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Code of Practice for Weathertight Concrete and Concrete Masonry Construction

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Abbreviation

CP01:2011

Amendment

2014

Version

Errata 1 January 2015

Valid from

01/01/2011

Information provider

CCANZ

Author

CCANZ

Information type

Code of Practice

Format

PDF

Cited By

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Description

This code of practice covers the weathertightness of the building envelope for:

- Concrete slab on ground,
- Concrete and concrete masonry wall systems,
- Concrete flat roofs and decks, and
- Concrete to timber construction junctions.

Scope

The building type shall be as per the following limitations:

a) Buildings shall comply with importance levels 1 & 2 of AS/NZS 1170 - Structural Design Actions,

b) Buildings shall be built on good ground as defined in NZS 4229, but with “liquefaction and lateral spread”

added to the list of excluded ground,

c) The building configuration shall comply with NZS 4229, 1.1.3 (e) except that the total floor area for single

storey buildings can be up to 1000m², and

d) The slope of the finished concrete roof and deck membrane shall be no less than 1.5°.

This Code of Practice covers three types of concrete walls:

A. Concrete masonry construction

B. Insitu concrete construction, and

C. Precast concrete construction.

This Code of Practice also provides weathertightness details for four alternative positions for the wall insulation:

1. On the inner face of the wall, or
2. On the outside face of the wall (EIFS systems), or
3. Integral within the wall itself, or
4. Within a ventilated cavity.

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Masonry Construction

This document is CITED BY:

- [E2/AS3 \(Third edition, amendment 7\)](#)

CP01:2011 is cited by Acceptable Solution E2/AS3: Concrete and Concrete Masonry Buildings from 14/02/2014

- [E2/AS3 \(Third Edition, Amendment 6\)](#)

CP01:2011 is cited by Acceptable Solution E2/AS3: Concrete and Concrete Masonry Buildings from 14/02/2014

- [E2/AS3 \(Third Edition, Amendment 8\)](#)

CP01:2011 is cited by Acceptable Solution E2/AS3: Concrete and Concrete Masonry Buildings from 14/02/2014

- [E2/AS3 \(Third Edition, Amendment 5\)](#)

CP01:2011 is cited by Acceptable Solution E2/AS3: Concrete and Concrete Masonry Buildings from 01/08/2011

- [E2/AS3 \(Third Edition, Amendment 5, Errata 2\)](#)

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This document CITES:

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CP01:2011 cites AS/NZS 1170.0:2002 Structural Design Actions - General principles
- [AS/NZS 1170.1:2002](#)
CP01:2011 cites AS/NZS 1170.1:2002 Structural Design Actions - Permanent, imposed and other actions
- [AS/NZS 1170.2:2002](#)
CP01:2011 cites AS/NZS 1170.2:2002 Structural Design Actions - Wind Actions
- [AS/NZS 1170.3:2003](#)
CP01:2011 cites AS/NZS 1170.3:2003 Structural Design Actions - Snow and ice actions
- [AS/NZS 2311:2000](#)
CP01:2011 cites AS/NZS 2311:2000 Guide to the painting of buildings
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CP01:2011 cites AS/NZS 2699.1:2000 Built-in components for masonry construction - Wall ties
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Lintels and shelf angles (durability requirements)

- [AS/NZS 2728: 2007](#)

CP01:2011 cites AS/NZS 2728: 2007 Prefinished/prepainted sheet metal products for interior/exterior building applications - Performance requirements

- [AS/NZS 4256.2:1994](#)

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- [AS/NZS 4455.1:2008](#)

CP01:2011 cites AS/NZS 4455.1:2008 Masonry units, pavers, flags and segmental retaining wall units - Masonry units

- [AS/NZS 4456:2003](#)

CP01:2011 cites AS/NZS 4456:2003 Masonry units, segmental pavers and flags - Methods of test

- [AS/NZS 4671:2001](#)

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- [AS/NZS 4858:2004](#)

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- [NZS 1170.5:2004](#)

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- [NZS 3101.1&2:2006](#)

CP01:2011 cites NZS 3101.1&2:2006 Concrete structures standard. The design of concrete structures

- [NZS 3104:2003](#)

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- [NZS 3602:2003](#)

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- [NZS 3604:2011](#)

CP01:2011 cites NZS 3604:2011 Timber-framed buildings

- [NZS 4210:2001](#)

CP01:2011 cites NZS 4210:2001 Code of practice for masonry construction: materials and workmanship

- [NZS 4211:2008](#)

CP01:2011 cites NZS 4211:2008 Specification for performance of windows

- [NZS 4229:2013](#)

CP01:2011 cites NZS 4229:2013 Concrete masonry buildings not requiring specific engineering design

- [NZS 4230:2004](#)

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- [NZS 4251.1:2007](#)

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- [NZS HB 4236:2002](#)

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- [AS 1366.3-1992](#)

CP01:2011 cites AS 1366.3-1992 Rigid cellular plastics sheets for thermal insulation - Rigid cellular polystyrene - moulded (RC/PS-M)

- [AS 1366.4-1989](#)

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Other

- BU 515 Measuring moisture on building sites (a link to this resource is not available)
- [ASTM C1330 - 02](#)

CP01:2011 cites ASTM C1330 - 02 Standard Specification for Cylindrical Sealant - Backing for Use with Cold Liquid Applied Sealants

- [ASTM C1549-02](#)

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- [ASTM C755-10](#)

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- [ASTM D2842-06](#)

CP01:2011 cites ASTM D2842-06 Standard Test Method for Water Absorption of Rigid Cellular Plastics

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- [ASTM D7105: 06](#)

CP01:2011 cites ASTM D7105 - 06 Standard Test Method for Determining the Adhesive and Cohesive Strength Between Materials in Roofing or Waterproofing Membranes and Systems

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CP01:2011 cites ASTM D903 - 98(2010) Standard Test Method for Peel or Stripping Strength of Adhesive Bonds

- [ASTM E104-02](#)

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- [ASTM E2098-00](#)

CP01:2011 cites ASTM E2098-2000 Standard Test Method for Determining Tensile Breaking Strength of Glass Fibre Reinforcing Mesh for Use in Class PB Exterior Insulation and Finish Systems (EIFS), after Exposure to a Sodium Hydroxide Solution

- [ASTM E2134 - 01 \(2006\)](#)

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- [ASTM E903-96](#)

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CP01:2011 cites Evaluation Method (No.5 2005)- Test procedure for adhesive, primers and seam tapes for butyl and EPDM rubber waterproofing membranes, EM5 (2005)

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- [EN 1504-2:2004](#)

CP01:2011 cites EN 1504-2:2004 Products and systems for the protection and repair of concrete structures. Definitions, requirements, quality control and evaluation of conformity - Part 2: Surface protection systems for concrete

- [FED TT-S-00230C](#)

CP01:2011 cites Federal Specification Standard TT-S-00230C Elastomeric type, cold applied single component for caulking, sealing and glazing in buildings, building areas (plazas, decks, pavements) and other structures

- [ICBO AC148](#)

CP01:2011 cites ICBO Evaluation AC148 Acceptance criteria for flashing materials

- [ISO 11600:2002](#)

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- [TM 34 Tilt-up Technical Manual](#)

CP01:2011 cites TM 34 Tilt-up Technical Manual

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