

Title	Analyse and apply technical data to timber structure detailing operations		
Level	5	Credits	5

Purpose	<p>This unit standard is intended for those working in timber structure detailing.</p> <p>People credited with this standard are able to analyse and apply technical data to timber structure detailing operations 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

Ambiguity refers to when information in documentation from Design Leads, building companies or customers is unclear or a design fault and requires clarifying.

Design lead refers to the architect or draftsman responsible for the overall design of the building.

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
- Health and Safety at Work Act 2015
- The New Zealand Building Code.

Standards accessed at www.standards.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

Analyse and apply technical data to timber structure detailing operations.

Knowledge

The purpose of architectural drawings, specifications, specific engineering designs (SEDs), and supporting documentation required for timber structure detailing operations.

Range specifications include – performance, prescriptive, proprietary, transportation, lifting, safety requirements.

The key conventions used to gain meaning from a cohesive set of technical data used for timber structure detailing operations.

Range includes – terminology, drawing types, scales, symbols, dimensions, abbreviations.

The procedures required to provide solutions for design ambiguity identified in the technical data provided for timber framed small buildings.

Skills

Interpret and apply information in technical data to programme data into proprietary design software for timber structure detailing operations.

Analyse and evaluate provided technical data to ensure information used for programming into proprietary design software meets building compliance, and provide technical evidence to address ambiguity identified in designs.

Interpret and apply information from relevant workplace detailing and manufacturing documentation to timber structure detailing operations.

Interpret and apply supporting documentation to timber structure detailing operations.

Range may include documents used for – transportation, on-site assembly.

Performance level guidance

Performance must reflect the skills for relevant parties in the manufacture, transportation, and on-site placement and assembly of pre-nailed timber structures.

Performance must reflect legislative frameworks, specific proprietary design software requirements, and workplace procedures.

Technical data is provided from design leads and may be architectural drawings, specifications, and/or SEDs.

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.