





The **Thermodecking** company entered the thermoprocessed wood market **in 2003**, establishing unrivaled **leadership** among Russian companies over the past **18 years**.

Some of our key figures:

> **350** completed cladding and decking projects,

> **1200** realised deals,

> **49 000 m2** of manufactured products,

> **750** satisfied customers.

We specialize in heat-treating various wood types, offering a diverse product portfolio across different categories for a wide range of applications.

Utilising patented WestWood technology and modern American equipment, we ensure quality control at every stage of production and provide guarantees for our products.

In addition to manufacturing, we offer a comprehensive range of supplementary services:

- planing,
- sanding,
- painting,
- packaging,
- delivery,
- installation.

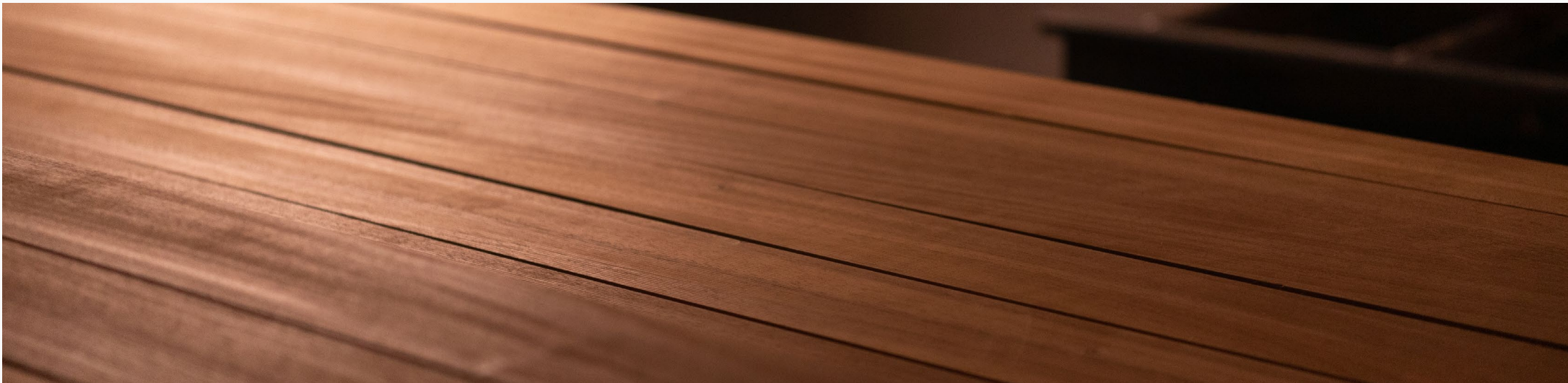
We transform bold ideas into accomplished projects, turning your dreams into reality.

HEAT TREATMENT TECHNOLOGY

Our wood treatment involves three phases - drying, thermo-modification, and cooling. at temperatures 200-220 °C for 14-36 hours in an oxygen-free and vapour-saturated pressurised environment.

Before heat treatment, the wood undergoes drying in specialized chambers to remove moisture. The furnace is then heated to +185...+200 °C, with the temperature depending on the wood species.

During heat treatment, the wood is subjected to overpressure in a water vapour environment. This vapour serves a protective function, preventing the wood from catching fire and participating in the transformative processes within the material.



High temperatures alter the molecular structure, causing the evaporation of polysaccharides and resins.

This process enhances the wood's physical properties, including appearance, density, thermal conductivity, and moisture content, extending its service life. The entire heat treatment cycle, including heating and cooling, lasts 30-35 hours.

Heat treatment effectively addresses common wood issues, such as rot, swelling and mould growth.

It makes the material strong, warm, and aesthetically pleasing. Heat treatment reduces thermal conductivity by 20-25 %. Thermowood facade cladding better preserves heat and maintains the natural microclimate of interior spaces.

The technology does not permit the use of any toxic chemicals, such as formaldehyde, plasticiser and modifiers – the substances, that in the past were often utilised to treat wood imperfections.

Complying with strict European environmental standards, the product is safe for people and for the environment.



ADVANTAGES

GEOMETRIC STABILITY

After exposure to high temperature, up to 95% of resins and acids get released from the wood, and the moisture contents drops to 2-4% compared to 15% in a conventional board. Unlike untreated wood, thermowood board retains its shape.

During the processing the structure of the material undergoes certain changes, which results in additional strength and resistance to external influences and atmospheric agents.

ROT RESISTANCE

Decking is crafted from regular wood, subject to a unique high-temperature treatment. As a result the polysaccharides in the wood decompose, thereby removing breeding grounds for bugs and other insects.

A natural impregnation primer based on linseed oil protects the thermoboard from UV light.

THERMOWOOD SERVICE LIFE > 25 YEARS

LONGEVITY

The service life of thermowood decking is 4 times longer than decking made of conventional materials. Decking retains its attractive appearance and properties for over 25 years.

Thermowood is durable when placed under a canopy and in the open air. Heat-treated wood is therefore an excellent building and finishing material, trouble-free through its entire service life.

SUSTAINABILITY

Manufactured without formaldehyde, glue, plasticisers, or modifiers, thermowood is a 100% natural material. The finished product does not cause allergies or emit harmful volatile compounds into the atmosphere.

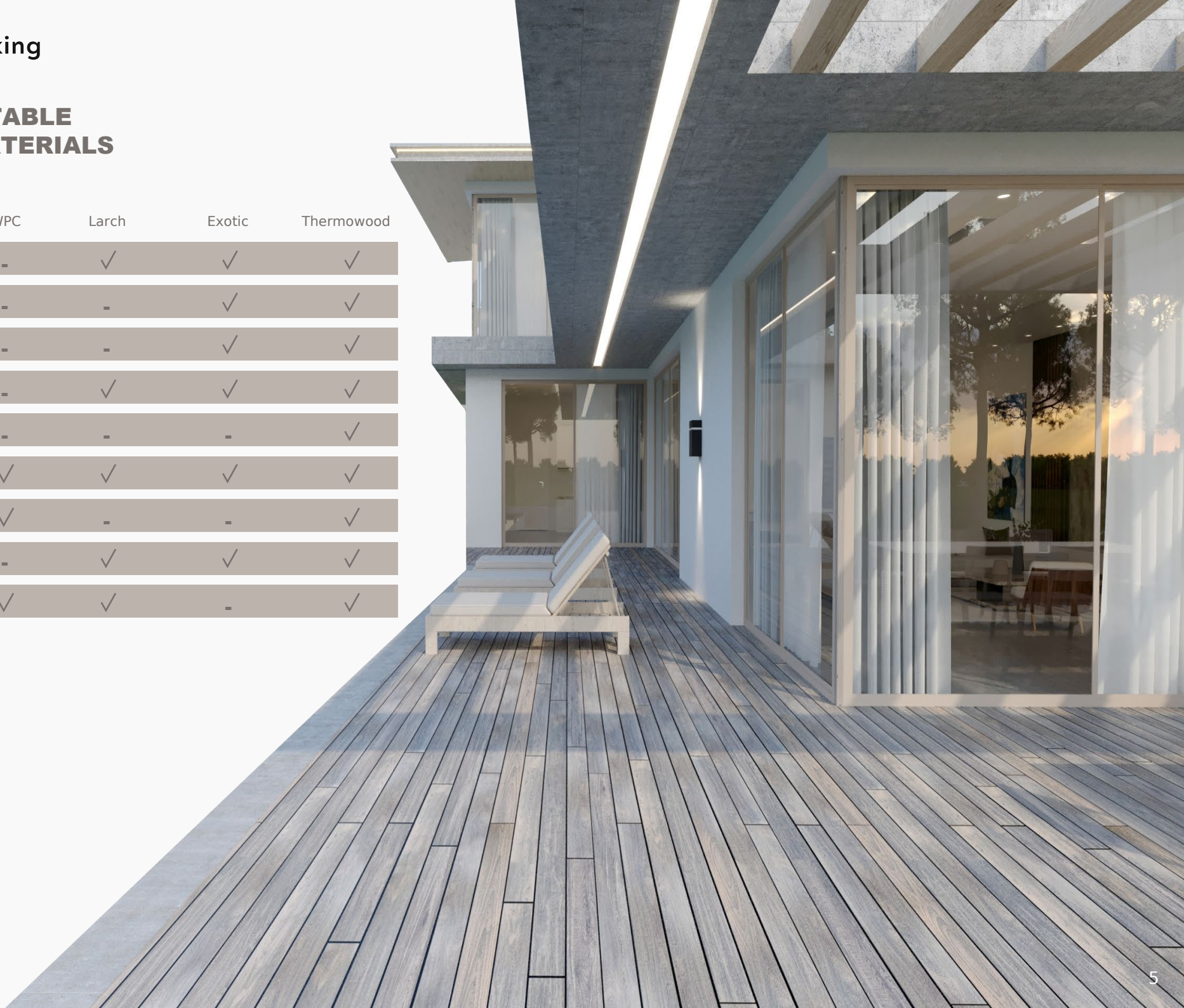
The material does not form splinters, making it safe for active recreation and physical play. Decking is always stable, has high strength and density. The material is immune to insect infestation, and does not rot, break off or peel under the influence of sun and precipitation.

ORIGINAL LOOK RESTORED IN MINUTES

The proper care of the thermowood planking is an important element in preserving the beauty of your home. In order to maintain its attractive appearance for a longer period of time, you can order the facade planks to be specially treated and coated with a protective compound. Thermowood that has turned grey over time can be easily restored to its original appearance by simply sanding it the an angle grinder.

COMPARATIVE TABLE WITH OTHER MATERIALS

	WPC	Larch	Exotic	Thermowood
SUSTAINABILITY	-	✓	✓	✓
LONGEVITY	-	-	✓	✓
AESTHETICS	-	-	✓	✓
DURABILITY	-	✓	✓	✓
GEOMETRIC STABILITY	-	-	-	✓
BIO-STABILITY	✓	✓	✓	✓
ABSENCE OF RESINS	✓	-	-	✓
NATURALNESS	-	✓	✓	✓
AFFORDABLE PRICE	✓	✓	-	✓

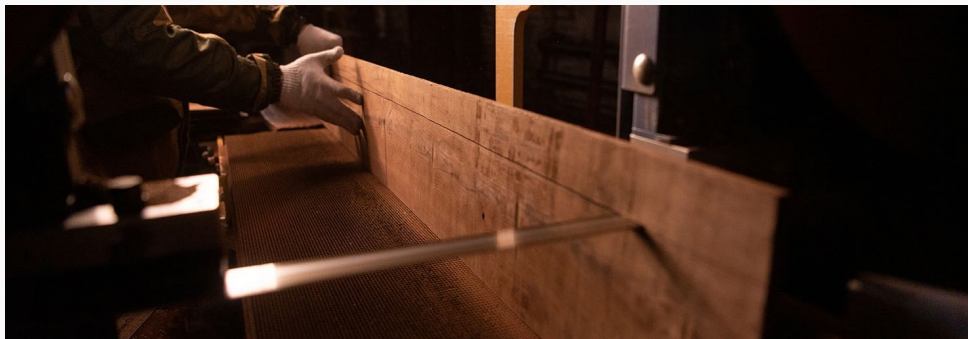




THERMOWOOD CREATION PROCESS

02 | SAWING

Utilising precision machinery and regularly maintained equipment, our sawing process minimizes waste through advanced technical capabilities. Rigorous control of timber provided for sawing enables us to produce diverse, high-quality products, ensuring efficiency and accuracy.



03 | HEAT TREATMENT

Distinguished by a thorough treatment throughout the entire thickness of the product, our WestWood heat treatment technology spans a 36-hour cycle, increasing the service life by tenfold compared to market analogues. Our specialists, continuously upgrading their skills and exchanging experiences with American counterparts, position Thermodecking at the forefront of heat treatment technology in Russia.



01 | RAW MATERIAL SELECTION

Our commitment to excellence begins with the meticulous selection of raw materials, adhering to the highest standards set by Thermodecking. Only carefully chosen raw materials align with our technology's criteria for heat-treatment, emphasising the pivotal role of the raw material base in achieving a superior finished product.



04 | DRYING

An electronically controlled, uninterrupted drying process is integral to wood quality. Thermodecking specialists meticulously monitor all key stages of raw material preparation, reacting promptly to production situations. Our team comprises top-notch specialists with extensive professional experience.



05 | WAREHOUSE

Spanning 6 hectares in Lukhovitsy, our warehouse holds over 3,000 m³ of sawn timber. To enhance customer convenience, we maintain a showroom and a transit warehouse in Moscow (Sormovsky proezd, 7a, bldg. 2), offering offering product samples and expert advice.



FEATURES OF THERMO ASH

The extensive range and high-performance properties of thermo ash enable the creation of exclusive architectural and design solutions.

In construction, utilising thermowood boards significantly **reduces finishing time.**

For years to come a facade or a terrace made of thermowood **will not require any additional protection from weather effects and temperature fluctuations.**

— **not susceptible to decay,**
— **impact resistant,**
protected from bacteria and insects.

To manufacture heat-treated boards from natural solid wood, a special technology involving application of temperatures from 180 to 200 °C is used.

The treatment enables removal of moisture from the wood, which results in the material acquiring increased **resistance to dampness**, i.e. it basically ceases to absorb water. The finished material features a **rich texture, geometric stability, environmental friendliness and durability.**

These properties make thermo ash ideal for applications in finishing facades, decks, pergolas, and garden paths. It can also be used for wet flooring, for example in pool areas.





COLOUR PALETTE

Aesthetics and durability are what make heat-treated products stand out among the variety of finishing materials.

To **maintain** the original **colour** and **attractiveness** throughout the entire lifespan, **we recommend coating the product with oil.**

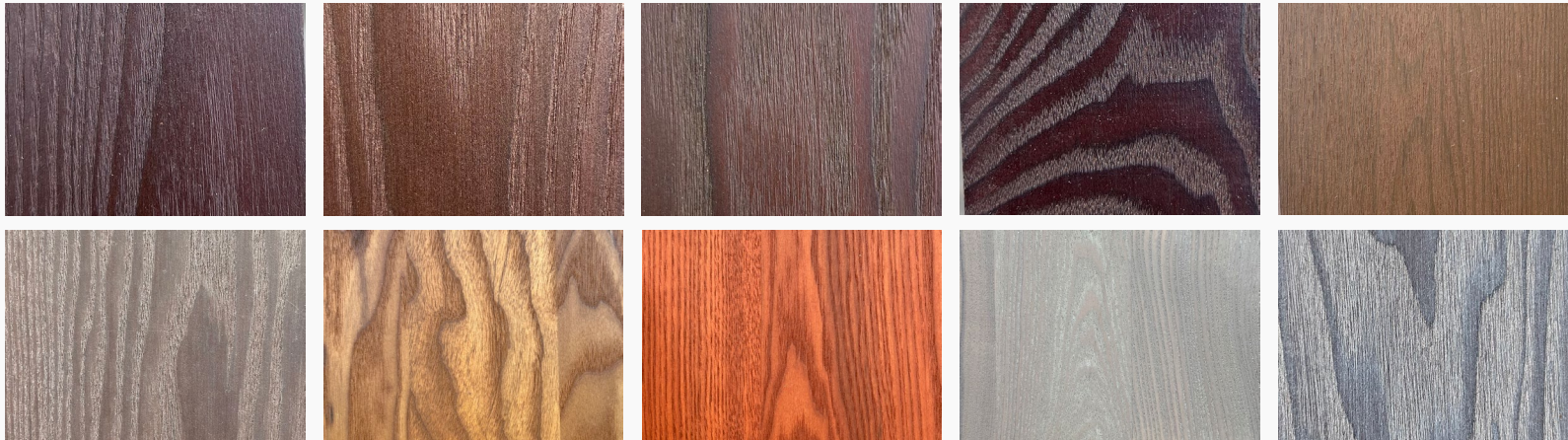
It is crucial to stay eco-friendly, as a natural product requires natural treatment. **The oils we use to coat the board have no unpleasant odour or toxic chemicals in their composition being absolutely safe for people and animals.**

We can tone the board in any shade you choose directly at the production site.

As a result of heat treatment, ash **acquires dark chocolate hue** throughout the entire thickness of the board. **The darker the colour, the more resistant the material is to sunlight.**

It prevents thermowood from greying and **better withstands high and low temperatures.**

To achieve **lighter shades**, a **special coating technology** with lightening tinted oils is used. This shade does not hide the natural wood grain and emphasises the unique character of the finish.



All colour schemes are available.

Pigments are carefully selected in accordance with all necessary environmental safety requirements ensuring high consumer properties and complementing project stylistics.

We offer an extensive range of colour palettes and shades, providing diverse options to suit your preferences.

Our company uses **only natural oils and colour pigments**, specially developed for thermowood. A **wide variety of natural shades and colours** allows the most daring design project to come to life.

DECKING PROFILES AND SIZES

Thermowood decking is a revolutionary breakthrough in finishing materials.

Being superior in terms of service life and decorative qualities, heat-treated wood is gradually replacing decking made of conventional wood.

Decking board profiles:



Straight planken



Straight planken
tongue and groove



Coarse corduroy



Eurocorduroy



Corduroy



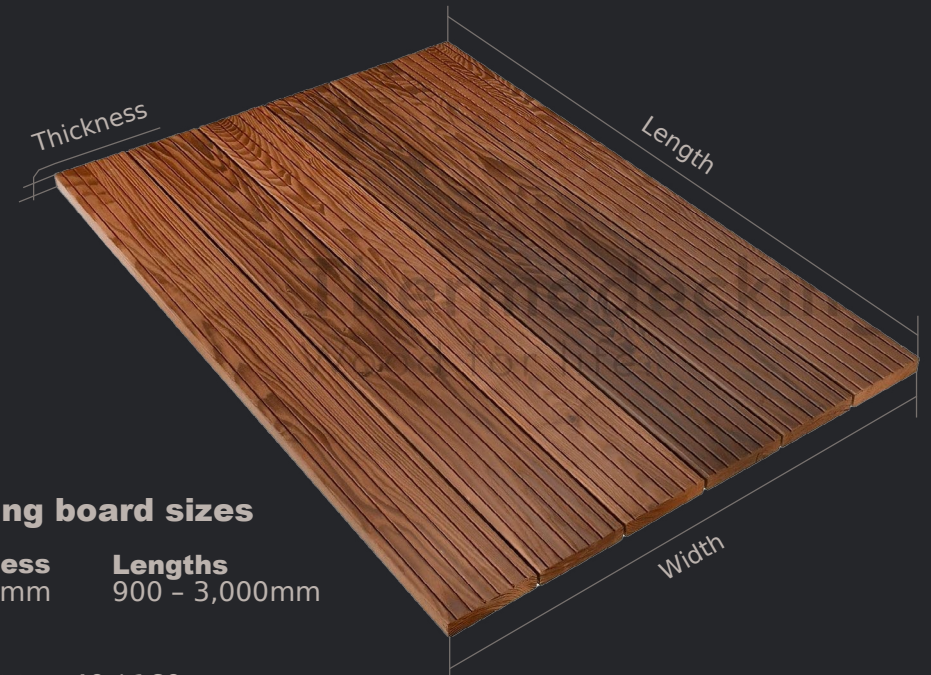
Wave

There are 6 basic profiles in our production, and any profile can be customised according to drawing or sample.

WHAT ARE THE ADVANTAGES OF OUR THERMOWOOD DECKING

Thermal modification improves the properties of ordinary wood giving the thermowood board a serious advantage over larch and WPC decking.

Thermowood is as resistant to the environment as possible. It is not afraid of rain, snow, fog and other vagaries of nature. The material easily withstands the influence of vapours and moisture, and its hygroscopicity is reduced to practically zero.



Decking board sizes

Thickness 20 - 40mm
Lengths 900 - 3,000mm

Width: 100 / 120 / 140 / 160mm

Mixed lengths delivery

Lengths in the range from 900 to 3,000mm in length increments of 100mm
50% of lengths in a batch 900-1,900mm
50% of lengths in a batch 2,000-3,000mm

DECKING BOARD INSTALLATION

The ideal finish is achieved through the combination of two key elements: premium finishing materials and the meticulous craftsmanship of the installation master.

Our team's expertise is grounded in extensive years of working with thermowood. From precise measurements to meticulous surface preparation, following technology protocols, and employing discreet fixing methods—these are just a few aspects of the specialized knowledge a professional must possess. Rest assured, we are well-versed in these secrets.

Gwozdeck DUET 90 is a concealed fastening element specifically crafted for mounting boards of any shape on horizontal surfaces. Featuring a smooth surface without sharp cutting edges, it can be effortlessly installed and requires no maintenance during operation. **DUET 90** can also be utilised for installing boards on vertical surfaces.

DUET-START is used for convenient installation of the first board.

DESIGN FEATURES OF DUO 90 FASTENERS:

- Crafted from a composite polymer material that prevents moisture condensation;
- Enhances decking durability by facilitating effective ventilation within the hidden part of the structure;
- Effortless installation facilitated by the mounting stop, positioning the fastener relative to the board's edge;
- Mitigates board swelling/drying, preventing warping issues;
- Versatile use with board widths ranging from 90mm to 180mm;
- The placement of the screw head in the fastener recess ensures a perfectly even surface on the facade.

Recommendations:

Specifications	Decking	Bearing structure	
		wood	metal
Thickness, mm	20-40	from 40	from 1,75
Width, mm	90-200	from 45	from 35
Density, kg/m3	< 900*	without limits	
Spacing, mm	5-7**	500	
Additional fasteners	(self-tapping) screw #1 - 4 pcs.	screw #2 -1 pcs.	screw #2 (for metal) -1 pcs.

*- in case of wood density > 600 pre-drilling is necessary for self-tapping screws

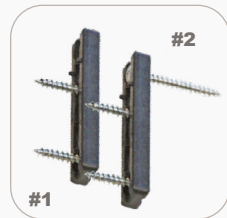
** - depends on wood humidity at the time of installation and operating conditions.

DUET 90 fasteners consumption per 1 m2

Board width, mm	Distance along the battens (joists) axes, mm	Spacing, mm	Consumption rate, pcs./m2		
			DUET 90, pairs/m2	screw #1, pcs./m2	screw #2, pcs./m2
90	500	7	21	84	21
120	500	7	16	64	16
140	500	7	14	56	14
180	500	7	10	40	10

Recommendations on choosing the right self-tapping screws for the DUET 90 fasteners

Planking	Bearing structure				
	wood		metal		
Thickness, mm	screw #1-1 pcs. 	Thickness, mm	screw #2-1 pcs. 	Thickness, mm	screw #2-1 pcs.
20	4,5 x 25	50	5,0 x 40	from 1,75	4,8 x 19
40	5,0 x 45	50	5,0 x 50		



DUET 90

DUET-START

MATERIAL

Glass-reinforced caprolon PA6

PROFILES

- Deck board
- Terrace board
- Floor board
- Straight planken
- Bevelled planken (rhombus)
- Imitation of timber
- Block-house

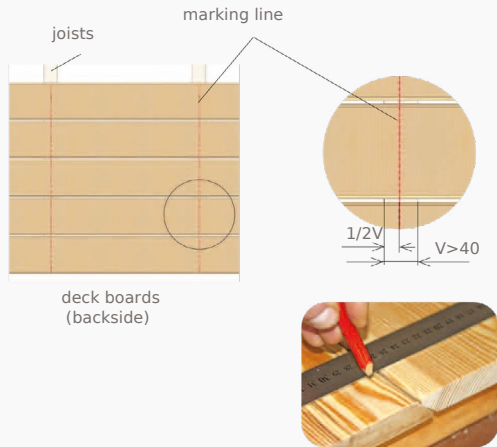


INSTALLATION STEPS FOR GWOZDECK FASTENERS

1

Marking

To make the installation easier, mark the back side of the deck board with a marking that repeats the symmetry axis of the terrace joists.

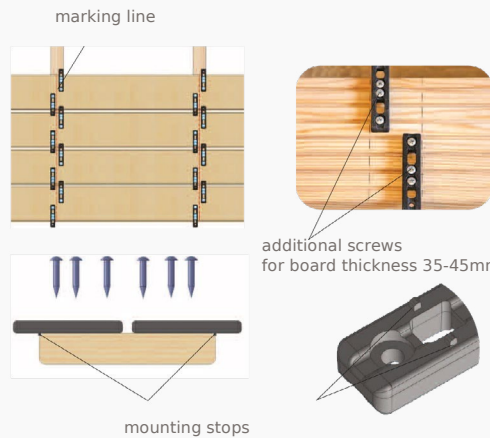


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Fasteners mounting on the row board

Install the **DUET 90** fastener along the marking line and fix it with self-tapping screws #1 of the recommended size. If necessary, use an additional self-tapping screw and an auxiliary mounting hole.

Use mounting stops to position **DUET 90** fasteners relative to the edge of the board.



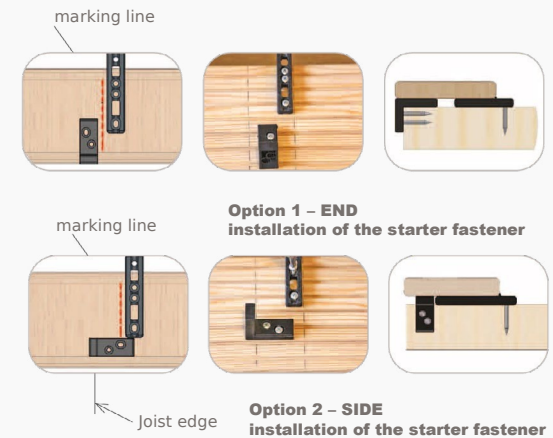
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Installation of the first board

Choose the most convenient variant (end or side) of installing the first board.

Fasten **DUET-START** and one element of **DUET 90** fastener to the first board using self-tapping screws #1.

Through the mounting holes of the **DUET-START** and **DUET 90**, fix the board to the terrace joists using self-tapping screws #2.



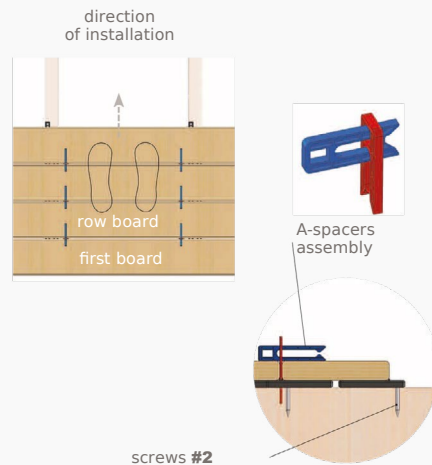
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Installation of row boards on the joists

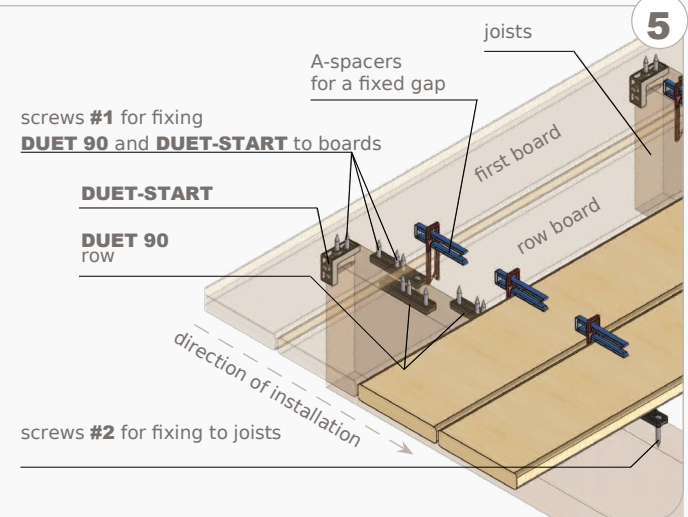
Install a board with the fixed **DUET 90** on the joists. Use A-spacers assembly for spacing.

Fasten the deck board to the joists with self-tapping screws #2 through the mounting holes of the fasteners. Fasten the required number of deck boards.

Move the A-spacers only after fixing 3-4 rows. Fix the free edge of the last board in the most convenient way.



General outline of the Gwozdeck fastening system installation process





FEATURES OF THERMO BIRCH

Thermo birch is a natural, environmentally friendly material, specially heat-treated at temperatures from 180 to 200 °C.

The treatment removes resins and polysaccharides, modifying the structure of the wood and improving its technical characteristics. Most importantly, the heat treatment process does not involve using of any chemicals.

Featuring all the properties inherent to thermowood, thermo birch is

- resistant to decay,
- geometrically stable,
- very strong,
- good thermal insulator,
- exceptionally durable.

Thermo birch has a light shade, offering the flexibility to tint the planks in any colour from light to dark.

This species is ideal for facades and terraces, providing the freedom to bring architectural visions to life.

We produce both classic facade and decking profiles (straight planking, bevelled planking, large velvet, small velvet, eurovelvet, slatted facade) and **customised** profiles, based on drawings or samples.

Available thermo birch product cross-sections:

20 and 40mm thickness, length in the range 900 - 3,000mm with a step of 100mm.



COLOUR PALETTE

Thermo birch is originally light golden hue, so coating can give it almost any shade.

Possible shades:

- light,
- milky,
- golden,
- light brown.

Darker shades, such as walnut, chocolate, wenge are also popular.

We can tone the board in any shade you choose directly at the production site.

Most often design solutions

involve the use of thermo birch on the facade in combination with thermo ash with **colours and tones matched as close as possible.**

Our company offers a broad range of colour variants, from which we **individually** select the one to match your exact expectations.



All colour schemes are available.

Pigments are carefully selected in accordance with all necessary environmental safety requirements, ensuring high consumer properties and complementing project stylistics.

We offer an extensive range of colour palettes and shades, providing diverse options to suit your preferences.

Our company uses **only natural oils and colour pigments**, specially developed for thermowood. **A wide variety of natural shades and colours allows** the most daring design project to come to life.

CLADDING PROFILES AND SIZES

Discover a world of possibilities with Thermodecking - a realm where freedom of choice meets endless design opportunities.

We offer a wide range of materials and products made of various wood species, thermo ash and thermo birch being the most popular cladding options.

Standard cladding profiles



Straight planken



Oblique planken

There are 6 basic profiles in our production, and any profile can be customised according to drawing or sample.

Thermo birch cladding board sizes:

Thickness: 20mm
Lengths: 900 - 3,000mm

Width: 75 / 80 / 90 / 100 / 110 / 120 / 140 / 160mm

Thermo ash

Thickness: 20mm
Lengths: 900 - 3,000mm

Width: 75 / 80 / 90 / 100 / 110 / 120 / 140 / 160 / 170 / 180mm

Mixed lengths delivery

Lengths in the range from 900 to 3,000mm in length increments of 100mm

50% of lengths in a batch 900 - 1,900mm
50% of lengths in a batch 2,000-3,000mm



CLADDING BOARD INSTALLATION

We use a concealed fastener system to install the cladding board. We recommend Gwozdeck Duet Fasad polymer composite fasteners, as they do not corrode, rot, deform and do not condense moisture, which makes them the most expedient and durable choice.

Gwozdeck DUET-FASAD - is a concealed fastening element, specifically crafted for mounting boards of any shape. Featuring a smooth surface without sharp cutting edges, it can be effortlessly installed and requires no maintenance throughout the service life. **DUET-START** and **DUET 30** can both be used for convenient installation of the first board.

Design features of DUET-FASAD fasteners:

- Crafted from a composite polymer material that prevents moisture condensation;
- Enhances facade durability by facilitating effective ventilation within the hidden part of the structure;
- Effortless installation facilitated by the mounting stop, positioning the fastener relative to the board's edge;
- Mitigates board swelling/drying, preventing warping issues;
- Versatile use with board widths ranging from 90 to 200mm;
- The placement of the screw head in the fastener recess ensures a perfectly even surface on the facade;
- Due to its greater elasticity DUET-FASAD can be applied for fixing boards with a thickness of less than 20mm.



Recommendations:

Specifications	Cladding	Bearing structure	
		wood	metal
Thickness, mm	15-20	from 30	from 1,75
Width, mm	90-200	from 45	from 35
Density, kg/m3	< 700*	without limits	
Spacing, mm	5-7**	500	
Additional fasteners	(self-tapping) screw #1 - 4 pcs.	screw #2 -1 pcs.	screw #2 (for metal) -1 pcs.

* - in case of decking wood density > 600 pre-drilling is necessary for self-tapping screws




** - depends on wood humidity at the time of installation and operating conditions.

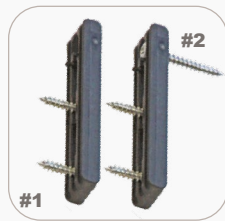
DUET-FASAD fasteners consumption per 1 m2

Board width, mm	Distance along the battens (joists) axes, mm	Spacing, mm	Consumption rate, pcs./m2		
			DUET-FASAD, pairs/m2	screw #1, pcs./m2	screw #2, pcs./m2
90	500	5	22	88	22
120	500	5	16	64	16
140	500	5	14	56	14
200	500	5	10	40	10

* - except for imitation of timber (block-house)

Recommendations on choosing the right self-tapping screws for DUET-FASAD fasteners

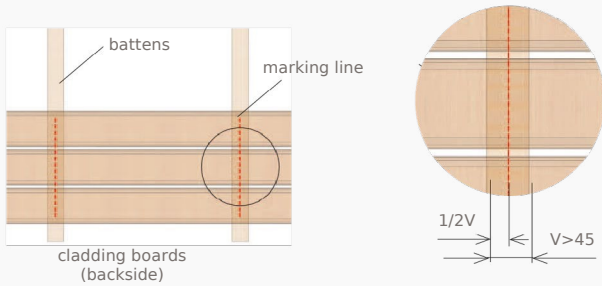
Planking	Bearing structure				
	wood		metal		
Thickness, mm	screw #1-4 pcs. 	Thickness mm	screw #2-1 pcs. 	Thickness, mm	screw #2-1 pcs. 
15	4,5 x 20	40	4,5 x 40	from 1,75	4,2 x 19
20	4,5 x 25	45	4,5 x 40		



INSTALLATION STEPS FOR GWOZDECK FASTENERS

1 Marking

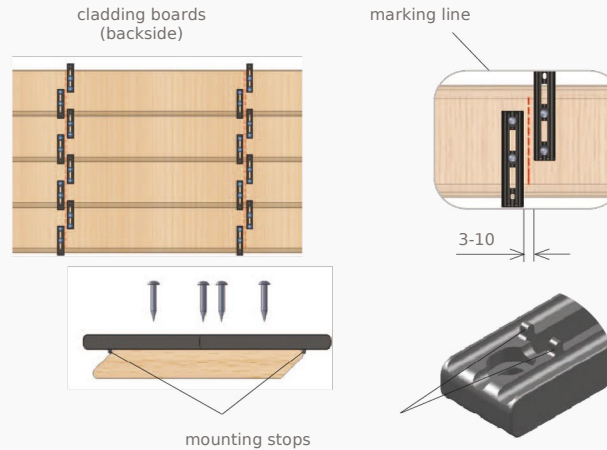
To make the installation easier, mark the backside of the cladding board with a marking that repeats battens (minimal recommended batten width is 45mm). The markings for the cladding boards can be made in advance on a group of boards or immediately before fixing the fasteners on each board.



1

2 Fasteners mounting on the row board

Install the **DUET-FASAD** fastener along the marking line and fix it with self-tapping screws **#1** of the recommended size. Use mounting stops to position **DUET-FASAD** fasteners relative to the edge of the board.



2

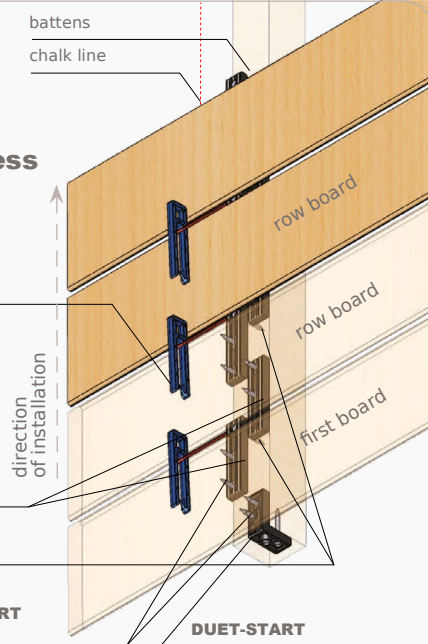
General outline of the Gwozdeck fastening system installation process

A-spacers for a fixed gap

DUET-FASAD row

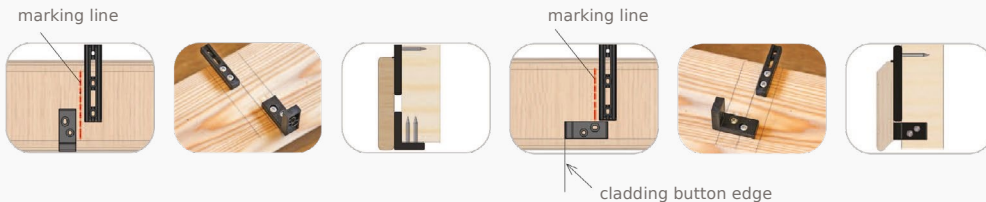
screws **#2** for fixing to the battens

screws **#1** for fixing **DUET-FASAD** and **DUET-START** to the planks



3 Installation of the first board

Choose the most convenient variant (end or side) of installing the first board. Fasten **DUET-START** and one element of **DUET-START** fastener to the first board using self-tapping screws **#1**. Level the first row of boards using the level. Through the mounting holes of the **DUET-START** and **DUET-FASAD**, fix the board to the cladding battens using self-tapping screws **#2**.



Option 1 - END
installation of the starter fastener

Option 2 - SIDE
installation of the starter fastener

3

4 Installation of row boards on the battens

Install the A-spacer assembly by hooking it onto the chalk line temporarily installed in the batten area. Install the row board with **DUET-FASAD** fasteners, fix it to the batten using self-tapping screws **#2** through the mounting holes of the fasteners. Install the required number of boards. Move the A-spacers only after installing 3-4 rows. Fix the free edge of the last board in the most convenient way.



4



COATING RECOMMENDATIONS

Why coat?

Coating stands as the sole and simplest method to shield thermowood from the external aggressive environment while accentuating the architectural aesthetics of your home. Although thermowood is resistant to rot, it is susceptible to burning. Exposure to ultraviolet light breaks down lignin, leading to increased permeability of the upper layer, formation of cellulose molecules on the surface, fading of the original colour, and the emergence of a grey tinge.

CONDITIONS FOR COATING. Recommendations for oil application.

Performing painting work during winter is highly discouraged.

Moisture can accumulate between the wood fibres, and at sub-zero temperatures, it transforms into ice, causing material expansion.

Any coating applied under these conditions will only last until the next thaw.

As the ice melts, it will displace the coating from the fibres, and the water trapped under the oil may lead to surface mould. Humidity significantly impacts coating quality.

During rainy weather, when humidity exceeds 80%, it is not advisable to paint the board. Following the recommended technology, the optimum temperature range for external painting is **between +10°C and +25°C. Within this range, the oil retains its elasticity and adhesion properties.** Temperatures above +25°C extend the oil **curing time by 1.5 times.**

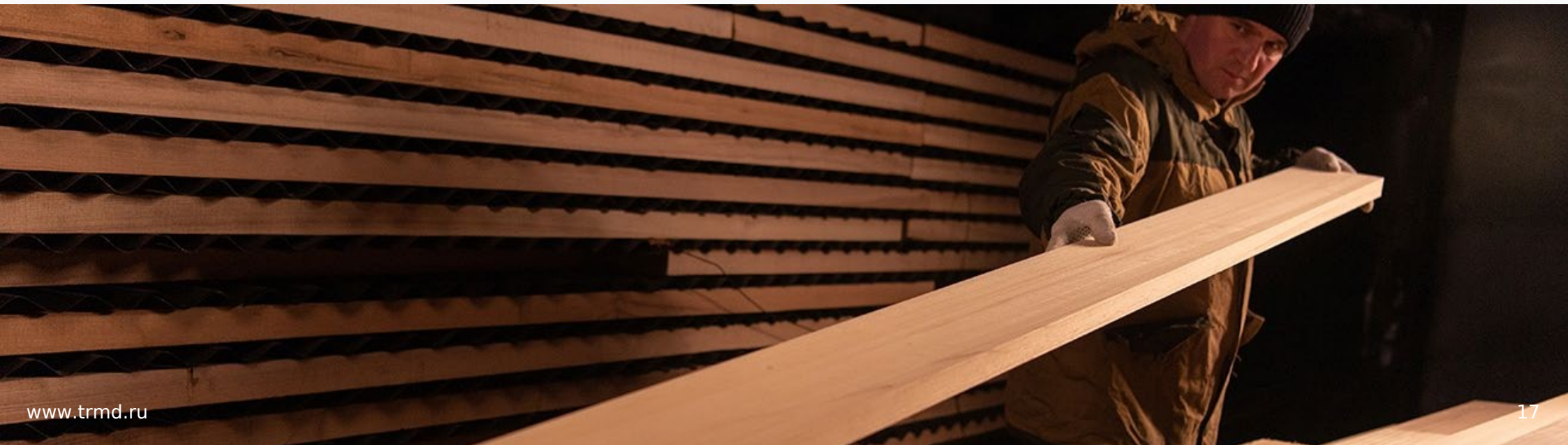
Environmental conditions and location also affect material consumption.

Generally, less oil is used indoors than outdoors.

For **indoor** work, add **1-2%** to the consumption.

If working **outdoors** without wind, **increase consumption by 10%.**

In **windy and cloudy** outdoor conditions, add **20%** to the consumption.





SURFACE PREPARATION

The most crucial aspect in finishing is the preparation of the board, a process that often requires more time than the actual painting.

When wood is planed, either by machines or by hand, it results in compressed wood fibers on the surface, leading to clogged pores. This impedes sufficient impregnation of the wood for protection, resulting in saturation at a lower concentration than required for effective long-term UV protection.

Sanding is essential to open the pores on the wood's surface, facilitating maximum penetration depth of the formulations. Coatings applied to unsanded wood may lack adequate adhesion and could peel off over time.

Wood sanding follows a two-stage process. Generally, the board undergoes sanding in two passes with different grits. The first pass employs coarser sandpaper with a lower grit, while the second pass utilises sandpaper with 1-3 orders of magnitude higher grit. For example, an 80-grit sandpaper for the first pass and 100 or 120 grit for the second pass.

Oils from various manufacturers possess different densities, meaning they absorb differently. Therefore, we recommend consulting the instructions for a specific oil before sanding, as they typically provide the recommended grit for each pass.

On-site board sanding is a challenging task, requiring manual effort, extensive experience, and attention to detail. It involves the use of a special grinder in the initial stage, followed by finishing with an eccentric sander.

Adherence to the correct sanding direction, aligned with the wood fibers, is crucial to prevent tool marks. Additionally, it's essential to consider the volume of sanding dust, utilize suitable equipment for collection, and wear protective masks.

Our company offers the option to conduct the grinding stage in controlled production conditions, utilizing specialized calibrating and grinding machines to ensure uniform processing.

This method optimally prepares the surface for subsequent oil application, **minimizing material consumption and ultimately saving you both time and budget.**



OIL APPLICATION

Before commencing the oiling process, ensure the board's surface is free of dust post-sanding. Thoroughly review the composition and instructions provided by the oil manufacturer, as different oils may require distinct application methods and drying times.

Most protective oils and azures typically require a two-layer application. Utilize a specialized brush with natural bristles to apply the oil, following the direction of the wood fibres To prevent uneven colouring,puddles, and drips, apply the oil evenly.

The subsequent crucial step is the board's drying process. This should occur in a well-ventilated space, adhering to specific temperature and humidity conditions. The drying duration for the initial layer depends on the specific oil and is outlined in the application instructions—generally, it takes a minimum of 24 hours.

After the first coat has thoroughly dried, perform a light intermediate sanding. We recommend using **Scotch-Brite** in red with **320-400** grit for this step.

Intermediate sanding is essential to eliminate raised lint after the initial coat and is done manually. Following sanding, clear the board's surface of any dust.

Apply the second layer of oil using a similar method.

After the final coat, **let the board dry** for the duration specified in the instructions, but **never less than 24 hours**. Ensure the surface is dry, silky, and non-sticky upon completion.

Note: It is crucial to protect the board's ends.

The ends are most susceptible to moisture absorption and release, constantly under water load.

This area is **the weakest point** of solid wood and tends to deteriorate over time. **Protect the ends with oil or wax**. Often, end protection is implemented during installation, where the board is mounted with a specific spacing and cut to size.

The entire painting process on production site spans 4-5 days (depending on the volume). Achieving these conditions directly on installation site is challenging.

Remember that even after complete drying, any oil undergoes a crystallization process, taking up to several weeks.

During this period, the board's surface becomes more matte, the tone levels, and the texture is revealed. The board can be installed and used during this time.



CARE

To maintain the pristine appearance of the thermoboard, it is crucial to care for the surface using the correct care products.

For light soiling, **wash** the surface with warm **water without detergent (alkaline agents), such as Marseilles soap**

Keep in mind that most **natural oils lack fungicides for protection against fungus. Periodically check exterior surfaces for infestations, typically recognizable by small black dots.**

Thermowood is not prone to rotting and microbial attack; mould forms only on the surface.

In case of damage, wash the board immediately with water or soap.

On average, tinted oils protect wood from UV rays for 5 or more years on building facades.

If the facade or terrace faces north and west, this period will be 1.5 times longer.

The advantage of the oil is that no additional surface sanding is required for renewal.

Only in the case of localized deep contamination, sanding is recommended. It's sufficient to wash the cladding or decking with a Marseille soap solution, let it dry, and coat it in one layer.

Recommendations for restoration work

The frequency of renovation work depends on the intensity of weathering and the quality of surface maintenance.

There are no strict guidelines on how often to renovate. Minimal preventive maintenance can significantly prolong the original appearance of the product.





TECHNICAL PASSPORT

HARDWOOD

(GRADE 0-1)

HEAT TREATMENT
TECHNOLOGY:
WESTWOOD (USA)



Thickness	20/35/40mm
Width	20/40/60/70/80/90/100/110/120/130/140/150/160/170/180mm
Board lengths	from 900 to 3.000mm (mixed lengths, in increments of 100mm)
Profile	straight / oblique planken / corduroy / coarse corduroy / floor board / metallised pressed wood / lining / batten etc.
Grade	0-1

NOTE

- Face surfaces are those visible during operation.
 - In grade 0-1 puttying on the face is not allowed.
 - The length of the products is cut at an angle of 90 degrees.
 - The products are produced in the following lengths:
 - Cladding and decking boards vary from 900 to 3,000 mm in increments of 100 mm.
 - In each batch the lengths are:
 - 900-1,900mm - not more than 50%;
 - 2,000-3,000mm - not more than 50%.
 - The length of the floor board/metallised pressed wood varies from 400 to 2,000 mm in increments of 100 mm.
- Limit deviations from the nominal dimensions of the parts shall not be more than:
- +0.2mm in width,
 - +- 0,1mm in thickness,
 - +10mm, - 1mm in length.

INSTALLATION:

It is strictly prohibited to insert screws or nails directly into thermowood without prior hole drilling.

Failure to do so may result in splintering of the thermal material.

Only irrecoverable **defects**, or blemishes, that are **discernible to the naked eye** under natural light from a distance of one meter are **recognised as defects**, or quality discrepancies. These faults cannot be rectified through methods such as tapping, trimming, re-sorting, pressing, or additional fixation during installation.

For an unbiased evaluation of nonconformities and defects, the product should undergo sorting before the installation process.

TOLERANCES

Face or edge knots of any configuration

ON THE FRONT SIDE

not allowed

Swirl grain, curly grain

allowed

Face, edge or end cracks

not allowed

Mechanical damage

not allowed

Colour variation in the batch

allowed

Unplaned patches

not allowed

Knotholes on edges

not allowed

ON THE BACK SIDE

allowed, not more that 10mm and not > 3 pcs. per product, filled

allowed

allowed thread cracks (not more than 1x1x200mm), filled

allowed minor damage (not more that 30% per product)

allowed

allowed not more than 30% per product

allowed on the edge of the tongue of a wall panel or floor board, provided that when assembling these panels or boards, the holes from these knots are completely covered by another panel or board.

TRANSPORT AND STORAGE:

When transporting and storing the products, the integrity of the packaging must be ensured and conditions must be observed that exclude the possibility of mechanical damage, moisture, exposure to sunlight, and contamination. Loading products in bulk and unloading them by dumping is not allowed. The board must be stored in the manufacturer's packaging. It is not allowed to store the board unprotected by oil without packaging under the influence of sunlight. It is not allowed to store the board in conditions of high humidity, even in the packaging.

It is necessary to maintain technical gaps between boards ranging from 2 to 5 mm, depending on the width of the supplied board:

- for a width of 100mm, gaps of 1-2mm
 - for a width of 120-130mm, gaps of 3-4mm
 - for a width of 150mm, gaps of 5-6mm
 - for a width of 180-200mm, gaps of 8-10mm
- It is also advisable to leave gaps around the perimeter.

COATING:

Heat-treated wood, like any other wood, undergoes sun-induced discolouration and greying. To preserve its colour for an extended period, it is essential to apply UV-protective compounds, such as tints.

The ends of the products should be coated with oil-based compounds to shield against moisture and prevent cracking. Additionally, we recommend applying one layer to the backside of the facade board, especially for widths equal to or greater than 150mm. Horizontal surfaces like terraces should also be covered on the back side.

RETURN POLICY

- TRACES OF WATER, DIRT, OIL ETC. ON THE BOARD.
- DAMAGED PACKAGING OF THE BOARD.
- MECHANICAL DAMAGE TO THE BOARD.
- WARPING OF THE BOARD DUE TO POOR STORAGE CONDITIONS.
- BOARDS ARE CUSTOM-MANUFACTURED (SPECIFIC PROFILE, TONE, COATING) THAT COMPLY WITH THE TECHNICAL DATA SHEET CONDITIONS.

Claims for obvious defects or non-compliance with the grade are accepted only **before the material is laid**. The maximum number of opened packs eligible for a claim is limited to 3 pieces. Warranty period for all products is 1 year.

SUPPLIER'S WARRANTY EXCLUSIONS:

- Dents, scratches, and damages caused by installation, negligence, sharp objects, heels, animal claws, impacts, exposure to chemicals, or fire.
 - Microcracks in the coating and the product, as specified in the technical specification (Appendix No.1).
 - Fading (gradual loss of colour) of the coating due to the natural reaction of wood to sunlight, which is not considered a defect.
- Any attempt to repair, refurbish, or regrind the goods prior to inspection by the Supplier's representative will invalidate the warranty.



WHAT SETS US APART:

- being manufacturers allows us to produce any size for your project;
- we assist in selecting colours, board profiles, provide visualisations, and offer installation support if necessary;
- all of our materials are guaranteed for more than 10 years.

We work in close collaboration with leading architects and construction companies.

Comprehensive assistance from selection to realisation:

- fulfilling orders of any complexity;
- crafting designs for various materials;
- assisting in selection and installation;
- providing a guarantee for the work completed;
- operating with transparency and honesty;
- aiding in cost estimation for projects at an optimal price.

To find product prices

visit our website www.trmd.ru

You can order our branded product box to familiarise yourself with the offerings.

Take advantage of a **video consultation** and explore our showroom online by clicking the

Book a video consultation button in the **Contact Us** section on our website.

Author's supervision.

Throughout the process, **we offer free advice** on the selection, installation, operation, and future maintenance of our products.

Prices from the manufacturer.

Thermodecking's in-house production and impeccable installation quality empower you to bring your most unique ideas to life when organising your space. Upon your request, we can measure and calculate the necessary materials for installation.

Competitive pricing. Delivery 7/365.

Our company refrains from additional commissions and markups, offering favourable prices, discounts, and special conditions.

Working with us is exceptionally cost-effective.



Thermodecking
Wood for life.

Wood for life!

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