



500E Ductile Mesh Product Information Version 1 Nov 2023

SOUTHERN MESH SUPPLIES LTD

500E Ductile Mesh Product Information

Designated building product

Class 1

Declaration

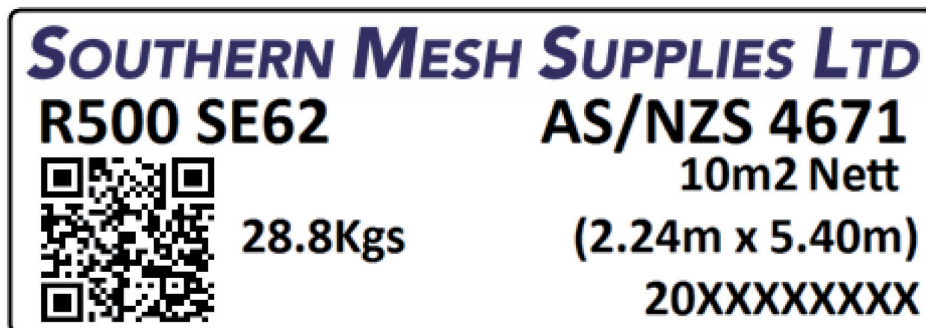
Southern Mesh Supplies Limited has provided this declaration to satisfy the provisions of Schedule 1(d) of the Building Regulations 2022 (Building Product Information Requirements).

Product/System

Name Ductile Reinforcing Mesh

Line R500SE62 (6.1mm diameter at 200mm centers)
R500SE72 (7mm diameter at 200mm centers)
R500SE82 (8mm diameter at 200mm centers)
R500SE92 (9mm diameter at 200mm centers)

Identifier Each sheet has individual Southern Mesh identification tag and the steel manufacturing Dot Dash emboss from Mill Manufacture.



Southern Mesh Identifier tag example



Pacific Steel Bar Marking

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Description

Commonly required in ductile reinforcement for concrete for both residential and commercial use. This mesh is generally specified by either the building code or an engineer.

Manufactured from required size, high tensile, high ductility, SEISMIC® Grade 500E plain carbon steel reinforcing produced by Pacific Steel NZ (New Zealand certified steel). The bars are welded into 5400mm x 2250mm sheets & batch tested by Holmes Solution LP to test standards AS 1391:2007 and ISO 15630-2:2010, as specified in AS/NZS 4671: 2019 and B1/VM1 Paragraph 14.

Dimensions: 5400mm x 2250mm sheets (10Sqm Nett cover)

All sheets produced have a sticker attached that outline's what specification of mesh it is, Southern Mesh Supplies details and individual sheet number.

Scope of Use

Most typically used in the reinforcement of concrete in residential and commercial structures.

Conditions of Use

Product should be used as per Southern Mesh Supplies Ltd Mesh specification sheet & engineers' drawings.

Mesh should be lapped 1 FULL square plus the overhang on both side and end laps.

Lapping detail as determined by testing and evaluation conducted by Holmes Solutions Ltd on behalf of Southern Mesh Supplies Ltd.

Relevant building code clauses

AS/NZS 4671:2019, Steel for the reinforcement of concrete

B1 Structure, Functional requirements clause B1.2 and clause, B1.3.1, B1.3.2, B1.3.3(f) and B1.3.4(d)

B2 Durability, Functional requirements clause B2.2

AS/NZS 1554.3, Structural steel Welding, Part3: Welding reinforcing steel

NZS 3101-1 & 2:2006, Concrete Structure Standard, incorporation Amendment No. 1-3

NZS 3109:1997, Concrete construction

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Contributions to Compliance

When used correctly as per engineer and Southern Mesh Supplies Ltd specification, 500E Ductile Mesh will provide reinforcement to concrete that shall withstand the combination of loads likely to be experienced during construction or alteration and throughout the building lifetime.

The mesh sheets are batch tested by Holmes Solution LP to test standards AS 1391:2007 and ISO 15630-2:2010, as specified in AS/NZS 4671: 2019 and B1/VM1 Paragraph 14.

Support Documents

Southern Mesh Supplies Limited has provided this declaration to satisfy the provisions of Schedule 1(d) of the Building Regulations 2022 (Building Product Information Requirements).

500E Ductile Mesh Specification (Installation) Version5 NOV 2023 - download on website.
For further information supporting Ductile Reinforcing Mesh claims refer to our website.

Building Act 2004, Section 26

I can also confirm that Ductile Reinforcing Mesh is not subject to a warning or ban under s26 of the Building Act.

500E Ductile Mesh Product Information

Contact Details

Manufacture location	New Zealand
Legal and trading name of manufacturer	Southern Mesh Supplies Limited
Manufacturer address for service	16D Birmingham Drive Christchurch 8024
Manufacturer website	http://www.fenwick.co.nz/southernmesh.html
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Manufacturer NZBN	9429036779567