

## 40224 Determine single layer membrane roof cladding system requirements

<b>Kaupae   Level</b>	4
<b>Whiwhinga   Credit</b>	20
<b>Whāinga   Purpose</b>	<p>This skill standard recognises the knowledge required to determine the properties, characteristics, and requirements of single layer membrane roof cladding systems.</p> <p>This skill standard aligns with the New Zealand Certificate in Roofing (Installation) (Level 4) with strands in Concrete or Clay Tile Roof, Liquid Roof Membrane Systems, Metal Tile Roof, Profiled Metal Roof and Wall Cladding, Shingle or Slate Roof, Single Layer Roof Membrane Systems, and Torch On Roof Membrane Systems [Ref: 3512-2].</p>

### Hua o te ako me Paearu aromatawai | Learning outcomes and assessment criteria

<b>Hua o te ako   Learning outcomes</b>	<b>Paearu aromatawai   Assessment criteria</b>
1. Determine the requirements of roof types and structures for single layer membrane cladding systems.	a. Properties and characteristics of roof type are determined and confirmed as suitable to receive the cladding system.
	b. Properties and characteristics of roof structural components and support framework are determined and confirmed as suitable to receive the cladding system.
2. Determine the requirements of single layer membrane cladding systems.	a. Properties and characteristics of cladding system products are determined and confirmed as suitable for the planned installation and reflect manufacturer's specifications.
	b. Requirements for substrates, underlays, claddings, and flashings systems are determined and confirmed as suitable for planned installation.

### Pārongo aromatawai me te taumata paearu | Assessment information and grade criteria

Assessment specifications:

To achieve this standard the candidate must be capable of evaluating and identifying the single layer membrane roof cladding requirements for dwellings to industry standards.

Industry standards must reflect roofing industry best practice, workplace procedures, and be within acceptable tolerances as defined in New Zealand.

Evidence for this standard must be:

- to current and relevant Legislation, Standards, and Codes (including safety),
- in an environmentally sustainable manner,
- in different and unfamiliar contexts.

*Cladding systems* refer to materials (underlays, claddings, and flashings) and methods that prevent the passage of water from entering the building. The method of installation may vary with the pitch.

### Ngā momo whiwhinga | Grades available

Achieved.

### Ihirangi waitohu | Indicative content

- Types, components, and product variations of cladding system available.
- Terminology associated with cladding systems.
- Structural and non-structural substrate components used for the roof support framework.
- Purpose, type, and installation location of accessory fixing methods.
- Purpose, characteristics, properties, and requirements of flashings for different product variations.
- Products used to fix flashings and accessories, their function, properties, and location.
- Substrates and underlay requirements for cladding systems.
- Processes to be followed when working on roofs.
- Functions of, and situations where moisture and air control methods are required.
- Compliance requirements specific to individual cladding systems.
- Application requirements and techniques for cladding systems.
- Processes to follow for moving, securing, and storing delivered products.
- Product requirements and procedures to follow when walking on roof cladding support systems and installed cladding systems.
- Material Safety Data Sheets.
- Moisture content, ambient temperature.

### Rauemi | Resources

Roofing Programme Guidance information available from [qualifications@waihangaararau.nz](mailto:qualifications@waihangaararau.nz).

### Pārongo Whakaū Kounga | Quality assurance information

<b>Ngā rōpū whakatau-paerewa  </b> Standard Setting Body	Waihanga Ara Rau Construction and Infrastructure Workforce Development Council
<b>Whakaritenga Rārangi Paetae Aromatawai  </b> DASS classification	Planning and Construction > Plumbing, Gasfitting and Drainlaying > Roofing
<b>Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga  </b> CMR	0003

Hātepe   Process	Putanga   Version	Rā whakaputa   Review Date	Rā whakamutunga mō te aromatawai   Last date for assessment
Rēhitatanga   Registration	1	28 November 2024	N/A
Kōrero whakakapinga   Replacement information	N/A		
Rā arotake   Planned review date	31 December 2029		

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at [qualifications@waihangaararau.nz](mailto:qualifications@waihangaararau.nz) to suggest changes to the content of this skill standard.