

Title	Demonstrate knowledge of making and installing flashings for profiled metal roofing and cladding		
Level	4	Credits	5

Purpose	<p>This unit standard is for people who work in the plumbing industry.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> – demonstrate knowledge of flashings for profiled metal roofing and wall cladding; – describe designing, drawing, preparing, and installing flashings; and – demonstrate knowledge of regulatory requirements, selection of methods and materials, and underpinning concepts and principles, as applied to the installation of flashings.
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Classification	Plumbing, Gasfitting and Drainlaying > Plumbing
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Available grade	Achieved
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Guidance Information

- 1 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to:

Building Act 2004;

New Zealand Building Code (Building Regulations 1992 – Schedule 1);

Health and Safety at Work Act 2015;

Plumbers, Gasfitters, and Drainlayers Act 2006;

Plumbers, Gasfitters, and Drainlayers Regulations 2010.

The following standards, which are available at <http://www.standards.govt.nz>:

NZS 3604:2011 *Timber-framed buildings*,

AS/NZS 2728:2013 Prefinished/prepainted sheet metal products for interior/exterior building applications – Performance requirements,

AS/NZS 3500.3:2021 Stormwater Drainage.

The following Building Code clauses, and any related Acceptable Solution and Verification Method documents, which are available at <https://www.building.govt.nz>:

New Zealand Building Code Clause E2 External Moisture;

New Zealand Building Code Clause G11 Gas as an Energy Source.

The following guide, which is available at <https://www.metalroofing.org.nz/>:

New Zealand Metal Roof and Wall Cladding Code of Practice.

Any new, amended or replacement referenced standards, codes of practice, guidelines, Building Code Acceptable Solutions and Verification Methods, or authority requirements affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.

2 Definitions

Job requirements refer to specific requirements of the job at hand not covered by job specifications.

Job specifications refer to instructions (oral, written, graphic) and may include any of the following – manufacturer instructions; design drawing detail specifications; specifications from a specialist source such as an architect, designer, engineer, or a supervisor; and site or work specific requirements.

- 3 Candidates must hold a current limited certificate trainee authorisation or exemption under supervision as issued under the Plumbers, Gasfitters, and Drainlayers Act 2006.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of flashings for profiled metal roofing and wall cladding.

Performance criteria

- 1.1 Describe how to determine appropriate flashings, flashing dimensions, materials, and quantities to meet job requirements.
- 1.2 Describe the use of primary flashing materials for the installation of flashings for profiled metal roofing and wall cladding.
- 1.3 Determine appropriate auxiliary products and materials for the installation of flashings for profiled metal roofing and wall cladding, and describe their use.
- Range includes but is not limited to – bitumenised foam, flexible edge, sealant, fixings.
- 1.4 Describe considerations to manage product compatibility between roofing or cladding and flashing material.

Outcome 2

Describe designing, drawing, preparing, and installing flashings.

Performance criteria

- 2.1 Describe how to design, draw, and prepare flashings in accordance with job specifications and regulatory requirements.
- 2.2 Describe the prevention of capillary action and corrosion.

- 2.3 Describe the process for installing required flashings suitable for different profiled metal roofing profiles and environments.

Range ridge, barge, valley, apron, parapet, gutter apron.

- 2.4 Describe the process for installing required flashings suitable for different wall cladding profiles and environments.

Range head, sill and jambs of window, top of wall, bottom of wall (including vermin proofing), internal and external corner.

- 2.5 Describe the process for visually inspecting completed flashing installation work to ensure it meets the job specifications.

Range watertight, visually acceptable, any repair work to be completed.

Outcome 3

Demonstrate knowledge of regulatory requirements, selection of methods and materials, and underpinning concepts and principles, as applied to the installation of flashings.

Performance criteria

- 3.1 Describe applicable sections of legislation, standards, and codes in terms of their application to the installation of flashings to profiled metal roofing and wall cladding.

- 3.2 Justify selection of methods and materials.

Range job specifications, operation of the installed system and components, suitability and durability of materials; may include job requirements.

- 3.3 Describe purposes and processes of management of chemical properties of flashing materials.

Range includes but is not limited to – corrosion, capillary attraction, expansion and contraction.

Replacement information	This unit standard, unit standard 30545, unit standard 30546, unit standard 30547, and unit standard 30549 replaced unit standard 21884.
Planned review date	31 December 2029

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 October 2017	31 December 2028
Review	2	30 May 2024	N/A

Consent and Moderation Requirements (CMR) reference

0003

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 qualifications@waihangaararau.nz if you wish to suggest changes to the content of this unit standard.