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NASH Standard Part 1:2016 Design Criteria - Alternative Solution

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Abbreviation

NASH Standard Part 1:2016

Valid from

01/01/2016

Information provider

National Association of Steel Framed Housing

Author

National Association of Steel Framed Housing

Information type

Standard

Format

PDF

Cited By

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Cites

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Description

This Standard is intended to be an alternative solution verification method to the New Zealand Building Code (NZBC) clause B1 Structure. It sets out design criteria for the steel-framing of low-rise buildings including houses and low-rise commercial buildings.

The 2016 edition of the NASH Standard Part 1:2016 is a revision of the 2010 edition that is currently an acceptable solution within the NZ Building code.

This edition is currently with MBIE and in the process to becoming an acceptable solution as a replacement of the 2010 edition.

The major developments of this edition of the NASH standard includes:

- Limit state design to align with the AS/NZS 1170 series of Standards.
- The introduction of serviceability criteria.
- Tolerances for the manufacture of steel components and guidance on their installation to comply with the provisions given in this standard.
- Guidance for calculating the self-weight of materials.

This Standard is part of a suite of NASH Standards alternative solutions which including the following: NASH Standard Part 1:2016 Design criteria. NASH Standard Part 2:2016 Non-specific Design of Light Steel-frame Buildings. NASH Building envelope solutions: 2016

Scope

This Standard sets out the structural design criteria, at both serviceability and ultimate limit states, for the design of low-rise steel-framed buildings.

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New Zealand Standards

- [AS/NZS 1163:2016](#)
NASH Standard Part 1:2016 cites AS/NZS 1163:2016 Cold-formed structural steel hollow sections
- [AS/NZS 1170.0:2002](#)
NASH Standard Part 1:2016 cites AS/NZS 1170.0:2002 Structural Design Actions - General principles
- [AS/NZS 1170.1:2002](#)
NASH Standard Part 1:2016 cites AS/NZS 1170.1:2002 (R2016) Structural Design Actions - Permanent, imposed and other actions
- [AS/NZS 1170.2:2011](#)
NASH Standard Part 1:2016 cites AS/NZS 1170.2:2011 (R2016) Structural Design Actions - Wind Actions
- [AS/NZS 1170.3:2003 \(Reconfirmed in 2016\)](#)
NASH Standard Part 1:2016 cites AS/NZS 1170.3:2003 (R2016) Structural Design Actions - Snow and ice actions
- [AS/NZS 1365:1996](#)
NASH Standard Part 1:2016 cites AS/NZS 1365:1996 (R2016) Tolerances for flat-rolled steel products
- [AS/NZS 3679.1:2016](#)
NASH Standard Part 1:2016 cites AS/NZS 3679.1:2016 Structural steel - Part 1: Hot-rolled bars and sections
- [AS/NZS 4600:2005](#)
NASH Standard Part 1:2016 cites AS/NZS 4600:2005 Cold-formed steel structures
- [NZS 1170.5:2004](#)
NASH Standard Part 1:2016 cites NZS 1170.5:2004 Structural Design Actions - Part 5: Earthquake design actions - New Zealand
- [NZS 3404.1:2009](#)
NASH Standard Part 1:2016 cites NZS 3404.1:2009 Steel structures Standard - Part 1: Materials, fabrication, and

construction

- [NZS 3604:2011](#)

NASH Standard Part 1:2016 cites NZS 3604:2011 Timber-framed buildings

Australian Standards

- [AS 1397-2011](#)

NASH Standard Part 1:2016 cites AS 1397-2011 Continuous hot-dip metallic coated steel sheet and strip - Coatings of zinc and zinc alloyed with aluminium and magnesium

- [AS 3566.2-2002](#)

NASH Standard Part 1:2016 cites AS 3566.2-2002 Self-drilling screws for the building and construction industries. Part 2: Corrosion resistance requirements

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