

 **HOLZ
HOUSE**

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Holz House is the primary Russian manufacturer of glulam houses. Starting from 1998, we have been active in both Russian and international wooden housing markets.

The company has three manufacturing facilities in Kirov region with precision woodworking equipment by EWD, Weining, Hundegger, Krusi, REX. As raw materials, Holz House use top-grade pine and spruce wood harvested in the north of Kirov region.

The company also owns forestry facilities where wood is harvested using cutting-edge automatic John Deere and Ponsse machines. In this way, over 300 thousand cubic meters of Northern wood is harvested yearly to support shipments of any magnitude.

Glulam logs are made in accordance with the most stringent quality standards applicable in Austria; they are extraordinarily resilient, environmentally friendly and durable. Holz House structures are E1 environmental grade certified. Products built from this type of wood are also used to manufacture modern finishing materials and furniture for children.

Glulam structural beam, GL24h strength class, and ready-to-use, EN 14080 compliant house-building kits are increasingly exported to EU countries such as Italy, Germany, and Austria.

The company operates exactly to deadlines thanks its highly professional team and well-defined processes. With its stable presence on woodworking and wooden housing market, HOLZ HOUSE is a reliable supplier and partner.



Holz House manufacturing processes and technology

Every small thing matters when you need to choose a company to manufacture and build your future house. An environmentally friendly and reliable house is a glulam house made from top-grade material using advanced processing equipment with due regard to quality standards and procedures.

Holz House keeps its manufacturing premises accessible to customers. We invite you to visit our manufacturing facilities in Kirov region to see how a Holz House glulam beam is made at every stage of production.



Glulam Houses: Advantages

Holz House glulam is a contemporary construction material resistant to deformation, capable of retaining its shape and dimensions over time.

We use only top-grade wood from the north of Kirov region for our glulam beams. The main distinguishing features of this type of wood are small knots, dense rings and low moisture. The resulting material is strong and dense, therefore, finished glulam beam has excellent surface look.

Many construction materials are known to cause allergic responses, especially in children. Compared to other materials, glulam is an organic and ecofriendly product with no adverse effects to humans.

Thickness of a glue joint in Holz House structures is just 0,3 mm. Adhesive is contained inside of the beam and does not come into contact with ambient air. Hence glulam preserves natural flow of air and ensures that the house is steam-permeable, so we can safely say that our wooden houses are able to breathe.



Glulam is an excellent thermal insulant. Wooden walls of a house accumulate warm air and spread it evenly inside the building to maintain the temperature/moisture equilibrium. It is very easy to quickly heat such a house in winter, while there is never too hot in summer. That's why glulam houses are perfect as permanent homes or as country houses for recreation.

Perfect visual characteristics of glulam houses require a bare minimum of interior finishing. You can either highlight natural grain with a semi-transparent varnish or paint the walls in any color you like using special-purpose wood coating paints.

A glulam house requires far less time to build than other house building processes. It takes 3 to 4 weeks to assemble a 250 sq.m. glulam house using an existing foundation. A glulam house does not require time to settle (an average settling ratio is 1-2%). Therefore, you can apply finishing right after the walls and bearing structures are assembled, while houses can be built in any time of the year.

Glulam houses: Fire Safety

Glulam is safer than other wood-based materials used for house construction and metal structures as regards to its fire-resistance properties. For example, steel melts during fire, and that causes it to lose strength; as a result, the whole structure collapses.

Gas or foam concrete houses start cracking and eventually collapse during fire. Wood is a different - thanks to its specific thermal conductivity properties, one side of a log remains virtually cold even when the log is burning on the other side. The surface of wood is impregnated with fire-retardant additives to make it even more resistant to fire.



Holz House certificates

Holz House is the only Russian company whose products and processes are certified for conformity to EN 14080:2013 by Holz Forschung (Austria), a leading European quality assurance institution, and FSC requirements for woodworking companies.

The manufacturing premises and processes are designed by Austrian engineers with top level expertise. Holz Forschung (Austria) Wood Research Institute audits Holz House facilities twice a year for conformity to the EN standard. The quality of products is tested by an in-house laboratory.



СЕРТИФИЦИРОВАНО
НИИ «Деревообрабатывающей
промышленности» в Австрии.
Австрийское качество в России.



СЕРТИФИЦИРОВАНО
Международной
некоммерческой
организацией «Лесной
попечительский совет».



Bernhard Kraus
Holz Forschung auditor
Austria

European guidelines state that production of wood-based materials for bearing structures of houses for long-term use must be controlled, and materials used for such structures must be certified.

In 2015 Holz House elected to contact Holz Forschung Austria, a certification authority, to certify its products, namely, glulam beams. The raw material is pine and spruce from Kirov region, which, thanks to its unique growing conditions, has excellent visual properties, small knots, and low annual growth rate to guarantee top strength values.

Right from the start, we have developed a very good professional relationship with Holz House. Employees responsible for production and quality control in the Darovskoy facility are very professional, eager to learn more, interested in making top-quality products, loyal and friendly. I got a chance to prove it time and again, as I have been inspecting the facility once every 6 months. Over that time, no claims or complaints have been filed against the facility. Holz House can be proud of their employees. In my time as a professional in the field of certification I managed to visit a great number of European companies, got to know 150 production facilities from the inside, so I can safely say that Holz House is a worthy competitor to all of them as it manufactures high quality products.



Haider Andreas
Holz Forschung auditor
Austria

Von Beginn an gestaltete sich die Zusammenarbeit mit der Firma Holz House im Bereich der Pellets Zertifizierung angenehm und professionell. In der Pelletpresse werden die Sägespäne und Hobelspäne direkt aus der Brettschichtholz-Produktion vor Ort verwendet. Es handelt sich dabei um wirklich sehr gutes Rohmaterial mit vorteilhaften Eigenschaften für die Pelletqualität. Der Aschegehalt und der Wassergehalt der Pellets ist niedrig, der Heizwert ist hoch. Vor Ort im Werk sind kompetente und professionelle Mitarbeiterinnen und Mitarbeiter kontinuierlich damit beschäftigt, die Qualität der Pellets zu kontrollieren. Diese Eigenüberwachung vor Ort ist für die Zertifizierung unumgänglich – so ist sichergestellt, dass die Ware immer konstant hohe Qualität hat. Zusätzlich wird 1 x pro Jahr ein unabhängiges, externes Audit durch einen Auditor der Holzforchung Austria durchgeführt. Bei diesen Audits gab es bis jetzt keine schwerwiegenden Mängel.

Right from the beginning, we have developed a great professional relationship with Holz House as regards pellet certification. Pellet presses work on sawdust and shavings directly from the beam production facility. It is a top-grade raw material with the best properties for pellet manufacture. Ash and water content in pellets is low, while heat generation capacity (heat of combustion) is high. The facility employs skilled professionals to ensure continuous quality control of pellets. Internal quality control guarantees top quality of the products. The facility is also audited once a year by a third-party auditor (Holz Forschung, Austria). No violations have been registered during audits to date.





Hunting lodge, Austria design



Glulam house, Austria v2 design



Glulam house, Austria v1 design



Glulam house, Volga design



Glulam house, Backwoods design



Glulam house, Corvette design



Glulam house and kitchen, Era design



Glulam house, Montelimar design



Glulam house, Venice design



Glulam house, Bergen design



Glulam house, Pine Bank design



Glulam house, Oxford design

RESIDENCES



Hunting lodge, Austria design



A stylish contemporary glulam housing complex is located in Moscow region by the lake near the forest. It was designed to accommodate a large number of guests. This is the idea behind the architecture and internal arrangement of the houses.

There are several lounge spaces in the living room. Bedrooms are built with WC units and are completely separated from other rooms just as hotel luxury suites.

Two-storeyed houses are detailed, balanced and seamlessly integrated into the surrounding landscape. The exterior decorations are designed so as to remind of Swiss chalet, punctuated by a double-pitched roof with large overhangs and a tall foundation faced with stone tiles.





The leitmotif of the decoration is hunting: the designers placed hunting trophies in the hallways, in the dining room and on the façade.

Massive floor-mounted candlesticks serve to underscore a motive of brutal masculinity in the living room interior. At the same time, art deco upholstery, delicate carved armchairs and a silver-painted table are a counterpoint to the general "masculine" look.

A tiled mantelpiece brings to mind two distinct types of stoves - traditional Russian stoves in wooden houses and Dutch stoves in Russian aristocratic mansions.

The same feeling of eclecticism permeates the gallery where a sophisticated set of mirrors and a Murano glass chandelier are placed alongside the trophies.





Glulam house, Austria v2 design



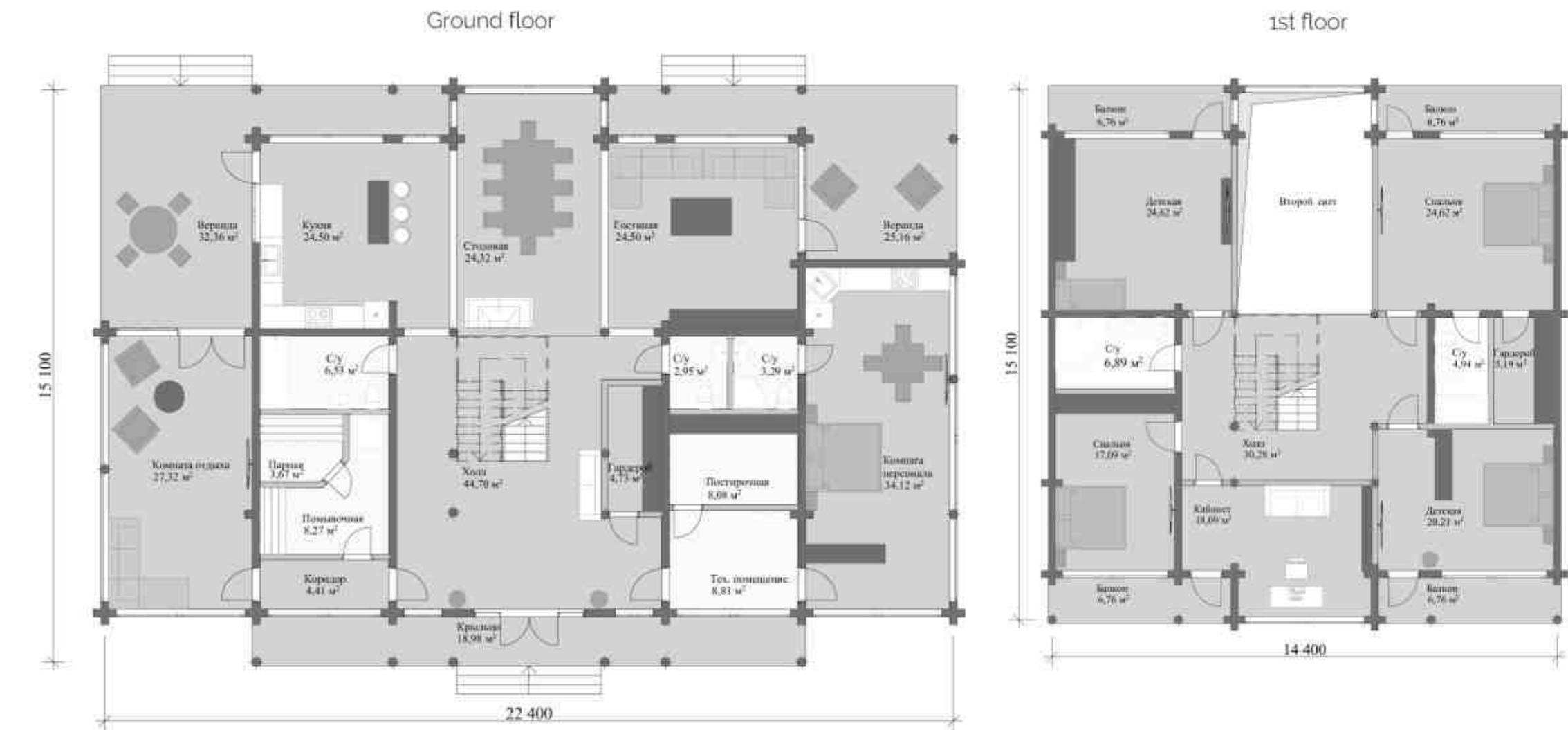
A glulam manor located in Ryazan region. The overarching goal of the project was to create a feeling of unlimited space and freedom. The customers often invite a large number of guests to spend a few days at their place, so the design includes dedicated areas for meeting and communication and multiple bedrooms.

The architecture is simple and elegant, and the facades are symmetrical, so a building like this can go well with any landscape. The glulam walls are coated with a transparent varnish to highlight the natural wood grain.





Total area: 486 sq.m
 Ground floor area: 307 sq.m
 1st floor area: 179 sq.m
 Terrace + balcony area: 103,5 sq.m
 Levels: 2
 Bedrooms: 5
 WC units: 5



Glulam house, Austria v1 design





A cozy wooden house built on a large land plot in Altay Territory. The main idea was to create a country house with advanced infrastructure so that a big family could stay away from city bustle on weekends and during holidays.

In addition to the bare minimum of residential premises, there is also a full-fledge spa facility (for owners' private use) with a sauna, a hammam, a swimming pool and a billiard room.

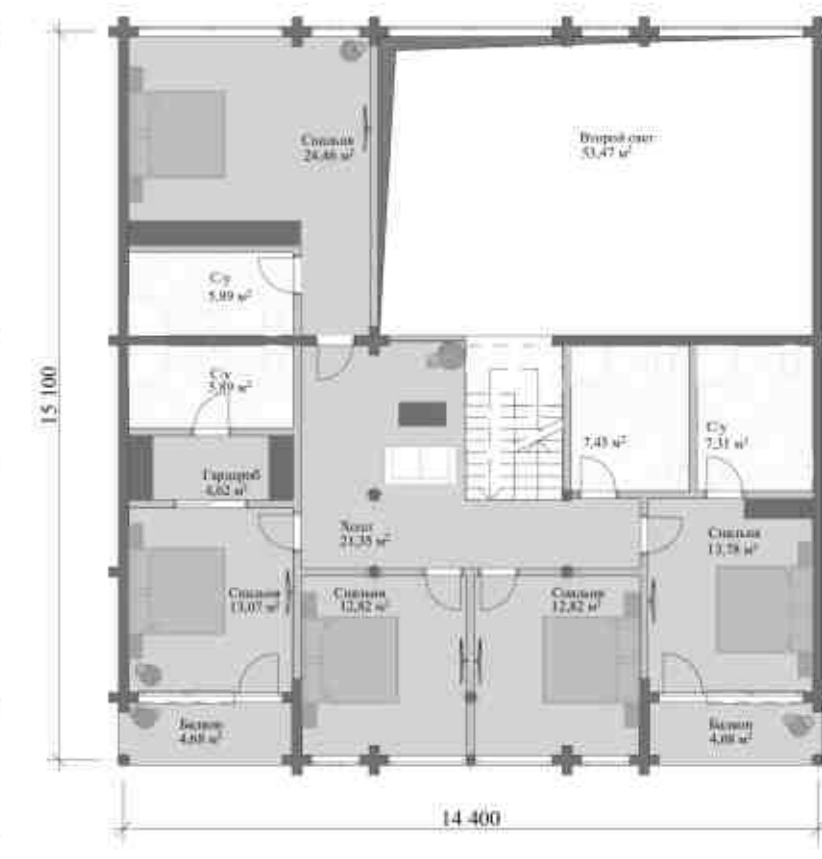
The facades and interiors are low-key. The lines are elegant, there are no excess details. Natural wood colors and mocha dominate the color range, so that the house feels comfortable for all generations of the family.





Ground floor

1st floor



Total area: 560 sq.m
 Ground floor area: 367,65 sq.m
 1st floor area: 192,27 sq.m
 Terrace + balcony area: 58,86 sq.m
 Levels: 2
 Bedrooms: 5
 WC units: 6

Glulam house, Volga design





A stylish, contemporary-looking wooden house built in Tver region on the bank of the Volga. The house is positioned so as to have a spectacular view of the river from all rooms. All bedrooms have accesses to a balcony or a terrace.

The main idea behind the project was to provide the most comfortable environment for a large family and their multiple guests (friends and relatives).

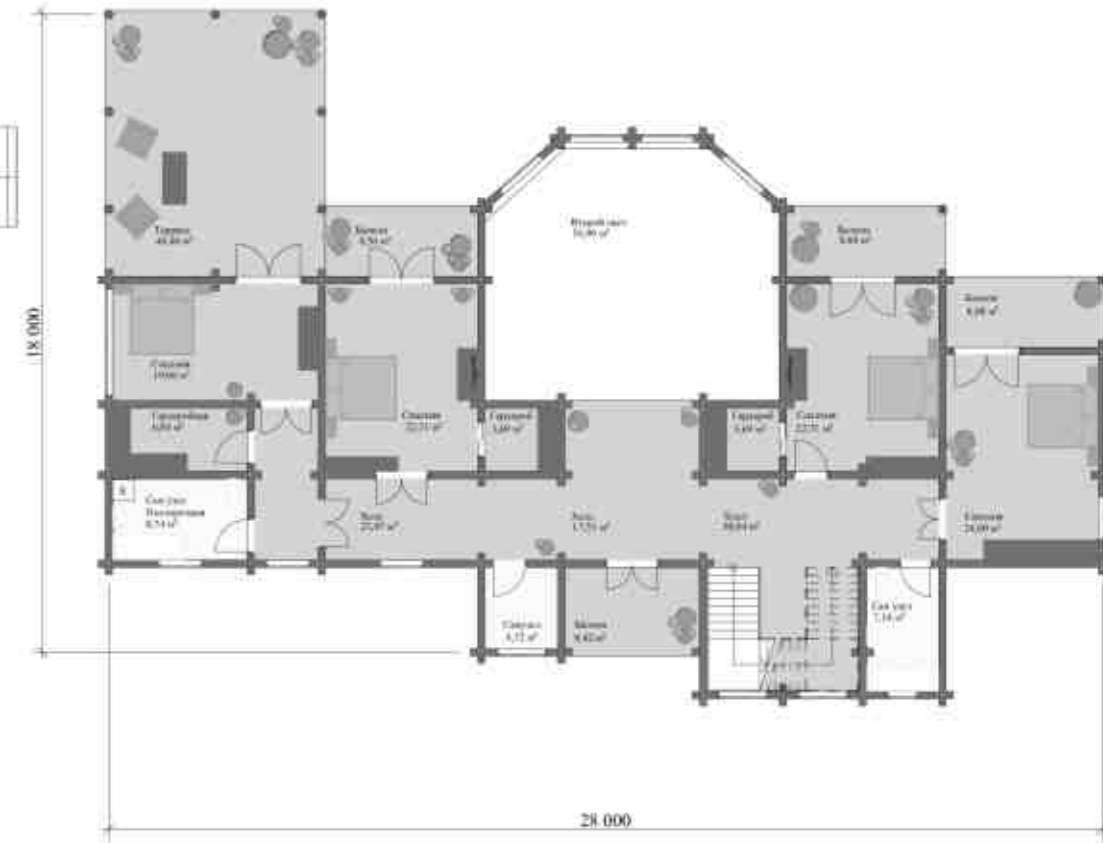
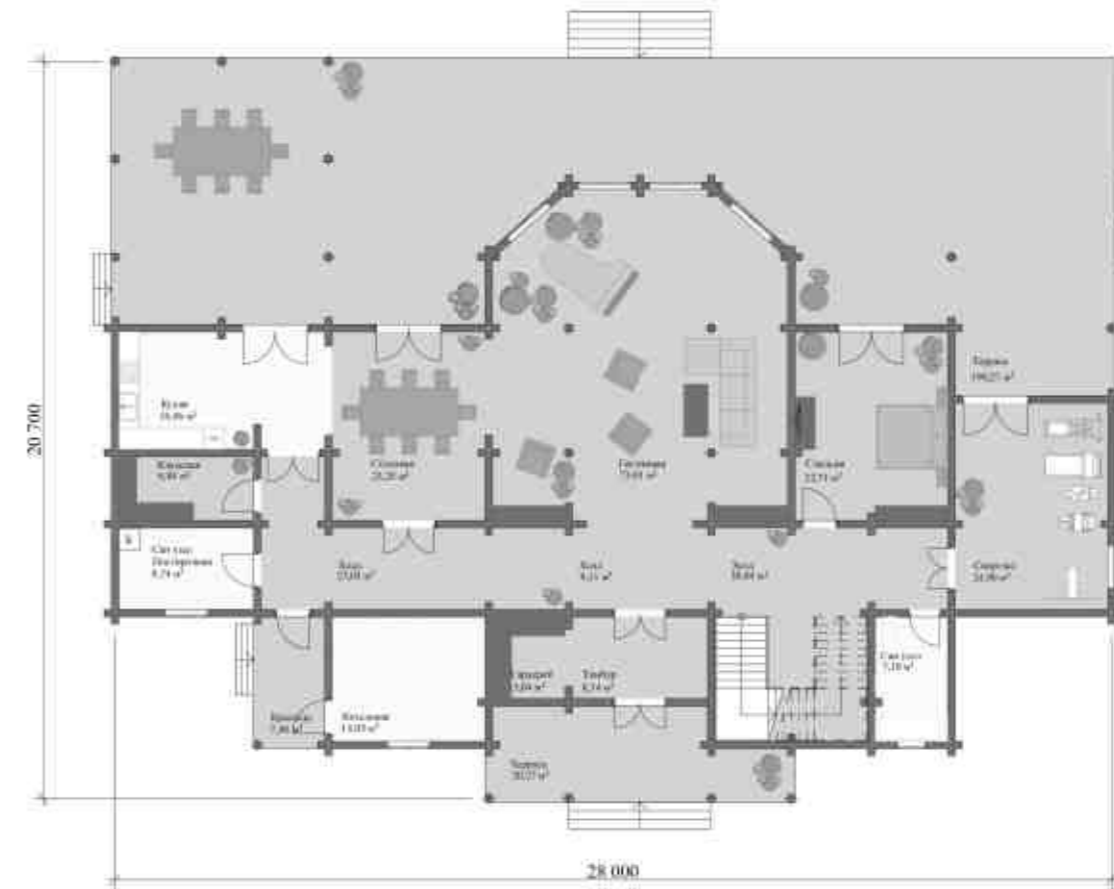
The interiors are filled with air and light to bring to life the beauty and charm of natural wood.





Ground floor

1st floor



Total area: 756,8 sq.m
 Ground floor area: 494,4 sq.m
 1st floor area: 261,4 sq.m
 Terrace + balcony area: 291,8 sq.m
 Levels: 2
 Bedrooms: 5
 WC units: 4

Glulam house, Backwoods design





A manor with a two-storeyed house and a standalone bath + barbecue unit is located in Tver region on the land plot on the bank of the river Nerl with an excellent view of the river and the woods. In addition to the principal buildings, there are also a pavilion and a plunge pool. An elegant architectural suite is designed so as to have a contemporary look. A covered terrace with a wood stove tiled with talcum peach offers great opportunities for recreation. Decorative lights provide illumination for the land plot at nighttime.



Glulam house, Corvette design





A two-storeyed glulam house in Moscow region. The building has a dynamic look thanks to the cascading roof covered with soft tiles. Large windows and a fenced terrace underscore the contemporary feel of the architectural solution, so that the house stands out from most of the current wooden buildings. The combined living room/kitchen unit is designed so as to make every object and every functional area accessible.



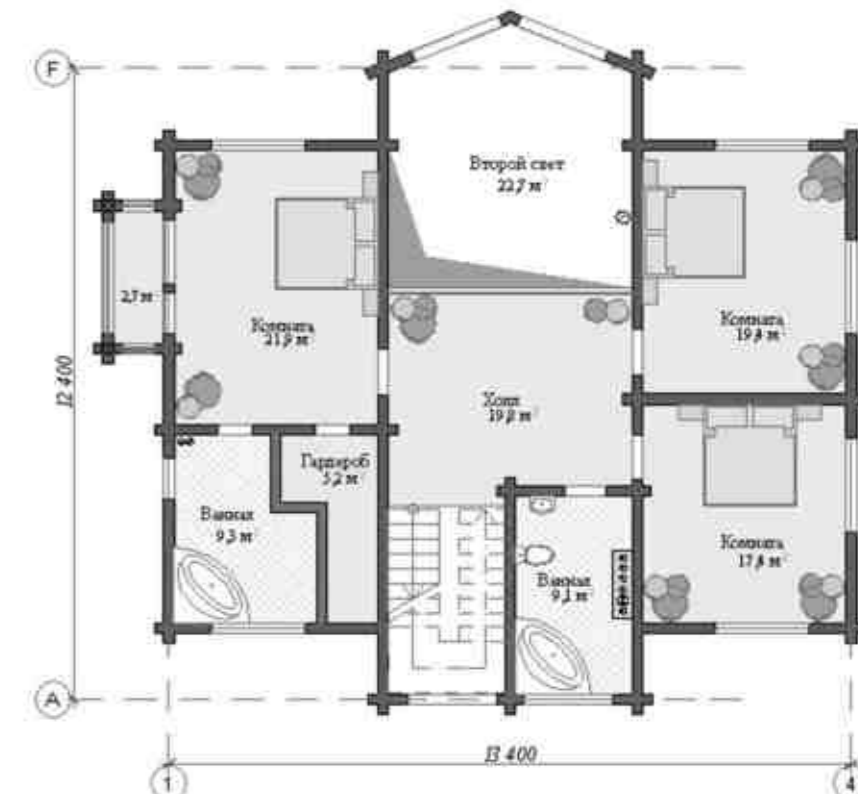


Total area: 286,6 sq.m
 Ground floor area: 133,5 sq.m
 1st floor area: 124,8 sq.m
 Terrace + balcony area: 28,3 sq.m
 Levels: 2
 Bedrooms: 4
 WC units: 3

Ground floor



1st floor



Glulam house and outdoor kitchen, Era design





A contemporary-looking glam manor, custom-designed and built in a picturesque location on the bank of the Volga. The manor comprises a main two-storey building and an outdoor kitchen pavilion. The key idea was to provide a recreational environment for a large family and their friends. The manor design includes a number of functional areas to spend time together or in small groups.

The two-storey building seamlessly fits the landscape and is erected on a tall foundation faced with stone tiles. The three-dimensional architecture highlights the multi-tier internal structure of the building.

A multilevel roof makes the architectural solution more dynamic. Its special feature is multiple terraces and balconies, accessible from virtually any room.



Glulam house, Montelimar design

A glulam building in Moscow region. One of the objectives the designers had was to provide convenient functional zoning so that personal rooms of the owners and guestrooms would be kept separate.

A large portion of the facades are glass panes so that the facades are lightweight and the rooms are given plenty of natural lighting.

The interior design combines traces of various styles and diverse textures. Graphic framework elements are evidence of the industrial style, while an abundance of wood is a testament to the ecofriendly nature of the building.

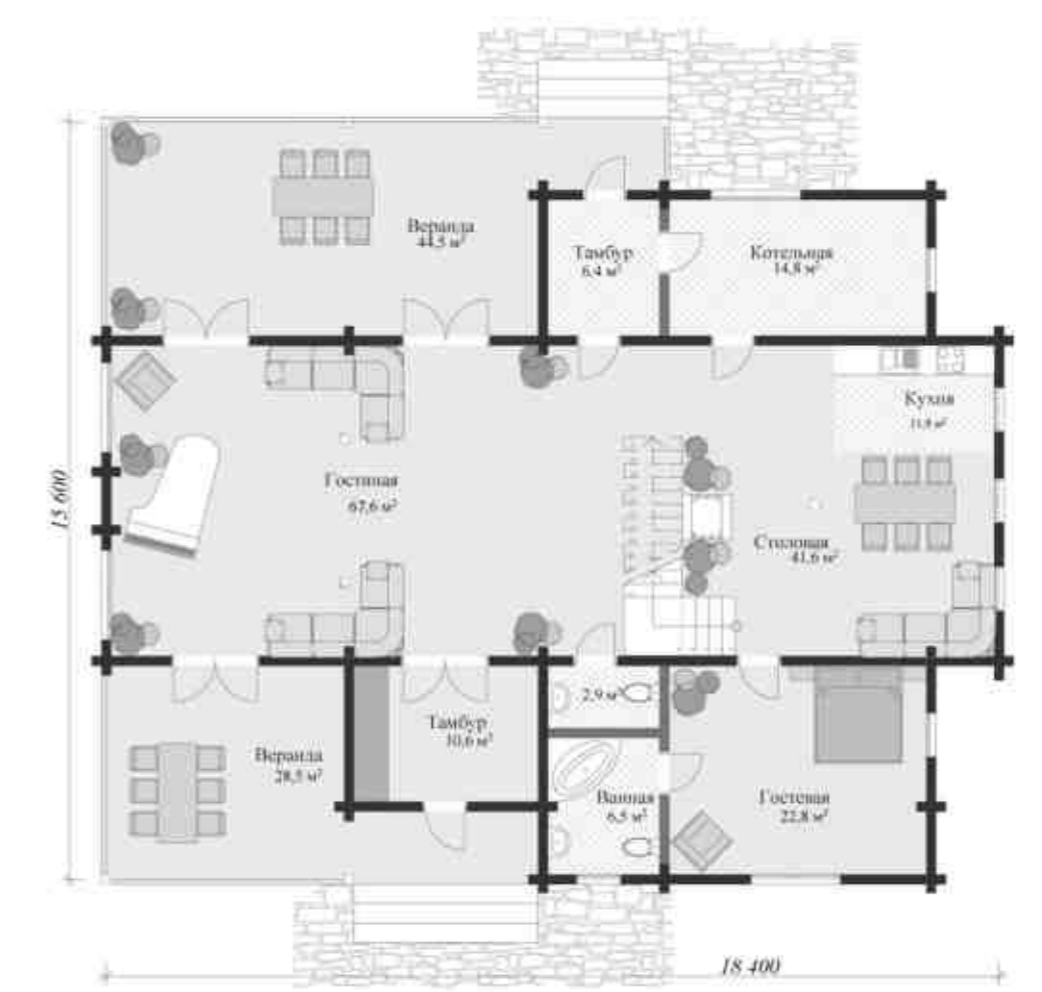




Total area: 412,2 sq.m
 Ground floor area: 185 sq.m
 1st floor area: 154,2 sq.m
 Terrace + balcony area: 73 sq.m
 Levels: 2
 Bedrooms: 3
 WC units: 4

Ground floor

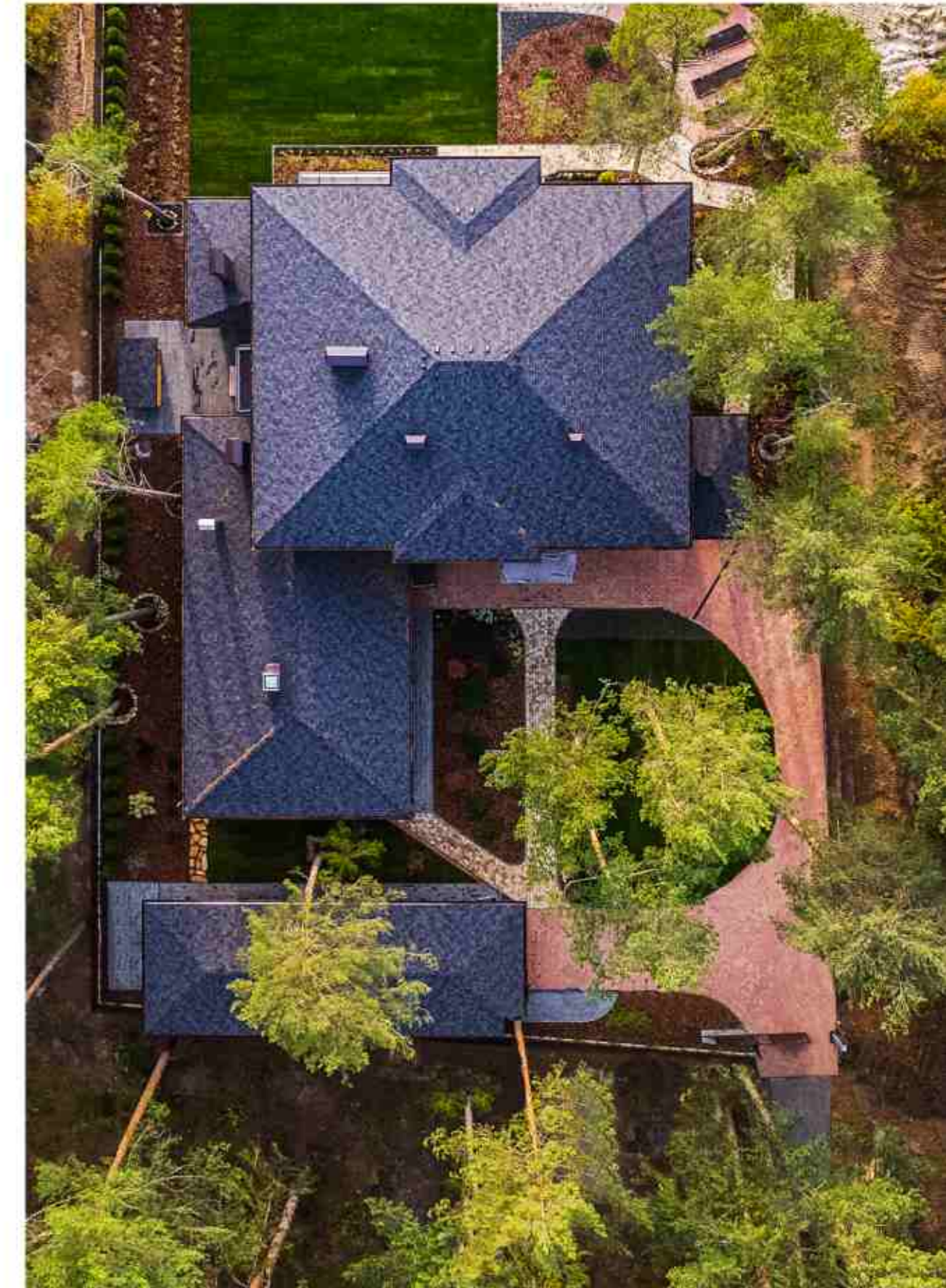
1st floor



Glulam house, Venice design

A wooden mansion built in the heart of a picturesque pine wood, on the bank of a large pond, far from the hustle and bustle of the city. The set of buildings includes a spa complex with a swimming pool.

The main façade consists of window panes to make the surrounding landscape a backdrop to everyday life. The house, with all its beauty and elegance, is seamlessly linked with the nature. Diverse textures and shades of various materials such as wood, stone and glass, are in a complete harmony.





Glulam house, Sokol design

A two-storeyed contemporary-looking manor situated in the middle of a picturesque coniferous forest on the bank of a large impounded pond. The architectural solution is concise to match the house with the landscape and accentuate its closeness to nature.

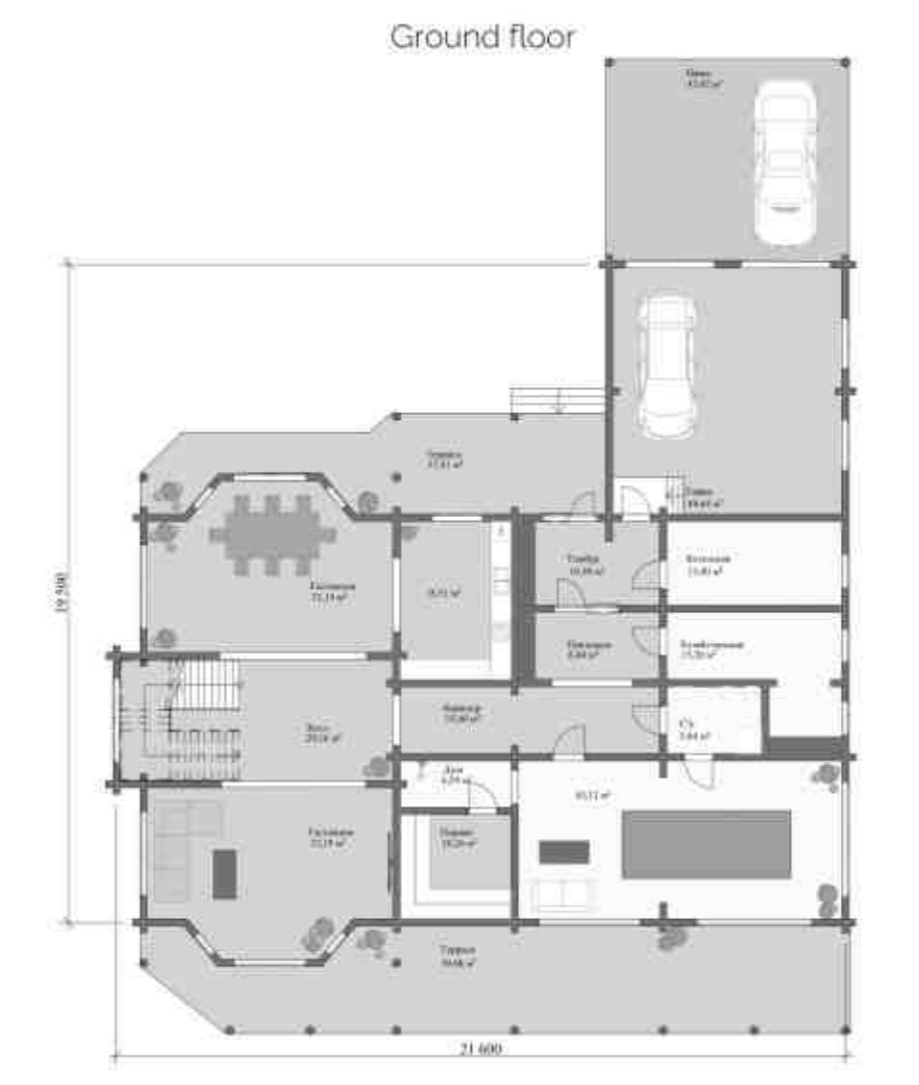
The main idea of the project is to bring together efficiency and comfort. The residential spaces embody the functionality of a big city apartment and a home feel of a country estate.

In addition to the main house, there is also a glulam steam bath and a lean-to two-car garage.





Total area: 618 sq.m
 Ground floor area: 380,3 sq.m
 1st floor area: 237,7 sq.m
 Terrace + balcony area: 59,9 sq.m
 Levels: 2
 Bedrooms: 4
 WC units: 5



Glulam house, Pine Bank design

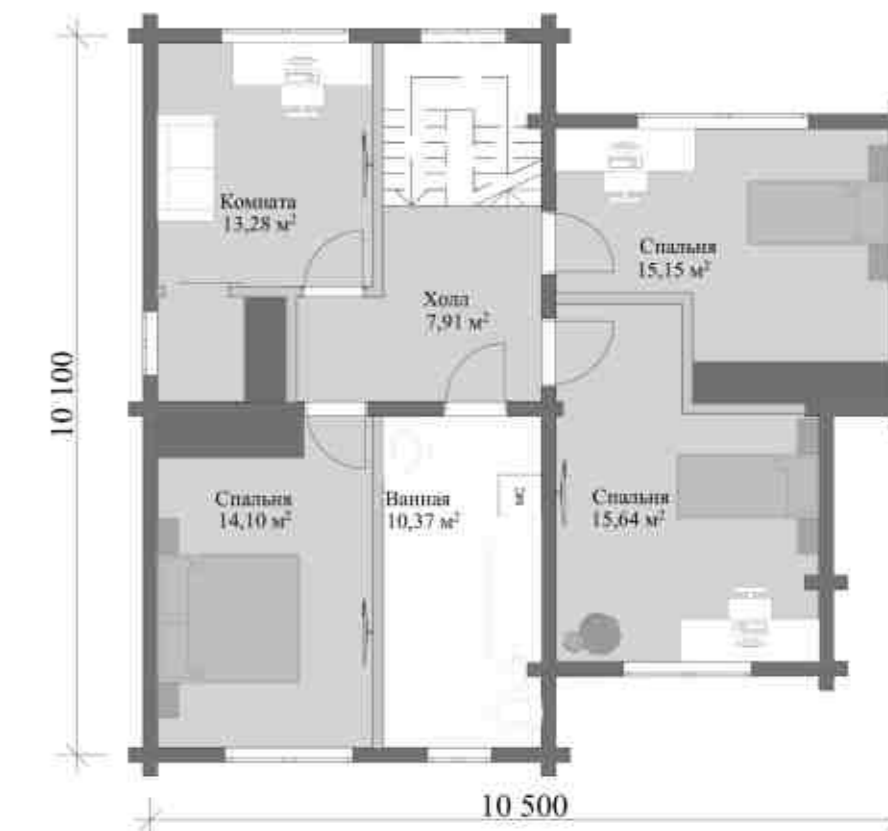
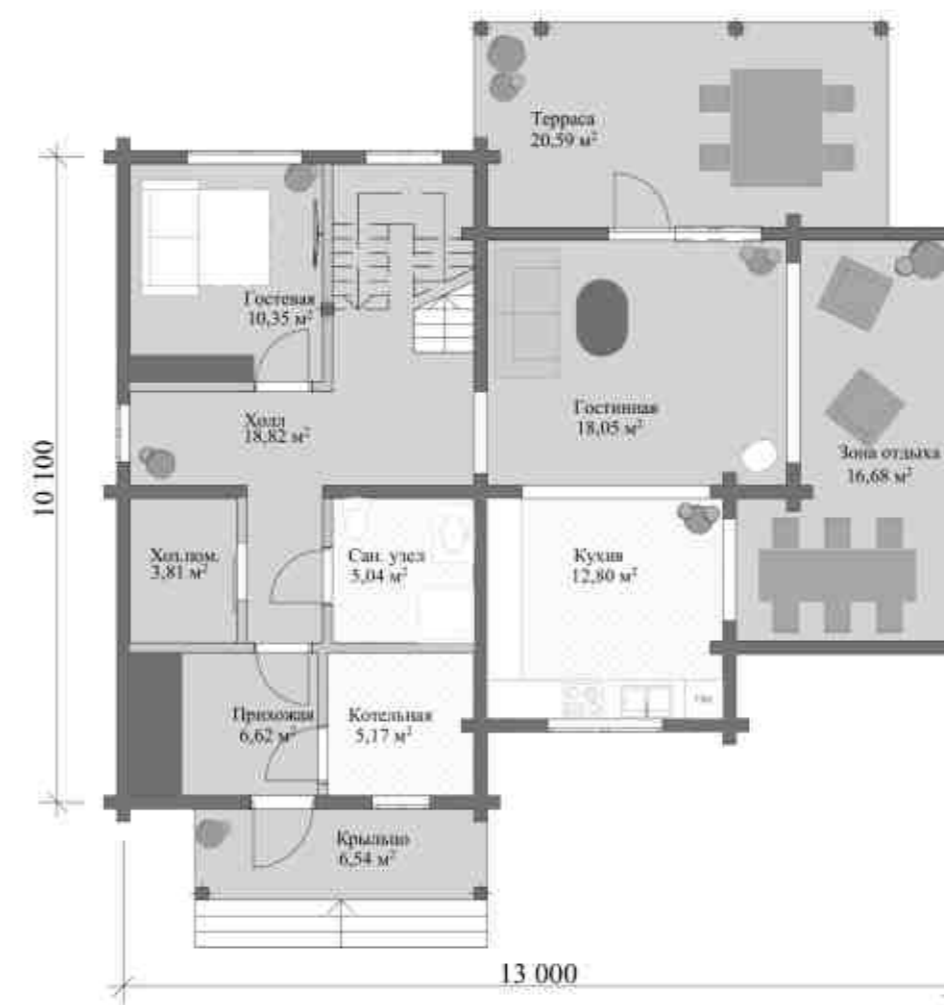
A two-storey glulam house built in Nizhny Novgorod region. It is a contemporary-looking cottage in perfect harmony with the surroundings. The layout of the house is designed so as to give each member of the family plenty of personal space. There is an additional entrance group that comprises a covered area for cars and agricultural tools. Windows are emphasized by white trim that stands out from the wooden wall background.





Ground floor

1st floor



Total area: 201 sq.m
 Ground floor area: 124,5 sq.m
 1st floor area: 76,5 sq.m
 Terrace + balcony area: 27,1 sq.m
 Levels: 2
 Bedrooms: 3
 WC units: 2

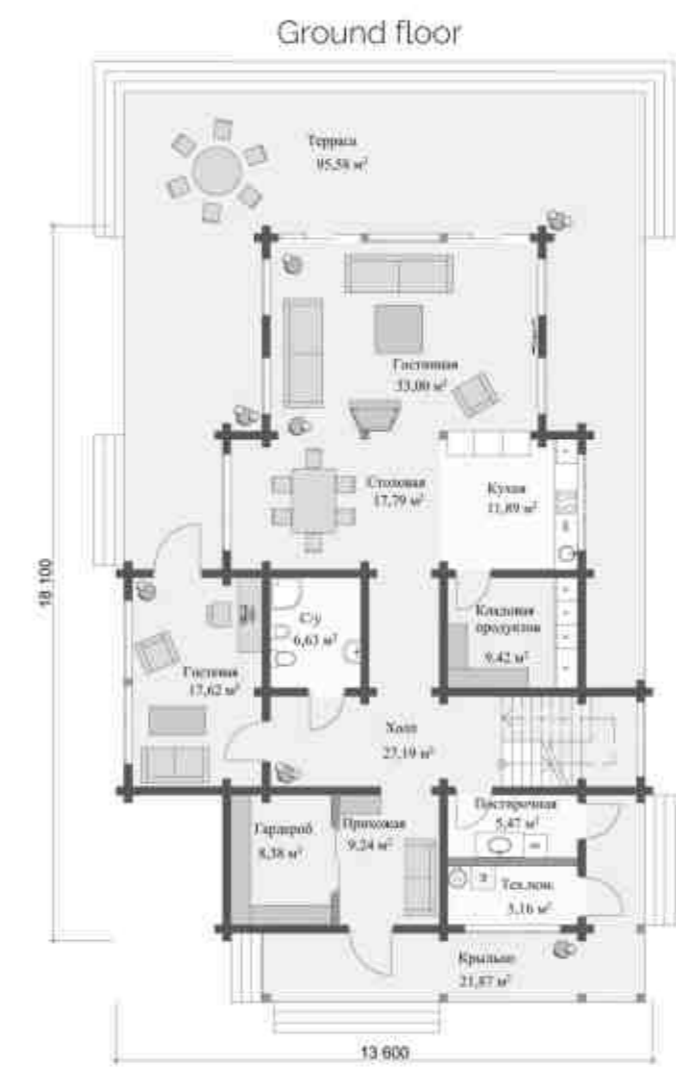
Glulam house, Bergen design

A bright, cozy, and contemporary-looking house with large glazed sections is built in Leningrad region. The architectural design is elegant and concise. A covered terrace and a balcony add expression and harmony to the building. Grey shades, an unconventional solution for wooden houses, are selected as the colors for façade decoration. The color range serves to highlight an austere and serious tone of the building. Graphic dark trim stands out against the backdrop and prevents the facades from blending with the landscape.





Total area: 392,1 sq.m
 Ground floor area: 269,2 sq.m
 1st floor area: 122,9 sq.m
 Terrace + balcony area: 135,7 sq.m
 Levels: 2
 Bedrooms: 3
 WC units: 3



Glulam house, Oxford design

A cozy and ergonomic two-storey glulam house built in a beautiful location far from the hustle and bustle of the city. This elegant, comfortable and functional two-storey house was designed from the start as a permanent family residence.

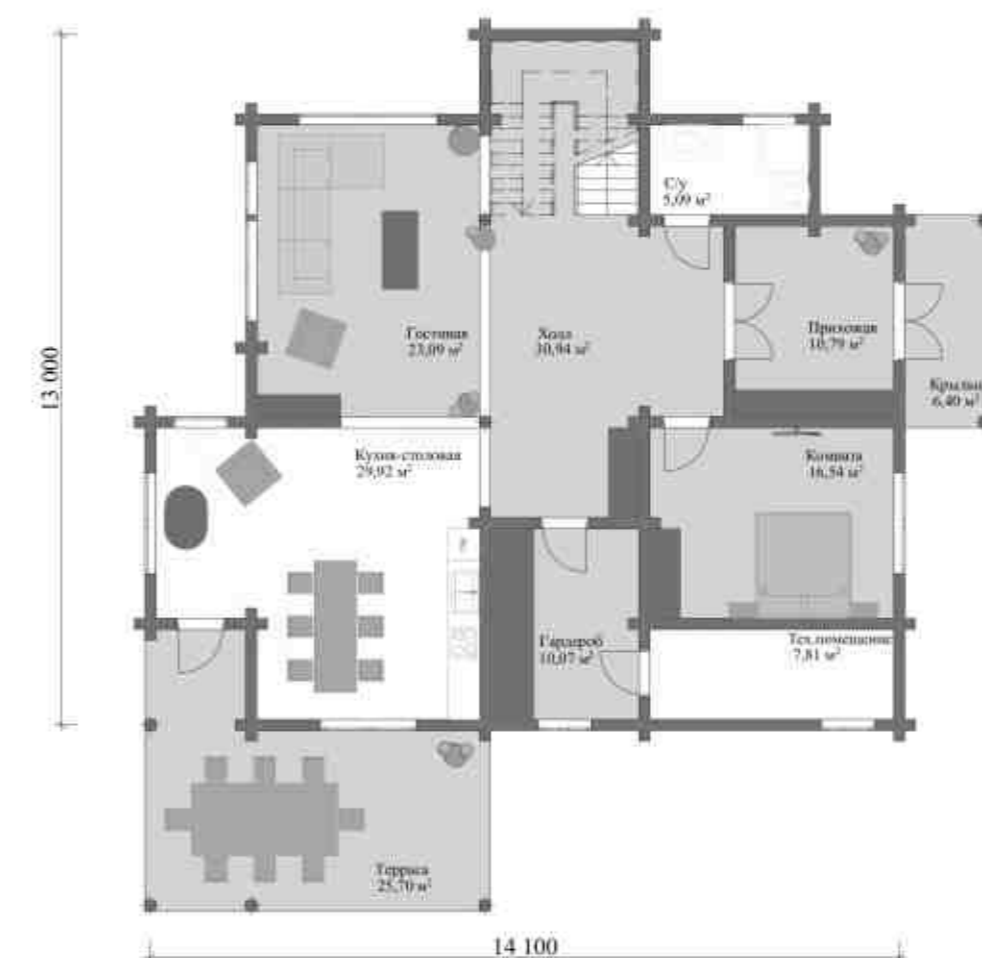
Simple lines and concise architecture make this building suitable for all times - such look will remain in demand even many years later. Large windows make the building lighter and enable natural illumination. Glulam walls are painted in greyscale to contrast against window frames, trim and sheathing.



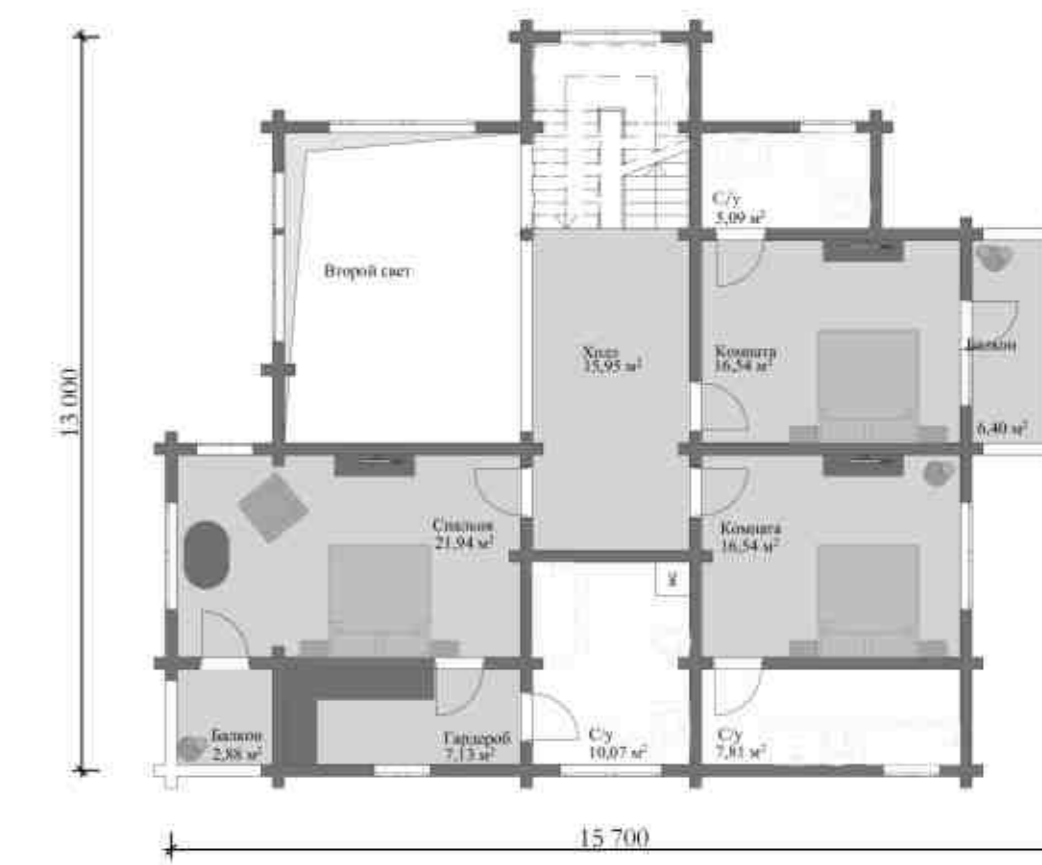


Total area: 276,6 sq.m
 Ground floor area: 166,3 sq.m
 1st floor area: 110,3 sq.m
 Terrace + balcony area: 41,4 sq.m
 Levels: 2
 Bedrooms: 4
 WC units: 4

Ground floor



1st floor



Les Art Resort 5 ☆ Country Hotel

A 5000+ sq.m five-star country hotel is located in a picturesque woodland in the west of Moscow region.

Ten standalone two-storey glulam cottages have everything there is for a comfortable stay and wholesome recreation. All rooms are carefully decorated and supplied with abundant upholstery and furniture.

The surrounding territory includes a spacious restaurant, a kids' recreation suite, an advanced fitness center and a large spa complex with three swimming pools.

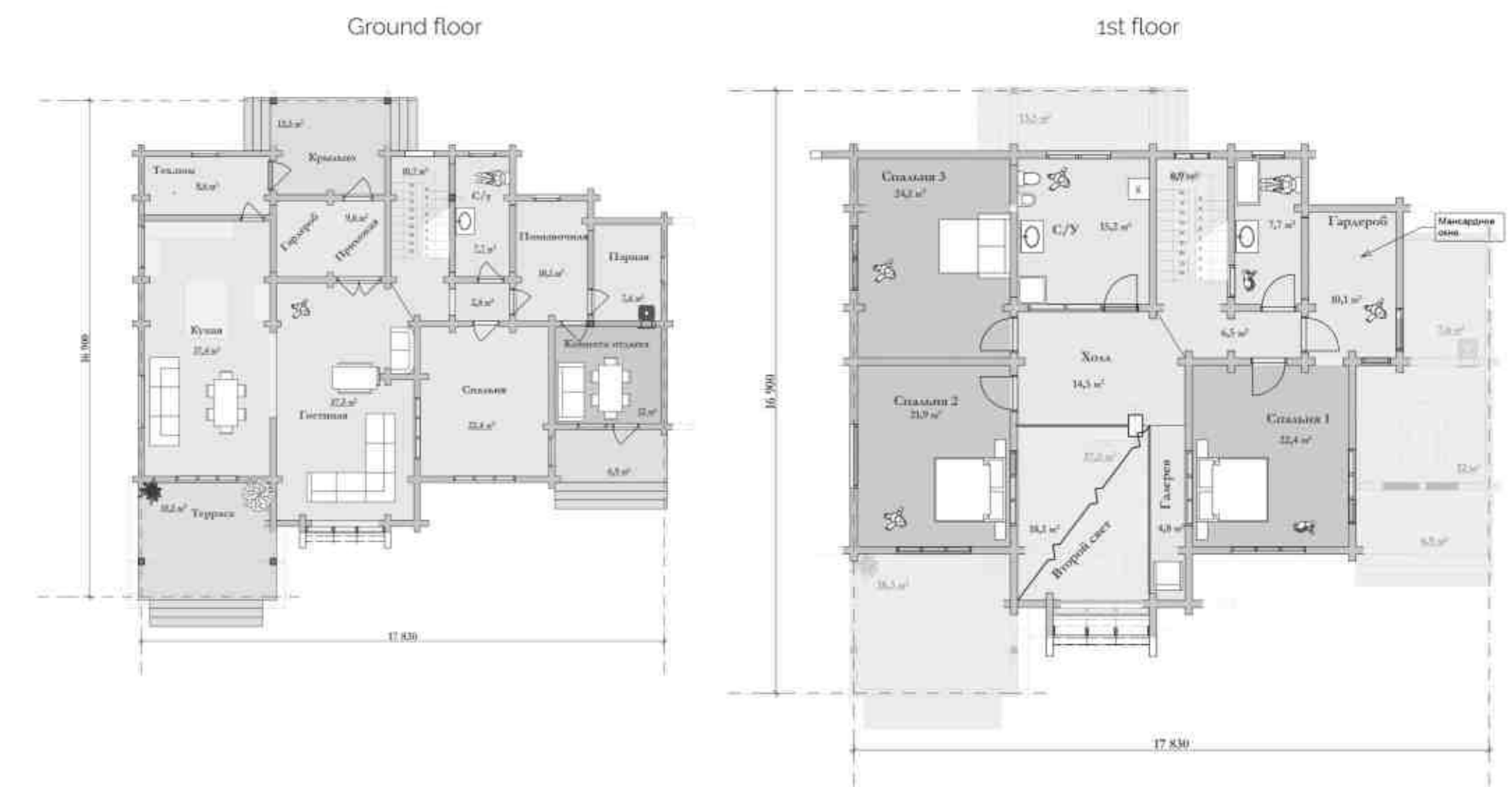
The hotel buildings were based on the Rochefort glulam house design.







Total area: 357,2 sq.m
 Ground floor area: 205 sq.m
 1st floor area: 152,2 sq.m
 Terrace + balcony area: 39 sq.m
 Levels: 2
 Bedrooms: 4
 WC units: 3

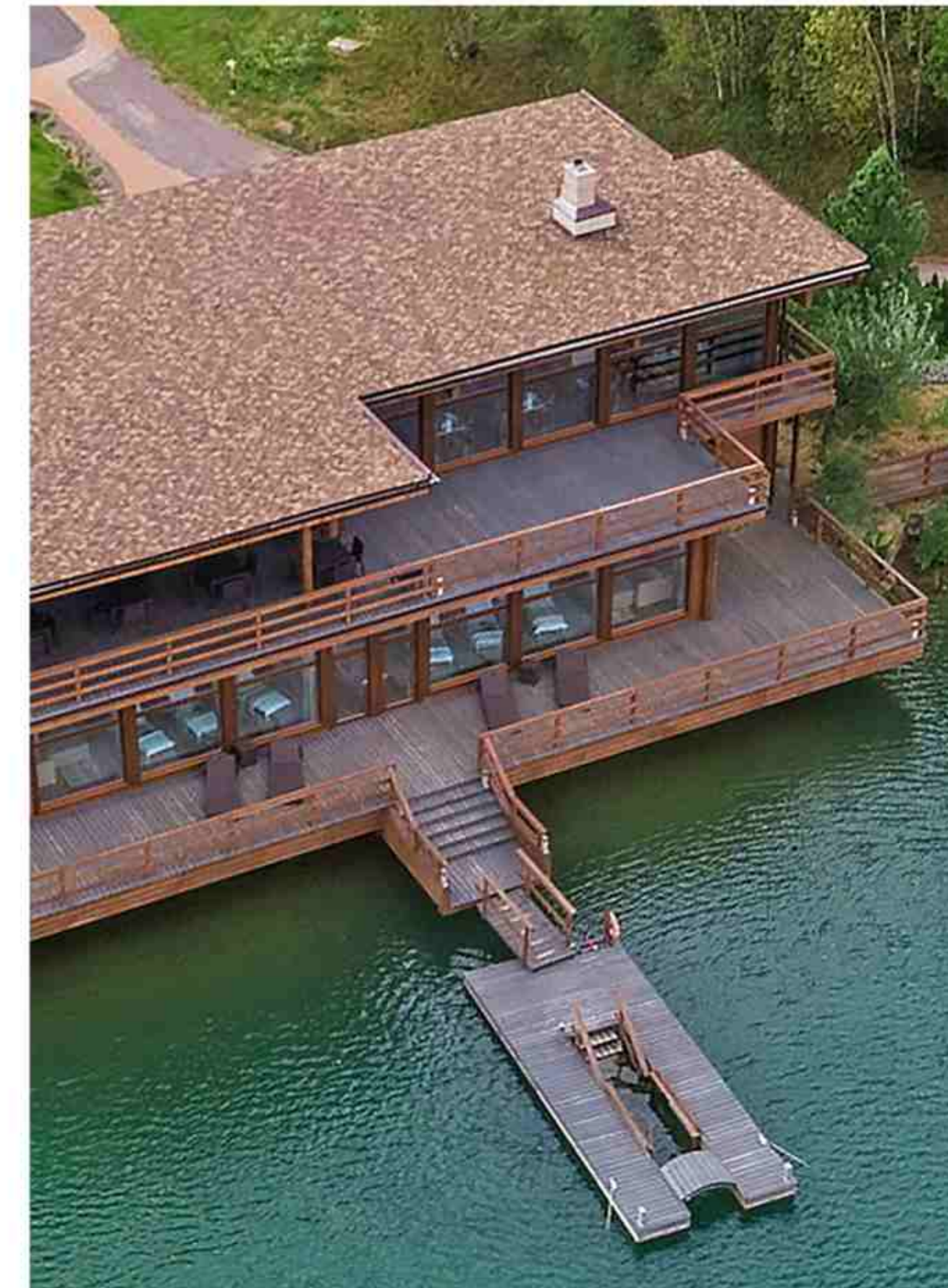


Glulam spa complex, Burrow design

A spa center with Russian steam bath, aesthetic medicine and weight loss center forms a part of Burrow shooting range facility.

This large glulam spa center blends seamlessly with the landscape on the very bank of an emerald lake.

The design is one of a kind, with meticulous attention paid to every small detail to make a visitor enjoy his or her stay in this scenic place to the fullest.









Northern wood aesthetics for your house

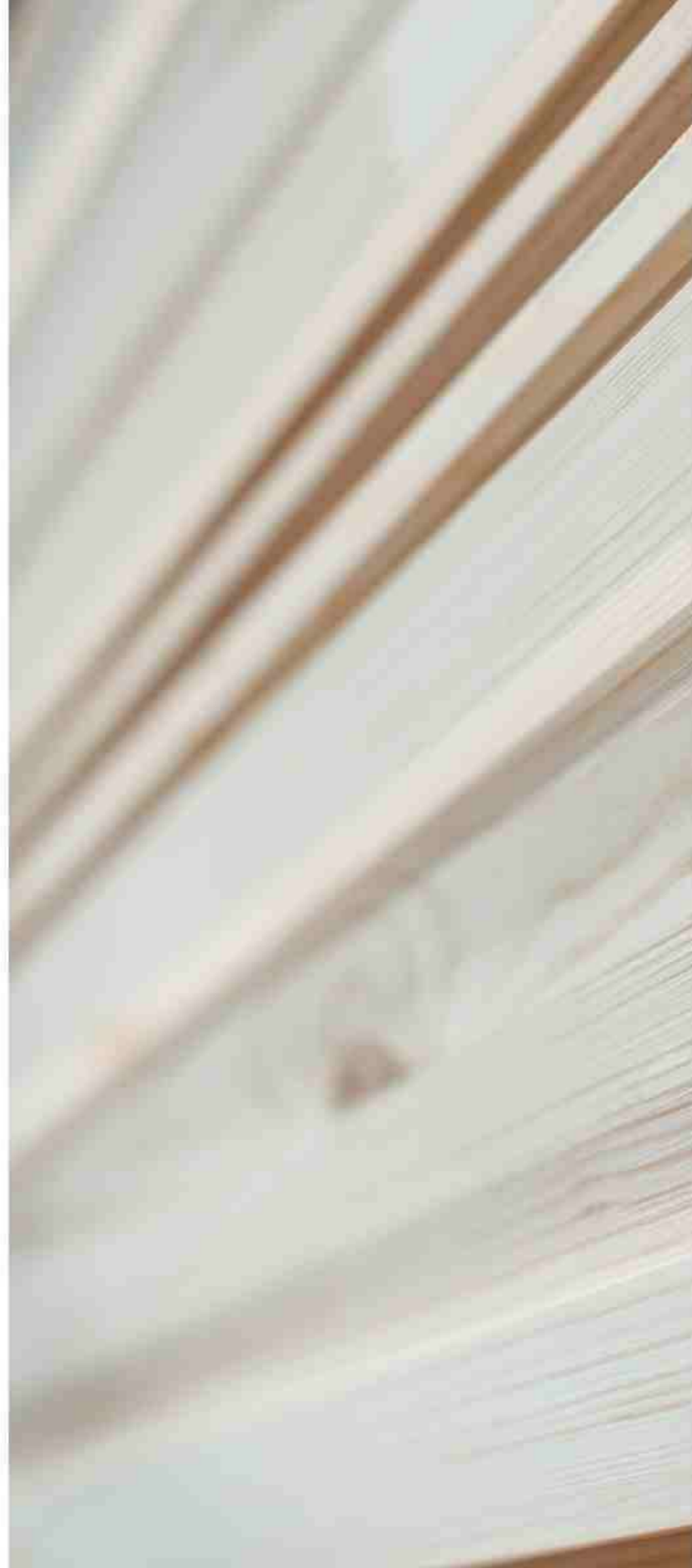
Northern pine

Pine has a varied, dense texture with low elasticity; it is resilient, resistant to biological agent attacks and has high resin content.

Pine wood grown in the Northern part of the European Russia, i.e. Kirov region, Arkhangelsk region, and Komi Republic, has extraordinary strength properties. It is surpassed in strength by Caucasian fir only. An important engineering characteristic is that resinous pine wood is resistant to fungus and mold.

Northern spruce

Spruce that grows in Kirov region, Arkhangelsk region, and Komi Republic, has good strength characteristics. It is in high demand on the markets of Germany, Austria, and Switzerland thanks to its light coloring and small sound knots. 100% of glulam beams exported to the above countries are made of Northern spruce.



Today more and more customers prefer ecofriendly natural wood housing that retains the marvelous aroma of a coniferous forest. In this regard, spruce and pine glued laminated timber is the most preferable material as it will fill the house with phytoncide to the benefit of the health and wellbeing of people who live in this house. As compared to spruce, pine has a more pronounced flavor: pinewood, even varnished, fills the house with a magical aroma of a freshly sawn tree, while pine also has natural antiseptic properties.

Pinewood structure is singularly expressive, it has an excellent-looking, yellowish shade that reddens overtime, prominent growth rings that can be highlighted for an even better look by varnish or transparent paints. Spruce glued laminated timber is more whitish, its texture is more uniform, with less pronounced growth rings for an aesthetically pleasing look if a glulam beam is more than 200 mm high.





Holz House glulam beam sections



185x242 mm

This glulam type is 20% warmer than the similar type (185x202mm) and is a preferable material for house construction in the northern areas. With walls 242 mm thick, you may rest assured that it will always be warm and comfortable inside even if the outdoor temperature is -40°C. This "north-proof" thickness also helps you reduce heating costs. Heat transfer resistance of a beam of this section is 2 (!) times as high as that of a 24 cm diameter rounded log house.



250x242 mm

This type of beam looks more "square" out of all the range of beams manufactured. Houses built from this beam sections look solid and expensive. The thickness of each row of logs is 20% higher, so that such houses are the warmest.



280x282 mm

We call this type of beam MEGABEAM! Holz House experts designed this section for super-demanding customers who require total structural reliability and maximum energy efficiency. That's why this section is perfect for extra-premium houses, public buildings (hotels, restaurants, office centers, shopping centers). Top two advantages of this section are maximum energy efficiency and structural reliability.



185x202 mm

The most widely used section, suitable for all types of low-rise construction, a sensible middle both as regards construction costs and as regards performance, as energy efficiency of this section equals that of 600 mm of brickwork.



250x202 mm

A beam for premium-grade houses. A row of logs is taller than in a house built from standard beams (185 mm), so fewer logs are required to build a house, that's why such houses look better and have better insulation properties.



280x242 mm

Holz House designed this beam for those customers who have specific demands to their wooden house. That's why this section is perfect for premium houses and priority public buildings such as hotels and restaurants. The main advantage of this section is top level energy efficiency of the finished building. These beams are used to build flawless, warm and solid houses. The 280 mm height range also includes the following widths: 162 and 202 mm.



185x162 mm

This type of beam is used mostly for country garages or bath houses where no exceptional heat insulation and soundproofing are required, or to replace wider (202mm/242mm) beams in internal (non-bearing) walls of a future house. Such approach helps cut costs and reduce the amount of material required to build a house.



250x162 mm

This section is used for interior partitions in glulam houses where the height of a row of logs is 250 mm. Such beams can also be used to construction additional utility structures or lean-tos for existing houses of equal beam height.

Glulam is stronger than solid wood, because individual slats are specifically arranged, glued and pressed together to achieve maximum strength and avoid internal stresses inherent to natural wood. These stresses eventually cause deformation (warping and twisting, radial cracks). Any deformation inevitably leads to a drop in thermal conductivity and accelerated wood deterioration. Thanks to this property, glulam house structures have a precise geometry with an increased bearing capacity.



Holz House glulam

Glulam emerged as a popular material for detached houses in Russia in early 2000s, though the glulam process itself has been known in Europe since early XX century. The rise in popularity can be attributed to changing attitudes to the quality of housing and environmental safety. There was a demand for a natural material with better performance, advanced manufacturing technology, accelerated construction and assembly. The answer was to produce a ready-to-assemble glulam house. It is true that glulam is somewhat more expensive than other wood-based materials, but the advantages of glulam far outweigh these concerns. Glulam can only be reliable and durable if it is made of high quality wood.

Holz House structures are highly energy efficient. The frame is designed so as to prevent air trapping between the rows, while "wind lock" solution makes the house virtually impervious to wind gusts. Thanks to that, heat loss is kept to the minimum, therefore, owners spend less on house heating in winter.

All glulam manufacturing processes are certified for conformity to and are performed in accordance with a set of Russian national standards (GOSTs). Temperature and moisture levels are closely monitored. Each manufactured part is tested for conformity to quality requirements in the in-house laboratory.

All grooves and notches indicated in the design are cut using Krusimatic G-1 (Switzerland), Krusi (Switzerland) and STROMAB Autoblox (Italy) CNC equipment. Master files are built using specialized licensed software KZ-Cottage (Russia) and Cadwork CAD system (Switzerland) to ensure high precision and factory readiness. This guarantees air tight joints with no need for additional finishing, quick assembly with maximum quality.



Straight-angle frame with wind lock



Slanted frame with wind lock



Dovetail (T-shaped)



Dovetail (90 degrees)



Dovetail (45/135 degrees)



Joist arrangement



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E-mail: opt@holz-house.ru

Hotline:

8 800 333 47 43 43 (toll-free for callers from Russia)

Holz House have been active in wood harvesting, advanced processing, glulam beam manufacturing and glulam house construction for over 20 years.

Holz House is a modern, top quality, environmentally friendly glulam house!

It is a house that is truly yours!

