

<b>Title</b>	<b>Glaze a security glass system</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>2</b>

<b>Purpose</b>	<p>A person credited with this standard can:</p> <ul style="list-style-type: none"> <li>• explain performance and compliance requirements for glazing security glass systems;</li> <li>• prepare to glaze a security glass system;</li> <li>• glaze a security glass system; 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 Installations 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 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.

- 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*;
- ASTM F1233-21 *Standard Test Method for Security Glazing Materials and Systems*; <https://www.astm.org/f1233-21.html>

- BS EN 356:2000 *Glass in building. Security glazing. Testing and classification of resistance against manual attack*;
  - NZS 3604:2011 *Timber-framed buildings*.
- AS/NZS and NZS standards are available at <http://www.standards.govt.nz>.

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## Outcomes and performance criteria

### Outcome 1

Explain performance and compliance requirements for glazing security glass systems.

#### Performance criteria

1.1 Explain the performance requirements for security glass systems.

Range situation, intruder resistance, bullet resistance, extreme weather event resistance, visual control, containment and safety of occupants, spalling.

1.2 Explain the compliance requirements for security glass systems.

Range testing protocols, security standards.

### Outcome 2

Prepare to glaze a security glass system.

#### Performance criteria

2.1 Confirm the design requirements and job specifications before work begins.

Range specification, design details, glass selection, dimensions, architectural drawings, product information, sealant, and fixing selection, site operational procedures.

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

2.3 Undertake a site check for the installation.

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

2.4 Plan the installation.

Range cost, time, working drawings, engineering requirements, availability of materials, access, site requirements, adherence to testing specification.

**Outcome 3**

Glaze a security glass system.

**Performance criteria**

3.1 Confirm the glass and glazing components meet the design requirements and job specifications.

Range glass, sealant, tapes, glazing wedge, blocks.

3.2 Glaze security systems to meet a job specification.

Range remove beads around opening, place setting blocks, tape rebate, position glass, fit tapes, fix beads, seal perimeter.

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

**Outcome 4**

Complete cleaning and storage requirements.

**Performance criteria**

4.1 Clean and store tools and plant used to glaze a security glass system.

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

4.2 Clean the security glass and clear and clean the work area.

<b>Replacement information</b>	This unit standard and unit standard 33083 replaced unit standard 28763.
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<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.