

Title	Install glass balustrade systems		
Level	4	Credits	7

Purpose	<p>A person credited with this standard can:</p> <ul style="list-style-type: none"> • explain compliance requirements for glass balustrade system installation; • install glass balustrade systems; and • complete cleaning and storage requirements.
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Classification	Construction Trades > Glazing
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Available grade	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 Range

Balustrade systems may include – frameless and semi frameless systems and pool fencing.

4 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.

- 5 Evidence generated for assessment against this standard must reflect the best practice guidelines and principles specified in:
- NZS 3604:2011. *Timber-framed buildings*;
 - NZS 4223.1:2008. *Code of practice for glazing in buildings - Glass selection and glazing Part 1*;
 - 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 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 1576.1:2019. *Scaffolding - Part 1: General requirements*.
- AS/NZS and NZS standards are available at <http://www.standards.govt.nz>.

Outcomes and performance criteria

Outcome 1

Explain compliance requirements for glass balustrade system installation.

Performance criteria

- 1.1 Explain compliance requirements for glass balustrade system installation.

Range installation to design specifications, producer statement responsibilities.

Outcome 2

Install glass balustrade systems.

Range free standing, cantilevered, infill.

Performance criteria

- 2.1 Confirm customer requirements and job specifications before beginning work.

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

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

- 2.3 Undertake an installation site check.

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

- 2.4 Prepare any templates required to shape glass balustrade sections to meet the job specifications.
- 2.5 Check and confirm any required scaffolding is erected and complies with regulatory requirements before use.
- Range non-notifiable scaffolding, notifiable scaffolding.
- 2.6 Install glass and system to meet the job specifications.
- Range system specification matches consented drawings, locations measurement, fit hardware, fit glass, finish hardware, fit handrail.
- 2.7 Provide information to the client about maintenance and warranty requirements.

Outcome 3

Complete cleaning and storage requirements.

Performance criteria

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

Replacement information	This unit standard, unit standard 20504, unit standard 20512, unit standard 20518, unit standard 20519, and unit standard 20521 replaced unit standard 2042, unit standard 2044, and unit standard 2047.
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Planned review date	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	27 April 2004	31 December 2013
Review	2	21 May 2010	31 December 2017
Review	3	18 June 2015	31 December 2024
Review	4	24 November 2022	N/A

Consent and Moderation Requirements (CMR) reference	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 Waihangā Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@waihangaararau.nz if you wish to suggest changes to the content of this unit standard.