



LOTUS TIMBER: TIMBER PROCESSING AND TREATMENT



LOTUSTIMBER

RELIABLE QUALITY AND PRODUCTION FROM ONE PLACE

The team of professionals at Lotus Timber have extensive experience in the further processing and treatment of timber.

Lotus Timber offers a streamlined and efficient production process, from kiln drying, planning, precision cross-cutting and packaging, through to timber preservation and fire retardant treatments, all being supplied directly from our own modern and purpose built facility. With each process being in-house, we maintain flexibility and quality standards to be rivaled in the Timber Industry, making Lotus Timber a valuable and reliable partner to our clients.

We offer timber preservation and treatments using our four Autoclaves, in accordance with NTR, EN, BS, CTB P+, COMO, along with other recognized Industry Standards.

The annual treatment capacity through our four Autoclaves is more than 100,000 m³, our planning facility in excess of 80,000 m³ and a kiln drying capacity of 35,000 m³.

Lotus Timber - A strong and reliable Partner.



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WE CARE FOR TIMBER AND NATURE

Timber treated by Lotus Timber is well suited for both domestic and industrial use, with the entire process being environmentally friendly.

We use ecological wood preservatives in our treatment processes which, when correctly specified, will significantly increase the durability of Timber and enhance its best properties.



OUR PROFESSIONAL TECHNOLOGIES

All wood processing technologies used by Lotus Timber focus on providing our clients with products which will give as long a service life as possible and to the best quality.

We are the only wood processing company in the Baltic countries offering advanced fire retardant treatment.



WOOD TREATMENT

We offer timber preservation and treatments using our four Autoclaves, in accordance with NTR, EN, BS, CTB P+, COMO, along with other recognised Industry Standards.

The dimensions of each of our autoclaves are:

- 21 meters (diameter 2.6 m)
- 16 meters (diameter 2.0 m)
- 14 meters (diameter 2.0 m)
- 14 meters (diameter 2.0 m)



TIMBER TREATMENT WITH VACSOL AQUA WOOD PRESERVATIVE

Vacsol Aqua is the ideal treatment for non-ground contact used, such as Cladding and Roofing Battens.



TIMBER TREATMENT WITH TANALITH E WOOD PRESERVATIVE

Using Tanalith E, we are able to treat timber products for use in construction, fencing and garden leisure building, alongside industrial elements such as Transmission and Communication Poles.



TIMBER TREATMENT WITH TANATONE WOOD PRESERVATIVE

Timber treated with Tanatone is ideally suited for use in fencing or landscaping. During treatment, a brown colorant is added to the wood preservative.

The production of our Transmission and Communication Poles is certified to the standard of EN 14229:2010 CE-Certificate nr 1116-01.



ANTIBLU™ SELECT: AN ECONOMIC, COLOURLESS WOOD PRESERVATIVE

Antiblu Select is a tried, tested and proven preservative designed to provide short term protection to freshly harvested and sawn timbers. Antiblu Select protects against the threat of surface moulds and blue stain. These organisms can affect the appearance of sawn timbers during drying and storage and seriously reduce its commercial value.



TIMBER TREATMENT WITH A FIRE RETARDANT

Lotus Timber is the only wood processing company in the Baltic countries offering advanced fire retardant treatment. We treat timber with Dricon fire retardant, which conforms to Euroclass B and Euroclass C requirements of European standard EN13501-1. Our autoclave for treatment with fire retardant is 14 meters long and has a diameter of 2 meters.



WOOD DRYING

At Lotus Timber we have eight kilns where we can dry softwood and hardwood to a moisture content of 8-18% (± 2%). We are also able to provide a heat treatment service. All material used in our packaging is HT 56/20.



TIMBER MANUFACTURING

Our planning and sawing facility is made up of

- Integrated planing and sawing line, comprising of a Weing Hydromat 23, linked with a twin re-saw Waco/Weing BKL;
- Waco WEINING BKL TWIN high speed planer;
- BKG 1100A bandsaw for cut to size, centre cutting and angle cutting 0-45°.



WOOD PAINTING

Industrial coating provides protection to wood used both indoors and outdoors. Coating prevents rapid uptake and loss of moisture and reduces shrinking and swelling that can lead to surface cracking and other problems. Coating with solid color or pigmented stains protects wood against ultraviolet rays and slows aging process.



LOGISTICS

Lotus Timber is located in Tallinn and as such finds itself at the intersection of all forms of transport, road, rail and sea. We are able to offer a collection and delivery service for service treatment of timber.

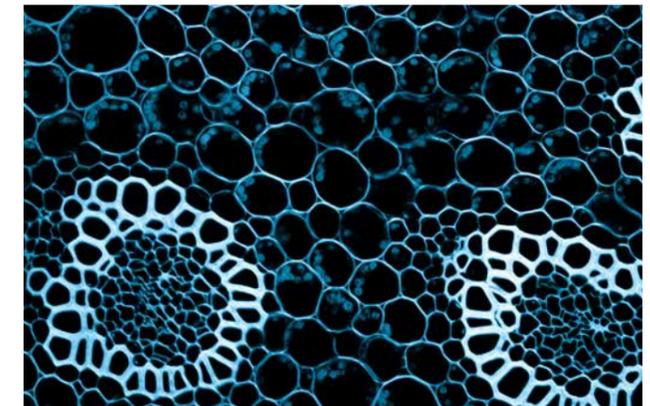


SALVADOR SUPERPUSH 250

Our optimising crosscut saw, Salvador SuperPush 250, is able to produce pre-cut items such as, claddings and structural components, ready for use by element or modular house producers. With this service, clients are able to use our products immediately upon arrival at their facility. A real benefit the fast-moving world of today.

Salvador technical data

- Saw Blade diameter: 500/550 mm
- Maximum cutting capacity: 270 x 120 mm
- Maximum length: 6,2 m
- Cutting accuracy: ± 0.5 mm



ANALYSES

We carry out wood impregnation and impregnation solution analyses.



WE OFFER THE MOST ADVANCED WOOD PRESERVATION



The quality and durability of timber depends on the correct choice of wood preservative. In order to increase the durability and to enhance the various properties, Lotus Timber uses the best available scientific technology to treat timber. We offer treatment according to client requirements, based on the prevailing standard in different countries, such as CTP, TIM, EN etc.

ENVIRONMENTALLY FRIENDLY PROTECTION

Lotus Timber uses industry recognised products from Arch Timber Protection (an international market leader in Timber Preservation) which offer full protection for various species of wood against fungal decay and insects. As many of our treated products are taken back to nature, in the countryside, forest and gardens, we use the environmentally friendly Tanalith E 3475 wood preservative, which is an efficient alternative to Creosote oils.

Lotus Timber is the sole representative of Arch Timber Protection in Estonia.

SOME EXAMPLES

Tanalith E is a very efficient and reliable wood preservative applied by vacuum pressure. It is ideal to be used for fences, terraces, garden houses, playgrounds and communications/transmission poles. In addition it gives timber an excellent colour resistance in external conditions. Tanalith E has been approved in more than 30 countries worldwide and it has been thoroughly tested in both laboratory and external conditions.

Tanalith E Creol is a durable dark brown treatment for outdoor timber structures. Timber which is pressure treated with this product acquires an even and rich dark brown colour with excellent resistance. Excellent water repellent properties enhance the weathering protection and improve dimensional stability. The top layer bonds with the wood structure and is leach resistant. Tanalith E Creol protects the timber against insect attack and also against fungal rot to give a long service life.

Timber treated with **Tanatone** colour additive is ideal to be used in a fencing or landscaping application. This additive is perfect for rough sawn fencing timber and it eliminates the need for brush applied colour at the point of installation. For best results timber should be clean, dry and not influenced by weather conditions.

Dricon fire retardant treated material is material which has been impregnated with DRICON fire retardant under controlled conditions in a vacuum pressure timber impregnation plant, followed, when required, by kiln drying to return the material to an acceptable or specified moisture content.

Antiblu Select is an advanced waterborne timber treatment formulation. It is based on biodegradable ingredients and provides a good and economical protection against sapstain which is the main reason for discoloration and mould fungi in freshly felled or wet cut sawn timber.

In these circumstances, Antiblu select can assist in avoiding big value losses due to discoloration and fungal presence.

Ensele is a brush-on, end-grain wood preservative for the re-treatment of cross-cut, notched or bored pressure treated timbers.

Vacsol Aqua is waterborne wood preservative, which is applied to timber using a low-pressure double-vacuum method and which gives an external protection layer to general construction and joinery timber.



DRICON FIRE RETARDANT PRODUCTION PROCESS

Dricon treatment process is project based. Impregnation with the Dricon solution is via a vacuum-pressure treatment procedure. Following the treatment process, material has to be dried back to 18% +/-2%

In certain circumstances for interior application, material may have to be kiln dried to 8% +/- 2%. The process of Dricon Treatment is a lengthy one and can take up to 6 weeks. Production of Dricon Fire Retardant Timber is strictly controlled and monitored to attain CE Declaration of Performance.

After the treatment process is completed, Lotus Timber gives a certificate CE Declaration of Performance and CE-marks each product covered by the Certificate.

Surface Coatings

For exterior end uses, Dricon treated material with exposure to constant wetting, must be protected with a recognised and well maintained coating.

A recommended paint for external coating is semi-transparent Teknos Drywood Firestain, which does not detract from the fire performance of Dricon Treated Timber.

For alternatives please consult with our Dricon technical team who can advise you further on suitable surface coatings.

DRICON FIRE RETARDANT WOOD PRODUCTION AND CERTIFICATION

Lotus Timber uses the DRICON fire impregnation process under the controls of notified body 'SP Technical Research Institute of Sweden' and is allowed to CE mark DRICON treated products according to EU standards:

EN 14915:2013 - solid wood

Solid wood panelling and cladding - "Dricon® Fire retardant treated timber"
certificate No 0402 - CPR - SC0483-14

Solid wood of spruce (whitewood)
Thickness and density range
12-75 mm, 357-600 kg/m³
Fire class - **B-s1,d0**

Solid wood of pine (redwood)
Thickness and density range
12-100 mm, 417-755 kg/m³
Fire class - **B-s2,d0**

Solid wood of larch
Thickness and density range
18-65 mm, 616-867 kg/m³
Fire class - **B-s2,d0**

EN 13986:2004 - plywood.

Wood-based panels for use in construction - "Dricon® Fire retardant treated plywood"

Certificate No 0402 - CPR - SC0484-14
Birch Plywood
Thickness and density range
12-25 mm, 613-713 kg/m³
Fire class - **B-s1,d0**
All plywood should be EXT





SAWN TIMBER

Lotus Timber only uses Nordic sawn timber (Nordic Timber) in the production process. Nordic Timber helps to guarantee an even quality within different batches from different suppliers.

Nordic sawn timber is known for:

- a lasting quality;
- stable wood properties;
- maintaining moisture levels within prescribed limits;
- a broad range of types suitable for different fields of production from pallets to furniture.

We also offer air-dried and dried sawn timber from Russia. The Russian range provides a larger selection of longer lengths. The length range of 5.1 – 6.0 m is perfect for production companies and wooden house producers since it helps to create large surfaces without having joining points in timber.

All Lotus Timber's timber materials are managed 100% according to the FSC® C107785 certificate.

DECKING BOARDS

Production of our Decking boards is from centre cut material, mainly using Pine, but Spruce can also be used. For added durability, we are able to provide Decking boards in Larch.

We are able to provide preservative treatment in both standard Green colour and in Tanatone Brown. Processing in our own Autoclaves, we use a vacuum-pressure method to the desired service life requested by the customer.

Details:

- common choices for cross-sectional dimensions are: 28x95, 28x120 and 28x145 mm;
- you can choose between smooth or grooved boards.

TERRACE MATERIALS

We offer terrace materials with various profiles, with brown or green treatment, with sizes 28 x 95/120/145.

In addition we offer terrace material of made of larch with sizes 28 x 95/120/145.

Uses for Lotus Timber Decking:

- Balconies and garden terraces;
- Jetty and boat moorings;
- Beach promenades and boardwalks;
- Swimming pool surrounds;
- Non-residential and Community areas.

Our decking boards are suitable for many application, from domestic gardens to more demanding natural environments.



The mark of responsible forestry



CLADDING AND MACHINED TIMBER PRODUCTS

Our Cladding and machined timber products are from Spruce and Pine, with some high-end applications demanding Larch. Lotus Timber uses raw material from Estonia, Finland, Sweden and Russia's northern regions. Our raw material is chosen for the slow rate of growth and dimensional stability.

We offer a wide range of sizes in Cladding and machined timber products, both for internal and external applications.

Examples of our timber products:

- Planed and fine sawn Claddings;
- Square planed sections;
- Large sizes;
- Constructional & Strength Graded timber;
- Mouldings, fillets and bespoke products.

Exterior wainscoting panels:

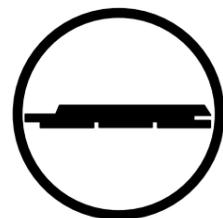
height: 18-28
width: 95-195

Internal lining:

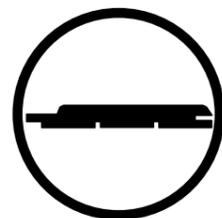
depth: 12-15 mm
width: 95/120/145 mm

INTERNAL LINING

STV 12x95 /120
planed surface

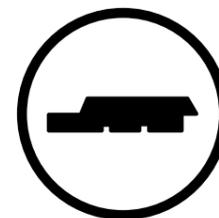


STP 12x95 /120
planed surface

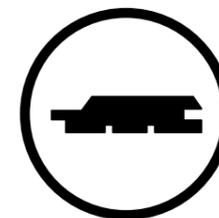


EXTERIOR WAINSCOTING PANELS

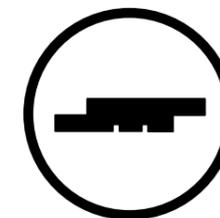
UYV 18x95 /120/14/170/195
fine sawn surface /
planed surface



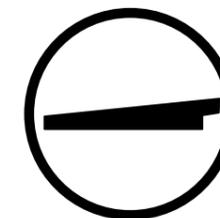
UTV 18x95 /120/145
fine sawn surface /
planed surface



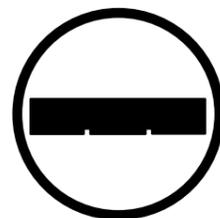
UYS 18x95 /120/145
fine sawn surface



UYL 18x95 /120/145
fine sawn surface



SH 18x95 /120/145
fine sawn surface /
planed surface





Timbeco Woodhouses in Pestikuja, Finland

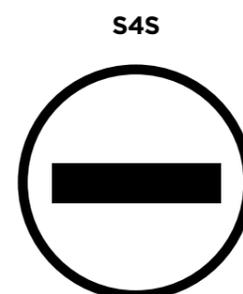
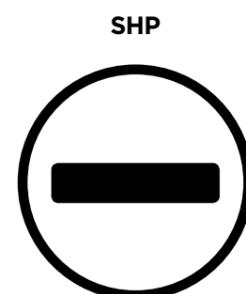
STRENGTH GRADED TIMBER

The need for high-quality and durable frame materials has increased in production as well as in the construction sector. Based on the market demand we can offer visually strength graded and calibrated timber material with strength classes C24 and C18.

Our main material sizes:

45x70	45x145	45x220
45x95	45x170	45x245
45x120	45x195	

We always have sufficient quantity of surfaced timber in stock to offer our clients uninterrupted service and delivery. To ensure the best quality we dry and pre-grade all our raw material before surfacing.



INDUSTRIAL TIMBER PAINTING

Industrially painted cladding boards are a huge help to constructors and clients if working speed is high. Lotus Timber offers industrially primed and painted cladding boards for internal and external finishing.

Timber is primed and painted as quickly as possible after surfacing to ensure maximum bonding of paint on the surface of the board. Boards are finished from three or four sides,

as required. As a standard finishing solution we recommend to our clients an initial priming layer plus two paint layers to give the board the longest possible service life. If required we can also give you advice regarding installation. All materials can be ordered from Lotus Timber with fire resistance class B-s1,d0.

We use only waterborne acryl paints with colour shades from all the most common colour charts.





LOTUS TIMBER



“ Lotus Timber is one of the leading timber impregnators and processors in Northern Europe. We’ve achieved top quality and large production quantities in less than a decade. Being a top producer means working openly with our clients, being flexible, efficient and carrying out our business to the highest possible quality and Industry standards.

Aare Pilv Managing Director Lotus Timber

QUALITY

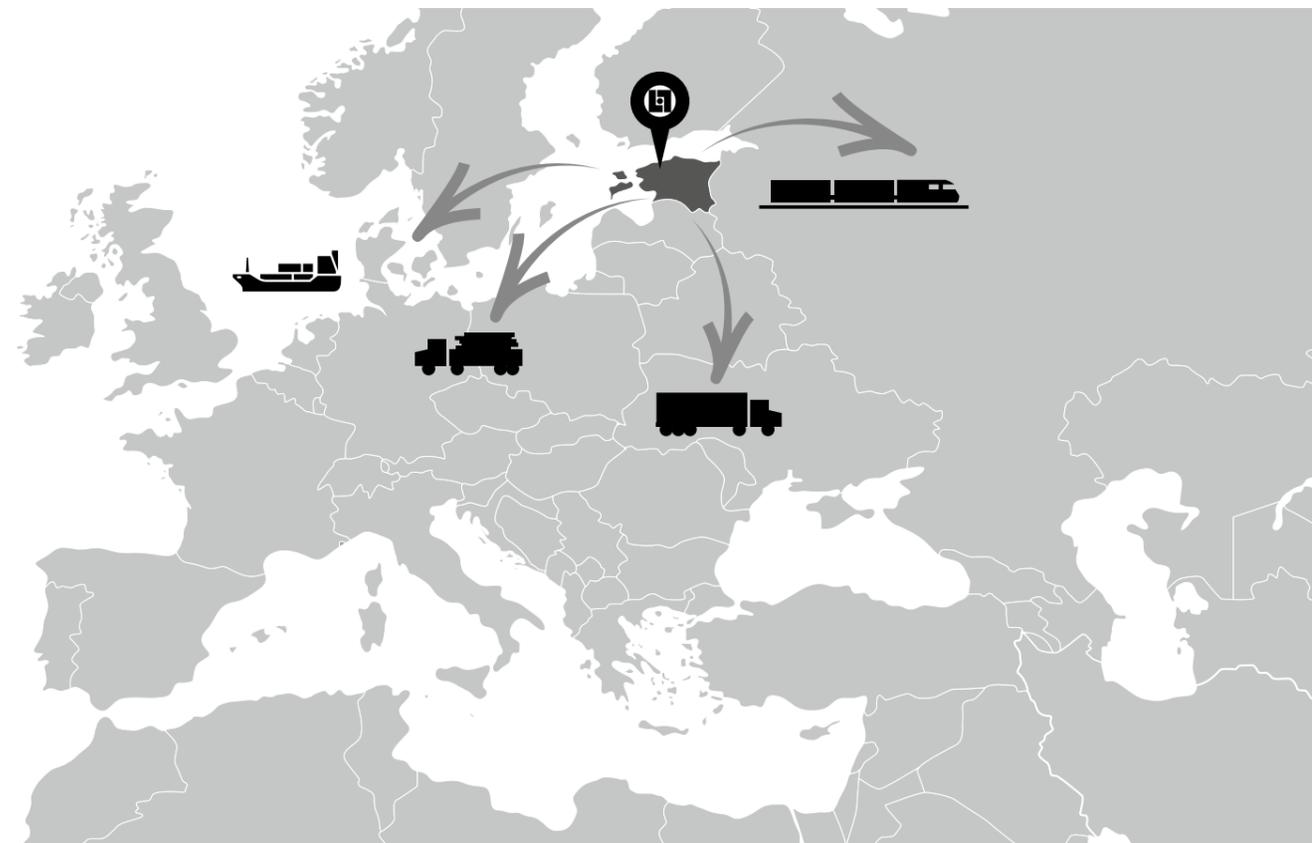
Our company follows wood protecting standards NTR A and NTR AB of Nordic Wood Preservation Council (NTR).

LOCATION

Lotus Timber is situated within close proximity of Tallinn, at Maardu, putting us at the intersection of all forms of transport, road, rail and sea. We are near to the Container Port of Muuga, close to the loading Ports in Tallinn and that of Paldiski. This gives us many options to ship to European and Worldwide Markets with efficiency and confidence.

FACTORIES

The modern and European production of Lotus Timber is located in Maardu, a suburb of Tallinn. In our facilities we can make the following products from logs: dried, surfaced, treated, painted, cross-cut or sawn poles, bars, beams and boards. Production, reception and delivery of material takes place in our factory 24/7, including public holidays.





WHAT ELSE CAN WE OFFER?

In addition to volume production of value-added material, the product and service profile of Lotus Timber also includes the following:

- Transmission and communication poles made of dense timber specially selected for manufacturing poles. The poles are treated with the best protective products and they preserve their high quality in the most severe environments. The diameter of our poles is the mean value of two crosswise diameters.
- We offer planed (serrated surface) and cut bars for bigger landscaping and garden projects.
- We sell and market sawn timber and surface timber in Estonia and internationally.
- Lotus Timber is the sole representative of Arch Timber Protection in Estonia.

Lotus Timber OÜ

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