

<b>Title</b>	<b>Glaze an entrance using frameless toughened glass</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 glazing frameless toughened glass entrances;</li> <li>• prepare to glaze an entrance using frameless toughened glass;</li> <li>• glaze an entrance using frameless toughened glass; 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.

- 2 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.

#### 3 Definition

*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.

- 4 Evidence generated for assessment against this standard must reflect the 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>.

## Outcomes and performance criteria

### Outcome 1

Explain compliance requirements for glazing frameless toughened glass entrances..

#### Performance criteria

1.1 Explain compliance requirements for glazing frameless toughened glass entrances.

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

1.2 Explain sealant and glazing materials compatibility for glazing frameless toughened glass entrances.

Range structural integrity, bite size, sealant compatibility, sealant function.

### Outcome 2

Prepare to glaze an entrance using frameless toughened glass.

#### Performance criteria

2.1 Confirm the 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 work begins.

Range measurements, fixing and floor spring provisions, surrounds are plumb and/or level, installation hazards or problems.

### Outcome 3

Glaze an entrance using frameless toughened glass.

#### Performance criteria

3.1 Glaze an entrance using toughened glass to meet the job specifications.

Range includes – perimeter installation, glass placement, glass fixing, hardware installation.

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

Range fit door handles and seals, fit cover plates, mark glass that can be mistaken for unimpeded path of travel; fittings include – floor springs, floor pivots, overhead closers, channels, fixings, rails and locks.

3.3 Provide the customer with information about maintenance requirements.

### Outcome 4

Complete cleaning and storage requirements.

#### Performance criteria

4.1 Clean and store tools and plant used to glaze entrances using toughened glass.

Range plant may include – any machinery, vehicle, equipment (including personal protective equipment) used in a glazing operation.

4.2 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	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>.

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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 suggest changes to the content of this unit standard.