

## Trustworthy partnership

Dendrolight Latvija Ltd. is the first and the only licensed DendroLight® material manufacturer in the world.

Dendrolight Latvija Ltd. is part of privately owned Group of Latvian enterprises that occupies more than 12 000 m2 of production area and has been successfully operating in European markets for more than 20 years.

## Hi tech of wood processing

Innovative approach to wood engineering and continuous product research secures the most advanced manufacturing process and top quality production standards.

## ECO responsibility

Dendrolight® Latvija is taking ECO responsibility to another level by producing environmentally friendly products with CO<sub>2</sub> neutral (++) and ultra energy and resources saving approach.

## Convenient logistics

Dendrolight Latvija plant is situated in Ventspils, Latvia, which is one of the main transit centers in Eastern Europe, providing convenient sea, rail and road logistics.

Let innovative technologies enrich your life  
with the best qualities of wood.



DendroLight® middle layer  
DendroLight® 3-layer panel  
DendroLight® door blank  
DendroLight® building block  
DendroLight® acoustic panel

Wooden windows  
Doors and facades  
Sliding systems  
Carpentry and furniture  
Modular houses  
Construction

Insulating glass production



MORE THAN WOOD

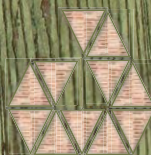
[www.dendrolight.lv](http://www.dendrolight.lv)  
[www.ekomajas.lv](http://www.ekomajas.lv)  
[www.arbo.lv](http://www.arbo.lv)

DendroLight®  
BUILDING BLOCK

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# DendroLight®

DendroLight® is unique solid wood material that grants extra lightness and stability to natural solid wood.

The key feature of the material lies in the manufacturing process of the DendroLight® middle layer which is made of unique spruce, pine or aspen tree profiles. The profiles are glued together in perpendicular angles forming DendroLight® middle layer block, which can then be band sawed into middle layer sheets.

## MAIN MATERIAL ADVANTAGES

- **Reduced weight** (270 - 477 kg/m<sup>3</sup> for middle layer; 360 - 477 kg/m<sup>3</sup> for panels)
- **Low swelling characteristics** (down to 0,5%, depending on thickness and type of deck layer)
- **High stiffness** (low E-module: 25 mm 2290 N/mm<sup>2</sup>; 60 mm 1240 N/mm<sup>2</sup>)
- **High and homogeneous surface stability**
- **No internal tensions** (if not created by deck layers)
- **High internal bound** (0,44 N/mm<sup>2</sup>)
- **Good screw hold characteristics** (760-950 N/mm<sup>2</sup> for surface; 530 N/mm<sup>2</sup> for side )
- **Comprehensive strength** (2 N/mm<sup>2</sup>)
- **Low glue content** (4 - 5%)
- **Cost effective logistics and storage**
- **Easy processing**
- **Environment friendly material**



# Building Block

DendroLight® Building block represents new construction concept. It is light, easy, natural and strong. It allows replacing different kinds of construction materials with single DendroLight® concept that shortens construction time lines and decreases expenditures on labour costs.

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## GENERAL TECHNICAL DATA

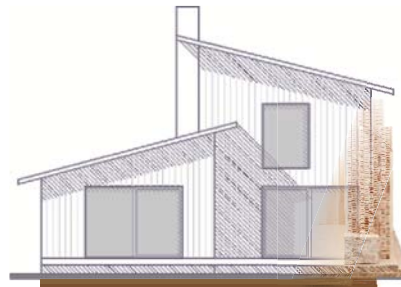
DendroLight® Building block is made of DendroLight® middle layer block and solid wood or plywood decking.



Building block combines such properties as light weight (~330 kg/m<sup>3</sup>), tremendous strength and good heat and sound insulation.

Standard formats (mm)

|                |                              |         |
|----------------|------------------------------|---------|
| Width          | 1300                         | 650     |
| Length         | 3000                         |         |
| Thickness      | 72-112 mm + deck (18mm-25mm) |         |
| Deck materials | solid wood                   | plywood |



# Application

DendroLight® building blocks are well suited for:

- Floor – ceiling panels
- Internal and external wall elements
- Roof panels



## ALSO AVAILABLE:

- DendroLight® Middle Layer Material
- DendroLight® 3-Layer Panel
- DendroLight® Door Blank
- DendroLight® Building Block
- DendroLight® Acoustic Panel

For additional information contact your local DendroLight® area manager or distributor listed on our official web site

[www.dendrolight-latvia.com](http://www.dendrolight-latvia.com)