STADIUM CONSTRUCTION IN THE 21ST CENTURY
TIMBER STADIUM CONSTRUCTION COMPLIANT WITH FIFA- AND UEFA-REGULATIONS
In one of its articles, „Dezeen“ – one of the world’s most influential Architecture Magazine – declares timber to be the miracle construction material of the 21st century. Highly-renowned architects speak of the beginning of a new Timber Era. According to the architects’ opinion, to build with timber means to extremely rapidly obtain precise and stable constructions – added to outstanding aesthetic results while adhering to the most stringent ecological premises. Innovations achieved within Rubner’s timber engineering construction sector enable the architect to design and build increasingly bigger and higher structures.

For Rubner, a family-owned company, the timber era already started more than 90 years ago. From the very beginning, wood and natural habitats have been the focus of attention of the company’s corporate vision. The same applies to its corporate culture, which is based on the values of the Rubner family: honesty, reliability, innovative spirit, sustainability and loyalty. These are the fundamental values, which rule the relationships among our employees, the promises we make to our business partners, and our day-to-day business. This corporate culture also is the driving force of the input that we will provide to this 21st Century Wood Culture, where wood – a renewable construction material – will significantly contribute to overcome the great challenges of the future, such as climate changes and high demand for living spaces.

Moving away – in a sustainable manner – from a throwaway society towards a recycling society can only be achieved by using timber as construction material. Only then will we be able to approach the natural cycle, where every material is being recycled. With wood we can truly reach a waste-free economy. We have prepared the ground for this waste-free economy with our company-owned sawmill, which is located in the Austrian region of Styria. We have created a value chain that is unique within the timber engineering sector and we cover the entire range of services. Our ecological stadiums, which are built by using the most sustainable construction material ever, score high due to their extremely low environmental impact. In addition, these installations contribute to reduce greenhouse emissions and energy consumption and can be installed – thanks to the lightweight timber construction – even in those areas subject to high seismic risks. Many football associations, which have committed themselves to implement the FIFA Sustainability Strategy and to support the Climate Neutral Now Initiative, have already expressed their interest. Recently, a newly built stadium in Canada has been put into operation. By the way, all stadiums built by Rubner Holzbau do, of course, comply with UEFA- and FIFA standards.

Safe and well-tested structural timber solutions, which comply with all norms and standards, have long time ago started to conquer the large-volume multi-storey building sector – and now this conquest is continued in stadium construction. However, the importance and urgency of climate protection has forced us to consequently act in order to preserve and improve our habitat and living environment. To build means to assume responsibility for our future. Wood – the construction material of the 21st century.

Yours truly,

Peter Rubner
President of the Rubner Group

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Picture: Westhills Stadium in the city of Langford, British Columbia, Canada. The first stadium entirely built in laminated timber, engineered, manufactured and assembled by Rubner Holzbau.
TIMBER STADIUM CONSTRUCTION ECONOMIC, MODULAR AND FLEXIBLE CONSTRUCTION. VALUE PRESERVATION FOR FUTURE GENERATIONS.
Timber not only is a natural construction material with outstanding material properties in terms of building physics, but it also creates a relaxing atmosphere, offers excellent climate properties and can be re-introduced into the ecological raw material cycle without leaving any residues. Sound insulation and fire performance values are controllable parameters in constructions of any size. As far as sustainability is concerned, timber clearly is “number one” construction material.

In cooperation with Bear Stadiums, the Italy-based company Rubner Holzbau has designed and elaborated an ecological and at the same time modular stadium concept on the grounds of glued laminated timber elements, and optimized this concept for the requirements of small- and medium-sized sports clubs. These stadiums, based on a laminated timber construction, may be easily and rapidly extended or reduced in size thus immediately adjusting to changing requirements, caused, for example, by significant developments of the sports club or by urban development measures. The flexibility of this basic structure considerably reduces construction periods and thus extension costs compared to conventionally-used construction methods. Moreover, currently executed sports activities in the stadium are hardly affected at all by construction measures, which means that the enlarged stadium can be used almost immediately. Starting with an initial capacity of 1,500 seats at the main stand, which also includes all central and key facilities of the installation, the stadiums may easily be enlarged to accommodate 20,000 seats and, if required, reduced once again as soon as the capacity is no longer needed.

The stadiums built by Rubner Holzbau fully comply with UEFA- and FIFA-standards.
MODULAR AND FLEXIBLE GROWS WITH FUTURE REQUIREMENTS

The modular structure of ecological stadiums allows to easily and rapidly enlarge the capacity of the stadium from 1,500 to 20,000 seats without hardly interrupting the ongoing operation of the stadium. If, for example capacity requirements change over time, the stadiums may be rapidly and ecologically reduced. The stadium dimensions offered by this modular and flexible construction allow to comply with all present and future requirements of football clubs even up to the Premier League.
A façade is more than just a façade – it transforms a structural shell into a building with character and personality. Today’s façades are complex building elements with manifold properties made of the most different materials. Whoever thinks of façades in combination with timber constructions very often ends up with the image of visible and traditionally treated timber surfaces or board claddings giving a natural look to the building. However, this must not necessarily be the case, there are far more design possibilities than the mere selection of the type of wood or the colour of the glaze.

On the one hand, design and construction properties of timber in combination with other materials, such as glass and aluminium, open up a wide range of the most varied architectural options, always considering the most stringent ecological and economic aspects. On the other hand, the most various materials can be used for façade cladding, different types of timber, different types of metals, ceramics or even green elements - just to mention a few of the possibilities available. Intelligent light controlling systems complement the outside shell to become an overall solution for all requirements. The light design covers the entire range starting with very subtle light accents up to sophisticatedly illuminated façades for advertising purposes.

Roof construction has been implemented as lightweight sandwich construction and the top layer is equipped with a metal cladding. Optional photovoltaic elements, mini wind turbines and low-energy floodlight systems jointly ensure reduced operating expenses.
Ecological stadiums built by Rubner Holzbau can be delivered by standard containers to any place in the world and assembled within a period of six to eight months. The modular concept of these structures even allows the entire disassembly of the structure and the reassembly at a different place.

Detailed technical specifications guarantee clearly assigned responsibilities, which in turn enable us to hand over to the client the “tailored” stadium within a period of six to eight months, depending on the size. Rubner Holzbau elaborates a Feasibility Study, which already includes costs and specific project requirements. The stadium is designed, produced, delivered and assembled by Rubner Holzbau. While Rubner Holzbau executes factory prefabrication of the stadium’s modular timber elements, the local construction company, hired by the building owner, carries out all necessary earthworks, lays foundations, connects supply mains and prepares the interior fittings of the installation in coordination with the selected suppliers for installations, floor coverings, sanitary facilities, etc.

With the production, the exploitation, the extension or reduction of an ecological stadium you will always considerably contribute to reduce greenhouse gases and limit climate changes.
ENTIRE EQUIPMENT ACCORDING TO YOUR SPECIFICATIONS
VARIOUS OPTIONS AND COMPLETELY BARRIER-FREE FOR A UNIQUE EXPERIENCE
One of the primary targets of all modern stadiums is to create the perfect environment for best entertainment. In addition, economic considerations require to maximise the time, which is spent in the stadium by spectators and visitors. The stadium’s architecture and equipment are of major importance in this regard. Catering facilities, VIP areas, sales booths and multi-purpose areas are essential components and can secure high capacity utilisation and generate important revenues for the stadium even during free days, i.e. when no sports event is carried out in the stadium.

The 2,200 m² large main stand of the stadiums built by Rubner Holzbau comprises up to three levels and includes the lobby, king-size changing rooms for home and away teams, medical facilities including anti-doping area, infirmary, conference hall, media work areas and interview areas, offices, hospitality areas with lounge bars and restaurants, fully glazed Sky boxes and VIP-boxes as well as sanitary facilities.
All stadiums built by Rubner Holzbau fully comply with UEFA- and FIFA-regulations securing perfect visibility. Comfortable, safe and roofed seats in all areas, painted in the colour and implemented in the quality that is specified by the building owner, offer the best conditions to have the most pleasant stadium experience. Upholstered seats in VIP areas and in Sky boxes guarantee maximum comfort for your very special guests. The pitch lighting system allows HD images and the small distance between the stands and the pitch allows to enjoy the best possible atmosphere and literally provides a very close experience for stadium visitors.

As early as in the stadium design phase, all mandatory and facultative equipment devices, such access systems with gates and turnstiles of the most various designs, security systems with surveillance cameras, speaker components, multi-use advertising panels and many more equipment components are taken into account. Barrier-free use of the stadium is, of course, guaranteed.

Moreover, all stadiums are built in accordance with ecological sustainability standards and comply with the targets set in the UNFCCC-protocol to limit climate change to which FIFA adheres since 2015 with its Carbon Neutral Now Initiative. Different energy supply and air condition systems operated by means of sustainable energy sources, such as sunlight and wind, are available and may be selected as an option thus transforming the stadiums into an even more ecological structure than they already are.
The entire interior design, windows, doors and prefabricated systems for sanitary facilities bear the signature of Italian designers. The stadiums are equipped with recyclable artificial or hybrid turf in accordance with the standards set by the international football association. The exterior façades can be used for advertising purposes.

Rubner Holzbau and Bear Stadiums have pre-selected the best Italian companies as technical partners to be able to offer you as building owner all necessary services for an overall solution. The here listed companies are meant as mere recommendation but you decide with which partner you want to cooperate. Rubner Holzbau will assume in any case design, fabrication, logistics, delivery and assembly services for your stadium.
TIMBER STADIUM CONSTRUCTION
ADJUSTABLE DEPENDING ON YOUR REQUIREMENTS FROM 1,500 TO 20,000 SEATS
STADIUM WITH 1,500 SEATS

<table>
<thead>
<tr>
<th>MAIN STAND GROUND LEVEL (850 m²)</th>
<th>PITCH DIMENSION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lobby</td>
<td>25 m²</td>
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<tr>
<td>Stadium offices</td>
<td>25 m²</td>
</tr>
<tr>
<td>Media work area</td>
<td>50 m²</td>
</tr>
<tr>
<td>Conference hall</td>
<td>80 m²</td>
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<tr>
<td>Antidoping area</td>
<td>50 m²</td>
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<tr>
<td>Infirmary</td>
<td>25 m²</td>
</tr>
<tr>
<td>Office delegate UEFA/FIFA</td>
<td>25 m²</td>
</tr>
<tr>
<td>Away changing room</td>
<td>130 m²</td>
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<tr>
<td>Home changing room</td>
<td>130 m²</td>
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<tr>
<td>Storage/Uniform</td>
<td>30 m²</td>
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<tr>
<td>Referees charging room</td>
<td>50 m²</td>
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<tr>
<td>Mixed zone</td>
<td>40 m²</td>
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<tr>
<td>Flash zone</td>
<td>30 m²</td>
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<tr>
<td>Hallways and common areas</td>
<td>50 m²</td>
</tr>
<tr>
<td>System room/storage</td>
<td>50 m²</td>
</tr>
<tr>
<td>Container toilets</td>
<td>60 m²</td>
</tr>
<tr>
<td><strong>Overall area (pitch included)</strong></td>
<td>126 x 84 m</td>
</tr>
<tr>
<td><strong>Stand distance from the sideline</strong></td>
<td>8 m</td>
</tr>
<tr>
<td><strong>Stands distance from the end line</strong></td>
<td>10.5 m</td>
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</tbody>
</table>

| MAIN STAND FIRST LEVEL (500 m²) |
| Snack bar | 100 m² |
| Catering area | 60 m² |
| Hospitality lounge and restaurant | 200 m² |
| Restrooms | 60 m² |
| Hallways and common areas | 80 m² |
| **Main stand** | 1,500 seats |
| **North stand** | - |
| **South stand** | - |
| **East stand** | - |
| **Corner stands** | - |
STADIUM WITH 2,500 SEATS

MAIN STAND GROUND LEVEL (1,300 m²)
- Lobby 60 m²
- Stadium offices 70 m²
- Media work area 100 m²
- Conference hall 100 m²
- Antidoping area 60 m²
- Infirmary 25 m²
- Office delegate UEFA/FIFA 25 m²
- Away changing room 180 m²
- Home changing room 180 m²
- Storage/Uniform 30 m²
- Referees changing room (gent & ladies) 60 m²
- Mixed zone 50 m²
- Flash interview 50 m²
- Hallways and common areas 150 m²
- System room/storage 80 m²
- Container toilets 80 m²

MAIN STAND FIRST LEVEL (650 m²)
- Snack bar 110 m²
- Catering area 110 m²
- Hospitality lounge and restaurant 300 m²
- Restrooms 60 m²
- Hallways and common areas 60 m²

MAIN STAND SECOND LEVEL (400 m²)
- Sky boxes/control room 240 m²
- Restrooms 60 m²
- Hallways and common areas 100 m²

PITCH DIMENSION
- Overall area (pitch included) 126 x 84 m
- Stand distance from the sideline 8 m
- Stands distance from the end line 10,5 m

Main stand 2,500 seats
North stand -
South stand -
East stand -
Corner stands -
STADIUM WITH 5,000 SEATS

MAIN STAND GROUND LEVEL (1,300 m²)
- Lobby: 60 m²
- Stadium offices: 70 m²
- Media work area: 100 m²
- Conference hall: 100 m²
- Antidoping area: 60 m²
- Infirmary: 25 m²
- Office delegate UEFA/FIFA: 25 m²
- Away changing room: 180 m²
- Home changing room: 180 m²
- Storage/Uniform: 30 m²
- Referees changing room (gent & ladies): 60 m²
- Mixed zone: 50 m²
- Flash interview: 50 m²
- Hallways and common areas: 150 m²
- System room/storage: 80 m²
- Container toilets: 80 m²

MAIN STAND FIRST LEVEL (650 m²)
- Snack bar: 110 m²
- Catering area: 110 m²
- Hospitality lounge and restaurant: 300 m²
- Restrooms: 60 m²
- Hallways and common areas: 60 m²

MAIN STAND SECOND LEVEL (400 m²)
- Sky boxes/control room: 240 m²
- Restrooms: 60 m²
- Hallways and common areas: 100 m²

NORTH, SOUTH, EAST STANDS GROUND LEVEL
- Container toilets: 80 m²
- Kiosk food and beverage: 60 m²

STADIUM WITH 5,000 SEATS

PITCH DIMENSION
- Overall area (pitch included): 126 x 84 m
- Stand distance from the sideline: 8 m
- Stands distance from the end line: 10.5 m

Main stand: 2,500 seats
North stand: 650 seats
South stand: 650 seats
East stand: 1,200 seats
Corner stands: 650 seats
STADIUM WITH 10,000 SEATS

**PITCH DIMENSION**
- 105 x 68 m
- Overall area (pitch included): 126 x 84 m
- Stand distance from the sideline: 8 m
- Stands distance from the end line: 10.5 m

**MAIN STAND GROUND LEVEL (1,300 m²)**
- Lobby: 60 m²
- Stadium offices: 70 m²
- Media work area: 100 m²
- Conference hall: 100 m²
- Antidoping area: 60 m²
- Infirmary: 25 m²
- Office delegate UEFA/FIFA: 25 m²
- Away changing room: 180 m²
- Home changing room: 180 m²
- Storage/Uniform: 30 m²
- Referees changing room (gent & ladies): 60 m²
- Mixed zone: 50 m²
- Flash interview: 50 m²
- Hallways and common areas: 150 m²
- System room/storage: 80 m²
- Container toilets: 80 m²

**MAIN STAND FIRST LEVEL (650 m²)**
- Snack bar: 110 m²
- Catering area: 110 m²
- Hospitality lounge and restaurant: 300 m²
- Restrooms: 60 m²
- Hallways and common areas: 100 m²

**MAIN STAND SECOND LEVEL (400 m²)**
- Sky boxes/control room: 240 m²
- Restrooms: 40 m²
- Hallways and common areas: 100 m²

**NORTH, SOUTH, EAST STANDS GROUND LEVEL**
- Container toilets: 140 m²
- Kiosk food and beverage: 100 m²
STADIUM WITH 15,000 SEATS

MAIN STAND GROUND LEVEL (1,300 m²)
- Lobby: 60 m²
- Stadium offices: 70 m²
- Media work area: 100 m²
- Conference hall: 100 m²
- Antidoping area: 60 m²
- Infirmary: 25 m²
- Office delegate UEFA/FIFA: 25 m²
- Away changing room: 180 m²
- Home changing room: 180 m²
- Storage/Uniform: 30 m²
- Referees changing room (gent & ladies): 60 m²
- Mixed zone: 50 m²
- Flash interview: 50 m²
- Hallways and common areas: 150 m²
- System room/storage: 80 m²
- Container toilets: 80 m²

MAIN STAND FIRST LEVEL (650 m²)
- Snack bar: 110 m²
- Catering area: 110 m²
- Hospitality lounge and restaurant: 300 m²
- Restrooms: 60 m²
- Hallways and common areas: 60 m²

MAIN STAND SECOND LEVEL (400 m²)
- Sky boxes/control room: 240 m²
- Restrooms: 60 m²
- Hallways and common areas: 100 m²

NORTH, SOUTH, EAST STANDS GROUND LEVEL
- Container toilets: 180 m²
- Kiosk food and beverage: 120 m²

PITCH DIMENSION
- Overall area (pitch included): 126 x 84 m
- Stand distance from the sideline: 8 m
- Stands distance from the end line: 10.5 m

1,500 seats 2,500 seats 5,000 seats 10,000 seats 15,000 seats 20,000 seats
STADIUM WITH 20,000 SEATS

<table>
<thead>
<tr>
<th>SEATS</th>
<th>1,500 seats</th>
<th>2,500 seats</th>
<th>5,000 seats</th>
<th>10,000 seats</th>
<th>15,000 seats</th>
<th>20,000 seats</th>
</tr>
</thead>
</table>

**PITCH DIMENSION**
- 105 x 68 m
- Overall area (pitch included) 126 x 84 m
- Stand distance from the sideline 8 m
- Stands distance from the end line 10.5 m

**Main Stand**
- 4,200 seats
- North stand: 3,500 seats
- South stand: 3,500 seats
- East stand: 4,600 seats
- Corner stands: 4,000 seats

**MAIN STAND GROUND LEVEL (1,300 m²)**
- Lobby: 60 m²
- Stadium offices: 70 m²
- Media work area: 100 m²
- Conference hall: 100 m²
- Antidoping area: 60 m²
- Infirmary: 25 m²
- Office delegate UEFA/FIFA: 25 m²
- Away changing room: 180 m²
- Home changing room: 180 m²
- Storage/Uniform: 30 m²
- Referees changing room (gent & ladies): 60 m²
- Mixed zone: 50 m²
- Flash interview: 50 m²
- Hallways and common areas: 150 m²
- System room/storage: 80 m²
- Container toilets: 80 m²

**MAIN STAND FIRST LEVEL (650 m²)**
- Snack bar: 110 m²
- Catering area: 110 m²
- Hospitality lounge and restaurant: 300 m²
- Restrooms: 60 m²
- Hallways and common areas: 60 m²

**MAIN STAND SECOND LEVEL (400 m²)**
- Sky boxes/control room: 240 m²
- Restrooms: 60 m²
- Hallways and common areas: 100 m²

**NORTH, SOUTH, EAST STANDS GROUND LEVEL**
- Container toilets: 240 m²
- Kiosk food and beverage: 180 m²

**NORTH STAND GROUND LEVEL**
- Container toilets: 240 m²
- Kiosk food and beverage: 180 m²
HIGHLY EFFICIENT
LAMINATED TIMBER
21ST CENTURY
CONSTRUCTION
MATERIAL
For many decades now, laminated timber has been manufactured at the production sites of Rubner Holzbau, one of Europe’s leading timber engineering companies. Presently, annual production volumes amount to some 85,000 m³. In the course of certified production processes, the cell structure of timber is not being modified but rather emphasized and highlighted, and mechanical performance of the material is even improved.

The load-bearing capacity of laminated timber can be compared to that of steel, yet with considerably less weight. The material guarantees long fire resistance, high seismic safety - compared to solid constructions - and it is highly resistant against aggressive media. When used on construction sites, the material scores with high prefabrication rates and allows constructions over long span widths eliminating, at the same time, any thermal bridge effects (Rubner has executed projects with self-supporting spans of up to 143 m, such as it was the case in the ENEL carbon reservoir). In addition, the material provides for aesthetically demanding constructions and this also explains the increasing share of laminated timber supporting structures compared to concrete and steel structures.

Based on industrially dried wood lamellas (mostly spruce but also pine, larch, fir and other wood types) obtained from the company-owned sawmill in Styria (AT), individually designed beams of any type are produced up to a length of 50 m. All production stages are fully automated adhering to assured quality standards, and once fabrication has been concluded, the beams are accurately trimmed by CNC-controlled machines. The manufacturing process that is executed in terms of the German automation standards of “Industrie 4.0” provides for the best possible product, which satisfies all requirements – starting with digital quality definition of the lamellas at the very beginning of the manufacturing chain up to trimming, delivery, just-in-time supply and assembly at the very end of the process.

Apart from technical excellence, all Rubner Holzbau production facilities are operated in accordance with one additional common denominator: ecological principles and the conservation and protection of our habitat at all levels are top priority issues. This high standard is underlined by using domestic woods in combination with ecologic and PEFC-certified forest exploitation, lowest possible primary energy input, recycling of waste materials and good ecological balance.

**AS EFFICIENT AS STEEL**
**FIRE RETARDANT**
**HIGH SEISMIC SAFETY**
**SUSTAINABLE**
Timber is perfectly well suited for prefabrication – a lightweight material, with perfect load-bearing capacities and easy to handle and process. The more complex the building components, the more crucial it will be to work under optimum production conditions. However, these conditions can only be obtained in production halls, which are not impacted by adverse weather conditions. Today’s modern timber engineering processes allow to implement entirely prefabricated roof-, ceiling and façade elements, including windows, doors and other installations.

However, timber is even more versatile than this: many other types of solid building elements made of cross laminated timber and self-supporting structures made of glued laminated timber elements with sizes of up to 50 m can be implemented as combined construction structures.

At the early stage of detailed workshop design, all issues, which may impact other trades on the construction site, are commonly discussed, coordinated and considered in the overall planning in terms of logistic and transport aspects. All factors can be visualised and calculated thus securing high cost-transparency. This method entails many benefits and advantages, such as schedule reliability with highly precise timetables and flowcharts, utmost precision and quality, no improvising on the building site, accident prevention, noise-reduced assembly works causing only little impacts to neighbours and finally short construction periods with economic benefits to construction owners. Today’s multi-storey buildings, for example, have only few concrete components – mostly the staircase or the elevator shaft. The largest part of remaining building components is prefabricated by Rubner Holzbau under workshop conditions. These building components are then delivered to the construction site and assembled just-in-time – a waterproof building stage is quickly achieved and remaining trade works can be rapidly executed.

When it comes to the transport and delivery of construction elements to the site of assembly, Rubner Holzbau assumes, upon request, the entire logistic organisation and guarantees, once a detailed schedule has been submitted, that all glued laminated timber beams – which measure up to 50 meters in length and 3.5 meters in height – are delivered “just-in-time” to the building site.
Resistance of glued joints is supervised by means of a delamination test executed on one test piece of 40 m³ glued laminated timber in accordance with EN 14080:2013 Annex C.

Delamination test for glued joints in accordance with EN 14080:2013 Annex C. In this test, the workpiece is subjected to an artificial aging process and then all glued joints are controlled. All values obtained are registered in the gluing report.

Adhesive strength of board lamella joints (finger joints) is controlled via load tests by means of one bending test consisting of three samples per strength class and layer respectively according to EN 14080:2013 Annex E.

To execute a bending test, load must be evenly and uniformly applied by two individual loads of the same size in the single span widths’ tripart points.

Moreover, glued joints resistance in the surface bonding is additionally controlled by means of shear tests in accordance with EN 14080:2013 Annex D. Test pieces (core drills) are obtained from the end sections.

All drill cores are tested with the help of an appropriate test device to determine their compression shear strength. Load must be applied – with constant deformation speed – in a way that failure occurs after at least 20 seconds.

The Darr test is the most exact method to determine wood moisture content. Once the wet weight has been measured, the samples are dried in the Darr oven at a temperature of 103 °C (+/- 2 °C) until no further weight changes are registered, i.e. until no more water is released from the wood. As soon as the Darr weight has been determined, wood moisture content is calculated by means of a special equation.

Thickness measurement of lamellas.

Wood moisture measurement (capacitive resistance measurement).

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RUBNER HOLZBAU
TIMBER ENGINEERING
IN THE 21ST CENTURY
No matter whether we talk about industrial, commercial or infrastructure constructions, sports, educational or culture centres - all these buildings have one thing in common: the confident handling of timber as construction material, which has been implemented by Rubner Holzbau for many decades now.

Today, individual, large turnkey buildings made in timber have become the core competence of the company. Constructions made of glued laminated timber, roof and wall elements, timber-glass façades, entire building shells and multi-storey timber constructions - high-quality structural solutions offered by Rubner Holzbau are being requested and implemented on an international level.
Every year, the company manufactures at their production sites in Bressanone (IT), Ober-Grafendorf (AT) and Calitri (IT) some 290,000 m² of roof, wall and façade elements and some 85,000 m³ of special building elements made of glued laminated timber. With additional sites in Italy, Austria, France and Germany, the company ranks among Europe’s leading and most efficient timber engineering companies. Certified factory pre-fabrication of timber elements under workshop conditions and large capacities provide for flexible, just-in-time delivery of building elements and guarantee highest resource safety and adherence to cost and time schedules.

Rubner Holzbau is part of the Rubner Group. From the early 1920s, Rubner has been literally relying on timber as ecological building material. During these decades, the company has developed from a small family-owned company into one of the leading suppliers in the international timber construction sector.

Today, the business departments timber industry, timber engineering, turnkey constructions, timber house construction and timber doors cover the entire range of production processes and production stages – starting with the raw material from company-owned forests up to the finished building, which represents a gapless vertical valued added chain, unequalled in Europe. The company’s scope of services comprises among others: company-owned sawmills for glulam beam strips, three-layer panels, glued laminated timber, window and door fabrication, single family houses, apartment buildings and even high-rise buildings and industrial buildings as well as large turn-key constructions. The family-owned company, which is run in the fourth generation, offers employment to some 1,300 people in Italy, Germany, Austria and France.
Westhills Stadium in the city of Langford, British Columbia, Canada. The first stadium entirely built in laminated timber, engineered, manufactured and assembled by Rubner Holzbau.