

Title	Use proprietary design software to produce detailing documentation for pre-nailed timber structures for small buildings		
Level	5	Credits	20

Purpose	<p>This unit standard is intended for those working in timber structure detailing.</p> <p>People credited with this standard are able to use proprietary design software to produce detailing documentation 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

The *Legislative framework* refers to the hierarchy of Acts of Parliament, Regulations, Rules, local by-laws, Codes, Standards, approved codes of practice, and best practice guidelines.

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.

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

Use proprietary design software to produce detailing documentation for pre-nailed timber structures for small buildings.

Knowledge

The types, purpose and features of documentation provided as an output of the proprietary design software used for the manufacture of pre-nailed timber structures.

The ways proprietary design software illustrates the compliancy, and economical manufacture of pre-nailed timber structures.

The parameters of data input to satisfy the requirements of the proprietary design software.

The requirements and processes used to locate and pre-set detailing and estimating functions used in proprietary design software.

The features of, and ways to interpret the graphical interface of proprietary design software.

The requirements and methods used to produce different documentation, using proprietary design software required for the manufacturing and erection of pre-nailed timber structures.

The processes and procedures for quality assuring detailing outputs using proprietary design software against compliance requirements and practicality.

The method used to input data to sequence timber structure manufacturing using proprietary design software.

The responsibilities of a detailer to manage workplace file management procedures using proprietary design software technology.

Range transferring files to computers in the factory, saving, back up files, providing detailer's plans and documentation to parties;
relevant parties include – Design Lead, Building Consent Authority (BCA), client, contractor, manufacturing team.

Ways to maintain personal currency with new proprietary design software updates and technology upgrades.

Skills

Input data using proprietary design software to produce documentation for the manufacture, and erection of pre-nailed timber structures.

Evaluate and quality assure the detailing solutions produced using the proprietary design software.

Range evaluation includes – compliancy, costs, practicality of manufacture, transportation, and on-site assembly.

Facilitate the management and sharing of relevant files produced using the proprietary design software.

Range transferring files to computers in the factory, saving, back up files, provide detailer's plans and documentation to relevant parties;
relevant parties include – Design Lead, Building Consent Authority (BCA), client, contractor, manufacturing team.

Participate proprietary design software training to maintain currency with new updates, and technology upgrades.

Performance level guidance

Performance must reflect the use of proprietary design software for timber structure detailing projects is in accordance with legislative frameworks and workplace procedures.

Providers of nail connector plates make specific proprietary design software programme; Mitek and Pryda. There may be other providers of proprietary software programmes and these skills are transferable.

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 Waihanga 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.