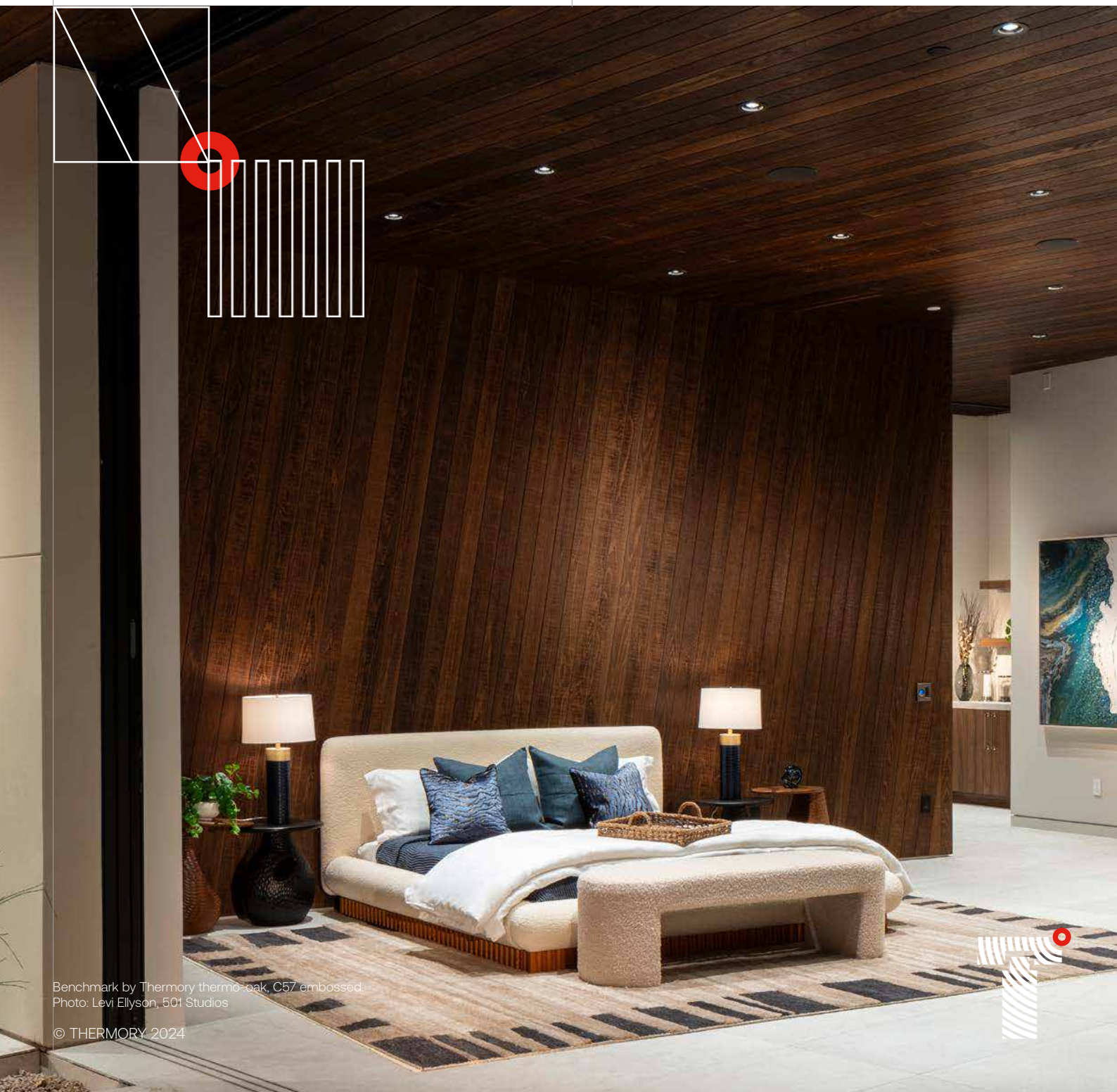
BENCHMARK
by THERMORY®

Thermally modified oak - exclusive hardwood with inherent beauty and sophistication



Benchmark by Thermory thermo-oak, C57 embossed.
Photo: Levi Ellyson, 501 Studios

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Thermally modified oak is a premium hardwood species that is part of our Benchmark series.

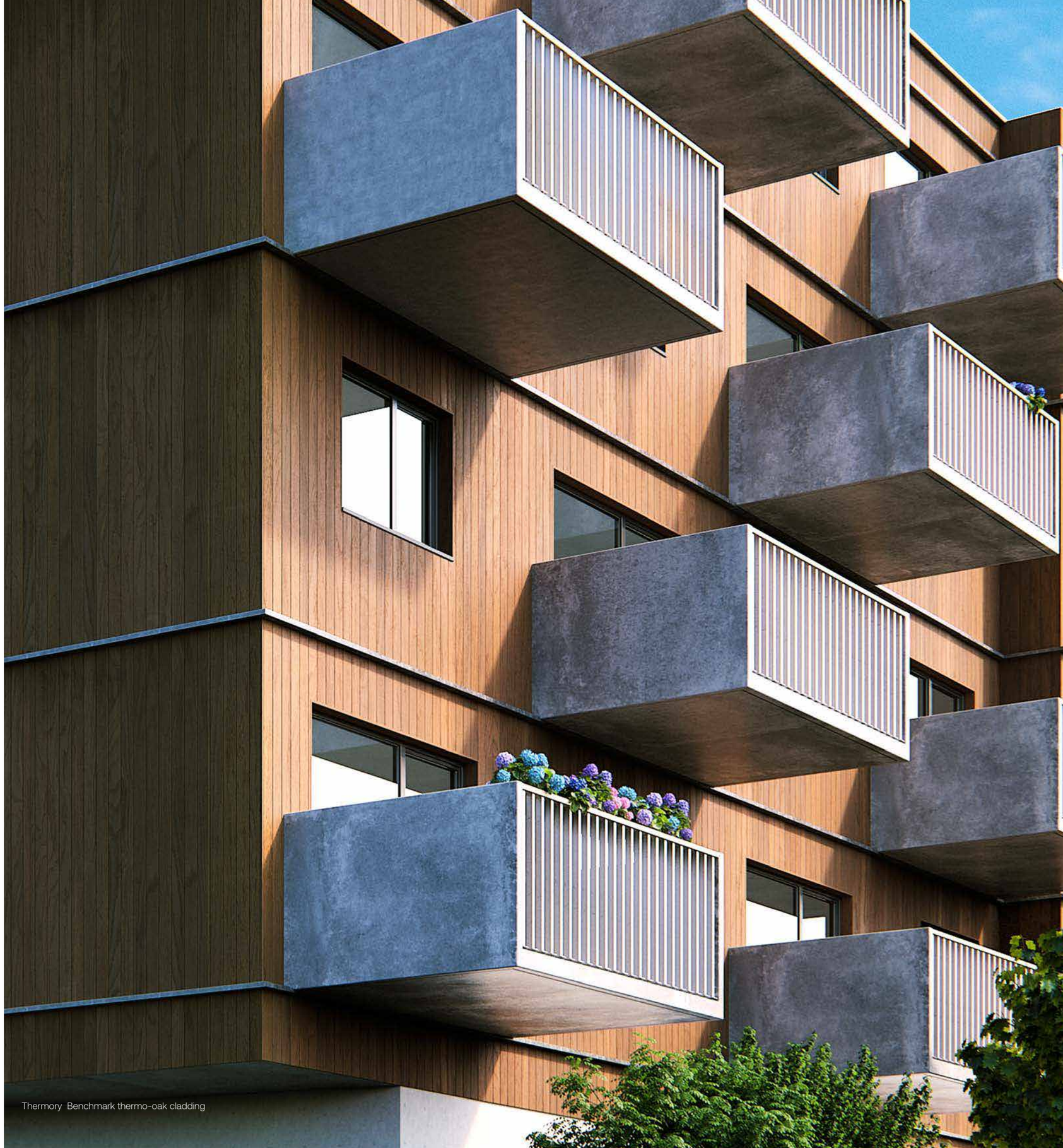
Attractive deep brown cladding boards are designed for those seeking purity, refined quality and beauty of the natural wood.

DURABILITY
Highest available durability class

EASY INSTALLATION
Innovative and simple installation methods

DIMENSIONAL STABILITY
In changing weather conditions dimensionally stable

LOW MAINTENANCE
Oil or not. Choice is yours



Thermory Benchmark thermo-oak cladding

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About oak

Oak (*Quercus rubra*) is native to North America. This abundant species is characterised by beautiful, clear wood grain.

Distinctive and delicate rays on the wood's surface enhance its natural beauty and create a unique and characteristic look that no other material can match.

Because of its density, strength and durability, oak is widely used timber in North America. The tree has a straight trunk, fewer branches and low internal stress. The latter is particularly important since it ensures that even the long decking and cladding boards remain dimensionally stable and resistant to warping and cupping throughout the products' lifespan.

We offer oak products in two different grades, **Select** and **Character**:

Select is our premium grade of oak. Our Select-grade oak is carefully selected for its clear grain with fine, delicate rays, or streaks.

Our **Character** grade is a more affordable option for oak. It also features a clear grain, but with more broad, open rays.

THERMORY OAK VS THERMORY ASH – WHAT'S THE DIFFERENCE?

In practical terms, our oak and ash materials are very similar – they're both durability class 1 woods with comparable density and dimensional stability. Both species also age to a beautiful silver-gray color over time if left untreated and are generally similar in appearance.

The key difference between the two is the grain patterns – while ash tends to have a straight, pronounced grain with a few visible rays, oak's grain pattern is more pronounced, with its prominent rays and growth rings giving it a distinctive look.

Ash

Oak

All pictures are for illustrative purposes only. Actual products may differ in appearance as wood is a natural material - each piece is unique, just like us.

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Why choose thermally modified oak?

THERMALLY MODIFIED WOOD 25+ YEARS AGAINST WOOD DECAY

CLASS 1

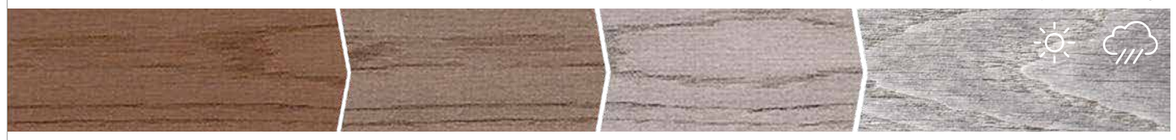
Our Benchmark thermo-wood cladding board series stands for simplicity and natural wood aesthetics. Heat-treated oak is a unique and innovative addition to complement this product range.

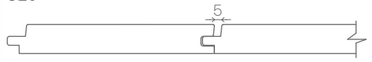
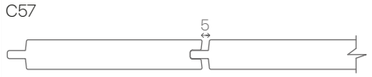
Oak is a high-quality hardwood valued for its exceptional properties. Our thermal treatment enhances these qualities even more, assuring the first-class durability and dimensional stability of Thermory cladding and decking boards - the properties that are crucial in outdoor applications.

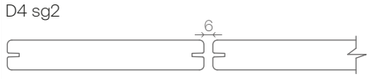
Thermory thermo-oak has the highest durability class and rot resistance for 25+ years. Thermo-oak ages beautifully. If left untreated, oak will eventually take on a silver-grey tone without losing its durability. Maintenance of your deck or cladding has never been easier.

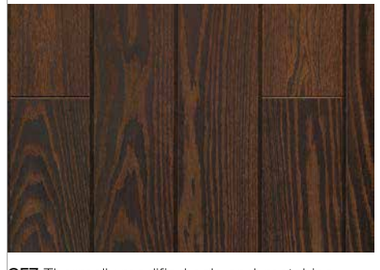
After installation

Unoiled wood exposed to UV light



CLADDING PROFILE	THICKNESS (MM)	WIDTH (MM)	COVERING WIDTH (MM)	INSTALLATION METHOD	INSTALLATION ORIENTATION
C4J 	20	52	57	CLAD52/Alu Rail 52	Vertical or horizontal
C20 	20	132	124	Visible screws, staples or nails	
	20	150	142		
C57 	20	132	124	Visible screws, staples or nails	
	26	150	142		
CAR7 	20	132	123	Visible screws, staples or nails	

DECKING PROFILE	THICKNESS (MM)	WIDTH (MM)	COVERING WIDTH (MM)	INSTALLATION METHOD	INSTALLATION ORIENTATION
D4 sg2 	20	132	135	T-6 clip	Vertical or horizontal
	20	150	153		



C57 Thermally modified oak, end-matching

C57 Thermally modified oak

D4 sg2 Thermally modified oak

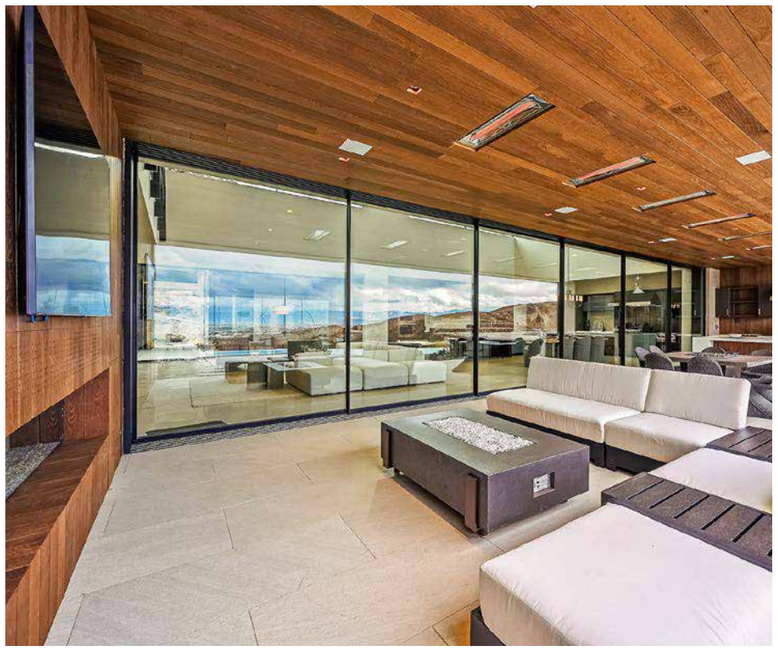
ALSO AVAILABLE WITH END-MATCHING JOINTS
For a tight and clean look most Thermory® profiles can be produced with end-matching, which enables falling lengths to be installed efficiently.

Interior by Thermory, C57 thermo-oak.

Thermally modified oak for interiors

Oozing charm and purity, this naturally beautiful hardwood offers the ideal combination of features for use in internal spaces, with intense thermal modification ensuring durability.

With its gorgeous deep brown tint and subtle grain, thermally modified oak is a versatile cladding material that works perfectly in a variety of internal settings, giving a timeless, elegant appeal to homes, offices and internal spaces in public buildings.



Benchmark thermo-oak, C57. Las-Vegas Nevada. Photo Joel Gamble Klassick Vizion Studios

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Meticulous development and manufacturing process

At Thermory, we are committed to providing solutions that exceed expectations. All our products are rigorously tested and developed to provide functional and eco-friendly wood solutions.

Thermal modification of oak is not widely practised since producing high-quality results is a meticulous and time-consuming process. Slow drying and adopting proper drying methods are critical for achieving quality results. Free water evaporates unevenly during the drying process, and using incorrect techniques leaves the wood moist inside.

Due to the oak's density, its thermal treatment requires expert skills and knowledge. Heat-treatment testing on oak began years ago. As the result, we have developed a process that provides all the benefits of thermowood while keeping the wood free of surface checks.

To ensure the premium quality of our products, we carefully choose our suppliers and apply strict quality requirements to the sourced timber. When selecting raw materials, we prefer long boards with a clear, knot-free surface. Harvesting area is also an important consideration. The trees growing as far north as possible are most suited to meet Thermory quality criteria because of having fewer surface checks.

Wood cladding is one of the biggest trends in architecture nowadays. It's a stylish and sustainable way to enhance both the exterior and interior design of buildings, ranging from private homes to large commercial buildings, schoolhouses, and residential developments. Thermally modified oak, in addition to being incredibly beautiful, makes an excellent wall cladding material because it can stand up to harsh weather and the test of time.

Jartek thermal kilns at Loo production unit

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LEAVE A LASTING IMPACT

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All previous versions are null and void.