

High tensile galvanised steel for wall frames, trusses and floor joists

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## Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include technical information by manufacturer and either a BRANZ or independent Appraisal or CodeMark



New Zealand Steel confirms that this minimum level of assurance has been met or exceeded by the following:

National Association of Steel Framed Housing Inc.

[Code of Practice](#)

## Technical Statement

### Product Description

AXXIS® Steel for Framing is a brand of galvanised, hi-tensile steel manufactured and supplied by New Zealand Steel to New Zealand's house framing market.

Steel strip Galvanised: 275g/m<sup>2</sup> (Z 275) Steel grade range G550 for BMT <1.00mm G500 for BMT 1.00mm >1.5mm G450 for BMT 1.5mm> Steel thickness range 0.5 to 2.25mm manufactured to Standard AS1397: Steel sheet & strip - hot dipped zinc coated or aluminium/zinc coated.

AXXIS Steel for Framing is rollformed and fabricated as a framed structure, or as part of a flush-lined partitioning system: for load bearing structures non load bearing partitioning Fabricators use one of the five systems; Howick, Framacad, Frametek, Scottsdale and Hayes and, each system has subtle differences and individual span tables. Fabricators may supply frames pre-assembled or in component form. The frames come with dimpled screw holes and service holes pre-punched and with plastic grommets.

### New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- **Clause B1 Structure:** Performance B1.3.1, B1.3.2
- **Clause B2 Durability:** Performance B2.3.1, B2.3.1(a)

### Evidence

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

Frame suppliers will be able to advise which steel framing system they use, provide frame and truss detail drawings and a Producer Statement (PS1) to demonstrate compliance with NZBC Clause B1 - Structure. NASH 3405 an Alternative Solution is the current standard referred to by local Building Consent Authorities NASH Standard Residential and Low-Rise Steel Framing Part 1: Design Criteria Version 2: October 2010. 50-year Durability Statement for AXXIS Steel for framing is available from New Zealand Steel. Steel is non-combustible. GIB® Fire Rated Systems are available for load bearing and non load bearing steel frame walls and load bearing floor/ceiling systems ([www.gib.co.nz](http://www.gib.co.nz)). The Steel Construction Institute (SCI) in the UK has recently carried out a fire test on a light steel floor that achieved 90 minutes fire resistance to the BS EN 1365 fire test. See [www.steelconstruction.org](http://www.steelconstruction.org)

### Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:



National Association of Steel Framed Housing Inc.

[Code of Practice](#)

## Product Criteria

### Design requirements

See:

- NZ NASH 3405: An alternative solution for steel framed buildings
- NZ NASH Handbook - Design of Residential and low-rise Steel Framing Pt.1 Design Criteria
- AS/NZS 1170.0 Structural design actions - General principles
- AS/NZS 1170.2 Wind Actions
- NZS 2295 Pliable permeable building underlays
- NZS 3604 Timber framed buildings



## masterspec partner

### Company Contact Details

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- NASH N10 Thermal break and Cavity Construction NASH
- N11 Nash house Insulation Guide
- BRANZ BU 454 Avoiding thermal bridging in steel-framed houses
- BRANZ House Insulation Guide

## Installation requirements

**Co-ordination** Ensure details and fixings required are provided for in the steel fabricators framing system. Refer to all drawings and calculations. **Installation** Install AXXIS roll formed framing to any technical recommendations or instructions given by the steel frame fabricator. **Qualifications** Work to be carried out by tradespeople experienced, competent and familiar with the materials and techniques specified. **Information** The steel frame supplier will provide a territorial authority-approved producer statement(design) and supplementary drawings showing dimensions, bracing and assembly

## Company Product Information

### Environmental

Environmentally sustainable manufactured from locally mined iron-sand New Zealand Steel is ISO14001 accredited Minimal manufacturing & rollforming wasteage. Steel is 100% recyclable and/or able to be reassembled at another site. [www.sustainablesteel.co.nz](http://www.sustainablesteel.co.nz)

### Quality Assurance



ISO 9001 (Quality Management)

### Relationships



New Zealand Made



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