

<b>Title</b>	<b>Demonstrate knowledge of the principles of, and methods used in weatherproofing buildings</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	People credited with this unit standard are able to demonstrate knowledge of the processes and effects of water penetration into buildings, and describe the purpose, function and limitations of water penetration protection systems (WPPS) used in buildings.
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<b>Classification</b>	Construction Trades > Carpentry Theory
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<b>Available grade</b>	Achieved
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## Guidance Information

- Definitions

*E2/AS1* is the Acceptable Solution (compliance document) for Clause E2 (External Moisture) of the Building Code. A copy of the compliance document is available from the Department of Building and Housing (<http://www.dbh.govt.nz/regulatory-framework-compliance>).

*WPPS* stands for water penetration protection systems.
- Credit for this unit standard indicates compliance with industry practice. *Industry practice* refers to the ability to demonstrate knowledge that reflects the uniformity, finish quality and material economies currently accepted within industry.
- Legislation relevant to this unit standard includes:

Health and Safety in Employment Act 1992 and Health and Safety in Employment Regulations 1995;  
 Building Act 2004;  
 Resource Management Act 1991;  
 New Zealand Building Code.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of processes and effects of water penetration into buildings.

Range capillary action, hydrostatic pressure, gravity, wind pressure, surface tension, airflows.

**Performance criteria**

- 1.1 The processes of water penetration into buildings are described.
- 1.2 The effects of water penetration into buildings are described.
- 1.3 Methods of preventing water penetration into buildings are described.

**Outcome 2**

Describe the purpose, function and limitations of WPPS used in buildings.

Range flashings and trim, weather grooves, concrete WPPS, building wraps/membranes, overhangs, vapour barriers, coatings, cladding, roofing, chases, sealants, caulking, air space, sub-floor drainage and tanking membranes, drained cavity design, rigid air barrier.

**Performance criteria**

- 2.1 Methods by which WPPS prevent water entering buildings are described in accordance with E2/AS1.
- 2.2 The limitations of each WPPS are described.
- 2.3 Preparation requirements for the installation of each WPPS are described.

<b>Replacement information</b>	This unit standard and unit standard 13017 were replaced by unit standard 32452.
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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	28 June 2005	31 December 2023
Review	2	25 January 2008	31 December 2023
Review	3	30 September 2021	31 December 2023

<b>Consent and Moderation Requirements (CMR) reference</b>	0048
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.