



**VIENNA WOODS**  
QUALITY FLOORING CO.

# Petit Château Collection

Architectural Specification Pack

*(NZ Building Code Compliance Support Document)*



# 1. Product Identification

**Product Name:** Vienna Woods – Petit Château Collection

**Product Type:** Prefinished engineered European oak flooring

**Profile:** Tongue & Groove

**Thickness:** 15 mm

**Wear Layer:** 4 mm European oak

**Core Construction:** Multi-layer eucalyptus plywood with birch bottom layer

**Surface Finish:** Prefinished UV-lacquered

**Density:** Approx. 704 kg/m<sup>3</sup> at 12% moisture content

**Installation Method:** Glue-down or floating installation depending on project specification

**Formats Available:**

- Plank: 190 mm width × 1900 mm length
- Parquet: 120 mm width × 600 mm length

**Scope of Use:**

Interior flooring and wall lining in residential and light-commercial buildings. Suitable for use with underfloor heating systems when installed according to manufacturer guidelines.



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## 2. Relevant NZ Building Code Clauses

NZBC Clause	Requirement	Petit Château Response
<b>B1 – Structure</b>	Structural performance	Non-structural overlay flooring installed over compliant substrate.
<b>B2 – Durability</b>	15+ year durability	Engineered multilayer construction with hardwood wear layer.
<b>C3 – Fire</b>	Surface finish performance	Reaction to fire classification <b>Dfl-s1</b> .
<b>D1 – Access Routes</b>	Slip resistance	Tested to <b>AS/NZS 4586:2014</b> , mean Coefficient of Friction <b>0.65</b> ( $\geq 0.40$ required).
<b>E3 – Internal Moisture</b>	Impervious & easily cleaned	Prefinished lacquered surface with sealed joints when installed per manufacturer instructions.
<b>F2 – Hazardous Materials</b>	Low emissions	<b>E1 formaldehyde emission class</b> verified under EN 717-1 testing.
<b>G6 – Acoustic</b>	Impact & airborne sound	Acoustic compliance achievable with approved underlay build-up.

## 3. E3 – Internal Moisture Compliance

The engineered flooring construction includes a factory-applied lacquer finish designed to resist surface moisture ingress.

To meet NZBC E3 requirements when installed near sanitary fixtures:

- Waterproof flexible sealant applied at perimeter junctions
- D4 PVA adhesive applied to tongue-and-groove joints within wet-adjacent zones
- Follow Vienna Woods installation guides for vapour barriers and expansion gaps

The product is suitable for interior flooring applications but **not for permanent wet areas** such as bathrooms or saunas.



## 4. D1 – Slip Resistance

Slip resistance testing was carried out according to **AS/NZS 4586:2014 Appendix A**.

### Results

- Mean Coefficient of Friction: **0.65**
- Minimum requirement: **0.40**

The Petit Château flooring exceeds the slip resistance requirement for general pedestrian access routes.

## 5. B2 – Durability

Construction includes:

- Engineered multi-layer plywood core
- **4 mm European oak wear layer**
- Factory UV-lacquered finish

Engineered timber construction provides dimensional stability and suitability for residential and light-commercial interior applications.

Biological durability classification: **Class 1**.

## 6. C3 – Fire Performance

Reaction-to-fire classification:

### Dfl-s1

This classification indicates limited flame spread and smoke development for flooring materials under EN 13501-1 testing methods.



## 7. F2 – Indoor Air Quality

Environmental emissions compliance verified by independent testing.

### Formaldehyde emission

- Tested under **EN 717-1:2004 chamber method**
- Result: **Below detection limit (< LOD)**
- Classification: **E1 emission class**

This complies with European CE-labelling requirements for engineered wood flooring products.

Additional certification:

- **CARB Phase 2**
- **EPA TSCA Title VI**
- Canadian formaldehyde regulation compliance.

## 8. Sustainability Certification

Wood materials are supplied under **FSC Chain-of-Custody certification**, covering engineered flooring product categories including parquet and plank flooring.

## 9. Installation Requirements

Installation must follow Vienna Woods installation guides and recognised timber flooring practices.

Typical requirements include:

- Acclimatisation of flooring before installation
- Vapour barrier over concrete substrates
- Expansion gaps at perimeter



- Installation by qualified installers only

Failure to follow installation guidelines may compromise product performance.

## 10. Maintenance Requirements

Recommended care:

- Vacuum regularly
- Clean using approved timber floor cleaners
- Maintain indoor humidity approximately **40–60%**
- Avoid excessive moisture exposure

Maintenance guides are available from Vienna Woods.

## 11. Documents to Submit with Consent

The following documentation may accompany consent submissions where required:

- E3 Compliance Statement & Test Report
- Building Product Information Requirements (BPIR) document
- CE Test Certificate
- CE Test Report
- Slip Resistance Test Report
- FSC Chain-of-Custody Certificate
- CARB / EPA emissions certificate
- Technical data sheet
- Installation guide