ADVISORY NOTE FOR NZS 3604:2011 AND SNZ HB 3604:2011

On 1 August 2011, the Department of Building and Housing announced changes to the B1 Structure and E2 External Moisture Building Code documents. This announcement was made in the Building Controls Update Bulletin No. 116. The changes to the Structure documents include the referencing of NZS 3604:2011 *Timber-framed buildings*, which was published in February 2011.

These changes took effect immediately with a transition period through to 31 January 2012. During the transition period, both NZS 3604:1999 and NZS 3604:2011 will be Acceptable Solutions. From 1 February 2012, only NZS 3604:2011 will apply.

The Department also announced the following modifications to its referencing of NZS 3604:2011.

- **Modifications for the Canterbury earthquake region**
  On 19 May 2011, the Department made changes to Acceptable Solution B1/AS1, which applies to the Canterbury earthquake region. These changes took effect immediately. The definition of 'good ground' was changed to exclude ground subject to liquefaction and/or lateral spread, and stronger foundations were required for that region. These modifications to the referencing of NZS 3604:1999 have been carried forward to the referencing of NZS 3604:2011.

  The changes for Canterbury were made to allow homeowners in the region to quickly progress with their repairs or rebuilding. Details on the changes for Canterbury can be found in the Department’s information sheet.

- **Modifications for all New Zealand for concrete slab floors and foundations**
  On 1 August 2011 the Department extended the requirement for stronger foundations to the rest of New Zealand. The Department modified its referencing of NZS 3604:2011 to exclude unreinforced slabs. All concrete floor slabs on 'good ground' are required to have reinforcing steel mesh and all perimeter foundations are required to be tied to the concrete slab with reinforcing steel.

  This modification has been made to provide the rest of New Zealand with the same readily administered, effective, and robust Acceptable Solution requirements for foundations as those already made in the Canterbury earthquake region.

To read the Building Controls Update Bulletin No. 116 and the Department’s questions and answers on the changes, please go to the Department’s website – www.dbh.govt.nz/bc-update-116.

It is important to review the modifications to the referencing of NZS 3604:2011 when using the Standard as the basis of compliance with the New Zealand Building Code.

If you have any questions about the Department’s modifications, please contact the Department on 0800 242 243 or email info@dbh.govt.nz.

This Advisory Note was issued by Standards New Zealand on 30 September 2011.
COMMITTEE REPRESENTATION

This Handbook was prepared under the supervision of the P SNZ HB 3604 committee the Standards Council established under the Standards Act 1988. The committee consisted of the following:

Nominating Organisation
Architectural Designers New Zealand Inc.
Building Officials’ Institute of New Zealand
Certified Builders’ Association of New Zealand Inc.
New Zealand Institute of Architects
Registered Master Builders’ Federation

Committee Member
Colin Hill
Colin Clench
Richard Merrifield
Michael Middlebrook
Jamie O’Leary

ACKNOWLEDGEMENT

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Thanks also to the management and staff at Stonewood Homes Wellington Limited for their participation in cover photography. Photographer: Nick Servian.

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NEW ZEALAND LEGISLATION


WEBSITES

www.legislation.govt.nz

LATEST REVISIONS

The users of this handbook should ensure that their copies of the above-mentioned New Zealand Standards are the latest revisions. Amendments to referenced New Zealand and Joint Australian/New Zealand Standards can be found on www.standards.co.nz.

REVIEW OF HANDBOOKS

Suggestions for improvement of this handbook will be welcomed. They should be sent to the Chief Executive, Standards New Zealand, Private Bag 2439, Wellington 6140.

OUTCOME STATEMENT

SNZ HB 3604:2011 provides users with a collection of the most referred to on-site figures and tables from NZS 3604:2011 along with some linking text. This handbook also directs users to the appropriate section of the Standard for full information.

Figures and tables are numbered identically to NZS 3604:2011 and colour coding of the figures and tables matches that used in NZS 3604:2011.
FOREWORD

The MP 3600:1992 *Builders’ guide to NZS 3604* was a supplementary document to NZS 3604:1990, written primarily for builders, who by following the figures shown could construct timber-framed buildings that complied with NZS 3604:1990. The guide provided different/new information from that in NZS 3604:1990. The subsequent revision to NZS 3604:1999 was larger in size due in part to the incorporation of many of the figures from MP 3600. Combining NZS 3604 and MP 3600 superseded the need for the guide.

During the development of NZS 3604:2011 *Timber-framed buildings* (NZS 3604), the need for a product containing selected extracts from the Standard was identified. Standards New Zealand undertook four consultation meetings with various interested parties and this handbook is the outcome of that consultation.

SNZ HB 3604:2011 *Timber-framed buildings – Selected extracts from NZS 3604:2011* (SNZ HB 3604) provides users with a collection of figures and tables extracted from NZS 3604 and directs them to the appropriate section of the Standard for full information.

**SNZ HB 3604 is not a design guide.** When designing buildings to comply with NZS 3604:2011 reference should be made only to the full version of the Standard.

To ensure the handbook aligns with NZS 3604, figures and tables are numbered identically and colour coding of the figures and tables replicates that of the Standard. In the figures and tables of this handbook (including their captions/titles), clause references shown in brackets are to NZS 3604:2011. Where tables appear only in SNZ HB 3604, these are numbered A, B and C as appropriate and contain no clause references. All references in the text refer to this handbook unless noted otherwise.

The handbook is laid out in four sections based on the construction sequence for a timber-framed building.

Section 1 outlines the limits for buildings covered by NZS 3604, identifies activities which shall be carried out before building starts, sets out criteria such as tolerances and moisture content that apply to all subsequent sections, and explains the basis for determining bracing requirements and the durability of materials.

Section 2 covers the framing and bracing requirements below floor level including piles, concrete and concrete masonry foundation walls, bearers, jack framing, floor joists and flooring, and the relationship of those members to other parts of the building. It also includes concrete floor slabs.

Section 3 covers wall framing for loadbearing walls and non-loadbearing walls, the construction and bracing of, and the forming of openings, within those walls.

Section 4 covers the framing requirements and the construction of bracing for roofs and ceilings.

In addition to inclusion in section 1, the nailing schedule (NZS 3604 table 2.2) is included at the back of sections 2, 3 and 4.

**SNZ HB 3604 must not be substituted for NZS 3604:2011.**
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HB 1  GENERAL

On-site building consent requirements of the building consent authority (BCA) take precedence over the guidance in this document.

HB 1.1  SCOPE

SNZ HB 3604:2011 Timber-framed buildings – Selected extracts from NZS 3604:2011 (SNZ HB 3604) provides users with a collection of figures and tables extracted from NZS 3604 and directs them to the appropriate section of the Standard for full information.

SNZ HB 3604 is not a design guide. When designing buildings to comply with NZS 3604:2011 reference should be made only to the full version of the Standard.

HB 1.1.1  Inclusions

Light timber-framed buildings designed using NZS 3604 are within the parameters of NZS 3604, 1.1.1 and 1.1.2, table 1.1 (a) and figure 1.1.

NZS 3604 figure 1.2 is a summary of buildings covered by NZS 3604.

HB 1.1.2  Interpretation

References in sections, figures and tables to sections/clauses are to named sections/clauses in NZS 3604. Defined terms are in italic except in the foreword, headings, tables, figures and notes.

This is a free sample only.

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Freephone: 0800 782 632 (New Zealand)
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