

ARCHITECTURAL SPECIFICATION

1. PRODUCT DESCRIPTION

14mm **Imperial Engineered Oak™** is a premium engineered timber flooring plank comprising a **3mm genuine European Oak wear layer** bonded to a high-performance multi-layer hardwood plywood core, providing exceptional dimensional stability, structural strength, and long-term performance. The surface is finished with light wire brushed, super-matt UV-cured lacquer finish, delivering the authentic appearance and texture of natural European Oak while enhancing scratch resistance, wear performance, and ease of maintenance. Manufactured using responsibly sourced timber and independently tested for indoor air quality, 14mm Imperial Engineered Oak™ is **FSC® Certified** and **FloorScore® Certified** for low **VOC emissions E1**, making it suitable for healthier residential and commercial interiors



2. PERFORMANCE CHARACTERISTICS

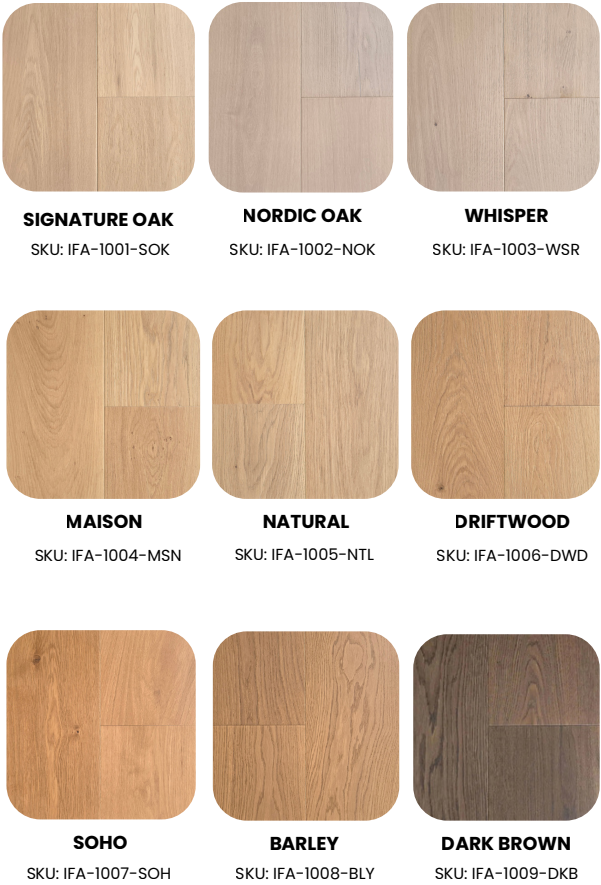
- Premium multi-layer engineered construction designed to minimise expansion and contraction compared with solid timber flooring. Excellent dimensional stability for Australian climatic conditions.
- E1 Low VOC emissions compliant with stringent indoor environmental standards.
- FSC® Certified – Manufactured using responsibly sourced timber from sustainably managed forests.
- FloorScore® Certified – Certified for low VOC emissions, contributing to healthier indoor air quality.
- The 3mm wear layer can be lightly sanded and recoated in it’s lifetime.

3. INSTALLATION SPECIFICATION

Installation is recommended to be carried out by a qualified flooring installer in accordance with Australian Standards and Imperial Flooring Australia® installation guidelines.

4. TECHNICAL SPECIFICATIONS

Brand Manufacturer	Imperial Engineered Oak™ By Imperial Flooring Australia®
Timber Species Grade	European Oak ABCD
Construction	Multi-Layer Hardwood Plywood Core
Board Dimensions	1900mm (Length) x 190mm (Width)
Thickness Top Layer	14mm 3mm Veneer
Surface Finish	Light Wire Brushed UV Lacquer Matte
Joining System	Tongue + Groove
Edging	4 Sided Micro-Bevel
Installation Method	Direct Glue Down Floating Floor
Pack Size	2.166 m² 6 x Boards 21kgs < 25% Nested Random Shorter Boards
Slip Test Rating	P4
VOC Rating Fire Classification	VOC: E1 CHF Value: 3.1 kW/m2 Smoke Value: 45 %.min
Warranty	Residential: 20 Years Commercial: On Request



5. GENERAL SITE REQUIREMENTS

- Building must be weather-tight and fully enclosed
- Wet trades completed and areas fully dry
- HVAC operational where applicable
- Subfloor must be structurally sound, clean, dry and level
- Maximum subfloor flatness tolerance: **3mm deviation over 3 metres**
- Concrete slabs must be fully cured (New Builds)
- All concrete substrates must be sealed with an approved moisture barrier system
- Flooring must be acclimatised within installation area prior to laying
- Expansion gaps must be provided at all vertical obstructions

6. INSTALLATION METHOD A – DIRECT STICK (FULL GLUE-DOWN)

Recommended Application

Preferred method for maximum stability and for areas where fixed cabinetry or heavy joinery will be installed.

Subfloor Preparation

- Apply approved moisture barrier to concrete substrates
- Allow moisture barrier to cure as per manufacturer instructions
- Subfloor must meet flatness tolerances 3mm over 3mtrs

Adhesive Application

- Use approved timber flooring adhesive
- Apply using manufacturer-recommended notched trowel
- Ensure continuous adhesive coverage – no voids
- Install boards into wet adhesive and press firmly for full contact

Laying Procedure

- Maintain minimum **8mm** perimeter expansion gap
- Stagger end joints minimum 450mm
- Remove excess adhesive immediately
- Use tapping block to ensure tight joints
- Allow full adhesive cure before foot traffic (as per adhesive manufacturer)

Fixtures & Joinery

- Heavy cabinetry, kitchen islands and fixed joinery may be installed over direct stick flooring

7. INSTALLATION METHOD B – FLOATING FLOOR SYSTEM

Recommended Application

Suitable for residential installations where floor is not mechanically fixed to substrate.

Subfloor & Underlay

- Install approved acoustic or floating floor underlay
- When over concrete, underlay must incorporate vapour barrier at minimum
- Subfloor must meet flatness tolerances 3mm over 3mtrs

Board Installation

- Apply continuous PVA adhesive to tongue and groove joints (do not spot glue)
- Engage boards and tap gently into position
- Maintain minimum **10mm** perimeter expansion gap
- Stagger end joints minimum 450mm
- Do not mechanically fix boards to subfloor

Restrictions

- Heavy cabinetry, kitchen islands or fixed joinery must not be installed over floating floors

8. FULL INSTALLATION GUIDE LINK:

www.imperialflooringaustralia.com.au/engineered-timber-flooring-install-guide

9. CURING AND FINISHING STEPS

- Allow adhesive to cure for 8–12 hours minimum (or as specified by adhesive manufacturer) before light foot traffic
- Do not place heavy furniture until full cure is achieved
- Remove spacers once curing is complete
- Reinstall skirting or trims by fixing to the wall only, not the floor
- Minor gaps may be filled using colour-matched filler or cork compound (test on offcut first)

For final cleaning, use mineral spirits, turpentine or acetone to remove any adhesive residues followed by final clean with wood pH floor cleaner. Do not flood the floor with water

10. SITE FLOOR PROTECTION (New Builds + Renovations)

On active building sites, newly installed flooring must be protected immediately to prevent damage. Use breathable floor protection systems. Protection must allow airflow and must not trap moisture.

11. UNDERFLOOR HEATING REQUIREMENTS

- Compatible with hydronic in-slab heating systems only
- Suitable for Direct Stick (Full Glue-Down) installation method only
- Floating installation is not approved over underfloor heating
- Maximum floor surface temperature must not exceed 26°C
- Heating system must be commissioned gradually
- Increase and decrease temperature in controlled increments
- Electric underfloor heating systems are not approved

12. CARE & MAINTENANCE

- Clean using recommended timber floor cleaning products
- Avoid excessive water or steam cleaning
- Fit protective pads to furniture
- Use entry mats to reduce abrasive wear
- Protect floor during construction works

13. COMPANY DETAILS**Imperial Flooring Australia® Pty Ltd**

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Disclaimer

Installation must be carried out by a qualified flooring professional and in accordance with this guide and relevant Australian Standards. Imperial Flooring Australia® accepts no responsibility for failure resulting from improper installation, inadequate subfloor preparation, moisture issues, or non-compliant site conditions.