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## Verification Method E2/VM1: External Moisture

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Abbreviation

E2/VM1

Amendment

7

Version

Third Edition, Amendment 7

Valid to

31/03/2019

Valid from

01/01/2017

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Information provider

Ministry of Business, Innovation and Employment

Information type

Verification Method

Format

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Cites

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### Description

Verification Method E2/VM1 provides a means of compliance with Building Code Clause E2.3.2 of cladding systems and associated window and door junctions only, for buildings of importance Levels 1 or 2 as described in Table 1.1(a) of NZS 3604.

Building Code Clause E2 ensures that external roof, wall claddings and external openings will prevent external moisture from causing undue dampness or damage.

It requires buildings to be constructed to provide adequate resistance to penetration by, and the accumulation of, moisture from the outside.

It contains requirements for roofs, wall claddings and external openings to:

- prevent water entry
- prevent water absorption and transmission
- prevent the accumulation of water
- allow for dissipation.

### Scope

This Verification Method is restricted to buildings that:

- a) are in accordance with the scope of Paragraph 1.0 of E2/AS1, and within the wind zones covered by Section 5 of NZS 3604, and
- b) have claddings that include a drained and vented cavity of nominal 20 mm minimum depth with minimum ventilation opening of 1000 mm<sup>2</sup>/m at the foot, including any claddings that require a rigid wall underlay in accordance with Paragraph 9.1.7.2 of E2/AS1, and
- c) include window and door units that are manufactured to comply with the relevant requirements of NZS 4211, and
- d) may include buildings based on (a), (b) and (c) above, but with specific engineering design frame elements of at least equivalent stiffness to the framing provisions defined in NZS 3604.

It may also be used for individual buildings that comply with (a) to (d) above, and that are designed for a specific wind pressure up to a maximum ultimate limit state (ULS) of 2500 Pa.

**Previous versions:**

- [E2/VM1 \(Third Edition, Amendment 6\)](#)
- [E2/VM1 \(Third Edition, Amendment 5, Errata 2\)](#)
- [E2/VM1 \(Third Edition, Amendment 5\)](#)
- [E2/VM1 \(Third Edition, Amendment 4\)](#)

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Previous versions

- [E2/VM1 Amendment 6 Third Edition, Amendment 6](#)
- [E2/VM1 Amendment 5 Third Edition, Amendment 5, Errata 2](#)
- [E2/VM1 Amendment 5 Third Edition, Amendment 5](#)
- [E2/VM1 Amendment 4 Third Edition, Amendment 4](#)

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**This resource cites:**

## Verification Method E2/VM1: External Moisture

**This document CITES:**

#### New Zealand Standards

- [AS/NZS 4284:2008](#)

E2/VM1 cites AS/NZS 4284:2008 Testing of building facades from 01/08/2011

- [NZS 3604:2011](#)

E2/VM1 cites NZS 3604:2011 Timber-framed buildings from 01/08/2011

- [NZS 4211:2008](#)

E2/VM1 cites NZS 4211:2008 Specification for performance of windows from 01/08/2011

#### Australian Standards

- [AS 4046.9-2002 \(R2015\)](#)

E2/VM1 cites AS 4046.9-2002 (R2015) Methods of testing roof tiles. Part 9: Determination of dynamic weather resistance from 01/07/2004

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