
BUILDING PRODUCT INFORMATION SHEET

Steel prestressing wire and strand
Siam Industrial Wire

Class 1

Building Product Information Sheet

Product name (include the brand name):

Steel Prestressing Wire and Strand

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

Steel Prestressing wire and Strand made to exceed the requirements of AS/NZS 4672:2007 parts 1 and 2

Key technical specifications

Manufacturing standard: AS/NZS 4672:2007 parts 1 and 2
Section designations: wire and strand

Stress relieved wire 7.00 mm 1670 MPa Relax 2
Stress relieved wire 5.03 mm 1700 MPa Relax 2
Stress relieved wire 5.0 mm 1770 MPa Relax 2
Strand 7 wire ordinary 9.5 mm 1850 MPa Relax 2
Strand 7 wire ordinary 11.1 mm 1870 MPa Relax 2
Strand 7 wire ordinary 12.7 mm 1870 MPa Relax 2
Strand 7 wire ordinary 15.2 mm 1750 MPa Relax 2
Strand 7 wire ordinary 15.2 mm 1830 MPa Relax 2
Strand 7 wire compact 15.2 mm 1820 MPa Relax 2

Product identifier (if applicable):

71201

(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):

Siam Industrial Wire

Address for service:

STREET NAME 160 Moo 11 T Nong Lalok SUBURB Ban Khai District

CITY, COUNTRY Rayong Thailand POSTCODE

Website:

www.siw.co.th/en

Email address:

marketing@siw.co.th

Phone no. (if applicable):

NZBN (if applicable):



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

R C Macdonald Ltd

Address for service:

STREET NAME 15 Willeston Street

SUBURB CBD

CITY, COUNTRY Wellington New Zealand

POSTCODE 6011

Website:

www.macdonaldsteel.co.nz

Email address:

sales@macdoanldsteel.co.nz

Phone no. (if applicable):

NZBN (if applicable):

Relevant Building Code clauses:

B1 Structure: Performance clauses B1.3.1 and B1.3.2
 B2 Durability: Performance clause B2.3.1 (a)
 F2 Hazardous Building Materials: Performance clause F2.3.1

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

B1 Structure: AS/NZS 4672.2007 parts 1 and 2 is a standard referenced in design standards NZS 3404: 1997 and AS/NZS 2327: 2017. These material design standards are cited as verification methods in B1/VM1.

B2 Durability: The methodologies for designing structural steel components to comply with the building code durability provisions are presented in the cited Technical Specification TS 3404: 2018 (B2/AS1)

F2 Hazardous Building Materials: Structural steel is a stable material that does not emit any harmful gas, liquid or solid particles.

- 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:**

B1 Structure: Structural steel shall only be used in construction projects when subject to specific engineering design by a suitably qualified engineer to the requirements of NZS 3404: 1997 or AS/NZS 2327: 2017. Furthermore, the fabrication of structural steel into structural steelwork components shall be in accordance with the requirements of AS/NZS 5131: 2016. This fabrication and erection standard is cited as a verification method in B1/VM1.

B2 Durability: Structural steel used in building works shall be subject to durability design by a suitably qualified designer to the requirements of TS 3404: 2018.

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

See limitations of on the use of the building product section above.

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

The site installation of fabricated structural steel components shall be in accordance with the requirements of the design engineer's construction specification and those of AS/NZS 5131: 2016.



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

The maintenance requirements shall be as per the building consent documentation and any project specific maintenance schedule produced by a suitably qualified design professional.

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:

00000001

Date:

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