

<b>Title</b>	<b>Install a simple frameless glazing system</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	<p>A person credited with this standard can:</p> <ul style="list-style-type: none"> <li>- explain compliance requirements for simple frameless glazing system installations;</li> <li>- prepare to install a simple frameless glazing system; and</li> <li>- install a simple frameless glazing system.</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 frameless glazing installation and has had the opportunity to regularly observe the candidate in the workplace.

Glazing 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

A *simple frameless glazing system* involves 2-4 panels of toughened glass joined with mechanical fixings which may include brackets, hinges, handles, spigots, channels or stand-offs and silicone. Typical uses include shower enclosures, doors and entrance ways and balustrade systems.

*Personal protective equipment (PPE)* 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 Evidence generated for assessment against this standard must reflect best practice guidelines and principles specified in:

- NZS 4223.1:2008. *Glazing in buildings – Part 1: Code of practice for glazing in buildings – Glass selection and glazing*;
- NZS 4223.2:2016. *Glazing in buildings – Part 2: Insulating glass units*;
- NZS 4223.3:2016. *Glazing in buildings – Part 3: Human impact safety requirements*;
- NZS 4223.4:2008. *Glazing in buildings – Part 4: Wind, dead, snow, and live actions*;
- AS/NZS 4666:2012. *Insulating glass units*;
- AS/NZS 4667:2000. *Quality requirements for cut-to-size and processed glass*;
- AS/NZS 4668:2000. *Glossary of terms used in the glass and glazing industry*;
- AS/NZS 1170.0:2002. *Structural design actions, part 0: General principles*;
- AS/NZS 1170.1:2002. *Structural design actions, part 1: Permanent, imposed and other actions*;
- AS/NZS 1170.2:2021. *Structural design actions, part 2: Wind actions*;
- AS/NZS 1170.3:2003. *Structural design actions, part 3: Snow and ice actions*;
- AS/NZS 1170.5:2004. *Structural design actions, part 5: Earthquake actions – New Zealand*.

AS/NZS and NZS standards are available at <http://www.standards.govt.nz>.

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## Outcomes and performance criteria

### Outcome 1

Explain compliance requirements for simple frameless glazing system installations.

Range shower enclosures, doors and entrance ways, and balustrade systems.

### Performance criteria

1.1 Explain compliance requirements for frameless glazing systems.

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

1.2 Explain sealant and glazing materials compatibility for frameless glazing systems.

Range sealant compatibility, sealant function.

### Outcome 2

Prepare to install a simple frameless glazing system.

Range one of – shower enclosure, entrance way, balustrade.

**Performance criteria**

2.1 Confirm job requirements against job instructions.

Range requirements include – quote details, drawings and specifications, product information, applicable codes and regulations.

2.2 Check and gather equipment, tools, and glazing materials before work begins.

2.3 Undertake a site check before installation begins.

Range verification of job specifications with site conditions, measurements, surrounds are plumb and/or level, fixing provisions, installation hazards or problems, tolerances, presence of structure for fixings.

2.4 Gauge and plan for allowances if required to fit installation.

**Outcome 3**

Install a simple frameless glazing system.

**Performance criteria**

3.1 Position and fix glass to meet job specifications.

Range perimeter installation, tolerances, glass placement, quality checks and alignments, glass fixing, hardware installation.

3.2 Install hardware, fittings, and accessories to meet job specifications.

3.3 Clean the glazing.

3.4 Provide the customer with information about maintenance requirements.

<b>Planned review date</b>	31 December 2029
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	28 November 2024	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 Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at [qualifications@waihangaararau.nz](mailto:qualifications@waihangaararau.nz) if you wish to comment on the content of this unit standard.