

<b>Title</b>	<b>Explain the requirements of a detail sheet for steel fixing</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this standard can: <ul style="list-style-type: none"> <li>– explain items on a detail sheet for steel fixing; and</li> <li>– complete the requirements of a detail sheet for steel fixing.</li> </ul>
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<b>Classification</b>	Concrete > Concrete Construction
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<b>Available grade</b>	Achieved
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### Guidance Information

1 Legislation and standards relevant for this unit standard are:

- Building Act 2004;
- Health and Safety at Work Act 2015;
- Building Regulations 1992;
- NZS 3109:1997 *Concrete construction*;
- AS/NZS 4671:2019 *Steel for the reinforcement of concrete*.

2 Assessment

This unit standard must be assessed by a commercially competent practitioner who holds any required permits in workplace conditions that reflect:

- current health, safety, industry, and workplace requirements;
- industry requirements for commercially acceptable timeframes.

Evidence generated for assessment against this standard must be verified by a person who has current expertise in the building and construction or infrastructure trades and has had the opportunity to regularly observe the candidate in the workplace.

3 Work must be completed without injury to personnel or damage to products and equipment. Any required hazard control procedures must be in place and personal protective equipment must be used to meet regulatory and worksite requirements.

4 Evidence generated for assessment against this standard must reflect workplace and industry requirements specified in:

- health and safety plans;
- environmental plans;
- project documents;
- manufacturer's recommendations, specifications, and technical data sheets;
- applicable material safety data sheets.

**5 Definitions**

*Detail sheet* refers to the specific reinforcing sheets or bending schedules to provide reinforcing details for steel fixing.

*Industry requirements* may refer to but are not limited to relevant policies, processes, methodologies, industry codes of practice, site specific health and safety plans, standard operating procedures, site safety plans, quality plans, work plans, traffic management plans, contract work programmes, job safety analysis, safe work method statements, job instructions, manufacturer's requirements, contract specifications, manuals, and procedural documents.

**Outcomes and performance criteria****Outcome 1**

Explain items on a detail sheet for steel fixing.

**Performance criteria**

1.1 The requirements of the detail sheet are explained in terms of content.

Range requirements may include but are not limited to – dimensions, numbers, bar items, grades, diameters, abbreviations, symbols, codes, labels, gridlines; evidence of six requirements is required.

1.2 Terms used in detail sheets are explained and their application identified in accordance with industry requirements

Range terms include – longits, trans bars, dummy bar, lacer bar, saddle bar, haunch bars, u-bars.

1.3 Reinforcing bars are explained in terms of type and their use for different structures.

Range structures include – foundation beam, foundation base, floor slabs, walls, columns, bridge abutments.

1.4 Reinforcing bar diameters and grades are explained in accordance with industry requirements.

Range 300E and 500E bars.

1.5 Bar and mesh chairs are explained in terms their type and installation.

1.6 Coupler are explained in terms of their type and purpose.

**Outcome 2**

Check the requirements of a detail sheet for steel fixing.

**Performance criteria**

2.1 Locate and identify specified items on a detail sheet.

Range items include – stirrups, links, long bars, corner bars, fittings.

2.2 Items are measured correctly and align with the dimensions on the detail sheet.

<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	25 August 2022	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>.

**Comments on this unit standard**

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