

Title	Construct substrates for structural steel framework roofs under supervision		
Level	3	Credits	6

Purpose	<p>People credited with this standard can, under supervision:</p> <ul style="list-style-type: none"> • install plywood sarking on a steel framework; • construct framing and trim for roof systems on a steel framework; and • clean and store tools, plant, and equipment used to construct substrates for structural steel framework roofs.
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Classification	Construction Trades > Carpentry
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Available grade	Achieved
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Guidance Information

1 Scope of practice

Working *under supervision* means the ability to work to construction workplace standards under the supervision of a commercially competent practitioner whose role is to ensure the completed construction meets industry and regulatory requirements. This standard does not recognise commercial competence.

2 Assessment

This unit standard must be assessed under the supervision of a commercially competent practitioner in construction workplace conditions that reflect:

- current health, safety, industry, and workplace requirements; and
- 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 trades and has had the opportunity to regularly observe the candidate in the workplace.

3 Range

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

- documented worksite specifications, procedures, and practices;
- manufacturer recommendations, specifications, and technical data sheets;
- applicable specifications from other sources such as an architect, designer, engineer, or supervisor;
- applicable material safety data sheets;
- AS/NZS 4600:2005 *Cold-formed steel structures*;
- NZS 3404 Parts 1 and 2:1997 *Steel structures standard*;
- the New Zealand Building Code.

Evidence generated for assessment against this standard must reflect the requirements of:

- Building Act 2004
- Health and Safety at Work Act 2015
- Resource Management Act 1991
- Building Regulations 1992
- Building (Forms) Regulations 2004
- Health and Safety in Employment Regulations 1995.

4 References

NZS 3404 *Parts 1 and 2:1997 Steel structures standard*. Available from Standards NZ (<http://www.standards.co.nz>).

AS/NZS 4600:2005 *Cold-formed steel structures*. Available from Standards NZ (<http://www.standards.co.nz>).

Outcomes and performance criteria

Outcome 1

Install plywood sarking on a steel framework under supervision.

Performance criteria

1.1 Identify the required roof cladding system using the site documentation.

1.2 Identify the plywood sarking specified in the site documentation.

Range grade, treatment, thickness, fastening systems.

1.3 Install a specified plywood sarking on a steel framework.

Range layout, fixings, fixing centres, edge fixing.

Outcome 2

Construct framing and trim for roof systems on a steel framework under supervision.

Performance criteria

2.1 Form a framing system for internal guttering and sumps to falls specified in the site documentation.

2.2 Line the framing with the material specified in the site documentation. Install angle fillets in all internal corners.

2.3 Frame and trim penetrations to the specifications in the site documentation.

2.4 Allow for flashings according to the site documentation.

- 2.5 Construct framing and trim for fascia and soffits to meet the specifications in the site documentation.
- 2.6 Identify and address any other timber work required before the roof cladding can be installed.

Outcome 3

Clean and store tools, plant, and equipment used to construct substrates for structural steel framework roofs.

Range plant includes – any machinery, vehicle, vessel, aircraft, equipment (including personal protective equipment), appliance, container, implement, or tool; any component of any of those things; anything fitted or connected to any of those things;
personal protective equipment includes – anything used or worn by a person (including clothing) to minimise risks to the person’s health and safety;
air-supplied respiratory equipment.

Performance criteria

- 3.1 Clean workplace, tools, and plant used to construct substrates for structural steel framework roofs.
- 3.2 Store tools and plant used to construct substrates for structural steel framework roofs.

Replacement information	This unit standard replaced unit standard 24365.
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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	30 September 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 the Building and Construction Industry Training Organisation at national.office@bcito.org.nz if you wish to suggest changes to the content of this unit standard.