

TANTIMBER

Wood is the part of the earth. It completely dissolves in nature and joins in the organic lifecycle without harming the environment. Therefore, the wood that is derived from sustainable forests is one of the most eco-friendly construction materials.

Wood is a renewable resource from the nature. Tantimber, with its innovative production approach, is using the latest Thermowood Technology to refine and redefine the wood to its most stable and durable form.

Tantimber is manufacturing thermally modified cladding and decking products according to International Thermowood Association standards. Our facility is established in Sakarya 2. Industrial Zone on a 10.000 m2 area. It has 11.000 m3's of Thermal Modification production capacity and consequently 420.000 m2 of end product volume.

With the updated infrastructure and it's manufacturing principles according to European Norms CEN/TS 15679, Tantimber provides high valued and durable products. Aiming the best service to it's clients with specialists in their field.





PRODUCTION PRINCIPLES

Preferring the world's top highest and sustainable raw material sources. Tantomber believes that our planet belongs to human beings and all living creatures. It is the responsibility of everyone and all institutions to take care of the sustainable natural life. Tantomber obtains its raw materials from sustainable forests to protect the natural habitat. Our products don't leave any harmful substances, and are a healthy and conscious alternatives to petroleum-based wood imitation terrace coverings and (WPC, composite) hybrid products that harm creatures and the environment.

Perfectness in physical endurance and esthetics.

Tantomber focuses on providing the maximum durability and stability expected from the product during the production phase. In the meantime, by evaluating the current esthetic trends in accordance with the requests of customers, it also gives importance to updated market trends in the global markets. The quality and esthetic values of the products are indispensable for Tantomber.

Innovativeness

By following the world wood processing industry and the architectural orientation closely, Tantomber catches up with the new technology era and brings the solutions to production agenda. By doing so, it takes the customer's suggestions, expectations, and feedbacks into consideration during the whole progress.

Naturality

Tantomber products are completely natural. From raw materials procurement to the occurrence of the final product, no chemical is used at any stage of the process. The wood protects its naturality with Tantomber's Thermowood processing technology, by being removed from resin, increasing its biological life as well as dimensional stability, minimizing the effects of humidity and consequently eliminates the rotting behavior.



Wood Before Drying

The wood contains H_2O and OH hydroxyl groups by its nature.



Conventional Drying

Conventional drying technic removes the free water (H_2O) inside the wood out of the cell.



Thermowood Process

During the thermowood process ($180-212^{\circ}C$), we take hydroxyl groups out of the wood, prevent the moisture exchange and minimize the swelling and shrinking of the wood.

THERMOWOOD PROCESS

Thermowood - Thermally Modified Timber (TMT) is the process of dehumidification and minimizing deformation behavior by increasing the internal temperature of the wood above 200°C. As a result of the decomposition of relative humidity in the wood, the products become permanently resistant to fungi and decay, offer a long term performance by it's increased durability and high dimensional stability.

Thermally modified wood does not produce harmful organisms like fungi and it does not bend or contract. Also, it is not adversely affected by seasonal conditions. By decomposing the relative humidity in the wood, TMT products become more durable to humidity, more resistant to decay and external weather conditions.

Tantimber applies the advanced processing steps in the thermal modification process and in all stages of the manufacturing phase, which are defined as high-quality standards.

Tantimber products are produced according to European technical norms (CEN/TS 15679), and they take part in the first and second class in terms of durability classes (EN 350-2, EN 335).

Tantimber's TMT process is a natural process in which no chemical substances are used at any stage. The products are completely eco-friendly, non-toxic and recyclable.

Tantimber is a member of International Thermowood Association (ITWA).

ThermoWood®

DURABILITY LEVEL	Class 1 Very Durable	Class 2 Durable	Class 3 Moderately Durable	Class 4 Slightly Durable	Class 5 Not Durable
TIME PERIOD	25 Years +	15 to 25 Years	10 to 15 Years	5 to 10 Years	Less than 5 years
WOOD SPECIES	<i>Thermowood Ash</i>	<i>Thermowood Pine</i>	White Oak	Frake	Aspen
	<i>Thermowood Iroko</i>	<i>Thermowood Poplar</i>	Plantation Teak	Red Oak	Ash
	Teak	<i>Thermowood Ayous</i>	Siberian Larch	Spruce	Poplar
		Bangkirai	Fir	Hickory	Birch
		Merbau	Movingue	Tulipwood	Radiata Pine
DESCRIPTION	Outdoor	Outdoor	Outdoor	Indoor	Indoor
	Ground Contact	Without Ground Contact	Without Ground Contact	Without Ground Contact	Dry
	Non Protected	Non Protected	Protected	Dry	
	Always Wet	Frequently Wet	Rarely Wet		

BIOLOGICAL DURABILITY

With the Thermally Modification process, Tantimber products are gaining high properties compared to conventional dried wood products, WPC and impregnated materials.

With the applied high temperature into the wood core the moisture is being released and the humidity gets fixed at 4-7% which disables Tantimber products to be attacked by wood-decay organisms, such as fungi, insects or other organisms and provides an ultimate dimensionally stable product during usage.

Tantimber Thermally Modified Products are reaching a Durability Class-1 and Durability Class-2 depending on the wood species according to the European Norms CEN/TS 15679 and EN 350-2. The durability is getting increased to min. 25 years and Tantimber products become a perfect fit for harsh condition use and at any kind of weather conditions.





TMT DECKING

TMT DECKING

Tantimber decking products have a wide range with thickness, width and profile options. Tantimber TMT decking products are carefully selected from different wood species and are obtained from sustainable resources.

With the belief that, the right product is being produced with the right raw material, Tantimber offers classy, high quality decking products with different wood species such as; American White Ash, Scotts Pine and Iroko originating from sustainable forests.

Tantimber decking products are modern, long-lasting, non-toxic, dimensional stable and functional building solutions addressing different architectural aesthetics.

TMT Decking products for; terraces, backyards, porch floorings, landscaping areas, gardens, urban areas, swimming pool decking areas are offered with many variations of surface treatments such as pre-aging, wire brushed surfaces, ready 6-side oiled products –ready to install; and as well with it's alternatives of clipping systems and end-matching solutions.



PRODUCTS

TMT DECKING

ASH DECKING

ASH DECKING

Tantimber TMT Ash Decking products, obtained from sustainable forests in Northern America, provide the possibility to be used in different thicknesses and widths.

TMT Ash Decking products offer a wide range of profiles that can be used comfortably in extensive pedestrian traffic areas such as pool sides, public areas, shopping malls, landscaping, etc.

With its provocative brown colour and its beautiful grain structure obtained directly from the nature, TMT Ash Deckings are becoming the best option for nature lovers who dream about a long lasting performance for their decking area.

Ultimate performance, long lasting, sustainable and remarkable are the right definitions for TMT Ash products.

Thermowood Deckings offer many benefits with ease of installation provided by Tantimber's hidden fastener solutions.

TMT Ash is placed in the Durability Class-1 according to European Technical Norms and provides a minimum biological durability of 25 years according to CEN/TS 15679.

Origin North America

Botanical Name Fraxinus Americana

Biological Life: Minimum 25 years

Durability Class 1





TMT CLADDING

TMT CLADDING

Cladding products add a substantial value-adding to the buildings. Tantomber claddings, increase the value of buildings with it's breathable, natural and healthy structure while providing high thermal insulation properties as well. As a decorative tool, it is considered as the main or complementary cladding element in many architectural solutions.

Thermally Modified Timber (TMT) products are the most durable wood products in outdoor weather conditions. Tantomber Thermowood claddings are manufactured from Ash, Pine, Tulipwood, Ayous and Iroko species with various profile and dimension options both in thickness and widths. TMT Claddings are suitable both for horizontal and vertical use and are also offered with special designed hidden fastener solutions provided by Tantomber for those who don't prefer to see any mount faced screws.



PRODUCTS

TMT CLADDING

ASH CLADDING

ASH CLADDING

Being totally knotless, the ash has a superior visual appearance due to its fancy brown color and grain structure originating from the nature. Tantimber TMT Ash cladding products are providing a high esthetic appearance while the high dimensional stability properties of TMT Ash encourages home and projects owners to create the aimed visuality.

Tantimber Ash cladding products take part in the Durability Class-1 according to European Technical Norms CEN/TS 15679, offer a service life of 60 years depending on the climate conditions.

Origin North America

Botanical Name Fraxinus Americana

Biological Life Minimum 25 years

Durability Class 1



CLADDING DIMENSIONS

PROFILE	SPECIE	THICKNESS (mm)	WIDTH (mm)	LENGTH (mm)
Standart	Ash	20	90/115/130/150	1500-4200
Aura		25	130/150	
Rombus/Tantak		20/25/40	40/52/60/90/115/130	
Standart	Iroko	20/25	90/120	1000-3000
Standart	Ayous	20	90/135	1500-4200
Standart	Pine Royal Grade	19/20	92/117/138	1800-5100
Aura		26	140	
Rombus/Tantak		20/26/40	42/52/65/92/117	
Standart	Poplar	20	130/150	1800-4500
Rombus/Tantak		20/25/40	45/65/130/150	



PRODUCTS

STRIP PANEL CLADDING

STRIP PANEL CLADDING

Wide and long cladding boards!

The name STRIP is originating from many wood strips glued together to form the cladding panels. The single strips which are fingerjointed and are laminated afterwards build up a strong cladding board which gives a great choice for customers asking for wider planks. With Tantimber Strip Panels a rift cut structure is being created which disables the bending and swelling of the individual strips forming up the Strip Panels and up to 5,00 m (17 ft) long boards enable a deduction of costs during installation.

Tantimber Strip panels offer, easy and fast installation, up to 240 mm board widths for outdoor use which gives the opportunity for designers and home owners creating the structure aimed at the design phase of the project. You can choose whether to choose a horizontal or vertical application with Strip Panel Cladding boards and whether painting it to the desired color needed or leaving it as it is coming from the nature is being left to the taste of the customer.



THERMOWOOD
UNDERCONSTRUCTION
DIMENSIONS

SPECIE	THICKNESS (mm)	WIDTH (mm)	LENGTH (mm)
<i>Thermowod Pine</i>	26	42	1500-4200
	40	40	
	40	65	
<i>Thermowood Ash</i>	25	40	3000/4000/5000
	40	40	
	40	65	

PRODUCTS UNDERCONSTRUCTION DIMENSIONS

UNDERCONSTRUCTION

Quality and durability in the choice of deckings and claddings are directly proportional to the choice of the right base construction material. Tantomber Thermowood Underconstruction products provide a strong basis for the application area. Our Thermowood processed ash and pine underconstruction products offer the best solution to your applications in different sizes. With their durability and dimensional stability, our products eliminate the problems such as bending, as they work in the same way with Thermowood decking and claddings.







PRODUCTS

SIDE CLIPS

SIDE CLIPS

Tantimber Side Clips are produced from polypropylene plastic (PP) and are a good alternative for those who do not want a face mounted application. With Tantimber Side Clipsings the spaces between deck applications are adjusted equally to provide a correct application. Tantimber Clips are suitable to use in every weather conditions.

Besides being an economical solution it also offers an fast and easy application.



SOLUTION ANTI-FIRE SOLUTION

ANTI-FIRE SOLUTION

More and more buildings require additional features in terms of design, concept and features. One of these is the Fire Rating Treatment what Tantimber is providing with an Anti –Fire Solution made from 100% natural materials with no hazardous ingredients to human beings and nature.

With Tantimber's Anti Fire Solution, test results are giving A1 and A2-s1,0 according to EN 13501-1:2007 which should be considered as B1 Fire rating. Tantimber's Anti-Fire Solution is being applied with care and know-how in the factory of Tantimber and any kind of oil and finishing can be applied on the products afterwards.

The requirements especially with the high rise buildings in each country has given us the motivation to be creative at the R&D process for such applications which have been fulfilled with the best results.

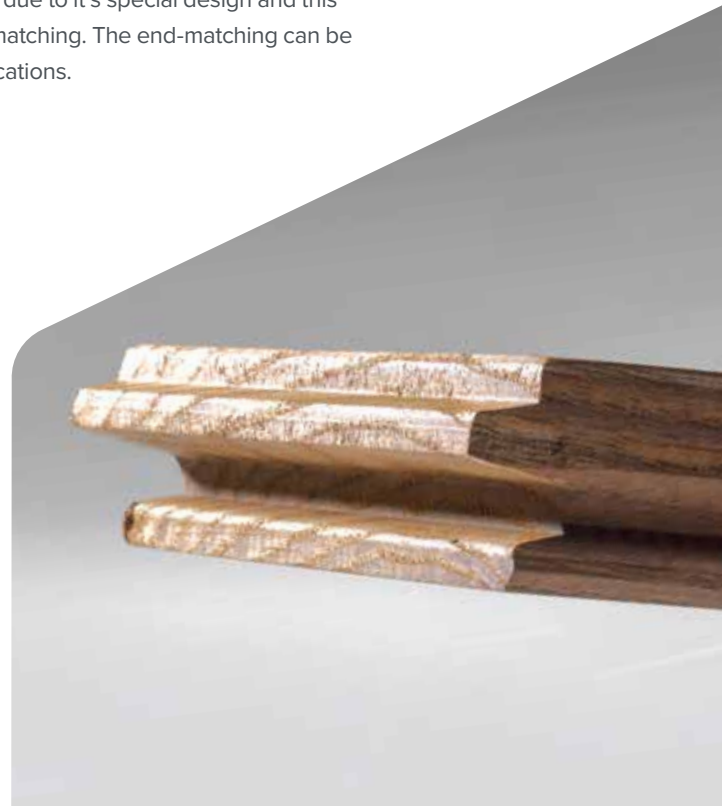




SOLUTIONS END-MATCHING

END-MATCHING

The end-matching is a great feature for creating patterns on your decks and minimizing wastage during installation. Tantimber end-matching allows the rain water to flow through the tongue&groove due to it's special design and this prevents stagnant water in between the matching. The end-matching can be used both for decking and cladding applications.



PRODUCTS
FLOORING
ENGINEERED FLOORING

ENGINEERED FLOORING

With its high durability, rich color, and design options, Tantimber engineered floorings are the best options for offices, restaurants, hotels, plazas, and housing.

The raw materials are provided from the most valuable oak trees of Croatia and they become modern, high strength building products by going through a sensitive production process in our facility.

Tantimber Engineered Floorings offer different options like lacquered, oiled, brushed and hand scraped surfaces. With a large variety of width alternatives in 120 mm / 150 mm / 190 mm / 205 mm / 225 mm / 255 mm's designing a living atmosphere which has been aimed at the first day becomes in real.

Tantimber engineered floorings offer the unique naturality of the wood for different application areas (floor heating etc.). They are the long lasting and esthetic floor covering solution for your living spaces.

From the Herringbone and Chevron pattern to different visual preferences, Tantimber Engineered Floorings complement the design concept successfully with its different design alternatives.

ENGINEERED FLOORING

SPECIE	THICKNESS(mm)	WIDTH (mm)	LENGTH (mm)	GRADE
OAK	15/4	150/200/250	1800/2000/2200	NATUR/RUSTIC
	20/5	250/300	1800/2000/2200	NATUR/RUSTIC
	15/4	205/235/255	1600-2600	SELECT/NATUR/RUSTIC
Thermowood Ash	14/4	125/150	1200-2400	VARNISHED - OILED
Thermowood Ash-HERRINGBONE	14/4	125	600/700/800	VARNISHED - OILED
Thermowood Ash-CHEVRON	14/4	125	600/700/800	VARNISHED - OILED



PRODUCTS
FLOORING
SOLID FLOORING

SOLID FLOORING

Tantimber Solid Floorings bring the beautiful naturality of sustainable forests from Slavonia region, where the most quality oak trees grow in Croatia and Hungary.

Besides it's Thermally Modified processed durable solid floorings that are manufactured of ash and iroko species, Tantimber also make difference in floors with solid floorings manufactures from oak with its authentic texture.

With rich design alternatives, high-quality Tantimber Solid Floorings which are controlled by wood experts at every stage of the process, redefine the dimensional standards.

With several design concepts; the Herringbone and Chevron alternatives, Tantimber Solid Floorings give freedom of choice to designers and home owners according to their imagination.

Tantimber Solid Floorings are available in different widths and thicknesses such as; 15 mm, 20 mm and 27 mm's which also have a wide variety of sizes up to 400 mm width and 5000 mm length.

SOLID FLOORING

SPECIE	THICKNESS(mm)	WIDTH (mm)	LENGTH (mm)	GRADE
OAK	15	130	500/700/1200	SELECT/NATUR/RUSTIC
	20	140/160/180/200	500-2000	SELECT/NATUR/RUSTIC

TANTIMBER LUMBER DIMENSIONS

SPECIE	GRADE	THICKNESS (mm)	WIDTH (mm)	LENGTH (mm)
TMT Ash	Prime	26	102/115/127/152/178	1800-3600
		32	152/178	
		38	152/178	
		52	152/178	
TMT Pine	A/B	25	100/125/150	3000-5700
		32		
		50		
TMT Poplar	Prime	26	152/178/205	2400-4800
		38	152/178	
		52	152/178	
TMT Iroko	FAS/1F	25/34/50	100	1000-3000
TMT Ayous	Prime	25	100/150	1800-4200
		33		
		50		

PRODUCTS LUMBER



LUMBER

For customers which want to be flexible with their moulding and product descriptions, the wide variety of options with Lumber supply from Tantimber is creating additional flexibility to it's partners.

With hardwood species such as TMT Ash and TMT Tulipwood, Tantimber is creating it's own high quality standarts by Skip/Dressed Lumber at which all defects such as knots, cracks etc. are being eliminated from the lumber which increases the yield for the end user through the moulding process.

Tantimber's PRIME GRADE Lumber is one side totally defect free and machined all around for the best yield and results.

Pine, Ayous and Iroko Species are offered as Rough Lumber.