

Date: August 2023

Product Disclosure Information – Company Assessment

Product Name: H Series Hurricane Ties

Product Category: Connectors

Product Identifier: UPC (Unique Product Code)

H1.81Z - 707392000433

H2.5A - 707392398806

H2.5ASS - 707392538202

H3 - 044315302008

H3SS - 044315091704

H6 - 044315305009

S/H1A - 707392378808

S/H2.5 - 044315480805

S/HTC4 - 707392318309

1.

Product Description

Hurricane Ties provide a positive connection between the truss/rafter and the wall of the structure to resist wind and seismic forces.

2.

Relevant Building Code Clauses

Simpson Strong-Tie products,

If designed, installed, and maintained in accordance with 3603 and 3604, meet the following provisions of the NZBC.

Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2 and B1.3.4. Simpson Strong-Tie products meet these requirements for loads arising from self-weight, wind and impact [i.e. B1.3.3(a), (h) and (j)]. See Paragraphs 8.1 to 8.3.

Clause B2 DURABILITY: Performance B2.3.1 (b), 15 years and B2.3.2. Simpson Strong-Tie Products meet these requirements. See Paragraphs 9.1 to 9.3.

Clause E2 EXTERNAL MOISTURE: Performance E2.3.2. Simpson Strong-Tie Stainless Steel products meet this requirement. See Paragraph 10.1.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. Simpson Strong-Tie meet this requirement and will not present a health hazard to people.

3.

Contributions to Compliance

Refer to Simpson Strong-Tie (New Zealand) Limited Website (strongtie.co.nz) for details of the current technical literature for all Simpson Strong-Tie products. The Technical Literature must be read in conjunction with all aspects of design, use, installation and maintenance contained in the technical literature and within the scope of appropriate design, application and installation as per the relevant building code clauses within the current New Zealand Building Code. If certain products have been Branz Appraised, the appraisal will be found under the technical documents tab on the product information page or the relevant product.

4.

Scope of use:

The H1.81Z Hurricane Tie is designed for use with 45mm structural timber framing to provide a stronger connection between the top plate of the wall and rafter. It's ideal for connections when there are higher-load demands on the structure, like a heavy snow load, and provides lateral resistance in a seismic event. It also suits for bearer to joist connection in flooring and deck framing applications.

The H1.81Z installs with half the nails that are needed for two single-sided twist straps (like the H2.5A) and offers a higher lateral allowable load, making it a cost effective and higher-performing solution to tie down a rafter roof.

The H2.5A connects the truss/rafter to the top plate and is also suitable for joist to bearer connections. It is available in galvanised and stainless steel for extra corrosion protection.

The H3 connects the truss/rafter to the top plate and is available in galvanised and stainless steel for extra corrosion protection.

The H6 wraps from the stud up and over the top plate for a high-strength connection. It can also be used as a stud-to-band-joist connection.

S/H1A, S/H2.5 and S/HTC4 are designed to provide seismic and wind ties for trusses or joists, this versatile line may be used for general tie purposes, strong back attachments, and as all-purpose ties where one member crosses another.

Can be used with cold formed steel.

5.

Conditions of Use

Installation Information: Installation Skill Level Requirements

Installation of Simpson Strong-Tie products must be completed by, or under the supervision of a qualified Licensed Building Practitioner. Installation instructions can be found on the Simpson Strong-Tie website, within applicable and appropriate literature associated with the relevant product.

6.

Maintenance

Simpson Strong-Tie structural elements do not require regular maintenance as long as they are selected using our corrosion guidance tables. In exposed conditions, regular inspection of fixings and fasteners should be conducted. Corrosion information can be found on the website (www.strongtie.co.nz) or by following this link.

<https://strongtie.co.nz/resources#corrosion-information>

7.

Supporting Documentation

Type: Technical Data Sheet

Version: TDS-H-AUNZ19

Web: <https://strongtie.co.nz/products/hurricane-tie>

Type: Cold Formed Steel

Version: C-CFS2020

Web: <https://strongtie.co.nz/products/hurricane-tie>

8.

Company Contact Details

Importing Branch: Simpson Strong-Tie New Zealand Address: 52A Arrenway Drive Albany, Auckland 0632 New Zealand Phone: +64 9 477 4440 Website: www.strongtie.co.nz	Manufacturing Branch: Simpson Manufacturing Co Inc. Address: 5956 W Positas Blvd, California, 94588-8540 Phone: 1 925 5609 000 Website: www.simpsonmfg.com Phone: Please call NZ Head Office.
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9.

Warnings and Bans

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?
No

10.

Safety:

F2 Hazardous building materials

F2.3.1

The quantities of gas, liquid, radiation or solid particles emitted by materials used in the *construction of buildings*, shall not give rise to harmful concentrations at the surface of the material where the material is exposed, or in the atmosphere of any space.

11.

Appendix – BPIR Ready Selections

B1 Structure

B1.3.1

Buildings, building elements and site work shall have a low probability of rupturing, becoming unstable, losing equilibrium, or collapsing during *construction* or *alteration* and throughout their lives.

B1.3.2

Buildings, building elements and sitework shall have a low probability of causing loss of amenity through undue deformation, vibratory response, degradation, or other physical characteristics throughout their lives, or during *construction* or *alteration* when the *building* is in use.

11.

Appendix – BPIR Ready Selections

B1.3.3

Account shall be taken of all physical conditions likely to affect the stability of *buildings*; *building elements* and *site work*, including:

- (b) Imposed gravity loads arising from use
- (d) earth pressure
- (e) water and other liquids
- (f) earthquake
- (g) snow
- (h) wind
- (j) impact
- (q) time dependent effects including creep and shrinkage

B1.3.4

Due allowances shall be made for:

- the consequences of failure,
- the intended use of the *building*,
- effects of uncertainties resulting from *construction* activities, or the sequence in which *construction* activities occur,
- variation in the properties of materials and the characteristics of the site, and
- accuracy limitations inherent in the methods used to predict the stability of *buildings*

B2 Durability

B2.3.1

Building elements must, with only normal maintenance, continue to satisfy the performance requirements of this code for the lesser of the *specified intended life* of the *building*, if stated, or:

- (a) The life of the building, being not less than 50 years, if:
 - those *building elements* (including floors, walls, and fixings) provide structural stability to the *building*, or
 - those *building elements* are difficult to access or replace, or
 - failure of those *building elements* to comply with the *building code* would go undetected during both normal use and maintenance of the building