

<b>Title</b>	<b>Install undertile waterproofing systems</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>20</b>

<b>Purpose</b>	<p>This unit standard is intended for people working in the floor and wall tiling industry.</p> <p>People credited with this unit standard are able to install undertile waterproofing systems to the level required of a commercially competent floor and wall tiling trade professional.</p>
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<b>Classification</b>	Construction Trades > Floor and Wall Tiling
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<b>Available grade</b>	Achieved
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## Guidance Information

### 1 Assessment

This unit standard is one of a family of standards intended to align with the *New Zealand Certificate in Trowel Trades – Specifications*, and the New Zealand Certificate in Trowel Trades (Level 4) with strands in Brick and Block Laying, Floor and Wall Tiling, Proprietary Plaster Cladding Systems, Ferro-cement Tank Manufacture, Refractory Installation, and Solid Plastering (with optional strands in Fixing Cavities and Substrates, and Decorative Mouldings) [Ref: 3137].

Evidence for this unit standard must reflect commercial competence.

Commercial competence requires a candidate to be capable of consistently performing the requirements of the skill specification:

- to current regulatory, industry and commercial standards
- within a commercially viable timeframe
- in commercial environments
- without supervision
- in different and unfamiliar contexts.

Commercial competence must be confirmed by a person who has current expertise in the floor and wall tiling trade.

### 2 Definitions

*Job documentation* refers to all documented information related to the specific scope of work, including manufacturer's specifications.

*Manufacturer's specifications* refer to all relevant information about a specific product provided by the manufacturer.

*Workplace procedures* refer to the documented procedures specific to a workplace which sets out the standard and the required practices of that workplace.

- 3 Legislation, standards and guidance information relevant to this standard includes the following, and any subsequent amendments and replacements:

*New Zealand Certificate in Trowel Trades – Specifications*, BCITO, August 2021, available from [www.WaihangaAraRau.nz](http://www.WaihangaAraRau.nz).

Legislation accessed at [www.legislation.govt.nz](http://www.legislation.govt.nz)

- Building Act 2004,
- Health and Safety at Work Act 2015,
- The New Zealand Building Code.

Standard accessed at [standards.org.au](http://standards.org.au)

- AS 3958.1:2007 *Ceramic tiles, Part 1: Guide to installation of ceramic tiles*,
- AS 3740.2021 *Waterproofing of wet areas within residential buildings*.

Standards accessed at [www.standards.govt.nz](http://www.standards.govt.nz)

- AS/NZ 4858:2004 *Wet area membranes*.

Best practice and good practice guidelines

- Waterproofing Membrane Association NZ. (2020). *Code of Practice for Internal Wet Area Membranes*. Available from [www.wmai.org.nz](http://www.wmai.org.nz)
- Pringle, T & Wierenga, J. (2015). *Good Practice Guide: Tiling (3rd edition)*. Wellington: BRANZ
- *The Absolutely Essential Health and Safety Toolkit for Small Construction Sites*, and other Worksafe NZ publications available from [www.worksafe.govt.nz](http://www.worksafe.govt.nz).

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## Skill specification and performance level guidance

### Skill specification

Install undertile waterproofing systems.

### Knowledge

How to assess the substrate for application of waterproofing membrane.

Range      substrate includes – certified plasterboard, tile and slate underlay, fibre cement board, concrete, magnesium oxide board, aerated concrete products, screeds, pre-installed systems;  
assessment includes – clean, dry, plane, smooth, sound, moisture testing of concrete substrate, fixing pattern of board substrates, integrity of mortar beds, bonding of mortar beds to substrates, falls to wastes and drains.

The extent and purpose of the waterproofing required.

How slopes, flanges and set-up support waterflow.

The requirements for application of waterproofing products to surfaces.

Range      includes – appraisals and classifications of selected system.

The methods to complete flood testing to assess quality of installed waterproofing systems.

The requirements of an installer of waterproofing systems and how waterproofing relates to the Building Code.

Range Building Code requirements include – E3 Internal Moisture, E2 External Moisture.

## Skills

Complete required assessments of substrates and surfaces for application of waterproofing membrane.

Range substrates must include at least three different substrate surfaces.

Prepare waterproofing systems ready for application.

Range includes – checking materials, confirming manufacturer's specifications and job documentation;  
preparation may include – mixing two-part waterproofing systems.

Apply waterproofing products to surfaces.

Range includes – liquid membrane;  
may include – sheet membrane, primer, bond breakers, waterproof tape, waterproof gasket, reinforcing tape, sealant.

Test waterproofing systems to confirm quality.

Follow Building Code compliance requirements for installing waterproofing systems.

## Performance level guidance

Performance must reflect workplace procedures, legislative requirements, good practice guide, and job documentation relevant to floor and wall tiling.

Performance must reflect application of waterproofing systems in strict accordance with manufacturer's guidelines.

Performance must include internal wet areas; it may include decks and balconies where there is no dwelling beneath, and it is not part of the building envelope.

Performance must include horizontal surfaces, vertical faces, internal corners, external corners, and shampoo recesses.

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<b>Planned review date</b>	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	25 August 2022	N/A

**Consent and Moderation Requirements (CMR) reference**

0048

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

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**Comments on this unit standard**

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