



UNDERFLOOR HEATING SPECIFICATION SHEET

Marchand Flooring 20mm Engineered Oak Flooring, European Oak veneer over 14mm multi-ply eucalyptus core
Finish Options: UV Lacquered / Waterbase lacquer
Board Dimensions: 240mm (W) x 2200mm (L) x 20mm (T)
Wear Layer: 6mm European Oak
Core: Multi-layer eucalyptus plywood

Thermal & Heat Tolerance Specification:

Underfloor Heating Compatibility:

Suitable for use with both water-based (hydronic) and low-temperature electric underfloor heating systems, provided systems are fully embedded and controlled to prevent overheating.

Maximum Surface Temperature:

27°C – must not be exceeded at any point on the floor surface.

- Heating System Requirements:
- Heating system must be commissioned and running evenly at least two weeks prior to installation.
- Floor temperature should be increased gradually over a minimum of three days up to a maximum of 27°C. Do not shock the oak floor.
- Flooring must acclimatize for 48–72 hours in the heated space before installation.
- Relative humidity should remain between 40–60% at all times.

Installation Notes for Heated Substrates:

- Must be installed using full glue-down method with a flexible wood floor adhesive. Glueing your oak down improves heat conductivity.
- Electric systems must be embedded in a levelling screed to ensure even heat distribution and prevent thermal stress.
- Use thermostats and floor sensors to maintain stable temperatures and avoid surface overheating.

Thermal & Heat Tolerance Specification:

In 2021 Marchand installed 20mm engineered oak flooring directly over a 20 year old heated concrete substrate. Rigorous monitoring over the years, including varied heating cycles across the extensive 200+ sqm area, reveals no diminished performance compared to the original concrete. Marchand's Oak has consistently demonstrated exceptional stability and compatibility with underfloor heating. The absence of warping, delamination, or cupping, attributed to the cross-threaded 14mm ply, provides compelling long-term evidence of the product's reliability and durability when used with heated floors in New Zealand.

General Specifications:

- Moisture Content at Dispatch: 6–9%
- Stability: Excellent dimensional stability for underfloor heating due to eucalyptus cross threaded multi-ply core
- Suitability: Residential and commercial (light to moderate traffic) with heated floors in New Zealand.

For tailored advice or installation support, contact the Marchand Flooring technical team at info@marchandonline.co.nz
