



CLASS 1

Building Product Information Statement

PRODUCT NAME

Superductile 500E™ reinforcing mesh (ductile mesh, structural mesh)

PRODUCT DESCRIPTION

Superductile 500E™ is a structural welded steel reinforcing mesh manufactured to exceed the minimum requirements of AS/NZS 4671 “Steel for the reinforcement of concrete” – strength grade 500MPa and ductility class E– micro-alloyed reinforcing steel feed supplied by Pacific Steel (NZ) Ltd.

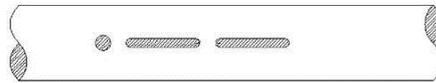
The mesh is available as plain round profile bar in diameters: 6.1mm, 7mm, 8mm & 9mm with a pitch of 200mm.

Fletcher Reinforcing Mesh Product Guides are available on the Fletcher Reinforcing website which detail sheet sizes, weights and constructions available in the north and south islands –

<https://www.fletcherreinforcing.co.nz/products/reinforcing-mesh>



PRODUCT IDENTIFIER



Pacific Steel (NZ) Ltd R500E bar mark

AS/NZS 4671: R500SE92, R500SE82, R500SE72 & R500SE62

PLACE OF MANUFACTURE

Aotearoa New Zealand

MANUFACTURER

Fletcher Reinforcing

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RELEVANT BUILDING CODE CLAUSES AND COMPLIANCE

Past history of use and manufacture to appropriate product Standards indicates that provided the structural design and product installation, use and maintenance is in line with the guidelines of this Statement, Superductile 500E™ can contribute to meeting the following performance criteria outlined in the New Zealand Building Code:

- B1 Structure: Performance clauses B1.3.1, B1.3.2 & B1.3.3 (a, b, d, f, g, h, m & q) and B1.3.4 (d). *Superductile 500E™ contributes to meeting the performance requirements of these clauses by being manufactured and certified to meet the requirements of AS/NZS 4671.*
- B2 Durability: Performance clauses B2.3.1(a).

LIMITATIONS ON USE

- Reinforcing steel, ("500E"), including Superductile 500E™ mesh, can only be:-
 - bent to the provisions of NZS 3109 and NZS 3101.1. (if deformed bar is to be galvanized, note specific bend diameters in NZS 3101.1)
 - welded to the provisions of NZS 3109 and AS/NZS 1554.3
- 500MPa strength, class E ductility reinforcing steel, ("500E"), including Superductile 500E™ mesh, cannot be re-bent cold. A suitable procedure for hot re-bending of 500E reinforcing steel can be found in NZS 3109 Clause 3.8.8.

DESIGN AND INSTALLATION REQUIREMENTS

- Superductile 500E™ reinforcing mesh should only be specified by suitably qualified Structural Engineers to meet the performance criteria set out in the New Zealand Building Code.
- Superductile 500E™ reinforcing mesh should be installed by competent and experienced personnel familiar with the requirements and practices of NZ reinforced concrete construction.
- As a micro-alloyed steel, Superductile 500E™ can be hot-dipped galvanised.

DURABILITY AND MAINTENANCE REQUIREMENTS

- Avoid damage to the concrete that would reduce the cover depth or allow contaminant ingress through the concrete cover.
- Superductile 500E™ reinforcing mesh should be stored in an essentially dry environment to avoid excessive surface corrosion forming.
- Reinforcing mesh should not be used if physically damaged.
- Tightly adherent mill scale or surface corrosion are not detrimental to the mesh performance, but excessive loose and flaking surface corrosion should be avoided. Refer to the following technical information:
https://www.fletcherreinforcing.co.nz/web/assets/FBRE_15_Brochure-Rust-on-Mesh_V02.00.1018.pdf .

WARNINGS & BANS

The Superductile 500E™ is not subject to warning or ban under section 26 of the Building Act 2004.

DISCLAIMER

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