Laminata

Mt Pokaka Timber Products Ltd.

Laminata XLP - Cross Laminated Pine planks

Product Technical Statement New Zealand

XLP Plank Product Technical Statement New Zealand

Use of This Product Technical Statement

Thank you for choosing to build with Laminata **XLP** plank. Mt. Pokaka manufacture Cross Laminated Pine planks (XLP) from one hundred percent natural and renewable radiata pine. Each lamella and panel is unique, even with great care by Mt. Pokaka, slight deviations in grain pattern, knot location and colour will occur. By choosing to build with **XLP** timber you are embracing the natural beauty of a renewable building material, it's perfection is in its natural imperfection. The information in this Product Technical Statement applies to Laminata Cross Laminated Pine (XLP) only. The Product Technical Statement is not intended as general information and guidance for all manufactured Cross Laminated Pine or Timber products.

Product Description	Laminata Cross Laminated Pine (XLP) Planks are structural timber planks made with layers of solid Radiata Pine lamellas arranged at right angles to one another, laminated together with a moisture cured polyurethane glue applied to the face under pressure. The 90degree cross lamination of alternate layers provides dimensional stability, strength, and rigidity.
Origin of Manufacture	Laminata **XLP** panels are manufactured at Mt. pokaka Timber Products Ltd. 1213 SH10, Kerikeri, NORTHLAND, 0293, NZ.
Scope of Use	Laminata **XLP** planks are non- structural building components for flooring, ceiling lining, and interior wall linings. Laminata **XLP** planks can be used in AS/NZS 4364:2010 Service Class 1 environments only and must be used only in non-structural applications. Laminata **XLP** planks need to be installed as an interior wall lining or ceiling sarking with adequate protection from the elements and consideration of longterm moisture control. XLP planks should not be installed in areas that may be exposed to periodic moisture.
Conditions	Laminata **XLP** planks must be installed in a controlled indoor environment. Laminata **XLP** planks are untreated and kilndried. The design of buildings using Laminata **XLP** panels must be carried out by a suitably qualified structural engineering firm that supplies PS1 and PS4 for any structural or bracing use. A maintenance plan should be devised and followed to ensure the **XLP** is not exposed to prolonged elevated moisture or conditions that would encourage mould and fungi growth. Laminata **XLP** is designed for indoor use only in areas that are not subject to wetting and should not be used in wet areas such as laundries.
Limitations	Laminata **XLP** planks should not be used in Service Class 2 or 3 environments or in areas where high levels of moisture exposure are anticipated. Then transport of moisture across the complete building envelope and the ability for moisture to be dissipated should be modelled. Laminata **XLP** planks should not be used in sites designated to have a high flood risk. The use of Laminata **XLP** planks as interior wall bracing or ceiling diaphram bracing can only be carried out by a suitably qualified structural engineering firm that supplies PS1 and PS4 for any structural or bracing use.

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New Zealand Code Compliance: Laminata **XLP** planks when designed and specified by an appropriately qualified person and approval of this design is provided by the Relevant Building Consent Authority can meet the following provisions of the New Zealand Building Code:

NZBC Building Code Clause	**Basis of Compliance**	**References**
B1 Structure B1.3.1 B1.3.2 B1.3.3 (a, b, c, f, h, q) B1.3.4 (a, b, d, e)	Design to NZS 3603:1993	SCION Testing to AS/NZS4063.1:2010 and AS/NZS4063.2:2010. P.K. Eng. Deflection Testing for spans for SED.
B2 Durability B2.3.1(c)	NZS 3602:2003 Table 3	
H 1 Energy Efficiency Provisions H1.3.1(a)(c)	The thermal conductivity of Radiata Pine in NZS 4214:2006 at 12% moisture content is defined as 0.12 W/mK	NZS 4214:2006

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Environmental	• Mt. Pokaka sources feedstock from FSC certified suppliers and favours local NZ owned forest supply to support local economy. • XLP planks use untreated pine which is a renewable resource and is a superb long term Carbon Lock.
Dimensional Stability	Across the thickness of a panel the shrinkage/expansion is 0.25% per % change in moisture content, longitudinally the shrinkage/expansion is 0.20% per % change in MC content.
Visual Appearance	Laminata XLP planks have two visual grades: Knot Spec (KW) and Clears (CW). Knot spec has tight knot specifications for visual appearance. Clears grade is knot free and utilised specifically for ceiling lining panels. Laminata XLP also had two finishes: Smooth machine finish and Brushed wire brushed finish.
Warranty	Unless otherwise specified in contract documents, Mt Pokaka warrants Laminata XLP against faulty materials or workmanship for a period of 12 months from the date of delivery of XLP to the Customer.
Maintenance & Operation	All plumbing leaks should be rectified immediately. During commissioning of the building the owner should develop a maintenance plan which incorporates measures to ensure the **XLP** is maintained in dry environment, including but not limited to reviews of: • Water proofing of building envelope including cladding, roofing & around openings/penetrations • Function & performance of ventilation • Integrity of vapour barrier • The presence of termites • The integrity of fasteners
Timber Treatment	Laminata **XLP** planks untreated and kiln dried to min 16% moisture content to comply with NZS 3602:2003 Table 3 - Interior lining and Sarking.
Durability	**XLP** planks when installed in accordance with the Laminata XLP plank installation guidance provides sufficient detailing to ensure XLP planks will not be exposed to extended periods of high humidity/moisture without the ability to adequately dry, and maintained in accordance with the recommendations provided here, are expected to have a minimum service life of 5 years.
Adhesion	Mt Pokaka utilises Henkel Loctite-Purbond adhesives which have been confirmed as Type 1 adhesives as defined in AS/NZS 4364:2010 by independent laboratories.
Fixings and Fittings	Use fasteners and other hardware which comply with building code requirements for the AS/NZS 4364:2010 Service Class environment as per fixings and fittings manufacturers specifications.
Quality Assurance	Mt. Pokaka ensures machining, glue lamination and production of the XLP plank adheres to our Quality Control Manual in line with ISO 16696. Daily and Weekly production checks are carried out to meet Henkel requirements for glue line integrity.
Product Support	Mt Pokaka has experienced sales, manufacturing, design, technical and construction teams available to assist in the design, specification and construction of XLP plank construction projects from initial project concept to development of detailed designs, manufacture and construction.

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Validity	This document is reviewed annually to ensure that it is up to date with the most recent testing and versions of the NZBC.
Related Documents	SCION - Mechanical Testing of 30, 40 & 50mm MiniCLT TE18-031 PK ENGINEERING - Report on testing of Laminata Timber
Reference Websites	https://anz.fsc.org/fsc-forest-stewardship-standard-for-new-zealand-nz-fss

Further Information

If you require further information on the properties of Mt Pokaka Laminata XLP planks please contact sales@mtpokaka.co.nz and we would be happy to assist. We can provide information and introductions to external consultants who can assist in your project and further information as appropriate.

Disclaimer

This Product Technical Statement provides information on Mt. Pokaka Laminata XLP floor, ceiling, wall planks. The information provided in this document is supplied in good faith and to the best of our knowledge was correct at the time of preparation. No responsibility can be accepted by Mt. Pokaka, its staff or its agents for any errors or omissions. Users are advised to make their own determination as to the suitability of this information in relation to their particular purposes and specific circumstances. No warranty or assurance can be given that other restrictions and or limitations to the use of XLP planks separate to the information provided may apply. Mt Pokaka disclaims all liability and responsibility for any loss or damage, direct or indirect, which may be suffered by any person acting in reliance on anything contained in or omitted from this Product Technical Statement.

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