

FORTÉ TIMBER OVERLAY FLOORING SYSTEM

PURPOSE

Forté Timber Overlay Flooring System is a non-structural engineered tongue and groove joint flooring system for use internally over substrates of plywood, particleboard, concrete, and existing timber flooring. This pass™ covers the following types of planks: Artefact, Atelier, Artiste Grande, Indus, Loft, Moda, Smartfloor, Ultra, Urban, and Villa.

EXPLANATION

The Forté Timber Overlay Flooring System comprises engineered tongue and groove planks, waterproof polyvinyl acetate glue, and an epoxy moisture vapour barrier.

The boards consist of engineered tongue and groove joint flooring boards with a plywood core and a variety of top-layer timber lamella, prefinished with a UV-cured polyurethane lacquer.

The following types of planks are available:

	Wear layer	Thickness mm	Width mm	Length mm
Artefact Collection	4 mm Solid European Oak	15	220	1800 - 2200
Atelier Collection	6 mm Solid European Oak	15	220	2200
Artiste Grande Collection	4 mm Solid European Oak	19	250	2500
Indus Collection	4 mm Solid European Oak	18	240	2400
Loft Collection	2mm Solid European Oak	12	193	1830
Moda Collection	4 mm Solid European Oak	15	220	2190
Smartfloor Collection	4 mm Solid European Oak	15	190	2200
Ultra Collection	6 mm Solid European Oak	21	190	1900
Urban Collection	3 mm Solid European Oak	14	190	1830
Villa Collection	4 mm Solid European Oak	18	240	2400



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SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<p>Building</p> <p>In all buildings where the relevant part of the building complies with the NZ Building Code (NZBC) or in existing buildings where the designer/engineer is satisfied that the existing building is suitable for the intended building work.</p> <p>Over substrates of concrete slab-on-grade or suspended concrete; structural timber (plywood, particleboard, OSB); timber strip flooring; wet-area membrane system or acoustic underlay.</p> <p>As an internal floor covering.</p> <p>In wet areas.</p>	<ul style="list-style-type: none"> ➤ The Forté Timber Overlay Flooring System must be installed over an approved wet area membrane system in accordance with the Forté 'Timber Overlay Flooring System Design Guide'. The selected wet area membrane system must be installed in accordance with all membrane supplier's recommendations.
<p>With an underfloor heating system.</p>	<ul style="list-style-type: none"> ➤ The subfloor surface temperature must not exceed 27 °C. ➤ Where the Forté Timber Overlay Flooring System is to be installed over an electrical radiant underfloor heating system, the system must be set in a screed suitable for underfloor heating with the screed surface at least 8 mm above the cables. ➤ Where the Forté Timber Overlay Flooring System is to be installed over a hydronic underfloor heating system, spacing of the tubes must be no more than 150 mm and the slab surface must be no less than 30 mm from the heating tubes. ➤ Hydronic systems with exposed water pipes and electric blanket systems are not recommended for use with the Forté Timber Overlay Flooring System.

CONDITIONS OF USE

The Forté Timber Overlay Flooring System must be designed and installed in accordance with the 'Timber Overlay Flooring System Design Guide' and the 'Timber Overlay Flooring System Installation Guide'.

USEFUL INFORMATION

For design, installation and maintenance information, refer to forte.co.nz.



PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all Forté requirements, Forté Timber Overlay Flooring System will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	BASIS OF COMPLIANCE	
	Compliance statement	Demonstrated by
B1 STRUCTURE B1.3.1, B1.3.2, B1.3.3 (b, c, j)	ALTERNATIVE SOLUTION	➤ 650–720 kg/m ³ wear layer density [Forté, n.d.a-i].
B2 DURABILITY B2.3.2 (c)	ALTERNATIVE SOLUTION	➤ Rectavit 233 Ultra classified as D4 waterproof in accordance with EN 204 [Soudal, 10/2022]. ➤ Selleys Liquid Nails VBS Vapour Barrier achieves MVT of less than 15 g/m ² /24 hours for 167 micron coating [Selleys, 02/06/2013]. ➤ Tested to ISO 4760:2022E by IANZ accredited organisation. Achieved Grade 1 (no change) and no leakage [SGS, 01/02/2023]. ➤ Use of timber flooring in accordance with BRANZ advice on alternative solutions with Clause E3 of the Building Code [BRANZ, 01/11/2021]. ➤ Comparison with CodeMark certificate CMNZ70143 Version: 0 [Bureau Veritas, 20/6/2023].
C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE C3.4 (b)	VERIFICATION METHOD C/VM2	➤ Expert assessment to C/VM2, Table B1 for Critical Radiant Flux [T.A.M.S.A International, 24/05/2023]. ➤ Comparison with CodeMark certificate CMNZ70143 Version: 0 [Bureau Veritas, 20/6/2023].
D1 ACCESS ROUTES D1.3.3 (d)	ALTERNATIVE SOLUTION	➤ Tested in accordance with AS/NZS 4586. Wet test classification F: COF between 0.55 and 0.85; dry test classification X: pendulum mean 37 to 42 [Forté, n.d.a-i]. ➤ Comparison with CodeMark certificate CMNZ70143 Version: 0 [Bureau Veritas, 20/6/2023].
E3 INTERNAL MOISTURE E3.3.3, E3.3.5, E3.3.6	ALTERNATIVE SOLUTION	➤ Tested to ISO 4760:2022E by IANZ accredited organisation. Achieved Grade 1 (no change) and no leakage [SGS, 01/02/2023]. ➤ TBB evaluation of compliance with Clause E3 [TBB, 05/2023]. ➤ Use of timber flooring in accordance with BRANZ advice on alternative solutions with Clause E3 of the Building Code [BRANZ, 01/11/2021]. ➤ Comparison with CodeMark certificate CMNZ70143 Version: 0 [Bureau Veritas, 20/6/2023].
F2 HAZARDOUS BUILDING MATERIALS F2.3.1	ALTERNATIVE SOLUTION	➤ Tested to AS/NZS 2098.11 for formaldehyde emission. Achieves class E0 0.12 mg/L Artiste Grande, Indus, Loft, Moda, Ultra, Urban, Villa; achieves class E1 (0.03 mg/L) Artefact, Atelier, Smartfloor [Forté, n.d.a-i]. ➤ Use in accordance with supplier's safety instructions. ➤ Comparison with CodeMark certificate CMNZ70143 Version: 0 [Bureau Veritas, 20/6/2023].

SOURCES OF INFORMATION

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- Bureau Veritas. [20/6/2023]. *CMNZ70143 Version:0*. Retrieved from <https://www.building.govt.nz/assets/Uploads/building-code-compliance/certifications-programmes/product-certification-scheme/product-certificate-register/timber-overlay-flooring-system.pdf>. [Accessed on 19/07/2023]
- Forté. [n.d.a] *Artefact Rustic Plank Specification Sheet*. Retrieved from https://forte.co.nz/index.php?route=product/product/download&product_id=935&download_id=399. [Accessed 04/12/2023].
- Forté. [n.d.b] *Artiste Grande Plank Specification Sheet*. Retrieved from <https://forte.co.nz/resources?resource-type=specsheets-technical-datasheets>. [Accessed 01/06/2023].
- Forté. [n.d.c] *Atelier Plank 220 Specification Sheet*. Retrieved from https://forte.co.nz/index.php?route=product/product/download&product_id=159&download_id=362. [Accessed 01/06/2023].
- Forté. [n.d.d] *Loft Feature Plank Specification Sheet*. Retrieved from https://forte.co.nz/index.php?route=product/product/download&download_id=389. [Accessed 01/06/2023].
- Forté. [n.d.e] *Indus Feature Plank Specification Sheet*. Retrieved from https://forte.co.nz/index.php?route=product/product/download&product_id=712&download_id=358. [Accessed 01/06/2023].
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- Forté. [n.d.g] *Ultra Plank Specification Sheet*. Retrieved from <https://forte.co.nz/resources?resource-type=specsheets-technical-datasheets>. [Accessed 01/06/2023].
- Forté. [n.d.h] *Villa Plank Specification Sheet*. Retrieved from <https://forte.co.nz/resources?resource-type=specsheets-technical-datasheets>. [Accessed 01/06/2023].
- Forté. [n.d.i] *Moda Altro Feature Plank Specification Sheet*. Retrieved from https://forte.co.nz/index.php?route=product/product/download&product_id=555&download_id=280. [Accessed 04/12/2023].
- Forté. [n.d.j] *Urban Plank Feature Grade Specification Sheet*. Retrieved from https://forte.co.nz/index.php?route=product/product/download&product_id=462&download_id=268. [Accessed 04/12/2023].
- SGS. [01/02/2023] *Test Certificate No INZ77589-01*.
- T.A.M.S.A International. [24/05/2023] *Test Certificate No.Consult 733-1*.
- Soudal. [10/2022] *Technical Datasheet*. Rectavit 233 Ultra 01372, 01373.
- Selleys. [02/06/2013] *Liquid Nails VBS Vapour Barrier*. Technical Data Sheet V1.0.
- TBB. [05/2023] *Evaluation of the Forté Timber Overlay Flooring System with Clause E3 of the Building Code*. Version 3.

1. Where a standard is referenced it is to be read as amended by the acceptable solution or verification method as applicable. 2. Sources of information also include the Building Act 2004 and its regulations, including the Building Code (Schedule 1 of the Building Regulations 1992), Acceptable Solutions and Verification Methods, and relevant cited standards. 3. The product is not subject to a warning or ban under section 26 of the Building Act. 4. For overseas manufacturer details, where applicable, refer to the company that is the holder of this pass™. 5. The quality and assurance that the supplied products meet the performance claims stated in this pass™ are the responsibility of the company that is the holder of this pass™. 6. The availability of the information about the supplied products required to be disclosed under s14G(3) is the responsibility of the company that is the holder of this pass™.

Innovate Group Limited (Forté) confirms that if Forté Timber Overlay Flooring System is used in accordance with the requirements of this pass™ the product will comply with the NZ Building Code and other performance claims set out in this pass™ and the company has met all of its obligations under s14G(2) of the Building Act.

Date of first issue: 08/08/2023

Date of current issue: 06/12/2023

NZBN: 9429042085652

SCAN OR CLICK THIS QR CODE TO ACCESS OR REQUEST THE RELEVANT SUPPORTING DOCUMENTATION FOR THIS PASS™.

forte.co.nz



Kevin Brunton

Kevin Brunton, Technical Director, TBB confirms that the process used to prepare this pass™ on behalf of Innovate Group Limited (Forté) has been undertaken in accordance with MBIE PTS guidelines and in accordance with the TBB pass™ process which is within the scope of TBB's ISO 9001 certification.

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