



## FRAMECAD Framing Steel Durability Statement

FRAMECAD Steel will have a durability of 50 years for Framing Construction when used and maintained in accordance with FRAMECAD guidelines as referred to below.

### Scope of Construction:

Residential and Commercial Steel Cold-Formed Steel Framed buildings, that are constructed with a design life of no less than 50 years.

All FRAMECAD Steel used for Framing within a closed building envelope (wall and roof framing, and mid floor joists) will achieve our FRAMECAD 50 year Durability Guarantee when it is located in a lined dry internal environment.

Other applications such as sub floor framing, purlins, battens and grits that are not lined in a dry envelope are excluded from this Durability Statement.

The FRAMECAD Durability Statement does not apply to any composite wall and roof systems regardless if FRAMECAD Steel is used.

The above statement is valid subject to the following:

### A. Steel Specifications:

Zinc Coating Weight	275g/m <sup>2</sup> (Z275)
Complying with;	AS 1397:2011
Steel Grade;	G350, G450, G500, G550
Steel thickness range (Gauge)	.55mm – 1.55mm BMT (where BMT= base metal thickness)
Bend Diameter;	G350 ≥2T (where T=total coated thickness) G450, G500 & G550 ≥6T (where T=total coated thickness)

### B. Definitions:

Dry Internal Environment: Internal steelwork in air-conditioned buildings and in non-air conditioned buildings where humans work or live comfortably, such as a fully enclosed office, apartment building, or domestic house, with an effective thermal break used with roof and wall frames in accordance with NASH N-11 Guidelines.

Environment to be compliant with ISO 9223 Category C1.

### C. Publications - Handling, Fixing and Maintenance

1. Nash handbook – Best practice for Design and Construction of Residential and Low-Rise Steel Framing. [www.nashnz.org.nz](http://www.nashnz.org.nz).
2. Nash N11 House Insulation Guide - [www.nashnz.org.nz](http://www.nashnz.org.nz) Version 2.2 – April 2012.

## D. Design, Fixing and Handling Requirements

1. Design, Fixing, and Handling of Framing system and components to be in accordance with the NASH Best Practice Handbook and the NASH House Insulation Guide.
2. The Bottom Plate must remain dry and not be subject to water exposure from internal or external sources. A water proof membrane must be provided under the base plate walls and must be at least 10mm wider than the steel.
3. Suitable Separation to be provided from any incompatible materials that may include, but are not limited to, concrete, treated timber with copper preservation, copper, stainless steel, or other dissimilar metals.
4. Suitable Separation to be provided from materials which may be moisture bearing or attract water condensation.
5. Handling methods should be employed to ensure steel framing is not scratched or bent. Steel framing should not be dragged.
6. FRAMECAD Steel must be kept in a dry environment and protected from corrosive substances. Erected FRAMECAD Steel Framing must closed in (enveloped) as soon as possible to minimise exposure to the elements (within 3 weeks for marine environments or within 12 weeks for moderate environments).
7. Framing to be dry and free of any dirt, debris and corrosion prior to installation of linings.
8. FRAMECAD Steel should not be exposed to welding or welding spatter.
9. Wall and roof wraps should be fit for purpose and in accordance with the requirements of the Building Code and be used as per the manufactures guidelines and recommendations.

## E. FRAMECAD Steel Maintenance

1. FRAMECAD Steel Framing should undergo regular inspections.
2. Maintenance is required at the first signs of a breakdown of the galvanised coating, such as rust staining or spots, or when major scratching or other surface damage is identified.
3. At the first sign of rust or damage, the surface should be treated with an appropriate maintenance coating system. All maintenance should be carried out following the recommendations of the NASH Best Practice Handbook.

## F. Ask FRAMECAD

If you are unsure with anything that relates to FRAMECAD Durability Statement please contact FRAMECAD prior to construction commencing.

[www.framecad.com/contact-us](http://www.framecad.com/contact-us)

## F. FRAMECAD Steel Product Declaration

I certify that FRAMECAD Steel has been used in the framing construction for the following project;	
Name of construction project;	
Construction or site address;	
Country of Construction;	
Number of coils used;	
FRAMECAD steel delivery date;	
Authorised Company Representative;	
Contact details;	
Signed by Authorised Company Representative;	

Disclaimer:  
FRAMECAD are committed to continuous improvement and as such from time to time information provided in the durability statement may be subject to change or modification without notice. Please check you have the latest edition of the FRAMECAD Durability Statement - [www.framecad.com](http://www.framecad.com)