

**THE FIRST GREEN STADIUM**  
**SIGNED BY RUBNER HOLZBAU IN COLLABORATION WITH BEAR STADIUMS**

*Opened August 24 2019 in Langford - British Columbia, Canada, the Westhills Stadium is the first stadium in the world built entirely with engineered glulam*



The Italian company Rubner Holzbau placed in Bressanone in the north of Italy, leader in timber construction, in collaboration with Bear Stadiums advisor in sport facilities and architectural design, in just 5 months have designed and built the first stadium of the future: modular, in glulam, with low environmental impact, comfortable and totally green.

The stadium seats around 5,500 spectators in the Main Stand, with 18 skyboxes, kiosks and services, and the West Stand, while the north side houses an outdoor Beer Garden for fans and families. Further expansion to 2,500 additional seats is planned, with a total capacity of 8,000 seats expected to begin in spring 2020.

"The Westhills Stadium is a concrete demonstration of a new way of building the sports facilities of the future - says Eng. Raffaele Di Domenico, sales director of Rubner Holzbau - Engineered wood is a building material that allows for a safe and lightweight structure. The wood used by Rubner is certified and comes from sustainably managed forests. Glulam enhances the structural capabilities of wood and enables the development of innovative design and highly efficient engineering solutions. It is a product of advanced technology, obtained by face bonding individual lumber laminations using ecological adhesives with high mechanical strength."

**Press office**

DAG Communication Sara Brambilla [sbrambilla@dagcom.com](mailto:sbrambilla@dagcom.com) Tel. +39-02-89054168  
DAG Communication Barbara D'Incecco [bdincecco@dagcom.com](mailto:bdincecco@dagcom.com) Tel. +39-02-89054160

"The attractive design and sustainable characteristics of the Stadium form a natural extension of the beauty of the city of Langford - explains architect Jaime Manca di Villahermosa - the future of the constructions lies in the use of glulam, which allows reducing energy consumption, thus contributing to the reduction of CO2 emissions into the atmosphere and the protection of the environment. The Canadian Premier League has taken this dream into consideration, which has become a reality thanks to the collaborative commitment between all parties and has paved the way for the construction of eco-sustainable stadiums in this geographical area that will host the 2026 Football World Cup".

### **Green Stadiums signed by Rubner Holzbau and Bear Stadiums.**

Rubner Holzbau and Bear Stadiums are also working on a new way to build GREEN stadiums, to offer customers the "turnkey" formula thanks to a partnership agreement with a pool of leading Italian companies in each specific field. Mini wind turbines integrated with photovoltaic panels on the roof with the aim to reduce operating costs, high-efficiency and energy-saving light towers and projectors, ergonomic tip-up seats for all grandstands, super-comfortable seats for the main grandstands, natural resins for the treatment of internal surfaces, draining substrate for the playing field coming from the most advanced research, steps waterproofing with high-tech materials to reduce maintenance costs and make the grandstands totally watertight, high quality – made in Italy - interior furnishings-doors and windows, prefabricated bathrooms with new generation water supply taps, prefabricated modules for fences and turnstiles, couplers and high-tech fixing devices for a fast assembly to saving time on site during erection, recyclable synthetic or hybrid grass made according to the most advanced standards required by FIFA/UEFA/local federations, merchandising and customized design for the external cladding developed by the best Italian designers.

### **Constructions and climate**

Around 30% of global carbon emissions come from the constructions: the potential savings in this area is extremely large. According to the World Green Building Council's report released 31 May 2017, to keep global warming below 2°C, every building on the planet must be "zero net carbon" by 2050. Today, new green technologies allow the design of buildings with very low environmental impact and minimal operating costs and a positive impact on health as well.

Designed to meet the needs of small/medium-sized sports clubs, the project has already aroused the interest of several Italian and foreign football federations intended to implement the sustainability plan announced by FIFA. The Presidents of numerous clubs, from the Caribbean to China, passing through Canada, Qatar, and Mexico, have seen in the project the chance of contributing in a tangible way to the success of the Climate Neutral Now initiative, to which FIFA has been adhering since September 2015. Choosing a construction in Glulam (laminated timber), rather than reinforced concrete or steel, is equivalent to greatly reducing greenhouse gas emissions and energy consumption and allows to minimize the impact on the landscape thanks to the lightness of the structures.

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**RUBNER**  
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### **Rubner Group**

Born in Chienes, in the province of Bolzano, from a water-based sawmill, the Rubner Group, which in 2018 had a turnover of € 314.45 million, employs about 1350 people, has more than 25 companies, has plants in Italy, Austria, Germany and France and 55% of its turnover is generated across national borders. The products range from houses and doors to the design and construction of large structural works made of glulam (multi-storey buildings, schools, warehouses, industrial plants and offices, shopping centers, convention centers and offices, gyms, stadiums, warehouses and warehouses, hotels) which deals with Rubner Holzbau Srl. This company, which designs and produces customized projects only, designing solutions specifically on the needs of customers, is the most dynamic and technologically advanced part of the group.

### **Bear Stadiums**

Bear Stadiums is an advisor and design company born for the creation of low environmental impact sports facilities based in Rome. Managed in the technical part by the architect Jaime Manca di Villahermosa and by the co-founders Lorenzo Manca di Villahermosa, Nicola Pironti and Nicola Giancaspro, in the legal and financial consulting part, the company has developed over the years numerous patents for assembly systems of prefabricated elements in glulam. "The great advantage of our technology for stadiums is to produce prefabricated modular elements of the high level of technology in the factory that allow reducing working hours on-site with great advantages for efficiency and safety," says Nicola Giancaspro, co-founder of Bear Stadiums.

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DAG Communication    Barbara D'Incecco    [bdincecco@dagcom.com](mailto:bdincecco@dagcom.com)    Tel. +39-02-89054160