

Title	Evaluate detailing, and prepare supporting technical evidence for pre-nailed timber structures for small buildings		
Level	5	Credits	10

Purpose	<p>This unit standard is intended for those working in timber structure detailing.</p> <p>People credited with this standard are able to evaluate detailing, and prepare supporting technical evidence for pre-nailed timber structures for small buildings to the level of performance required of a professionally competent detailer.</p>
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Classification	Construction Trades > Carpentry
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Available grade	Achieved
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Guidance Information

1 Scope

The context of this unit standard is detailing in a manufacturing environment for the production of pre-nailed timber structures used for the construction of small buildings.

2 Assessment

This unit standard is intended to align with the *New Zealand Diploma in Timber Structure Detailing – Specifications* and the *New Zealand Diploma in Timber Structure Detailing (Level 5)* [Ref: 4377].

Evidence for this standard must reflect professional competence.

Professional competence refers to the ability to work independently in order to meet the ethical and professional expectations of industry and clients on dynamic and varied projects operating in a commercial environment.

Professional competence must be confirmed by a person with current expertise in the timber structure detailing trade.

3 Definitions

Acceptable Solution and *Verification Method* are ways of evidencing that work complies with the New Zealand Building Code.

Alternative Solution is a part of the building that complies with the Building Code, but partially or completely differs from the Acceptable Solution or Verification Methods.

Proprietary design software illustrates the design capacities and compliance with the New Zealand Building Code of pre-nailed timber structures using proprietary fixings and connectors.

Small building is of residential scale with lightweight timber-framing and/or concrete or concrete masonry construction, and generally of non-specific design.

Technical evidence provides a strongly argued case to the Building Consent Authority and clearly states what Building Code clause and performance are being addressed.

Workplace procedures refers to the documented procedures specific to a work site which set out the standard and required practices of that workplace.

- 4 Legislation, standards and guidance information relevant to this standard includes the following; and any subsequent amendments and replacements.

New Zealand Diploma in Timber Structure Detailing – Specifications, BCITO, August 2021, available from www.waihanga.nz.

Legislation accessed at www.legislation.govt.nz

- Building Act 2004
- The New Zealand Building Code.

Standards accessed at www.standards.govt.nz

- NZS 3602:2003 *Timber and wood-based products for use in buildings*
- NZS 3604:2011 *Timber Framed Buildings*.

Skill specification and performance level guidance

Skill specification

Evaluate detailing, and prepare supporting technical evidence for pre-nailed timber structures for small buildings.

Knowledge

The requirements to specify Acceptable Solutions as a method to evidence compliant design solutions for pre-nailed timber structures.

The requirements to specify Verification Methods as a method to evidence compliant design solutions for pre-nailed timber structures.

The requirements to specify Alternative Solutions as a method to evidence compliant design solutions for pre-nailed timber structures.

The purpose of supporting technical evidence used to confirm products, materials, and design of pre-nailed timber structures are compliant.

Skills

Evaluate detailing solutions to identify method of demonstrating compliance with the Building Code for pre-nailed timber structures for building projects.

Range Acceptable Solution and Verification Method, Alternative Solution.

Reference relevant evidence to specify Acceptable Solutions as a means of presenting solutions for pre-nailed timber structures.

Include results from application of Verification Methods as a means of presenting solutions for pre-nailed timber structures.

Reference relevant evidence to specify Alternative Solutions as a means of presenting solutions for pre-nailed timber structures.

Analyse and prepare supporting technical evidence to confirm compliance of materials, and construction methods of pre-nailed timber structures with the New Zealand Building Code.

Performance level guidance

Performance must reflect detailing solutions for pre-nailed timber structures for buildings up to two-storey of lightweight-framed in accordance with the Building Code. Detailing solutions for pre-nailed timber structures in accordance with workplace procedures, and specific proprietary design software.

Planned review date	31 December 2026
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	16 December 2021	N/A

Consent and Moderation Requirements (CMR) reference	0048
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Waihangā Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@waihanga.nz if you wish to suggest changes to the content of this unit standard.