Date: August 2023

Product Disclosure Information – Company Assesment

Product Name: Titen HD® Heavy Duty Screw Anchor for Concrete and Masonry
Product Category: Mechanical Anchors
Product Identifier: UPC (Unique Product Code)

Titen HD® Heavy Duty Screw Anchor for Concrete and Masonry.

THD08080MG	**5397062503606**	**THD10160MG**	**5397062506003**
THD08100MG	**5397062503903**	**THD12075MG**	**5397062531005**
THD08120MG	**5397062504207**	**THD12110MG**	**5397062506201**
THD08140MG	**5397062504504**	**THD12130MG**	**5397062506409**
THD10060MG	**5397062911104**	**THD12150MG**	**5397062506607**
THD10080MG	**5397062505006**	**THD12190MG**	**5397062511205**
THD10090MG	**5397062505204**	**THD12230MG**	**707392953784**
THD10100MG	**5397062505402**	**THD16130MG**	**5397062506805**
THD10120MG	**5397062505600**	**THD16150MG**	**5397062510000**
THD10140MG	**5397062505808**	**THD20150MG**	**5397062507109**
THD12150WHMG	**707392020530**	**THD20170MG**	**5397062507307**

1. Product Description

Mechanically Galvanised Heavy Duty Screw Anchor of various lengths and diameters.

2. Relevant Building Building Code Clauses 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.

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4.
Scope of use:

The original high-strength screw anchor for use in cracked and uncracked concrete, as well as uncracked Masonry. The Titen HDR offers low installation torque and outstanding performance. The Titen HDR demonstrates industry-leading performance.

- Timber Bottom Plate and Holdown Fixings
- Structural Steel
- Subway/Railway Fixings
- Machinery and Equipment
- Concrete Formwork and Bracing
- Access Equipment: Ladders, Staircases
- Ledgers
- Overhead Anchoring (Tension Zones)
- Strut and Pipe Hangers
- Junction Boxes and Control Panels
- Racking, Mezzanines, Conveyors
- Furniture and Storage
- Guardrails, Railings, Fencing

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: Simpson Strong-Tie Anchoring and Fastening Systems
Version: C-AF-AUNZ18 c 2018

Type: Technical Data Sheet (THD Hex)
Version: TDS-THD-NZ20

Type: Technical Data Sheet (THD Washer Head)
Version: TDS-THDWH-NZ23

Web: https://strongtie.co.nz/products/thd-titen-hd-heavy-duty-screw-anchor-concrete-masonry
Web: https://strongtie.co.nz/products/thdwh-titen-hd-heavy-duty-screw-anchor-washer-head

Branz: https://www.branz.co.nz/appraisal-codemark-certificates/simpson-strong-tie-bottom-plate-anchor-solutions/

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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 Strong-Tie
Address:	Branch 8300 Zhangjiagang, 215600 Jiangsu Province, P.R. China
Website:	www.simpsonmfg.co.nz
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.

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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

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