

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 demonstrate knowledge of:</p> <ul style="list-style-type: none"> – flashings for roofing and wall cladding; – designing, drawing, preparing, and installing flashings; and – 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 References

Building Act 2004;
 Health and Safety at Work Act 2015;
 Plumbers, Gasfitters, and Drainlayers Act 2006;
 Plumbers, Gasfitters, and Drainlayers Regulations 2010;
 The following clauses, current versions, and any related compliance 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;
 and all subsequent amendments and replacements.
- 2 Definitions

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

Job specifications – 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. Where job specifications are in conflict with applicable legislation, standards, and/or codes, such legislation, standards, and/or codes shall take precedence for the purpose of assessment.
- 3 Candidates must hold a current limited certificate 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 roofing and wall cladding.

Performance criteria

- 1.1 Explain key attributes of flashings for profiled metal roofing and wall cladding.
- Range must include but is not limited to – negative/positive detail flashings, flexible edge, sealant, fixings.
- 1.2 Explain how to determine appropriate flashing dimensions, materials, and quantities to meet job requirements.
- 1.3 Describe considerations to manage product compatibility between roofing or cladding and flashing material.

Outcome 2

Demonstrate knowledge of designing, drawing, preparing, and installing flashings.

Performance criteria

- 2.1 Describe how to design, draw, and prepare flashings in accordance with job specifications.
- 2.2 Describe the prevention of capillary action and corrosion.
- 2.3 Describe the process for installing required flashings suitable for different roofing profiles and environments.
- Range ridge, barge, valley, apron, parapet, gutter apron; evidence of two is required
- 2.4 Describe the process for installing required flashings suitable for different wall cladding profiles and environments.
- Range head, base, internal and external corner, vermin proofing; evidence of two is required
- 2.5 Describe how to ensure installed flashings achieve weather tightness.

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, prudent use and longevity of materials; may include job requirements.

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

Range must include 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.
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Planned review date	31 December 2022
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 October 2017	N/A

Consent and Moderation Requirements (CMR) reference	0003
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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 The Skills Organisation reviewcomments@skills.org.nz if you wish to suggest changes to the content of this unit standard.