

Class 1

Building Product Information Sheet

About this form

This template has been developed to help manufacturers and importers into Aotearoa New Zealand provide the information required by the **Building (Building Product Information Requirements) Regulations 2022**.

How to use

- › Download and save this form in your computer.
- › Fill out the form with the relevant information about your product.
- › You may use this filled out form and publish it on your product web page.

Types of building products

There are two classes of designated building products with different information requirements for each. The below summarises the information that must be provided for each class of product and when the information must be made available.

Class 1: Batch or mass-produced products

Batch or mass-produced products that are typically available for retail or wholesale purchase. For example, cladding products, mechanical fixings, insulation products, internal lining, roofing products, structural wood-based products, structural steel and reinforcing products, sanitary plumbing, and drainage products, including tapware (note: this is not an exhaustive list).

Class 2: Custom-made lines of products

Custom-made lines of products that are made to order to client specifications. For example, external window joinery and doors that have been customised to the specifications of individual clients (for example, specifications on dimensions and glass type).

MBIE provides resources to support manufacturers, importers, wholesalers, distributors, and retailers to understand what their obligations are, and how to meet them.

For more information, visit [Building product information requirements | Building Performance](#)

Background

The Building Amendment Act 2021 introduced new minimum information requirements for building products to support better informed decision-making by building consent authorities, building owners, builders, and designers. The new regulations designate several building products for which building product information must be provided and establish the minimum requirements for that information.

The new regulations will ensure better and more consistent information is available for these products, helping inform building consent authority decisions on building consent applications. This should result in fewer requests for information, and therefore faster processing times. In addition, the requirements will ensure people, including homeowners, are given the information they need to make good decisions about products, and use and maintain them as intended.

Please note that The Ministry of Business, Innovation and Employment (MBIE) is not responsible for the input details provided in the template.

Class 1

Building Product Information Sheet

Product name (include the brand name):

NatSteel Grade 500L Reinforcing Steel

Product description and its intended use (measurements, materials, usage):

Measurements

Reinforcing Wire Manufactured in straight lengths

-Available in Ribbed Bar 5.0 - 5.5 mm, 6.0 - 9.5 mm & 10.0 - 12.0 mm diameter

Reinforcing Wire Manufactured in Coil

-Available in Plain Coil 10 mm diameter

-Available in Ribbed Coil 5.0 - 5.5 mm, 6.0 - 9.5 mm & 10.0 - 12.0 mm diameter

Materials Tensile Specifications

Yield Stress (Re): 500-750MPa

Tensile to Yield Strength Ratio (Rm/Re): Min. 1.03

Uniform Elongation (Agt): 1.5%

Usage

Microalloyed Plain/Ribbed Wire for the reinforcement of concrete according to Standard AS/NZS 4671 Grade 500L

Product identifier (if applicable):

R500L (Plain Bar), D500L (Ribbed Bar)

(This could be a Global Trade Item Number (GTIN) or quick response code (QR code), or any other distinguishable part/model number or identifier.)

Place of manufacture: Aotearoa New Zealand Overseas

Legal and trading name of the manufacturer(s):

NatSteel Holdings Pte Ltd

Address for service:

STREET NAME 22, Tanjong Kling Road

SUBURB

CITY, COUNTRY Singapore

POSTCODE 628048

Website:

www.natsteel.com.sg

Email address:

intsales@natsteel.com.sg

Phone no. (if applicable):

(65) 6265 1233

NZBN (if applicable):

NA

Legal and trading name of the importer (if applicable):

NA

Address for service:

STREET NAME NA

SUBURB

CITY, COUNTRY

POSTCODE

Website:

NA

Email address:

NA

Phone no. (if applicable):

NA

NZBN (if applicable):

NA

Relevant Building Code clauses:

B1 Structure:

- Functional requirements clause:
- B1.2
- Performance clauses:
- B1.3.1
- B1.3.2
- B1.3.3 (f)
- B1.3.4 (d)

B2 Durability:

- Functional requirements clause:
- B2.2

Statement on how the building product is expected to contribute to compliance:

The AS/NZS 4671:2019 was prepared by the Joint Standards Australia / Standards New Zealand committee BD-084, Steel Reinforcing and Prestressing Materials. The objective of this AS/NZS 4671:2019 is to provide materials specifications for steel bars and welded mesh used to reinforce concrete structures that have been designed in accordance with NZS 3101: Part 1:2006, Concrete Structures Standard. Clause 5.3.2.1 of NZS 3101:Part1:2006 states that reinforcing bars shall conform to AS/NZS 4671.

The reinforcing steel products, R500L (Plain Bar) and D500L (Ribbed Bar), listed in this document conforms to the requirements of the product standard AS/NZS 4671:2019 for the following items,

1. Manufacturing methods
2. Chemical, Mechanical and Geometric Requirements
3. Quality of finished bar
4. Demonstration of product conformity for both Product Conformity & Manufacturing Control
5. Identification of reinforcing steel

- options for compliance set out in section 19 of the Act (regulations, acceptable solution, verification method)
- standard or technical document that describes the performance of the building product or the relevant specifications to which the building product was manufactured
- physical properties of the building product
- how the building product is intended to be used.

Limitations on the use of the building product:

500L offer high yield strength however a lower ductility with uniform elongation of greater than or equal to 1.5%.

NZS 3101:Part1:2006, Clause 5.3.2.8 applies for Welding and Bending of reinforcing bars. Wherein, the provisions of NZS 3109 shall apply to the welding, bending and re-bending of reinforcing bars.

Design requirements that would support the appropriate use of the building product:

The R500L (Plain Bar) and D500L (Ribbed Bar), listed in this document has a guaranteed minimum yield strength of 500MPa and not exceeding 750MPa. The tensile strength to yield strength ratio is guaranteed to be a minimum value of 1.03. The uniform elongation value shall be a minimum of 1.5%.

Design engineers could find suitable applications for this product, for the following,

Concrete Panel (Precast)

Pile Cages (Reinforcing)

Mesh Reinforcing (Reinforcing)

Installation requirements *(also provide link to the product installation guide):*

Safety should be the top priority when working on construction sites or fabrication yards, therefore PPE (Personal Protective Equipment) required by local regulations must be worn at all times when working with reinforcing steel products. Appropriate trade tools shall be used when fabricating and installing reinforcing steel. Proper bundling and securing of the reinforcing steel bar bundles are necessary for safety during hoisting and placing.

Cutting, bending and placement of reinforcing steel products must conform to the provisions of NZS 3109. Minimum radius of bend shall be in accordance with Table 3.1 to avoid local failures at hooks and bends.

Reinforcing steel must be properly secured in place and with proper bar chairs or other suitable support systems capable of safely withstanding the loads during various construction phases.

At least a minimum concrete cover to reinforcing steel shall be provided as per the requirements of NZS 3101:Part1:2006 to protect the reinforcing steel from corrosion.

Maintenance requirements *(also provide link to the product maintenance guide):*

All equipments that are used in the fabrication and placement of reinforcing steel shall be periodically maintained as per the laid out maintenance schedule.

Reinforcing steel which needs to be stored on-site for a few days before construction shall be kept covered from the actions of environment, such as rain, to prevent excessive rusting. Light rust which does not reduce the material performance to AS/NZS 4671 shall not be a cause of concern as advised by NZS 3109, clause 3.4.

When the reinforced concrete building is designed to conform to NZS 3101:Part 1:2006, Clause 3, reinforcement steel cast in concrete with appropriate concrete cover generally do not require any maintenance during the designed life span.

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?:

Yes No

If yes, description of the warning or ban under section 26:

Version:

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Date:

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