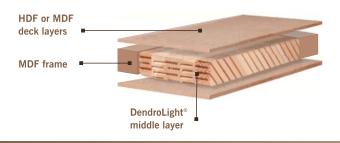






PRODUCT





DendroLight® door blank represents fresh concept in the door industry. It is a lightweight solid wood door blank with unique DendroLight® middle layer (ML) in thick MDF frame sandwiched between two HDF or MDF deck layers.

The manufacturing process of the DendroLight® middle layer secures reduced blank weight and superior stability - two key elements for manufacturing high quality door.

General technical data

Standard formats (mm)					MAX formats
Height	2080				4080
Thickness	40	50	60		80
Deck layer (DL)	MDF	HDF	magnesium		
DL thickness	3	4	6	8	
Edge material	MDF (30 mm)				
Width	855	905	955	1005	

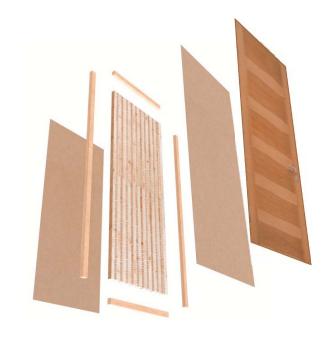
MDF middle density fiber boardHDF hard density fiber board

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

www.dendrolight-latvia.com

Main product advantages

- DendroLight® door blank is light, allowing easy handling and exploitation also with extra-large sized blanks.
- DendroLight® door blank provides stability, it will not swell, wrap or bend, because of its homogenous internal structure.
- Homogeneity of DendroLight® door blank secures extra rigid dimensions which allows for fine finishing materials to remain in their original quality.
- DendroLight® door blank is environment friendly product, providing one of the greenest solutions for composite doors in the market.





TECHNOLOGY









DendroLight® middle layer technology

DendroLight® middle layer material is made of unique spruce, pine or aspen tree profiles, which are glued together in perpendicular angles forming DendroLight® middle layer block, which is then band sawed into middle layer sheets.

The unique DendroLight® profiling technology reduces weight of a solid wood by 40% reaching as low as 250 kg/m³ and minimizes internal tensions of a wood.

In the gluing process PVAc (D3/D4) or EPI is used, with total amount of glue in the material not exceeding 5%. Therefore DendroLight® middle layer material is highly natural product at the same time providing good sustainability to external environment.

The unique DendroLight® glueing, pressing and sawing processes grant extra stability, homogenity and rigid dimensions to the material. These qualities are then complemented with extra strength in the process of material decking.

DendroLight® middle layer is coated from both sides with deck layers of plywood, MDF, HDF or any other type of plate material required, providing wide range of quality DendroLight® products.



PATENT & AWARDS

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

The material has won the following awards:





DR WOLFGANG HOUSKA PREIS 2007

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



PROCESSING

Processing



There is no need for special equipment to process DendroLight® door blanks. They can be processed as easy as plywood, MDF or HDF.

Cutting, routing, drilling and sanding can be performed using traditional tools on DendroLight® door blanks. Surface routing of the panel edges must be done with suitable routing tools.

Veneering & mounting

Veneering or laminating of DendroLight® door blanks is possible with all conventional bonding systems. Pressing guidelines differ, according to the glue that is used to fix deck layers:

GLUE TYPE used in blank processing	PVAc	EPI
MAX pressure t°	80°	120°
MAX pressure	4 kg / cm²	4 kg / cm ²

DendroLight® door blanks can be mounted with average screws and they show very good screw hold characteristics:

Drafting values for screws (4 mm Ø, 40 mm deep)	
On a surface & side	800 N average

Transportation and storage

Transportation and storage of DendroLight® door blanks always must be done with respective care. Always carefully inspect incoming deliveries and use appropriate unloading equipment (fork lifts or other).

DendroLight® door blanks must be carefully covered to avoid soiling and soaking during transportation, storage and processing. Recommended storage temperature of the blanks is 18-22°C, with 60-65% of relative humidity.



DendroLight® door blanks must be stored on leveled ground on wooden supports or pallets with frequency that does not allow blank bending. Always use cover sheets while storing the blanks in a warehouse. If several blanks are placed on top of each other, wooden supports must form a vertical line.

If material is not stored in recommended conditions sufficient acclimatization period is required.

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

www.dendrolight-latvia.com





APPLICATION

Quality lightweight solid wood doors

DendroLight® door blank is well suited for traditional and modern design doors or interior elements. The main advantage of the blank is its **lightness** that tolerates large sized designs and makes the blank easy to process and mount.

Stability - homogenous internal structure of the DendroLight® door blank secures the door leaf from swelling, wrapping or bending. Homogeneity of the blank also ensures that the fine finishing materials always remain in their original quality.









THE FACTORY

Hi tech of wood processing

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

DendroLight® is manufactured on the leading wood processing equipment from **WEING** combined with Austrian built machinery developed by pioneers and experts of the material **DendroSolutions GmbH**.















Autonomic energy

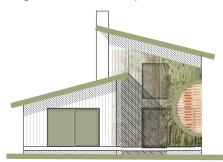






Development

Current annual production capacity of the Dendrolight Latvija plant is 90 000 m². The next phase of expansion is being carried out by constructing and equipping additional 8000 m² of manufacturing area for further DendroLight® product developments, advancing in greater variation of 3-layer and door panel sizes, wider spectrum of deck materials and DendroLight® building constructions concept.







DENDROLIGHT LATVIJA



Trustworthy partnership

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 sucesfully operating in European markets for more than 20 years.



www.dendrolight.lv



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



www.arbo.lv

- Wooden Windows
- Doors and Facades
- Sliding Systems
- Carpentry and Furniture
- Modular Houses
- Construction
- Insulating Glass Production



Convenient logistics



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









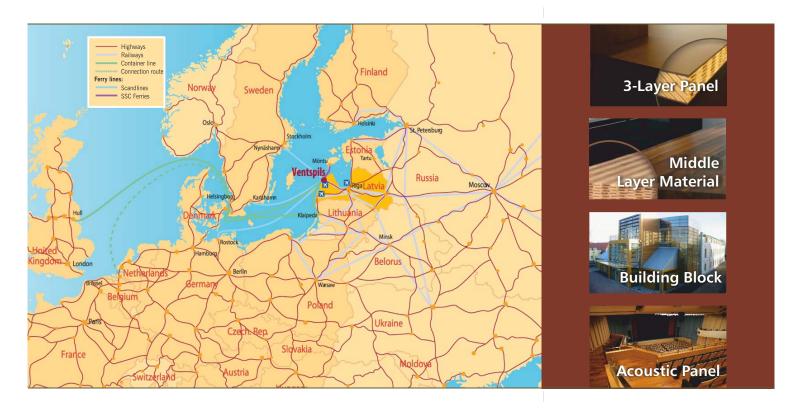
1 = 1,4 with DendroLight®

Taking ECO responsibility to another level:

- FSC Certificate
- CO₂ neutral (++)
- Autonomic heating system powered by wood chips
- Ultra energy-saving aspiration system
- Environment friendly products
- We process northern pine right where it grows
- We conserve natural resources by making more out of less







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