

<b>Title</b>	<b>Demonstrate knowledge of and construct fibrous plaster radiant heating panels in a factory</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	People credited with this unit standard are able to: describe methods used to construct fibrous plaster radiant heating panels in a factory; make element grid in a factory for fibrous plaster radiant heating panels; and cast fibrous plaster radiant heating panels and arrange for testing and tagging, in a factory.
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<b>Classification</b>	Construction Trades > Fibrous Plaster
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Definitions  
*Green panels* means freshly cast panels of fibrous plaster that have yet to be dried.  
*Services* means any electrical power system or other outlet for the reticulation of services to the panel.  
*Specifications* refers to documented instructions (oral, written, graphic) and may include any of the following: manufacturer’s specifications, recommendations or technical data sheets; material specifications; specifications from a specialist source such as an architect, designer, engineer or a supervisor; site or work specific requirements.
- 2 All work practices must comply with the following:  
 Health and Safety in Employment Act 1992 and Health and Safety in Employment Regulations 1995; Resource Management Act 1991; Building Act 2004; New Zealand Building Code.
- 3 Credit for this unit standard indicates compliance with industry practice. *Industry practice* refers to the ability to demonstrate knowledge and skills that reflect the productivity, uniformity, finish quality and material economies currently accepted within industry.

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### Outcomes and performance criteria

#### Outcome 1

Describe methods used to construct fibrous plaster radiant heating panels in a factory.

**Performance criteria**

- 1.1 Method of making element grid is described in accordance with radiant heating panel design.
- 1.2 Method of preparing mould is described in accordance with factory requirements.
- 1.3 Method of casting panel is described in accordance with factory requirements.
- 1.4 Method of testing element grid for electrical continuity is described in accordance with factory requirements.
- 1.5 Method of curing and storing green radiant heating panels is described in accordance with factory requirements.

**Outcome 2**

Make element grid in a factory for fibrous plaster radiant heating panels.

**Performance criteria**

- 2.1 Framework for element grid is made in accordance with radiant heating panel design.
- 2.2 Specified wire for element grid is run on framework in accordance with factory requirements.
- 2.3 Element grid is tested for electrical continuity.

**Outcome 3**

Cast fibrous plaster radiant heating panels in a factory and arrange for testing and tagging.

**Performance criteria**

- 3.1 Moulds are prepared in accordance with factory requirements.
- 3.2 Plaster is mixed, panels are cast and reinforced, and element grid is placed and checked in accordance with manufacturer's specifications and industry practice.
- 3.3 Green panels are dried and stored to factory requirements.
- 3.4 Testing and tagging of radiant heating panels by a registered electrician is arranged.
- 3.5 All operations are completed, workplace, tools and moulds are cleaned, and tools and moulds are stored in accordance with factory requirements.

**This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.**

**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	18 January 1996	31 December 2024
Revision	2	5 July 1999	31 December 2024
Review	3	29 August 2000	31 December 2024
Revision	4	18 May 2005	31 December 2024
Review	5	20 April 2006	31 December 2024
Review	6	25 January 2008	31 December 2024
Review	7	26 May 2022	31 December 2024

**Consent and Moderation Requirements (CMR) reference**

0048

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.