



**BENCHMARK**  
by THERMORY®

Thermally modified  
red oak – exclusive  
hardwood with  
inherent beauty  
and sophistication

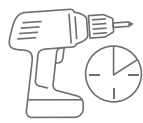


Thermally modified red oak is a premium hardwood species that is now part of our Benchmark series.

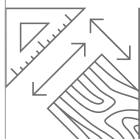
Attractive reddish-brown cladding boards are designed for those seeking purity, refined quality and beauty of the natural wood.



**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





## About red oak



Red oak (*Quercus rubra*) is native to North America. This abundant species is characterised by beautiful, clear wood grain and a slightly pink undertone.

Distinctive and delicate open 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, red 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.

### RED OAK VS WHITE OAK — HOW TO TELL THE DIFFERENCE?

The colour is the most notable distinction between red oak and white oak. Interestingly, white oak is a little darker, with beige and brownish tones, while red oak has an underlying shade of salmon pink.

Another important aspect that helps distinguish wood types is the grain pattern. The white oak's wood grain tends to be more subdued and uniform, while red oak has a more pronounced and vibrant grain pattern, which adds to the wood's unique and charming appeal.



After installation



Unbleached wood exposed to UV light



#### THERMALLY MODIFIED WOOD

Naturally enhanced using only heat & steam



#### DURABILITY

Improved durability and rot resistance



#### DIMENSIONAL STABILITY

Enhanced dimensional stability in changing weather conditions



#### BETTER INSULATING QUALITIES

Reduced thermal conductivity



#### CHEMICAL-FREE

Thermal modification process is entirely natural



#### NON-HAZARDOUS WASTE

Safe waste handling

## Why choose thermally modified red oak?

Our Benchmark thermo-wood cladding board series stands for simplicity and natural wood aesthetics. Heat-treated red 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.





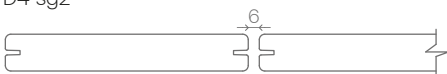
The attractive reddish-brown tint and natural surface checks make thermally modified red oak an appealing cladding and decking solution for those who cherish the inherent beauty of natural wood. Red oak cladding gives an exquisite and timeless finish to exterior walls, retaining the elegant look

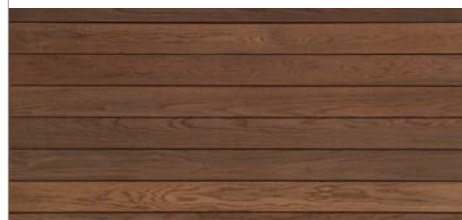
even as the wood ages. Exceptionally weather-resistant and durable, red oak decking boards are built to last.

Thermory heat-treated red oak has the highest durability class and rot resistance for 25+ years. Red 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.

→ **THE HEAT**  
ENHANCES THE WOOD'S  
STRUCTURE THROUGHOUT

→ **THE STEAM**  
GIVES US FULL CONTROL  
OVER THE PROCESS

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	
C57 	20	132	124		
CAR7 	26	150	142	Visible screws, staples or nails	
	20	132	123		
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 red oak



D4 sg2 Thermally modified red oak



### ALSO AVAILABLE WITH END-MATCHING JOINTS

With Thermory's exclusive JEM™ Joint, the ends of the boards do not need to rest on the support joists.



Interior by Thermory, C57 thermo red oak.

## Thermally modified red 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 reddish-brown tint and subtle grain, thermally modified red 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.



Interior by Thermory, C57 thermo red oak.

# 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 red 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 red oak's density, its thermal treatment requires expert skills and knowledge. Heat-treatment testing on red 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, school-houses, and residential developments. Thermally modified red 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.



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All previous versions are null and void.



**THERMORY®**  
LEAVE A LASTING IMPACT

