

<b>Title</b>	<b>Demonstrate knowledge of wall frame construction</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this unit standard are able to demonstrate knowledge of: the structural requirements and design principles for the construction of timber wall framing; and methods of setting out, assembling and erecting timber wall framing for wall frame construction.
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<b>Classification</b>	Construction Trades > Carpentry Theory
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<b>Available grade</b>	Achieved
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## Guidance Information

### 1 Definitions

*Industry practice* refers to the ability to demonstrate knowledge that reflects the uniformity, finish quality and material economies currently accepted within industry.

*Industry standards* are standards that are documented and recognised by industry, and are relevant to the building material used. Standards relevant to this unit standard are listed in Guidance Information note 3.

*Specific design* is a design that ensures compliance with the Building Act 2004 when the construction requirements of a building deviates from, or is beyond the scope of recognised industry standards (New Zealand Standards, Australia/New Zealand Standards, British Standards and other published standards that govern the construction industry).

2 Credit for this unit standard indicates compliance with industry practice.

3 Legislation and publications relevant to this unit standard include:

Building Act 2004;

New Zealand Building Code;

available from <https://www.legislation.govt.nz/>

NZS 3604:2011 *Timber-framed buildings*

NZS 3602:2003 *Timber and wood-based products for use in building* available from Standards New Zealand [www.standards.co.nz](http://www.standards.co.nz);

and all subsequent amendments and replacements.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of the structural requirements and design principles for the construction of timber wall framing.

**Performance criteria**

1.1 Wall framing components are identified and described in terms of their structural requirements and design principles, including an explanation of their location and purpose.

Range plates, including raking plates; common stud, supporting stud, trimming stud, critical stud, trimmers, lintels, beams, dwangs (noggins), ribbon boards, posts, bracing, sills, fixings, jacks.

1.2 Methods of achieving bracing requirements are described in terms of structural requirements and design principles, and in accordance with industry standards and manufacturer’s recommendations.

Range sheet diaphragm, proprietary systems.

**Outcome 2**

Demonstrate knowledge of methods of setting out, assembling and erecting timber wall framing for wall frame construction.

Range single, two-storey.

**Performance criteria**

2.1 Methods of setting out wall framing components are determined and described in terms of their design principles and the consequences for structural integrity, and in accordance with industry standards and/or specific design.

Range plates, including raking plates; common stud, supporting stud, trimming stud, critical stud, trimmers, lintels, beams, dwangs (noggins), ribbon boards, posts, bracing, sills, fixings, jacks.

2.2 Methods of assembling and erecting wall framing members are determined and described in terms of design principles and their consequences for structural integrity, and in accordance with industry standards and/or specific design.

Range use of connectors, provision of bracing elements, temporary bracing.

<b>Planned review date</b>	31 December 2027
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	19 January 2012	31 December 2025
Review	2	30 March 2023	N/A

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

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### Comments on this unit standard

Please contact the Waihanga Ara Rau Construction and Infrastructure Workforce Development Council [qualifications@waihangaararau.nz](mailto:qualifications@waihangaararau.nz) if you wish to suggest changes to the content of this unit standard.