



## Building Product Information Sheet

Class 1 Designated Building Product.

### Company Details:

Name: N.Z Welded Mesh Limited

NZBN: 9429039441669

Address: 809a Great South Road, Mount Wellington, Auckland 1060

Website: <http://www.nznails.co.nz/products/reinforcing/>

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### Product Identifier:

N.Z Welded Mesh Limited is manufactured from high tensile, high ductility, SEISMIC® 500E plain carbon steel manufactured by Pacific Steel (NZ) Limited (Identifiable by registered barmarks as shown below).



**SEISMIC® Grade 500E Plain Bar**

<https://www.pacificsteel.co.nz/products/steel-for-mesh/structural/>

N.Z Welded Mesh Ltd's specific mesh sheet sizes can be identified by N.Z Welded Mesh Ltd's product code.

**Place of Manufacture:** New Zealand.

**Product Line:**

N.Z Welded Mesh Ltd’s Seismic Mesh is a structural/ductile reinforcing mesh, it is manufactured using micro-alloyed grade 500E plain steel (high tensile, high ductility, SEISMIC® 500E plain carbon steel manufactured by Pacific Steel), it derives its superior strength and ductility by micro-alloying the steel with small vanadium additions. This steel also meets the demanding requirements of the seismic structural design methods employed in New Zealand as required by the reinforcing steel Standard AS/NZS 4671:2019. This Standard specifies the requirements for the chemical composition, mechanical properties and geometric properties of reinforcing steel used for the reinforcement of concrete in the form of machine-welded mesh.

N.Z Welded Mesh Ltd’s Seismic Mesh is manufactured to exceed the minimum requirements of AS/NZS 4671:2019 Steel for the reinforcement of concrete.

N.Z Welded Mesh Ltd’s Seismic Mesh is available as plain round profile bars in diameters of: 6.1mm, 7mm, 8mm & 9mm with a pitch of 200mm.

**Product Description & its intended use:**

Reinforcing mesh offers a firm foundation for the reinforcement of concrete slabs, it provides structural integrity, improves tensile strength and helps prevent cracks. Designers and engineers specify the specific reinforcing mesh required when designing a building. AS/NZS 4671:2019, Clause 3.4.1, batches, Steel mesh are produced as batches, maximum of 1000 sheet per batch and each batch is tested for compliance to AS/NZS 4671:2019. Batch test certificates are available on request.

	<b>Product Code:</b>	<b>Mesh Specification:</b>	<b>Barcode:</b>	<b>Wire Size:</b>	<b>Longitudinal Bars:</b>	<b>Pitch:</b>	<b>Cross Bars:</b>	<b>Pitch:</b>	<b>Length:</b>	<b>Width:</b>	<b>Sheet Size:</b>	<b>Weight:</b>	<b>Nett Cover m2:</b>
1	SE92 LGE	SE 92 Large	941656105006	9.0mm	13	200mm	31	200mm	6.050	2.420	6.05 x 2.42m	76.74	12.363
2	SE82 LGE	SE 82 Large	941656105005	8.0mm	13	200mm	31	200mm	6.050	2.420	6.05 x 2.42m	60.63	12.363
3	SE72 LGE	SE 72 Large	941656105004	7.0mm	13	200mm	31	200mm	6.050	2.420	6.05 x 2.42m	46.42	12.363
4	SE62 LGE	SE 62 Large	941656105003	6.1mm	13	200mm	31	200mm	6.050	2.420	6.05 x 2.42m	35.25	12.363
5	SE62 NETT10	SE62 Nett10	941656105002	6.1mm	13	200mm	25	200mm	4.900	2.420	4.90 x 2.42m	28.49	9.78
6	SE62 STD	SE 62 Standard	941656105001	6.1mm	11	200mm	24	200mm	4.650	2.020	4.65 x 2.02m	22.85	7.612

### **Relevant Building Code clauses:**

NZ Welded reinforcing mesh complies with the following 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

AS/NZS 4671:2019 Steel for the Reinforcement of Concrete

NZS 3101-1 and 2:2006 Concrete Structures Standard, Incorporation Amendment No. 1, 2 and 3

NZS 3109:1997 Concrete construction

AS/NZS 1554.3, Structural steel welding, Part 3: Welding of reinforcing steel

### **Conditions of use:**

N.Z Welded Mesh Ltd's Seismic Mesh should only be specified by appropriately qualified structural engineers to meet the performance standard set out in the New Zealand Building Code.

N.Z Welded Mesh Ltd's Seismic Mesh should only be installed by proficient and experienced people familiar with the requirements and practises of the NZ reinforced concrete construction.

### **Maintenance requirements:**

When considering the surface condition of reinforcing steel, some rust should be considered normal. Clause 3.4 of NZS 3109 indicates "tightly adhering mill scale or surface rust does not have a detrimental effect" and AS/NZS 4671 specifies "rust shall not be cause for rejection of reinforcing steel provided that a cleaned sample meets the minimum requirements of the Standard."

### **Building Act 2004, Section 26:**

N.Z Welded Mesh Ltd's Seismic Mesh is not subject to a warning or ban under section s26 of the Building Act 2004.