



High-tech façade for the FIFA World Cup™ 2010

Johannesburg/Maishofen. The Soccer City Stadium in Johannesburg is currently the largest and most spectacular construction site worldwide. For realisation European know-how is demanded. The innovative company Rieder Smart Elements in cooperation with Valenta realises the exceptional façade of the world cup stadium in typical African colours. The major project comprises a volume of ten million Euro. Apart from its technical and aesthetical solution, the façade made of fibreC glassfibre concrete could stand up international competitors due to its ecological advantage. In a period of only twelve months the Austrian companies have to produce and install the new envelope of the stadium. The new icon of the FIFA World Cup 2010 will host both the opening and the final matches.

Two Austrian companies in the final of the World Cup 2010

The Austrian company Rieder complements unique, world-first architecture projects. At the beginning of this year, the concrete envelope of the “Zaragoza Bridge Pavilion” designed by Zaha Hadid for the EXPO 2008 in Spain gave the ambitious company direction to further projects. Now, Rieder is set forge ahead with its rise to fame. In cooperation with the company Valenta Metallbau Rieder is establishing itself in South Africa by winning a spectacular project: The Soccer City in the heart of Johannesburg, the emotional centre of the FIFA World Cup 2010. While the National Soccer Teams have still to qualify, two Austrians are already live in game at the final: Rieder and Valenta are constructing the façade for the upgrading and extension of the stadium for the South African organizers. They make sure a exceptional scenery while billions of TV viewers focus on the southern tip of Africa. After the renovation, Soccer City will be the biggest stadium of total Africa and will provide seating for almost 95.000 spectators.

Austrian Know-how for world’s largest stadium construction site

The Soccer City corresponds to highest technical standards of modern football stadiums. Also the visual appearance of the Soccer City designed by the South African architects of Boogertman Urban Edge & Partner sets a landmark for the FIFA world cup 2010. For the realisation of the unconventional design the architects rely on European know-how. A football stadium like an “African Pot” that shines in typical African colours: The expertise of two Austrian companies



makes this unconventional project possible: Rieder Smart Elements produces 30.000 square meters of fibreC elements forming the façade of the stadium. Valenta Metallbau develops more than 100.000 specially designed steel elements for the sub-construction. The outer skin of the arena spans 43.000 square meters in total. The concrete elements are produced in the Bavarian Kolbermoor in Germany. The new façade will be assembled to the sub-construction on site in South Africa. Therefore Rieder and Valenta are going to erect an own field fabric.

Spectacular envelope for an unique world cup stadium

The impressive outer shell is divided in a roof section consisting of transparent polycarbonate elements and the façade section based on fibreC glass fibre concrete. The format of the fibreC panels is 1,2 x 1,8 m. In total more than 2.100 modules with each 16 fibreC panels will be pre-fabricated in the field factory. The elements with a thickness of only 13 millimetres resist all-weather conditions. Furthermore the fibreC cladding conforms to high demanding levels of fire protection requirements and durability. Apart from its technical and aesthetical solution, the façade made of glass fibre concrete could stand up international competitors due to its ecological advantage. Through its excellent eco-profile, the energy consumption of fibreC is significantly lower compared to alternative façade products: The production of fibreC has 40% less global warming potential than fibre cement panels or aluminium sheets. HPL (high pressure laminates) cladding panels even use five times more energy than fibreC. The realization of the entire building covering will be completed within a 12 month period. The Soccer City project currently employs 3.000 people and is therefore the world's largest stadium construction site. The completion of the overall project is scheduled for January 2009.

African Pot – Naturalness through fibreC glass fibre concrete

From 11th June until 11th July 2010 South Africa will host the FIFA Football World Cup. The first time the world's premier sporting event will be held on African soil. Particularly the opening ceremony and the final match are crowd pullers that will be seen by billions of people all over the world. The FIFA World Cup 2010 is intended to become an "African" World Cup that represents the flair and culture of the continent. Also the Soccer City Stadium, designed by the South African architecture bureau Boogertman Urban Edge & Partner, contains a lot of African elements. The outer skin of the stadium is realised with glass fibre concrete. The shape refers to the calabash, a traditional African drinking vessel. The glass fibre concrete panel's natural colour shades and

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surface texture reflect the colours of the calabash fruit. fibreC is a natural product, which perfectly responds to the concept of the architects due to its authentic colours and living surfaces. The project is named “African Pot” because of its special structure and the African colour tones of the concrete façade. The construction amounting to 205 Million Euro adjacent to the city of Johannesburg symbolises tradition as well as future. The total façade is divided in ten vertical sections. Their theoretical extension leads to the other World Cup arenas. The last section refers to the Olympic Arena in Berlin, where the final of the FIFA World Cup 2006 was hosted. It symbolises the bridge between Europe and the continent Africa.

FACTBOX

Rieder Smart Elements - 50 years of experience in concrete

Rieder Group is 100% family-owned and run by Wolfgang Rieder, a member of the owner family's second generation. The Group was founded in 1958 by Hand Rieder and today employs more than 330 people. The medium sized enterprise has an annual turnover of over 49 million Euros. The Rieder Group is a leading European provider for noise absorption and traffic safety equipment and architectural concrete, mainly owing its practice-oriented research and ongoing innovation for almost 50 years. The latest highlights are the first curved noise absorption walls with SSI (Sound Screen Improver) attachments and •breC for the envelope of the Spanish “Zaragoza Bridge Pavilion” designed by Zaha Hadid.

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Valenta - the art of ingenious metal-forming!

The innovative company Metallbau Otto Valenta located in Fieberbrunn/Tyrol was founded in 1964. Meanwhile Valenta ranks among the first addresses due to its intelligent solutions with focus on

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making metal ingenious in the fields of metal building, sheet metal work and laser technique. Projects for BMW, Metro Station Munich, Hotel Bayerischer Hof and the Airport of Dubai speak for Valenta's expertise. The successful middle-sized company with around 50 employees has a turnover of 6 Million Euros.

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Images

Soccer City 1.jpg Impressions of the Soccer City 2010

Soccer City 2.jpg The outer skin of the Stadium made of fibreC

Rieder_Valenta.jpg Wolfgang Rieder and Josef Valenta together with the South African Architects Bob van Bebbber und Piet Boer in front of the facade elements in Maishofen/Austria.

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