

RULES OF THE COMPETITION

INTRODUCTION

Among the first materials used by man for the construction of houses and buildings, timber was the protagonist. Over the centuries, carpenters and master craftsmen have developed sometimes extremely complex and refined working techniques.

Industrialisation and scientific and technological development have, however, led to the creation of new structural materials, such as steel and reinforced concrete. Over the last two centuries these new materials have almost completely supplanted timber, as they were able to solve some problems that timber technology was not prepared to address.

In the last decades, the development of new technologies has given new impetus to the timber industry, as a result of various innovations:

- in the chemical field, the development of cost-effective, reliable and eco-compatible adhesives has led to the creation of new timber-based materials (glulam, OSB, LVL, CLT, etc.) with performances unimaginable before;*
- innovations in the mechanical, electronic and industrial automation fields have allowed the introduction of new methods for the automated cutting of timber-based elements, with unprecedented precision and complexity;*
- scientific and technological research has made it possible to fully understand the mechanical behaviour of timber as a material, taking full advantage of its incredible potential;*
- the use of responsible and planned forestry methods has proven how sustainable exploitation of forests is possible, in compliance with strict environmental, social and economic standards.*

*In recent years, a new sensitivity to environmental issues has led to a rediscovery of the timber material, now also considered as a tool **to reduce the ecological footprint of the construction industry, with a very low "carbon footprint"**: timber, if used correctly, is able to store more carbon dioxide than is emitted for collection, processing, transport and assembly operations that will transform it into a house.*

At Rothoblaas we firmly believe in these concepts and in our thirty years of history we have tried to develop innovative, simple and effective solutions at the service of timber-related building technology. We believe that timber can be used as a high-performance, high-tech material. Today timber structures have the possibility to steal market share from the most widespread materials (steel and reinforced concrete) and to be free from an ancient inferiority complex motivated, until now, by the lack of technological solutions.

We are assisting the race to build increasingly taller timber skyscrapers (often called "plyscrapers"), with the target height of 85 m and 24 stories already reached. Moreover, this exploit of timber is also increasingly affecting smaller buildings that until a few years ago, just like skyscrapers, were under the undisputed domain of concrete and steel.

OBJECT OF THE COMPETITION

The purpose of the BUILD THE (IM)POSSIBLE competition is to give international visibility to innovative architectural projects that extend beyond the construction methods used until now.

“Building the impossible” can be done today thanks to the development of new technologies, which have given new impetus to timber as a structural material. In today’s world scene there is a growing awareness of respect for the environment, society and healthier and more conscious lifestyles. In this context, living comfort inside our homes is becoming increasingly important, in fact a large part of our well-being depends on it when we live at home.

The competition highlights innovative projects from the point of view of both design and collective interest in environmental sustainability. We, as Rothoblaas, have done our part: a four-year collaboration with the University of Innsbruck (A) and with certification bodies led to the development of two product families with extraordinary performance and a highly innovative character, called SPIDER and PILLAR, with a total of 130 different models tested during the project.

Today, designers and constructors who are like us in love with timber have two revolutionary solutions available to overcome today’s construction and sustainability standards. We have accepted the challenge and completed it, and now, with the support of the University of Innsbruck, we are ready to challenge your creativity: who will be able to surprise us more?

PARTICIPATION CRITERIA

The competition is open **to projects in which flat floors, placed precisely through SPIDER and/or PILLAR systems, are used.** The projects can be submitted at all stages: preliminary, final or executive design, as well as projects under construction. Both projects where this construction method is used in the whole building and projects where this is only partially used are allowed.

Who can participate? The competition is aimed at people involved in the building sector, specifically timber; in particular we are referring to designers, constructors, clients and why not, even those who are not professional designers: students, graduate students or researchers. No territorial restrictions, international scope.

NATURE AND VALUE OF THE PRIZE

Winning the competition means having a direct channel with the international community specializing in the timber construction sector. The professional and personal qualities of the winner will be emphasized through Rothoblaas communication channels. The project that wins the first prize will be an inspiration for other future projects that we hope will also aspire to other *sustainable solutions of community interest*.

In fact, the project and related competition will be included in Rothoblaas’ communication activities, benefiting from international visibility on social platforms and in specialized magazines. In particular, this com-

munication plan is intended:

- Presence of a banner on the homepage of Rothoblaas website for a period of two weeks with the announcement of the winner.
- 1 Facebook post and 1 LinkedIn post on our pages for the announcement of the winner
- 1 press release at the end of the competition (newspaper of the winner's country of origin)
- visibility of the winning project during the important **FORUM HOLZBAU INNSBRUCK 2021 and DACH+HOLZ 2022.**
- Section of the Rothoblaas website dedicated to the winner where the detailed description of the project will be present for one year.

The three finalists will receive a free gift of the standard November 2021 **Mass Timber Seminar** package, including board and lodging. For the winner there is also the full premium ticket of the Mass Timber Seminar with in addition the return trip from the country of origin, the return transfer from Cortaccia to the prestigious Forum HolzBau in Innsbruck (Austria) and the overnight stay in the Austrian city.

Moreover, Rothoblaas contributes to the travel expenses of the finalists who will attend the November 2021 Mass Timber Seminar.

For more information on Mass Timber Seminar room and board packages click here:

www.rothoblaas.com/school/international/5th-mass-timber-seminar

Clause: In the event that COVID-19 directly or indirectly affects the prize, the award ceremony and/or other meetings related to the competition, Rotho Blaas SRL will promptly inform all participants of any changes in the program schedule (cancellations, modifications, delays). In such a case, the participants will be responsible for eventual own incurred costs, and will not be entitled to compensation from Rotho Blaas SRL.

Rotho Blaas SRL is the PROMOTOR of the competition.

COMPETITION STEPS

The competition in its full execution - collection of works, selection of finalists and awarding of the winner - lasts 1 year (from 30th November 2020 to 30th November 2021) and is divided into the following steps:

- **Step 1: REGISTRATION AND COLLECTION OF ALL PROJECTS.** It is possible to register from 30/11/2020, the deadline for registration and submission of documentation is **31st August 2021**;
- **Step 2: PROJECT SELECTION. From 1st to 15th September 2021** the jury (see the "Composition of the jury" paragraph) will meet for a preliminary selection. **3 finalists will then be announced.** A system which provides for the assignment of a score to each evaluation criterion will be used for this purpose (see the "Evaluation criteria" paragraph). The jury will also prepare a **written statement explaining the reasons** for this result.

During steps 1 and 2 the competition will be promoted at the most prestigious international trade fairs in the timber construction sector, where it is possible to see SPIDER and PILLAR.

- **Step 3: PRESENTATION OF FINALIST PROJECTS AND AWARD CEREMONY.** From 15th September 2021 the finalist candidates will be sent to the November 2021 Mass Timber Seminar to be held at the Rothoblaas headquarters in order to present their projects to an audience of sector professionals. The seminar participants will choose the project they consider the most appropriate through an evaluation system that will be explained on site, thus proclaiming the winner. From that moment on, the winning project will be internationally visible through Rothoblaas' communication channels until all online and offline publications described in the section "Nature and value of the prize" are completed.

REGISTRATION PROCEDURE

1. To submit your application, you must fill in the registration form in the "Registration" section of the website and accept the policies. The necessary documentation must be uploaded in the "File Sending Area" section of the website, by **31st August 2021**. Applications received after the indicated date will not be considered. It is not necessary to upload all the material at the time of registration;
2. From the moment of application to the pre-selection, the staff of the Marketing department can contact the candidates for an in-depth examination of the project;
3. Approximately from **September 2021**, the Rothoblaas staff will contact the authors of the projects pre-selected by the jury;
4. From **September 2021** the finalists will be invited to the Mass Timber Seminar in November 2021;
5. During the Mass Timber Seminar in November 2021, the candidates selected by the jury will explain their project in a 10-minute presentation and then try to win the prize, convincing the seminar audience;
6. The winner of the competition will enjoy the well-deserved reward.

DOCUMENTATION TO BE PROVIDED

For the purposes of project evaluation, at least the following mandatory documents are required.

Structural graphic drawings:

- one structural plan on which the positions of the SPIDER/PILLAR connectors are indicated;
- one section of the building.

Architectural graphic drawings:

- one layout;
- one section;
- one elevation.

Synthetic report, containing information useful for the evaluation of the design (see paragraph "Evaluation criteria"):

- description of the works, with location and main geometric data (number of storeys, building volume, floor plan);
- description of the design choices with reference to the load-bearing structures, with particular reference to the areas with flat floors placed precisely;

- description of the architectural choices, with particular reference to the aspects linked to the presence of structures with flat floors placed precisely;
- for projects that initially involved the use of traditional materials and/or technologies and then converted to the use of timber structures, we are asked to explain the assessments that led to the choice of the timber material;
- possible evaluations that led to the choice of a system with flat floors placed precisely, instead of the classic timber beam-deck system.

Images exported from 3D graphics such as renderings or 3D CAD/CAM drawings of timber structures will also be appreciated, which can facilitate the understanding of the project.

Finally, please attach:

- designer's data;
- manufacturer's data (if defined);
- customer's data;
- participant's identity document;
- contact person for interviews.

.pdf files and high resolution .jpeg images are preferable. However, there are no technical constraints for the use of other formats. There is no limit to the weight of the annexes to be uploaded.

COMPOSITION OF THE JURY

The evaluation of the projects in the pre-selection phase will be entrusted to 2 Rothoblaas employees, 1 academic member of the University of Innsbruck and 2 external professionals.

EVALUATION/SELECTION CRITERIA

On the basis of the following criteria and with technical-discretionary judgement the jury will choose a shortlist of 3 finalists, candidates for the final prize.

- **AUDACIOUS STRUCTURAL SOLUTIONS:** particular attention will be paid to projects in which non-standard design solutions are used or which aim to exploit the potential of flat floors placed precisely, for example, with the use of structural meshes with particularly important spans;
- **BUILDING DIMENSIONS:** dimensions count, as large buildings allow large quantities of CO₂ to be stored. For this reason, projects of buildings with a high number of storeys or with a particularly large volume will be favoured. For the same reason, buildings with predominantly timber structures will be preferred to projects with an important presence of reinforced concrete or steel;
- **ARCHITECTURAL QUALITY:** the use of columns, instead of walls, for the transmission of vertical loads, allows to free spaces and limit structural constraints. The Designer has greater flexibility in the study

of architectural solutions that may include open spaces, large glass surfaces, etc. The ability to exploit these qualities, from an architectural point of view, will be a preferential factor in the evaluation phase;

- **TRADITIONAL-TIMBER RECONVERSION:** very often projects that in the first analysis used traditional materials and/or technologies are subsequently transformed into innovative materials and/or technologies. Projects of this type will also be favoured.

EXCLUSION FROM ITALIAN PRESIDENTIAL DECREE 430/2001:

This competition is excluded from the scope of application of Presidential Decree 430/2001 "Regulations concerning the organic revision of the discipline of competitions and prize-winning operations, as well as local events of chance, pursuant to article 19, paragraph 4, of Law no. 449 of 27 December 1997". By virtue of the characteristics defined in these Regulations, the competition in question is in fact one of the cases of exclusion referred to in art.6, letter a): it is a competition for the presentation of a project in a commercial/industrial context, in which the awarding of the prize to the author of the work represents recognition of personal merit and an encouragement in the interest of the community.

PRIVACY POLICY

The Privacy Policy produced by the Data Controller in compliance with article 13 of EU Reg. 2016/679 (General Data Protection Regulation) follows follows in the next page.

DATA CONTROLLER

ROTHO BLAAS SRL, with registered offices at Via dell'Adige 2/1, I-39040 Cortaccia (BZ), Italy, VAT No. IT 01433490214, is the Data Controller for the personal data you have provided. If you wish to make a report, or if you have any requests or wish to exercise the rights referred to in Article 15 *et seq.* of EU Regulation 679/2016, please contact our Privacy Representative by e-mail at the following address: privacy@rothoblaas.com.

TYPE OF DATA PROCESSED, PURPOSES OF DATA PROCESSING AND LEGAL BASIS

Participation in the competition requires the provision of consent to the processing of the following personal data:

- A) Personal and commercial data: name, surname, e-mail, address of residence, profession.
- B) Images and videos

The purpose of the processing for the data referred to in section A is:

the identification and admission of candidates to the "BUILD THE (IM)POSSIBLE" competition;
The sending and receiving of communications relating to the organisation of the "BUILD THE (IM)POSSIBLE" competition;
Be contacted for further information and interviews in order to promote the "BUILD THE (IM)POSSIBLE" competition.

The purpose of the processing for the data referred to in section B is for:

documentation and advertising purposes: by consenting to making photos and videos, the participant agrees that Rotho Blaas will use photos and videos provided by the user or made before, during and immediately after the event, and their subsequent use free of charge for advertising purposes.

The legal basis for the processing is the fulfilment of contractual obligations and the consent of the data subject.

NATURE OF THE PROVISION OF THE DATA

The User is at liberty to provide the personal data listed in the application to participate in the competition form. Failure to provide the data that is identified as mandatory, however, does not allow admission to the "BUILD THE (IM)POSSIBLE" competition. Failure to provide data that is identified as optional, on the other hand, could lead to the provision of an incomplete service.

DISCLOSURE AND DISSEMINATION OF DATA TO THIRD PARTIES

In order to fulfil the specified objectives, some data may be disclosed to Group companies; external parties/companies to whom the disclosure of the personal data proves to be necessary or, in any case, functional for the purpose of performing the requested service or for the management of the contractual relationship with the data subject (hosting companies or services companies and/or professionals providing services for the management of commercial communications) under the control of the Data Controller.

The data controller will disseminate the personal data provided by the above mentioned User through its web communication channels and in paper format, both in the context of the competition and for the awarding of the prize and for the effective performance of the promotional and marketing activities preceding, concomitant and subsequent to the competition itself.

TRANSFER TO THIRD COUNTRIES

The personal data provided by the data subject may be processed or transferred to a country outside the EU for the above-mentioned purposes in accordance with the applicable legislation in relation to the transfer of data to Third Countries and the relative guarantees as provided therein (Article 44 *et seq.* of EU Regulation No. 679/2016).

DATA PROCESSING METHODS AND RETENTION TIMES

Data processing of the gathered data is carried out through computerised procedures or, in any case, by digital means by internal or external parties specifically appointed and authorised for such purpose and committed to confidentiality terms. Data is processed and stored using appropriate tools to ensure its safety, integrity and confidentiality through the adoption of adequate security measures.

In particular, communications relating to the competition are sent by e-mail to the addresses provided by the participants.

The personal data provided by the concerned party will be kept for a period of 10 years after the award ceremony.

RIGHTS OF DATA SUBJECTS

The data subject may, at any time, exercise their rights, find out about the data that concerns them, how it was acquired, receive information about the parties or classification of parties to whom their data may be disclosed, verify that their data is accurate, complete, current and safeguarded, receive their data in a commonly used structured format, readable on an automated device, revoke any consent given at any time to process their data, request its deletion, and fully or partially oppose the use of their data. In addition, data subjects shall have the right to revoke consent at any time without prejudice to the legality of the processing based on consent provided before revocation and to file a complaint with the applicable authority, the Italian Data Protection Authority (Garante per la Protezione dei Dati Personali), should they believe that the processing of their data is in violation of the above-mentioned Regulation.