

Title	Demonstrate knowledge of the system characteristics and installation process for translucent roofing systems		
Level	3	Credits	8

Purpose	<p>This unit standard is intended for use in the training and assessment of people carrying out translucent roof installation and covers knowledge of the system characteristics and installation process for translucent roofing systems.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> - describe common translucent roof installation problems; - demonstrate knowledge of the system characteristics of translucent roof; and - describe translucent roof installation processes.
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Classification	Plumbing, Gasfitting and Drainlaying > Roofing
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Available grade	Achieved
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Guidance Information

- 1 This unit standard has been developed for learning and assessment on-job and off-job.
- 2 References
 Construction Contracts Act 2002;
 Historic Places Act 1993;
 Local Government Act 2002;
 Building Act 2004 and associated regulations;
 Health and Safety at Work Act 2015;
 Resource Management Act 1991;
 Acceptable Solutions and Verification Methods for New Zealand Building Code Clause E2 External Moisture;
 New Zealand Metal Roof and Wall Cladding Code of Practice;
 Licensed Building Practitioner Scheme – Understanding the Regulatory Environment Booklet – available at: <http://www.business.govt.nz/lbp/the-board/getting-licensed/applying-for-licensing>;
 NZS 3604:2011 Timber-framed buildings;
 NZS 3902:2004 Housing, alterations and small buildings contract;
 NZS 4121:2001, Design for access and mobility: Buildings and associated facilities;
 New Zealand Building Code Hand Book – available at: <http://www.building.govt.nz/building-code-compliance/building-code-and-handbooks/building-code-handbook>;
 and all subsequent amendments and replacements.

- 3 This unit standard applies to both new roof and re-roofing installations.
- 4 Range
- a Candidates must refer to current legislation and Standards during assessment.
 - b Demonstration of safe working practices are essential components of assessment of this unit standard.
 - c All activities and evidence presented for all outcomes and performance criteria in this unit standard must be in accordance with:
 - i legislation;
 - ii policies and procedures;
 - iii ethical codes;
 - iv Standards – may include but are not limited to those cited in the New Zealand Building Code Hand Book;
 - v applicable site, enterprise, and industry practice; and,
 - vi manufacturers' instructions, specifications, and data sheets.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the system characteristics of translucent roof.

Performance criteria

- 1.1 Describe the characteristics of translucent roof systems in terms of cost to purchase, time to install, finish, robustness, vulnerability to damage, durability, insulation properties, expansion, profile, and type options.
- 1.2 Describe New Zealand translucent roof systems and their applications on buildings.
- Range may include but is not limited to – sheet material, fastenings, installation accessories, cyclone washer, ethylene propylene diene terpolymer (EPDM), purlin tape barrier, mesh (netting), lap tape, roof slope, sheet span, appearance.
- 1.3 Describe the material properties for translucent system types in terms of solar filtering and R-value insulation.
- 1.4 Describe the advantages and limitations of translucent roof systems compared with other roof systems.
- 1.5 Explain framing support systems for translucent roof systems.
- Range may include but is not limited to – felt or foam isolation.
- 1.6 Describe fastening used for translucent roof systems.
- 1.7 Describe the application twin skin translucent roofing systems.

- 1.8 Explain the need and requirements for the installation of safety mesh for translucent roofing systems.

Outcome 2

Describe translucent roof installation processes.

Performance criteria

- 2.1 Describe preparation for the installation of translucent roof in accordance with manufacturer instructions.

Range planning, fastening holes, sheet layout and sequence planning, tools and equipment, accessories and flashings required.

- 2.2 Describe expansion allowance requirements.

- 2.3 Describe cavity batten requirements.

- 2.4 Describe the placement of translucent roof.

Range may include but is not limited to – handling sheeting, walking on sheeting, purlin protection, cutting, pre-drilling, laying out sheets, laps, sealants, fixing, stop ends.

- 2.5 Explain installation processes used for twin skin translucent roofing systems.

Outcome 3

Describe common translucent roof installation problems.

Performance criteria

- 3.1 Describe common installation problems in terms of their cause and effect.

Range may include but is not limited to – purlin spacings, fixing pattern, lap joint seals, expansion and contraction, condensation control.

Replacement information	This unit standard and unit standard 25277 were replaced by skill standard 40211.
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This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	23 January 2009	31 December 2020
Review	2	16 March 2017	31 December 2027
Rollover	3	25 August 2022	31 December 2027
Review	4	28 November 2024	31 December 2027

Consent and Moderation Requirements (CMR) reference

0003

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.