



LIGNOLIT – THE MATERIAL OF THE FUTURE

LIGNOLIT is the timber material of new generation whose production is based on an innovative technology of processing a poor-quality wood raw material to gain a product with very good strength and technological parameters, at the same time retaining aesthetic qualities of natural wood.

INNOVATIVENESS – the technology of the timber material Lignolit production, unique on a world scale, is based on processing, in the whole of its volume, a poor-quality wood raw material (poles obtained as a result of forestry – the thinning of forests and offcuts, the wood waste, the result of sawing a full-quality large-size wood material in sawmills) to obtain a product which can easily compete with other substitutes on the market of timber and construction materials. As for today, there is no other product on the world market to compare with our LIGNOLIT, with its high technological and aesthetic qualities, in terms of its versatile applicability.



Bing Thom - architect

Lignolit is an ideal timber material for building large-size wooden structures as:

- industrial facilities;
- warehouse facilities (including special-purpose facilities, e.g. chemical materials);
- entertainment and sports facilities;
- indoor swimming-pools;
- bridges and footbridges (rivers, highways).

The low costs of manufacturing as well as high technological and aesthetic qualities make LIGNOLIT unbeatable on the market of construction beams with large spans and cross-sections (up to 55 meters in length and 2000x270 mm in cross-section).



Lignolit is an ideal construction element in building the houses in the skeleton system - in the situation when this type of house construction undergoes a rapid development and has become a strong competition for traditional solutions.



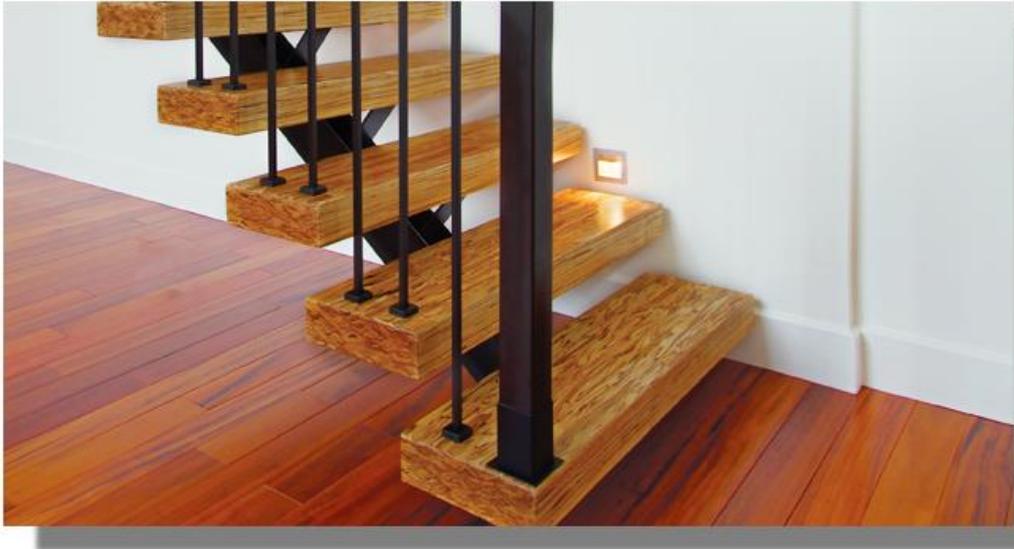


Considering its high strength parameters, its cross-sections can be nearly twice smaller than those of natural wood used at the present which affects the construction costs as well as the durability and lightness of the structure. Our timber material can be used for the construction of roofs of various types in single- and multi-family buildings as well as for bearing structures (pillars, ceiling elements, lintels, floor elements). The ease of treatment, high strength and technological parameters considerably reduce the costs of the implementation of the house investment in this technology.

The LIGNOLIT advantage which cannot be overestimated is its durability and dimension stability, both being as a result of depriving wood, the chief material in the process of production, of all of its faults (bundles of fibers, knots and other faults lowering strength parameters). The timber materials manufactured of LIGNOLIT delivered to the building site are dimensionally stable, are of high technological and strength parameters and can be impregnated both antifungally and with reference to fire protection.



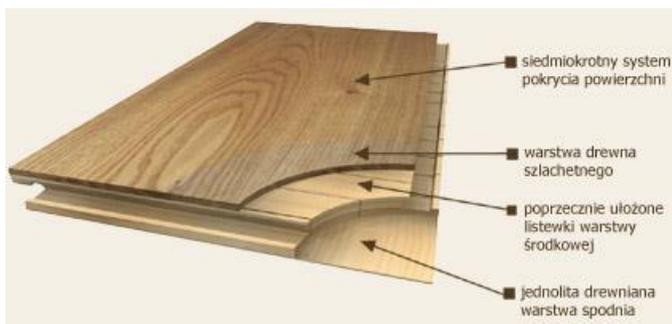
Lignolit can be very useful as an intermediate product in the production of stairs, both in its basic form and as a refined product by gluing a decorative facing of a noble sort of wood.



LIGNOLIT can be used as a so-called blockboard, a construction element in furniture manufacturing.



The timber material Lignolit, at the changed production parameters, can be used in the manufacturing of floor panels on the basis of natural wood as a panel-stabilizing element.



LIGNOLIT is a wood material

which is capable of revolutionizing the market of wood and construction materials.



LIGNOLIT in the future

COMPETEIVNESS OF LIGNOLIT in numbers

Lignolit is the timber material which can easily compete with many substitutes functioning on the market of wood and wood-base materials.

From an economical point of view, the most lucrative Lignolit market is the market of large-size beams – the construction of large spans. At the moment these beams are created on the basis of old technology which has not changed for many years. In Poland, it is the so-called Cierpicka beam which is formed as a result of saving large-dimension timber, cutting-out of defects (knots, fissures) and side-gluing on the basis of micro dovetails, forming a lamella and a repeated gluing of lamellas at the height.

The cost of production of 1 m³ of the Lignolit material on the basis of innovative technology which we are both the creators and owners, ranges from **228,00 ÷ 238,00 €**.

The cost of the Cierpicka large-size beam is in the range of 550,00 ÷ 840,00 €. In connection with the above, the price of the beam created on the basis of Lignolit will be a result of the marketing research and not a resultant of the calculation of the production costs.

The most interesting Lignolit ready market will be the market of construction materials.

1. Three-layer scantling for the needs of wood joinery - the selling price of 1 m³
416,00 ÷ 524,00 €
2. The sizing used for timber BSH constructions: the selling price of 1 m³ - 440,00 €

The industry manufacturing floor paneling on the basis of natural timber is greatly interested in our material (in Poland – the company Barlinek S.A. who want to use our material as the stabilizing layer in the filling of the panel). The cost of manufacturing of 1m³ of the Lignolit material meeting the technological and strength conditions amounts to **130,00 €**, while the cost of competitive material amounts to 240,00 €. The yearly demand of one factory amounts to 60.000 m³.