

Building Products Information Sheet – Class 1

Product Name:	Grade 500E Reinforcing Straight Steel Bar
Product Line:	500E Reinforcing Straight Bar, 6m lengths, 12 & 16mm diameter
Product Description and its Intended Use:	Manufactured to AS/NZS 4671:2019 micro alloy grade 500E – for reinforcement of concrete
Product Identifier:	
Place of Manufacture:	Vietnam
Legal & Trading Name of Manufacturer:	Tung Ho Steel Vietnam Corp Ltd
Legal & Trading Name of Importer:	United Steel Limited
Address for Service:	23 Trugood Drive, East Tamaki, Auckland 2013, New Zealand
Website:	www.unitedsteel.co.nz
Email Address:	akl.sales@unitedsteel.co.nz
Phone Number:	0800 800 649
NZBN:	9429032129502
Relevant Building Code Clauses:	Clause B1 Structure - B1.2, B1.3.1, B1.3.2, B1.3.3 f, B1.3.4 d Clause B2 Durability - B2.2

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How our building product is expected to contribute to compliance:

Clause B1 Structure - B1.2, B1.3.1, B1.3.2, B1.3.3 f, B1.3.4 d

500E reinforcing straight steel bar contributes to meeting the performance requirements of these clauses by being manufactured and certified to meet the requirements AS/NZS 4671:2019

Clause B2 Durability - B2.2

Limitations on the use of the building product:

- Grade 500E Reinforcing Straight Steel Bar can only be:
 - Bent to the provisions of NZS 3109 & NZS 3101.1
 - Welded to the provisions of NZS 3109 and AS/NZS 1554.3
- Yield Strength 500 to 600 MPa, class E ductility reinforcing steel cannot be re-bent cold as per the requirements of NZS3109 clause 3.3.8

Design and installation requirements:

- 500E reinforcing steel bar should only be specified by suitably qualified Structural Engineers to meet the performance criteria set out in the New Zealand Building Code.
- 500E reinforcing steel bar should be installed by competent and experienced operators who are familiar with the various requirements and practices involved in reinforced concrete construction in New Zealand.

Durability and maintenance requirements:

- 500E reinforcing straight steel bar should be stored in an essentially dry environment to avoid excessive surface rust developing.
- 500E reinforcing straight steel bar should not be used if has been physically damaged or has received sudden impacts, or has had excessive cold working (bending) – this may detrimentally affect the physical properties of the steel.

The building product is not subject to a warning or ban under section 26.

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