

Your glue log house



TRADITIONS

Wood is the most ancient construction material and more traditional. People built wooden houses since ancient times. Wooden house is the most comfortable and friendly environment for the human.

HEALTH

Living in wooden house has good influence on human health. Wood is ecologically pure material. It has no pollutant emissions unlike synthetic products and concrete. Wood provides good aeration. Unique wood structure protects against noise and supports optimal oxygen balance in the air. Wooden house creates beneficial effect and reduce stress. People feel inspired and healthy there.

TENDENCY

Nowadays wood products experience their “Renaissance”. Wooden houses are used increasingly in the building sector in Canada, the USA, Japan, Great Britain, Germany, France and other countries in Western Europe from Scandinavian to Spain. They are spread in Eastern Europe and Asia.

UP-TO-DATE TECHNOLOGY

Wood is used in a new sense in house building. Old traditions and modern technology make possible producing so called “engineered wood”, profiled glued log. Manufacturing process include more than ten steps. Profiled glued log is produced of clean, kiln-dried lumber with the help of high-precision equipment. Stacked layers of structural lumber are glued under pressure in a single log. Sawn lumber has no internal stress and the log as a unit is a high strength component without fissures and warping (they have little tendency to twist, warp, shrink, or cup). The log has special finger joint profile, which provide proper joist floor matching and make ragged construction. The profile is designed so that water could not get between the logs, this eliminates putrefaction.

Profiled glued log is used as wall construction element. It is made of timber dried in special chamber under computer control up to humidity of 8 to 12 %. Glue log house is free of natural timber flaws: log deformation, fissures and shrinkage (in natural timber house the wall shrinkage averages between 10 and 20 cm per the floor during the first two years).

Glue log house is delivered as finished kit of components, ready for installation.

It may be installed all year round. There is no need in exterior and interior finishing of ready constructed house: glue log surface is even and smooth.

ECOLOGICAL ASPECTS

All the materials used in glue log houses manufacturing are of high quality and meet the requirements the European quality standards: aqueous adhesive, preservatives and antiseptic agents and insulant “Ecovilla”.

HEAT SAVING

Wooden house saves heat, providing efficient costs. The wooden wall of 220 mm thickness is the equivalent of brick wall with thickness of 900 mm. It has the same heat-insulating specifications and meets the requirements of the most standards in building.



DOUBLE PLANE WALL

This special constructed wall provides heat-insulating specifications of the house. It consists of two beam panels with insulating material between them. The log panel thickness is 72 mm, the thickness of insulating material is 120 mm. Thermal resistance coefficient of the wall is $R=4,5$ (according to the European standard). Solid wood wall with such thermal resistance coefficient is bound to be of 500 mm thickness.

Double plane wall remains valid wall as inside but outside as well. It is not frame wall edged with timber strips. As insulating material viscose fluff pulp (so called “Ecovilla”) is used. It is the timber derivate.

ECOVILLA

It is a highly effective thermal insulation material, performs heat-insulating specifications, fire resistance, excellent antiseptic properties. The price is more attractive in comparison to other thermal insulation materials. This ecologically pure product has no pollutant emissions.

The material shows high water-absorbing capacity. Ecovilla moisture is equal to environment moisture providing good aeration of the wall. Additional vapor barrier is not necessary here. The material saves heat-insulating properties under wide range of humidity. At water linkage it absorbs water is five-six times as large as its own bulk, keeping other parts of the construction of getting wet. It forms a single unit with timber elements of the house providing rodent and microbial resistance, fungicide specifications.

BUILDING ECONOMICS

Glue log house is considered to be expensive. It is not true in all cases, when comparing different building technologies from the mounting foundation to finishing.

Key advantages of glue log houses are as follows:

- There is no need in deep and heavy foundations, it is cheaper.*
- There is no need in exterior and interior finishing.*
- All the wires are put into the sleeves placed into the inner space of the double plane wall.*
- Houses are delivered as a kit of prefabricated components. The construction period does not exceed 1-2 weeks, in 3-4 months the house is ready for living.*



Our company produces as personal cottages but park homes, mobile homes, summerhouses and bathhouses of glue log as well.



In conclusion it may be said that glue log house building is evident profit for customers. We offer ecological materials, low costs for heating, small construction period, long-term life of the house and acceptable price.

Glue log house is the best customer's choice.

“LESOFABRIKA ”ECOTECH” Ltd
17/G- 501g Masherova Str.,
Minsk, Belarus 220029
Phone: (+375 17) 284 85 53
Fax: (+375 17) 284 35 85
E-mail: ecotech@tut.by
www.lesofabrika.com

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«LESOFABRIKA «ECOTECH» LTD



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