

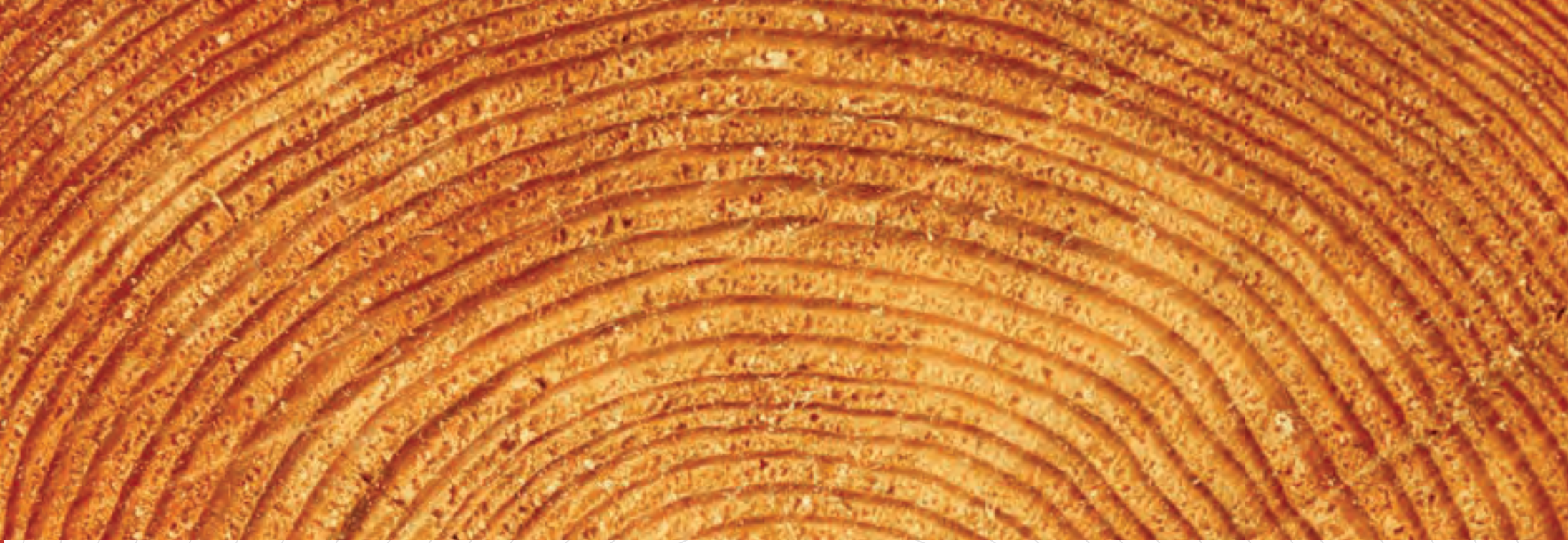


ASMAZ

ahşap karkas yapılar

ASMAZ TIMBER FRAME STRUCTURES

*Architecture, engineering, manufacturing, and application
projects in timber frame structures...*



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The foundation of ASMAZ Timber Frame Structures was laid in 1955 by our esteemed founder and my father, Hüseyin Avni ASMAZ. In our business life, which we started as ASMAZ Construction, we have put our signature on hundreds of construction projects. Since the establishment of our company, we have adopted the principle of offering comfortable lives in safe structures built with the most advanced techniques and products of the time. Since 2006, we decided to specialize in timber frame structures and restructured our company.

While continuing our path as ASMAZ Timber Frame Structures, we managed to become one of the strongest and most reliable companies in Turkey in a short time regarding the architecture, engineering, manufacturing, and application of timber frame structures. With our projects designed according to the special requests and needs of our customers, we continue to construct difference-making projects in various fields both at home and abroad, such as residences, workplaces, public space arrangements, hotels, educational institutions, and sports facilities. Timber Frame Structures create breathable, self-renewing, high-quality-of-life, healthy, and eco-friendly spaces due to the natural structure of wood and its carbon-sequestration property. Another superior feature of structural timber products is that they are the most durable building material against earthquakes, fires, climate changes, and natural disasters.

As ASMAZ Timber Frame Structures, we import certified structural timber materials with engineering specifications from the world's best producers in their fields for our structures. We have partnerships and representation agreements with many major structural timber product sales companies in Europe. We carry out all engineering works of our projects in compliance with the "Regulation on Design, Calculation, and Construction Principles of Timber Buildings" introduced by the Ministry of Environment, Urbanization, and Climate Change, which sets standards for the design of timber buildings and entered into force on January 1, 2025. Our manufacturing and assembly teams consist of trained, expert personnel who follow innovations in the world and receive regular training. Using the latest technologies in our

One of the most important missions of mine and my company is to raise awareness among society and entrepreneurs about timber frame structures. To this end, we closely follow technological developments and new products by attending international conferences and fairs, thereby expanding our communication network. We are pleased to share knowledge about innovations and innovative developments with our friends in the Turkish timber construction sector. We attach great importance to informing and specializing the new generation on timber frame structures. For this reason, we maintain close relations with many universities and vocational high schools; we give presentations on timber frame structures, new techniques, and products to architecture and engineering faculties several times a year, and subsequently host students at our construction sites to observe the application.

As ASMAZ Timber Frame Structures, we view creating public awareness on this subject as a social responsibility project, and we aim to contribute to raising the service standards and quality in this field while popularizing the use of timber frame structures. Considering that timber skyscrapers are rising in many European cities today, and most recently an 18-story all-timber structure was brought to life in Norway, our path is long; however, we possess the advantage of having a passion for learning, excitement, and most importantly...

I wish you healthy and peaceful lives in timber frame structures.

With my love and respect.

Mehmet Akif Asmaz
Chairman of the Board
ASMAZ Timber Frame Structures



ASMAZ TIMBER FRAMED STRUCTURES

ASMAZ Ahşap Karkas Yapılar is one of the leading and the most successful and respected companies in the timber framed structures field of Turkey by designing ecological buildings which are user-friendly and eco-friendly and they reduce energy costs, require minimal maintenance, provide comfort and healthy living conditions and comply with international building codes.

Since 1955, ASMAZ İnşaat company would carry on its activities with its projects, stable structure, and customer-oriented service approach without compromising its quality principles. ASMAZ İnşaat decided to be a company that specializes in building timber structures in 2008. It moved in the direction of corporate restructuring including revision of its investments and aimed at training its team in order to make them specialized in particular timber framed structures by participating in various trainings, workshops and conferences. ASMAZ Ahşap Karkas Yapılar that proceeds on its way with such a

restructuring policy and integrated with the world, following all technological developments and hosting the representations of the largest companies of the world has been operating in the construction industry as a reliable, powerful corporate. Timber Frame Construction System is the world's most advanced, lightweight construction technology that meets the market's needs and people's expectations of life in healthy and durable structures.

Since 2008, ASMAZ Ahşap Karkas Yapılar provides its safe, healthy and comfortable living areas with its registered trademark by producing eco-friendly structures in Yalova factory which are suitable for all weather conditions, energy-efficient as a result of engineering calculations made for its customers in the country and abroad. As Asmaz Ahşap Karkas Yapılar headquarter is in Yalova, now it is closer to its customers and business partners through its office in Istanbul consisting of architecture and marketing departments.

WOOD ENGINEERING

ASMAZ Timber Framed Structure system is an international construction system that its static calculations made in accordance with the special software providing protection against all the possible damaging effects of natural disasters. ASMAZ Ahşap Karkas carries on its works of installation by static calculation in conformity with European Timber Structures Regulation (EC-5 Eurocode 5 Design of Timber Structures) entered into force at the same time in all european economic community countries. All engineering calculations at the company are made by considering all regulations concerning timber structures.



The essential point of engineering calculations is to determine the type of structural timber intended to be used and establish its strength criteria.

All kind of materials from solid wood, laminated wood, wood panels to composite wood must have structural features according to The European Timber Structures Regulation.

ASMAZ Ahşap Karkas Yapılar uses only timber as a structural material for all constructions. Products of connection technology which are the most important factor in the implementation of engineering calculations are also selected from structural materials which have been analysed by engineering calculations.

Asmaz Ahşap Karkas Yapılar works on architectural custom designs, personalized architectural projects and finds solutions based on customers' needs and expectations. After designing architectural projects, static

calculations are made by software systems. The loads generated by natural hazards such as earthquake, winds, rain, snow including dead and live loads are important parameters affecting the engineering calculations. Many factors such as location, climate and seismic data including purpose of use contain the basic information required for engineering calculations in a project preparation.

Having certified structural properties such as nails, screws, bolts etc in terms of use of metal connection technology products is the sine qua non of every production.

ASMAZ Ahşap Karkas Yapılar is the only company which implements worldwide solutions that have applicable engineering calculations in our country in terms of connection technology that constitutes the most important part of the timber frame structure techniques.

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WORKING SYSTEM

Asmaz Ahşap Karkas Yapılar provides unlimited support at every stage of the implementation process in terms of project designing, manufacturing, installation and consultation with its architectural design office which offers creative designs and its manufacturing plant with fast production and specialized technical team.

Asmaz Ahşap Karkas Yapılar works to create projects that will meet the specific requirements of customers.

Asmaz Ahşap Karkas Yapılar produces architectural custom designs, personalized architectural forms and finds solutions based on customers' needs and expectations. After designing architectural projects, static calculations are made by software systems. In order to prepare each manufacturing project; wall panels, floor beams, timber roof trusses and support structures of each project are designed by engineering methods after nature of hazard loads (those generated by natural events such as high winds, earthquake, rain) are properly calculated by engineering analysis for each project. Roof trusses and floor beams are produced with proprietary and certified products by using special galvanized metal connector plates which their engineering calculations have been made.

Construction of structural support system is formed with special mounting accessories at the site of construction after manufacturing wall panels, floor beams and roof trusses in accordance with the project in the factory setting. The supporting structure of a two-story building is completed in 4-6 week quick and trouble-free assembly. After installation of the sheathing wrap of structural system with structural

wood panels from the outer surface and it provides unlimited possibilities to external and internal siding and insulation and trim applications optionally. Timber Framed Structure with structural load-bearing, floor beams, roof trusses thanks to large openings allowing to pass through, is a system preferred in all kinds of industrial and commercial buildings and it provides a seamless connection and unlimited solutions due to compatible with different structural elements.

Timber frame projects are initiated by making a design based on the concept. Even if there is no any architectural project, architectural design team may work with end-users and create personalized designs and projects.

Engineering team makes a static calculation of the related structure and also an engineering design of its structural load-bearing system, after the conclusion of architectural project. After that, production team takes over the project to start production. Timber frame erection crew takes over continuation of the process to complete the project on site after completion of its production.

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Project is delivered at the stage of basic or advanced structure in situ by ASMAZ Ahşap Karkas Yapılar when taken over such a project at the stage of designing. Here are the details of delivery at the stage of basic or advanced structure:

- Engineering calculations and production projects,
- Production of timber framed structure including structural load-bearing system
- Wall panels, joists, roof trusses,
- Installation of timber frame load-bearing walls
- Wall sheathing with structural wood panels from the outer surface
- Floor beams sheathed with structural wood panels
- Roof sheathed with structural wood panels
- Heat insulation to be applied for walls, floors and roof
- Plasterboard application for inner surface of exterior walls and both surface of interior walls and under floor and roof framing
- Exterior doors, interior doors, windows and joinery applications
- Roof waterproofing application on roof framing
- Roof sheathing
- Exterior sheathing application on exterior waterproofing membrane

We also provide turn-key services upon receiving a request for special project

ASMAZ Ahşap Karkas Yapılar offers unlimited design solutions, faultlessly efficient production, and fast and smooth installation process with customer-oriented service approach by using latest technologies in the production facility located in Yalova.

SOLUTION PARTNERS

ASMAZ Ahşap Karkas Yapılar has ongoing collaboration and solution partnership agreements with industry leading corporations. These agreements include project design and engineering, as well as authorized representation and after-sale service warranty agreements of EN certified structural wood products.

BAMBUDECK

ASMAZ Ahşap Karkas Yapılar started to use bamboo, which has become the most popular product in the world for decking and siding in recent years. Representative brand name is Bambudeck. Bambudeck has high density, flexible bending strength and the architectural surroundings, which are the force of tension; high-tech, environment-friendly, called vegetable steel new decking and siding product.



MOSSER

Since 2012, ASMAZ Ahşap Karkas Yapılar has also been the Turkish representative of Mosser Company from Austria, one of Europe's high-tech certified structural laminated wood producers



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SOCIAL RESPONSIBILITY PROJECTS WITH UNIVERSITIES

ASMAZ Timber Frame Structures considers informing and specializing the new generation of architects and engineers regarding timber structures—accepted as today's advanced construction techniques and high-tech structural timber materials—as a social responsibility project. Therefore, it maintains close relationships with many universities, gives presentations on timber frame structures to architecture and engineering faculties several times a year, and subsequently hosts students at construction sites so they can observe the applications. ITU (Istanbul Technical University), Yıldız Technical University, Istanbul University, Kocaeli University, MEF University, and Kadir Has University are some of the universities in close communication.

In addition, support is provided by offering consultancy and product sponsorship for the creative projects designed by universities using timber product sponsorship was provided. A prototype study of the architectural design for the project supported in timber engineering was prepared and assembled at the Yalova ASMAZ Timber Frame Structures factory. Subsequently, the MEF students and the ASMAZ Timber Frame Structures team together carried out the installation of the structure on-site in Antalya. The Mediterranean Triangle is a structure designed to experience the spatial power of shade at one of the spots in Antalya overlooking the Mediterranean Sea and is manufactured entirely from timber; this structure, which attracted great attention at the biennial, stands on the ground under its own weight.

A similar project was realized with Kadir Has University. Within the scope of the project conducted under the consultancy of the Faculty Members of Kadir Has University, Faculty of Art and Design, Department of Architecture, a functional playground was designed from structural timber materials in collaboration between the university and ASMAZ Timber Frame Structures. Throughout the project, where the design and implementation process was maintained with the collaboration of both institutions, detailed information regarding structural timber materials and their applications was provided to the students. The application was donated to a school in the Cibali/Balat region.



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EXAMPLES OF TIMBER FRAME STRUCTURE APPLICATION PROJECTS

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Çanakkale Seddülbahir Castle Bab-ı Kebir Gate



An Open Air Museum was planned by the Çanakkale Wars Gallipoli Historical Area Presidency in the Çanakkale Seddülbahir region, which is one of Turkey's most visited and most important historical and cultural values. Within the scope of the museum, we executed the timber frame structure project to revive the Bab-ı Kebir gate, which is the entrance gate of Seddülbahir Castle and was destroyed in the first bombardment. The manufacturing of the project using structural timber materials was completed in our factory, and its on-site assembly was carried out rapidly.

Çanakkale Domed Structure



Ankara Batıkent Recreation Area



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The Batıkent Recreation Area Project covers the construction of a facility consisting of timber frame structures with 14 different architectural plans designed for sports halls and social facilities. The manufacturing and assembly applications for the timber structures started in January 2023 and were completed in December 2023. High quality standards were adhered to in the material selections and construction techniques of the project.

Ankara Batıkent Recreation Area

MULTI-PURPOSE HALL AND YOUTH CENTER



Multi-Purpose Hall

With 2 floors and a total footprint of 1,453 m², the Multi-Purpose Hall is one of the largest structures in the recreation area. The supporting columns on the highest facade of its 2-story section are 9 m tall. It is a hybrid structural system featuring reinforced concrete stairs and elevator towers.

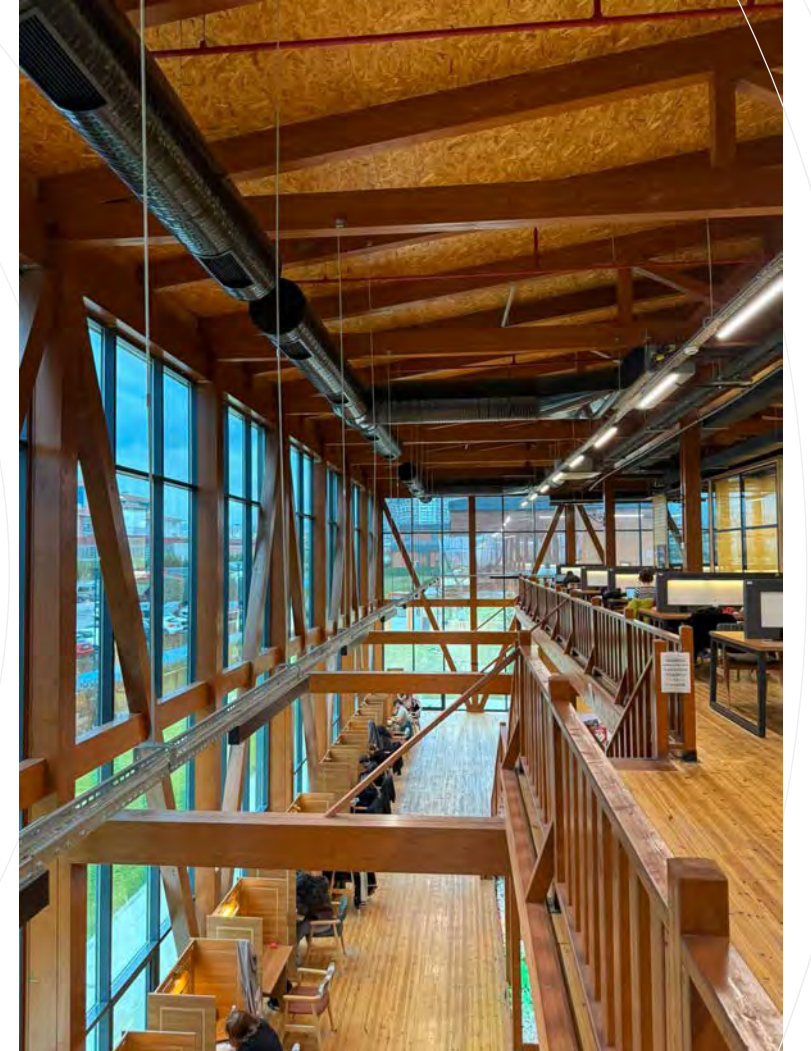
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Youth Center

The Youth Center located in the Batıkent Recreation Area has a total construction area of 1,193 square meters. The supporting columns of the structure are 8 m high, and the roof trusses have a 22 m span. Special metal fasteners were designed and manufactured for the structural system. The floor structure was created using LVL (Laminated Veneer Lumber) L panels. It holds the distinction of being the first project in Turkey to use LVL material.



Ankara Batıkent Recreation Area

EXHIBITION HALL AND RESTAURANT



Exhibition Hall

The total construction area of the Exhibition Hall is 939 m². The span of the load-bearing roof trusses is 18 m. To prevent potential vulnerabilities caused by the large gallery void in the architectural design, custom-designed metal fasteners and a wood-to-wood connection technique different from other structures were used.

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Restaurant

The construction area of the restaurant is 857 m². Manufacturing projects were prepared in accordance with the architectural design. The span of the roof structure load-bearing trusses is 25 m and its height is 7.5 m. It holds the feature of being the largest load-bearing roof truss we have built to date. Therefore, special logistics and assembly planning were carried out for the manufacturing. Custom-manufactured metal fasteners were designed and produced for the project. The stair structure was assembled with LVL (Laminated Veneer Lumber) L Panels in our Yalova factory and its on-site installation was completed.

Ankara Batıkent Recreation Area

TEA GARDEN AND INDOOR SPORTS FACILITY



Tea Garden

The Tea Garden Cafeteria building, sized 314 m² in the Batıkent Recreation Area, has 2 floors, and the staircase in the middle was constructed using LVL L panels. Due to its architectural design featuring an asymmetric and wide-span roof, a special T-shaped load-bearing main ridge was designed.

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Indoor Sports Facility

The manufacturing project of the 234 m² Indoor Sports Facility located in the Batıkent Recreation Area was executed with structural laminated timber products in our Yalova factory, and its on-site assembly was completed in a short time. The structure has awnings on its front facade. There are 2 Indoor Sports Facilities in the recreation area..

Ankara Batıkent Recreation Area

WOMEN'S CLUB



Women's Club

The manufacturing project of the 236 m² Women's Club structure located in the Batıkent Recreation Area was carried out in our Yalova factory with structural laminated timber products in accordance with architectural drawings, and its assembly was completed on-site in a short time.

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Bodrum Gülhan Muslu Mansions



The project is designed as a residential complex with a total of 1,300 m² of timber structure construction, consisting of 6 buildings with a garden layout, 3 floors, a reinforced concrete foundation, and reinforced concrete basement shear walls. Structural design studies compliant with all relevant regulations were carried out by our technical teams for the wall, floor, and roof terrace systems, which are entirely made of structural cross-laminated timber (CLT) panels.

All structural load-bearing elements of the Gülhan Muslu Mansions project—walls, floors, roofs, and stair steps—were manufactured using imported, certified, structural cross-laminated timber (CLT) panels in our Milas factory and assembled on-site.

Gülhan Muslu Mansions is Asmaz Timber Frame Structures' first sales project consisting of 6 luxury villas in Bodrum Turgutreis, entirely manufactured from structural cross-laminated timber (CLT) panels. The project's manufacturing, CLT structural assembly, insulation, and finishing works have been completed. Bathroom, kitchen, and interior decoration works, as well as landscape applications of the buildings, are ongoing. Life is planned to begin in Gülhan Muslu Mansions in January 2027.

The most important feature of the project is that it is the first construction project designed and licensed in accordance with the "Regulation on Design, Calculation, and Construction Principles of Timber Buildings" introduced by the Ministry of Environment, Urbanization, and Climate Change, which sets standards for designing timber buildings and entered into force on January 1, 2025.



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Bodrum Gülhan Muslu Mansions



The rough construction assembly of the 6 villas in the Gülhan Muslu Mansions project was completed in a record time of 33 days. The completion of the assembly in this record time was achieved through the parallel planning and systematic work of our technical team during the manufacturing and assembly process. The CLT floor structure and load-bearing walls were reinforced with certified metal fasteners specifically produced for timber systems, such as hold-downs, shear plates, and angle brackets, ensuring safe load transfer.

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İş Bankası Marmaris Training ve Recreation Facility



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Serving as the İş Bankası Marmaris Training ve Recreation Facility, the project includes 12 accommodation blocks, 1 reverse roof canopy structure for the restaurant building, 1 reception block, and open-air common areas. The exterior timber frame shading structures, sunshade/separator panels, railings, exterior ceiling panelings, kiosk structures, landscape pergolas, and bambudeck applications for all floors and walkways of the project were executed.

İş Bankası Marmaris Training ve Recreation Facility

ACCOMMODATION BLOCKS AND RECEPTION



Accommodation Blocks

Shading structures, sunshade panels, balcony and corridor railings, paneling coverings, stair handrails, and steel column cladding were executed across 12 blocks.

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Reception

The laminated timber facade system, relying on the main load-bearing steel structure, was applied in accordance with the architectural design. The system was configured to also support the structural joinery.

İş Bankası Marmaris Training ve Recreation Facility

RESTAURANT BLOCK / REVERSE ROOF CANOPY STRUCTURE



Light and Structure

Structural laminated timber beams and rafters were applied to the skylight opening of the reverse roof steel structure, which has a surface area of 900 m².

Manufacturing and Assembly

Beams and rafters were turned into panels in the factory using wood dovetail connection details, and their on-site assembly was completed.

Ceiling Cladding

A suspended ceiling system was created for the remaining steel structure of the roof and covered with thermo-spruce paneling.

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İş Bankası Marmaris Training ve Recreation Facility

LANDSCAPE PERGOLAS AND OPEN-AIR COMMON AREAS



4 Designs, 14 Pergolas

Landscape pergolas were manufactured unassembled in the Yalova factory. Curved timber canopies were assembled on-site onto steel pipe load-bearing columns.

Curved Timber Elements

The curved beams of two pergola types were manufactured from structural laminated timber. On-site assembly of the pergolas was completed within 2-3 days.

In the other two types, the ground connection of the 2-meter cantilevers was designed with structural bamboo; engineering calculations and implementation were carried out by ASMAZ.

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OPEN KITCHEN PERGOLA STRUCTURE



Laminated Timber Pergola

The manufacturing and assembly of the open kitchen pergola, whose architectural and structural design was developed by ASMAZ, were carried out. Certified, imported structural laminated timber products were used in the load-bearing structure.



Bambudeck Flooring

Bambudeck with a thickness of 10 mm, tongued and grooved on all four sides and jointless, was used for flooring. LED UV protection was applied to the surface of the material, which is suitable for outdoor use.

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KIOSK STRUCTURES / SECURITY AND BAR



CLT Load-Bearing System

The load-bearing structure of the kiosks serving security and bar functions was produced using structural cross-laminated timber (CLT) in the Milas factory. The 1-meter eave cantilevers on both facades were supported by CLT and additional steel ties.

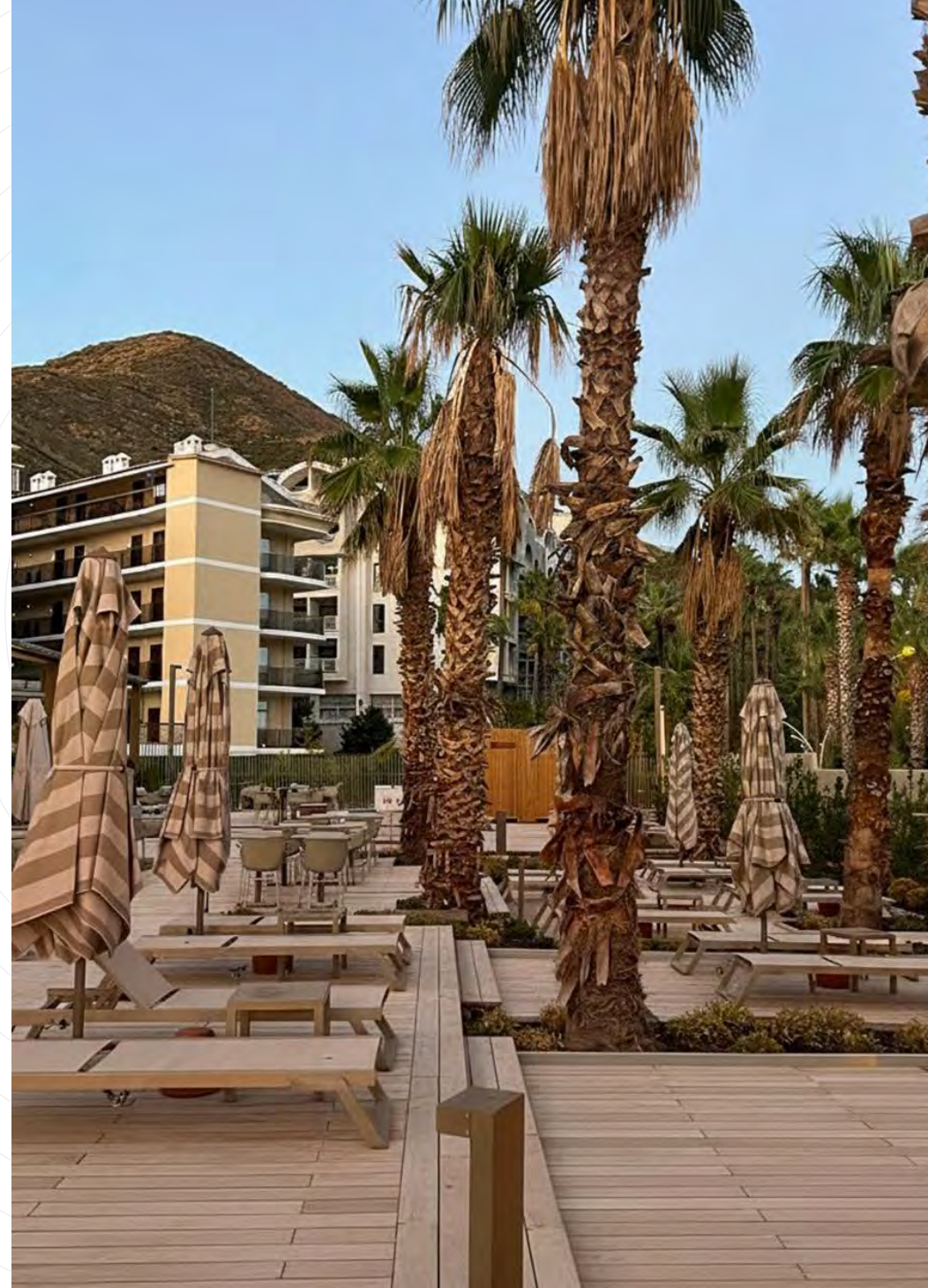
Thermo-spruce facade panelings were placed at angles matching the architectural design. The roof, joinery, installations, and interior furnishings were completed in the factory; the kiosks were sent to the site finished and placed on both sides of the beach entrance.

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BAMBUDECK FLOORING



Bambudeck flooring was preferred for sunbathing terraces, interior gardens, and walkways due to its long service life.

Around the beach and pool, the small-grooved (SG), caramel-colored bambudeck model was used due to its slip-reducing surface pattern.

The timber frame substructure provided natural ventilation beneath the flooring. Bamboo floors formed a visual integrity with the other timber structures of the facility.

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Topkapı Palace Fatih Pavilion Roof



The roof reconstruction of Fatih Pavilion consists of a 22.5 m long timber hip roof and two timber dome structures. Structural materials, screws, and fasteners were specially procured for the project. Following manufacturing in the Yalova factory, on-site implementation was carried out in accordance with the detailed logistics and assembly plan

Topkapı Palace Fatih Pavilion Dome Roof



The curved structural laminated timber beams belonging to the two domes were produced in the Yalova factory in a total of 32 dome modules. Prototype assembly of the modules was performed in the factory before shipment to the site. This preparation ensured that the on-site assembly was completed quickly and orderly.

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Pierre Loti French High School CLT Building Project



The application project of the 6-classroom timber structure located at the Pierre Loti French High School in Istanbul Tarabya, designed by Erginoğlu Çalışlar Architecture and structurally designed by us, has been executed.

The structure holds the distinction of being the first school project in Turkey constructed with structural cross-laminated timber (CLT) material. All load-bearing walls and the roof structure of the 2-story, 600 m² building were produced using 3-layer CLT panels of varying thicknesses.

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Fortuna of Cappadocia

PERGOLAS



3 different pergola structures were built within the hotel in the restaurant, terrace, and ground-floor guest room areas. Distinct, custom connection techniques differing from one another were used for the cantilever designs of all 3 pergolas.

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Fortuna of Cappadocia

ENTRANCE CANOPY / BUGGY PARKS



The canopy located at the main entrance of the hotel was manufactured from certified structural timber products, and special hidden connection techniques were developed and applied for the structure's rainwater collection system.



Design, manufacturing, and assembly of 4 Buggy Parks in different sizes were carried out for Cappadocia Lodge Hotel. Buggy Park applications were executed using certified, imported structural laminated timber products and fasteners.

The Buggy Parks were planned to be used as charging and parking areas for vehicles used throughout the facility.

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Istanbul Historical Building Kalkavan Mansion



Certified structural timber products were used in the restoration of Kalkavan Mansion in Istanbul Yeniköy. Architectural works were carried out by Dara Kırmızıtoprak Architecture, and restitution and restoration projects were conducted by Emrah Çelenk Architecture. In addition to rough and advanced rough applications, the CLT roof structure, fire protection and stop applications, and exterior panelings were completed.

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Istanbul Historical Building Cavit Pasha Pavilion



The restoration of the first-degree historical building Cavit Pasha Pavilion on Bağdat Avenue has been completed. Certified structural timber products were used in the timber structure. The original architectural appearance of the pavilion was recreated with the installation of facade ornaments produced in accordance with the approved project.

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Bodrum Le Meridien Resort Peninsula Bar



The timber structure of the beach bar designed by HRD Architecture was executed for Le Meridien Bodrum Beach Resort. Structural timber elements were produced in the Yalova factory and assembled on-site. Bambudeck was used for the beach deck flooring.

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Bodrum Le Meridien Vitalica



The timber structure and interior architecture applications of Vitalica Wellness were completed on a turnkey basis. The structure was produced in the Milas facility. Using certified imported structural timber products and compatible fasteners, a structure suitable for the spatial approach of the health center was created. Wood-dominant interior details were implemented in accordance with the project.

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Bodrum Le Meridien Pergola and Deck



Bambudeck was used for the outdoor flooring of the pool, beach, and social areas of Le Meridien Bodrum Beach Resort, as well as the Vitalica Wellness section. By applying pergolas and cabanas around the pool and special sunbathing terraces, flooring and shading elements were designed together.

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Bodrum Six Senses Hotel Resort Timber Applications



Pergola and deck applications in various plans and dimensions were carried out for the villa-type rooms of the hotel in Bodrum Kaplankaya. Pergolas were manufactured from structural laminated timber materials and assembled on-site. Bamboo-based bambudeck was used for outdoor floor coverings.

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Bodrum Six Senses Car Park



Within the scope of Six Senses Kaplankaya's timber applications, two car park units were designed and executed using structural laminated timber products. The units were completed and delivered to be used as charging and parking areas for battery-powered vehicles throughout the facility.

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Montenegro One & Only Hotel / Children's Playground



A timber children's playground was produced for the One&Only Portonovi Resort in Montenegro. CLT panels were used in the climbing wall and play castle. The modular units prepared in Yalova using structural timber materials and compatible fasteners were designed to provide ease of shipment and installation; on-site assembly was performed in Montenegro.

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Montenegro One & Only Hotel / Towel Cabanas



Towel cabanas made of solid iroko wood were produced for the One&Only Portonovi Resort. Moving mechanisms and openable-closable covers were used in the units, which complied with the architectural design prepared abroad. Manufacturing was carried out in the Yalova factory.

Yalova 15 m High Timber Flagpoles



The timber flagpoles designed for the garden of the Yalova factory are 15 m high, including the base and finial. In the two-jointed tapered poles using structural laminated spruce in the GL 24h strength class, the bottom diameter was designed as 20 cm and the top diameter as 10 cm. Stainless steel connection and pulley mechanisms along with protective timber oils were applied.

Istanbul Historical Building Süreyya Pasha Mansion



The entire load-bearing system of Süreyya Pasha Mansion, registered as a second-degree historical building, was rebuilt using the timber frame construction technique. In the structure on the Bosphorus, manufacturing and assembly applications complying with the reconstruction project preserving historical architecture were executed.

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Erzincan Palanga and Chicken Coop



A palanga and chicken coop with a capacity of approximately 600 chickens was designed for a farm in Erzincan. Following engineering calculations, manufacturing was completed in the Yalova factory; post-shipment assembly was carried out in five days. Structural laminated timber was used in the structure, pine plywood in the nesting boxes, and stainless steel hinges in the connections.

Istanbul Robert College / Open-Air Classroom



The open-air classroom designed for Robert College consists of a seating group, modular stools, and a canopy structure. Structural laminated timber elements complying with the architectural project prepared by ASMAZ were produced in the Yalova factory. Assembly of the unit was carried out on the school's grounds.

Istanbul Golden Horn View Terrace



Designed by Şanal Architecture, Şişhane Park is a public square arrangement positioned at the transition of Pera, Galata, Şişhane, and Tunnel. View terraces overlooking the Golden Horn, sloping timber walkways, children's playgrounds, urban furniture, and benches were implemented. The project was completed at the end of 2014.

Amasya Sarı Konak Hotel



Structural cross-laminated timber (CLT) was used in the reconstruction of the first-degree historical building Sarı Konak Hotel on the banks of the Yeşilirmak River. Preserving the Amasya-specific character of traditional Ottoman timber architecture, a total usage area of 1,000 m² across two floors and an inner courtyard facing the river were created.

Istanbul Adile Naşit Library and Children's Playground



Structural laminated timber and CLT materials were used for the library and indoor children's playground in the Istanbul Beylikdüzü Culture Center. Assembly of the wall and floor panels produced in the Yalova factory was completed on the construction site in a short time.

Bursa CLT Mountain House



The static design of the mountain house in Bursa was prepared taking into account the climate and seismicity conditions of the region. Manufacturing was carried out in the Yalova factory, and on-site assembly was executed according to the planned logistics schedule. CLT panels were used for interior and exterior walls, structural timber decks for floors, and laminated timber beams for the roof.

Istanbul Fehmi Pasha Pavilion

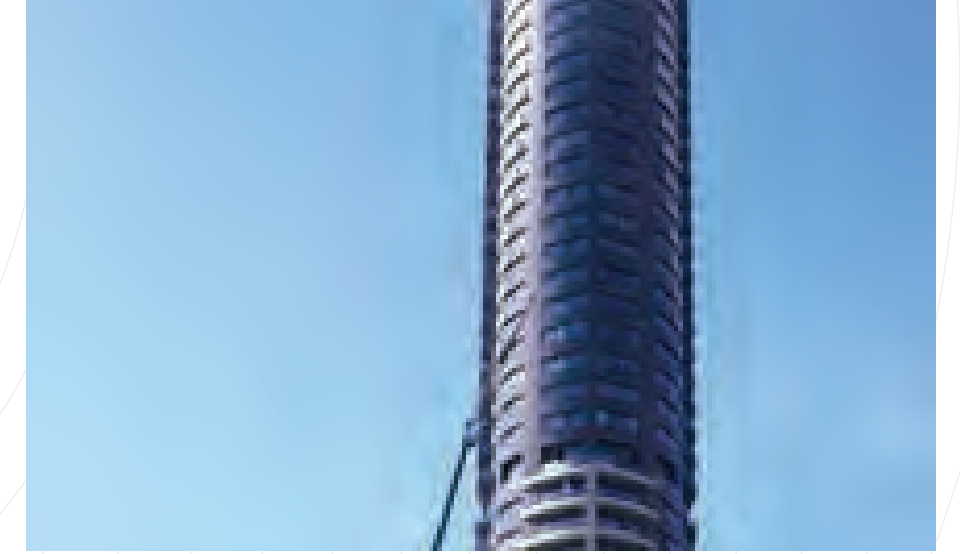


The restoration of the second-degree historical building Fehmi Pasha Pavilion in Üsküdar Sultantepe has been completed. Certified structural timber and CLT materials were prepared in line with static calculations and the manufacturing plan, and assembled on-site. The 2.5-story pavilion, whose rough construction took five months, was renovated in accordance with its original architectural character.

ASMAZ

ahşap karkas yapılar

İstanbul Akasya Park / Koru Kule



Four timber frame duplex apartments were executed on the 15th floor of AkasyaPark Koru Tower. The application using CLT was completed in six weeks while people were living in the building. Approximately 30 tons of timber material were transported by crane to a height of 77 m and brought in through the balcony; the logistics and assembly process was specially planned.

ASMAZ

ahşap karkas yapılar

Istanbul Köseleciler Mansion / Anadolu Hisari



The reconstruction of the second-degree historical building Köseleciler Mansion next to the Anadolu Hisari Pier was executed on a turnkey basis using the timber frame construction technique. During the reconstruction process based on original architecture, load-bearing system production and on-site implementation matching the project were completed.

ASMAZ

ahşap karkas yapılar

Yalova Cabin / Tiny House



The design and implementation of the model cabin / tiny house project, designed for the accommodation of four people, have been completed. The timber load-bearing system and interior layout were configured according to the needs of the compact living space. Assembly of the building elements prepared through factory production was carried out in accordance with the project.

ASMAZ

ahşap karkas yapılar

Turkmenistan Timber Dome



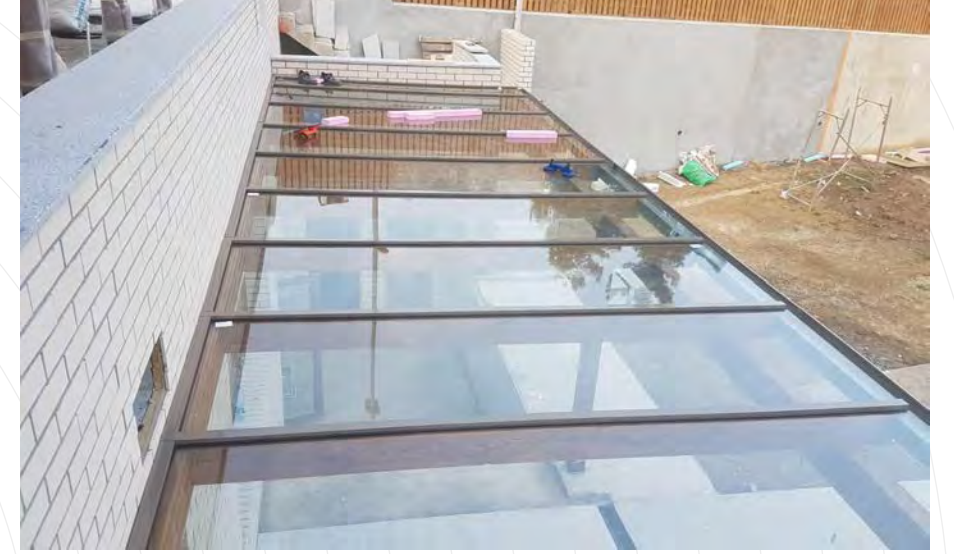
A timber dome with a 12 m diameter was implemented on the terrace of the 13-story Embassy Building of the Russian Federation in Ashgabat, the capital of Turkmenistan. Curved trusses were created from structural laminated timber; the elements were joined using a mortise-and-tenon system and timber dowels without using metal connection products.

Istanbul Çanakkale Seramik / General Directorate



Two winter gardens functioning as a showroom and cafe, designed by Erginoğlu & Çalışlar Architecture, were implemented in the garden of the Çanakkale Seramik General Directorate Building in Istanbul Levent. Spaces related to the open area were created by using structural laminated timber beams and glass surfaces together.

Istanbul Yıldız College / Timber Structure Applications



Three winter gardens and veranda applications made of structural laminated timber were completed in the school garden of Yıldız College in Istanbul Levent. Reflective Low-E glass was used on top, and laminated glass was used at the bottom. The cables of the LED lighting were concealed inside the timber structure.

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ahşap karkas yapılar

Istanbul Kemalettin Tuğcu House / Reconstruction



Known as the birthplace of Kemalettin Tuğcu, the second-degree historical building pavilion was rebuilt in accordance with the original project approved by the Monuments Board. Located on a hill in Çengelköy overlooking the Bosphorus, the structure is used as a residence after reconstruction.

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ahşap karkas yapılar

EXAMPLES OF ROOF APPLICATION PROJECTS

Bodrum Le Meridien Hotel / Indoor Pool Roof



A timber roof structure was executed for the indoor swimming pool of Le Meridien Bodrum Beach Resort. Structural laminated timber elements were produced in accordance with the architectural project and engineering calculations. Assembly of the load-bearing system spanning a wide opening was completed on-site.

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ahşap karkas yapılar

Istanbul Şile Timber Roof Structure



A timber frame roof structure was applied for two separate stone buildings in Şile Ulupelit. Structural laminated timber elements were colored with Provence blue. The roof system supporting the relationship of the horizontally positioned structure with nature and landscape was completed in accordance with the project.

İzmir Çeşme Roof Project



The timber frame roof application of the single-story building in İzmir Çeşme was executed. Large roof trusses were produced from structural laminated timber products and assembled in a short time in accordance with the architectural project.

Bulgaria Djebel Historical Mosque Roof Trusses



Roof trusses were designed and produced to expand a historical mosque without damaging its existing walls. 11 large and 30 small trusses were used in the project. The large trusses were manufactured from high-strength class laminated timber with a length of 17 m and a height of 4 m, and joined with special screws and fasteners.

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ahşap karkas yapılar

Bursa İznik Timber Roof Structure



Manufacturing and assembly were carried out for approximately 360 m2 of warm and cold roof areas of the natural stone mountain house in İznik Çandarlı. High-strength class laminated timber trusses and rafters prepared in the Yalova factory were applied using special fasteners.

Tekirdağ Şarköy Stone House Roof Structure



In Şarköy, between Hoşköy and Mürefte, the roof structure of the stone vineyard house facing Marmara Island was created with structural laminated timber trusses. A warm roof application was executed over the attic of the tower-form structure and the living room containing a 360-degree fireplace.

İzmir Port Alaçatı Roof Truss



A timber roof structure was applied in the fish restaurant designed with local architecture in Port Alaçatı. Load-bearing elements were finished in white, achieving a bright appearance in the interior.

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