

<b>Title</b>	<b>Install glass floors and treads</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>6</b>

<b>Purpose</b>	<p>A person credited with this standard can:</p> <ul style="list-style-type: none"> <li>• explain compliance requirements for installing glass floors and treads;</li> <li>• explain glass types and finishes used in floor and tread installation;</li> <li>• prepare to install glass floors and treads;</li> <li>• install glass floors and treads; and</li> <li>• complete cleaning and storage requirements.</li> </ul>
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<b>Classification</b>	Construction Trades > Glazing
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<b>Available grade</b>	Achieved
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## Guidance Information

### 1 Assessment

This unit standard must be assessed under the supervision of a commercially competent glazing practitioner in 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 glazing trades and has had the opportunity to regularly observe the candidate in the workplace.

Installation must be completed without injury to personnel or damage to products and equipment. Personal protective equipment must be used to meet regulatory and worksite requirements.

### 2 Definitions

*Personal protective equipment* includes – anything used or worn by a person (including clothing) to minimise risks to the person's health and safety

*Worksite requirements* refer to instructions to staff on policy and procedures which are documented in manual format and are available in the workplace. These requirements include – company specifications and procedures, work instructions, manufacturer's specifications, product quality specifications, legislative requirements.

### 3 Range

Glass floor, glass treads.

- 4 Evidence generated for assessment against this standard must reflect the best practice guidelines and principles specified in:
- NZS 4223.3:2016. *Glazing in buildings – Part 3: Human impact safety requirements*;
  - AS/NZS 1170.0:2002. *Structural design actions - Part 0: General principles*;
  - AS/NZS 1576.1:2019. *Scaffolding - Part 1: General requirements*;
  - AS/NZS 4586:2004. A1. *Slip resistance classification of new pedestrian surface materials*;
  - AS/NZS 4668:2000. *Glossary of terms used in the glass and glazing industry*.
- AS/NZS and NZS standards are available at <http://www.standards.govt.nz>.

## 5 References

New Zealand. Ministry of Business, Innovation & Employment – Hīkina Whakatutuki. (2017). *Safety of entry/exit to the building and the safety of any internal or external stairs. For New Zealand Building Code Clause D1 Access routes*, available at: <https://www.building.govt.nz/building-code-compliance/d-access/d1-access/routes>.

## Outcomes and performance criteria

### Outcome 1

Explain compliance requirements for installing glass floors and treads.

#### Performance criteria

1.1 Explain the compliance requirements for glass floor and tread installation

Range installation to design specifications, producer statement responsibilities, drilled hole sizes and locations, structural hardware and fixing selection, structural design limitations, structural assembly methods, building code requirements.

1.2 Explain how non-slip finishes are achieved on glass used for floor and tread installations to meet compliance requirements.

### Outcome 2

Explain glass types and finishes used in floor and tread installation.

2.1 Explain the advantages and disadvantages of the types of glass used to install glass floors and treads.

Range two of – annealed laminated, heat-strengthened laminated, toughened laminated.

### Outcome 3

Prepare to install glass floors and treads.

Range structural silicone fix, mechanical fix.

**Performance criteria**

3.1 Confirm the design requirements and job specifications with the customer before work begins.

Range design details, dimensions, drawings, product information, site operational procedures.

3.2 Check and gather equipment, tools, and installation materials before work begins.

3.3 Undertake a site check for the installation.

Range measurements, floor levels and allowance for floor finishes, suitability and location of fixing provisions, surrounds are plumb and/or level, installation hazards or problems.

3.4 Plan the installation.

Range time, review working drawings and engineering requirements, availability of materials.

**Outcome 4**

Install glass floors and treads.

Range structural silicone fix, mechanical fix.

**Performance criteria**

4.1 Set out the glass to meet the job specifications.

4.2 Install mechanically fixed glass floor or treads to meet a job specification.

Range fit and fix hardware, fit glass.

4.3 Install structural silicone fixed glass floor or treads to meet the job specification.

Range fit frame, fit glass, block glass, silicone.

4.3 Provide information to the customer about any relevant maintenance and warranty requirements.

**Outcome 5**

Complete cleaning and storage requirements.

**Performance criteria**

- 5.1 Clean and store tools and plant used to install glass floors and treads.
- Range plant may include – any machinery, vehicle, equipment (including personal protective equipment) used in a glazing operation.
- 5.2 Clean the installation and clear and clean the work area.

<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	18 June 2015	31 December 2024
Review	2	24 November 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 Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at [qualifications@waihangaararau.nz](mailto:qualifications@waihangaararau.nz) if you wish to suggest changes to the content of this unit standard.