

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

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). 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

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
- 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



masterspec partner

Company Contact Details



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Company Product Information

Environmental

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

Quality Assurance



ISO 9001 (Quality Management)

Relationships



New Zealand Made



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