) as well as heliostats in concentrating solar power (CSP) technology.

With our highly qualified team we achieve innovative engineering work beyond our "own" technologies.

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