

Date: August 2023

Product Disclosure Information – Company Assessment

Product Name: ESCR, ESCRC, ESCRFT 8.0, ESCRFT 10.0, ESCRFTZ

Product Category: Structural Fasteners

Product Identifier: UPC (Unique Product Code)

ESCR		ESCRC		ESCRFT 8.0		ESCRFTZ	
ESCR8.0X80	5015364539801	ESCRC8.0X80	5015364921408	ESCRFT8.0X180	5015364030735	ESCRFTZ8.0X120	5701953153939
ESCR8.0X100	5015364710309	ESCRC8.0X100	5015364679200	ESCRFT8.0X200	5015364266363	ESCRFTZ8.0X140	5015364992149
ESCR8.0X120	5015364239008	ESCRC8.0X120	5015364620806	ESCRFT8.0X240	5015364090029	ESCRFTZ8.0X160	5015364980887
ESCR8.0X140	5015364429300	ESCRC8.0X140	5015364975401	ESCRFT8.0X300	5015364086794	ESCRFTZ8.0X180	5701953230715
ESCR8.0X160	5015364846909	ESCRC8.0X160	5015364361600	ESCRFT8.0X400	5015364097264	ESCRFTZ8.0X200	5015364371654
ESCR8.0X180	5015364697006	ESCRC8.0X180	5015364723507	ESCRFT10.0X180	5701953219055	ESCRFTZ8.0X220	5015364777395
ESCR8.0X200	5015364291501	ESCRC8.0X200	5015364481100	ESCRFT10.0X220	5015364079253	ESCRFTZ8.0X240	5015364534066
ESCR8.0X220	5015364350901	ESCRC8.0X220	5015364852306	ESCRFT10.0X240	5015364252410	ESCRFTZ8.0X260	5701953427252
ESCR8.0X240	5015364847005	ESCRC8.0X240	5015364380700	ESCRFT10.0X300	5015364174590	ESCRFTZ8.0X280	5701953002510
ESCR8.0X260	5015364313401	ESCRC8.0X260	5015364612900	ESCRFT10.0X350	5015364181987	ESCRFTZ8.0X300	5015364212162
ESCR8.0X280	5015364423902	ESCRC8.0X280	5015364660307			ESCRFTZ8.0X350	5701953002527
ESCR8.0X300	5015364017705	ESCRC8.0X300	5015364379186			ESCRFTZ8.0X400	5015364413972
ESCR8.0X320	5015364653002	ESCRC8.0X320	5015364101107				
ESCRFT 10.0							
ESCRFT10.0X450	5015364583118						
ESCRFT10.0X500	3523140784984						

1.

Product Description

The ESC Range of structural fasteners are designed for mass timber construction. They have a 6 lobe drive recess and are designed for joining two or more mass timber panels together in various applications. They are yellow zinc plated and are suitable for dry non-corrosive environments.

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 ESC Range of structural fasteners are designed for mass timber construction.

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. 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: Mass Timber Catalogue

Version: C-MT-AUNZ23

Web: https://strongtie.co.nz/products/search?search_api_views_fulltext=ESC

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:	EU Manufacturing, Germany www.strongtie.eu
Phone:	+64 9 477 4440
Website:	www.simpsonmfg.com
Phone:	Please call NZ Head Office.

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.

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*

11.

Appendix – BPIR Ready Selections

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