



CRP INDUSTRIES PTE LTD
Reinforcing The South Pacific

REINFORCING MESH PRODUCT GUIDE

SEISMIC DUCTILE MESH 500E & HARD DRAWN MESH



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CRP Industries Pte Ltd

Since 1992, CRP Industries has been the leading manufacturer of welded mesh in Fiji, offering high-quality solutions that meet the demands of modern construction. Our journey began with a vision to support the nation's growing infrastructure needs, and today, we proudly supply Seismic Ductile Mesh, Reinforcing Mesh, Galvanized Mesh, and more to Fiji and the wider South Pacific region.

Innovation and Quality You Can Trust

At CRP, we are committed to delivering products that are not only reliable but also engineered to meet the highest international standards. Our Seismic Ductile 500E Mesh is tested to comply with FS AS/NZS 4671-2003 standards, ensuring superior performance in earthquake-prone areas and modern concrete structures.

Custom Solutions for Every Project

Understanding the diverse needs of our customers, we offer tailored mesh solutions to fit specific project requirements. Whether it's for residential, commercial, or industrial applications, CRP's innovative approach supports safer, stronger, and more efficient construction practices.

Our Legacy of Dependability

With decades of experience, a commitment to quality, and a focus on customer satisfaction, CRP Industries continues to be the trusted partner for builders, engineers, and contractors across the region. Together, let's build a stronger and more resilient future.

The Engineers & Building Code now states the reinforcing requirements for concrete slabs-on-ground of buildings built in accordance with FS AS/NZS 4671-2003, have a minimum of 2.27kg/m² of Grade 500E reinforcing mesh fabric which conforms with FS AS/NZS 4671:2003. CRP Seismic Ductile Mesh 500E meets these requirements.

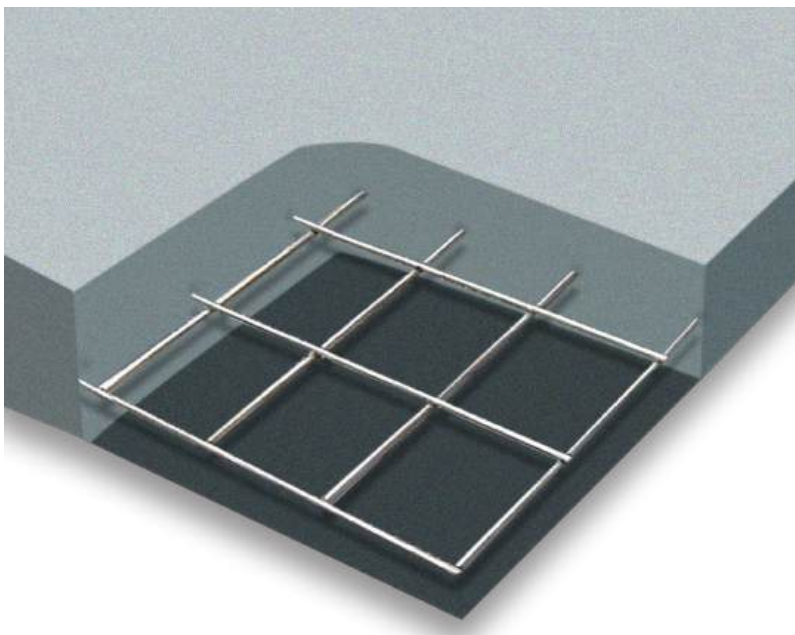
- Grade 500E (seismic) as per FS AS/NZS 4671-2003
- Yield stress (MPa) >500 <600
- Uniform Elongation >10%
- Tensile Ratio % > 1.15 < 1.40
- Weight per m² complies with FS AS/NZS 4671-2003(min 2.27kg/m²)

Our range covers larger economical sheet sizes of 5.8 x 2.22m sheets. We can also offer custom sheet sizes for large projects.

Seismic Mesh – Ductile 500E

CRP's Seismic Mesh is specially engineered to meet the demands of earthquake-resistant construction, offering unparalleled strength, flexibility, and compliance with international standards. Manufactured to Grade 500E specifications, our Seismic Ductile Mesh ensures superior performance in seismic zones, providing durability and resilience for modern structures.

Available Sizes: SE62, SE72, SE82, SE92 Seismic Ductile Mesh
668 and 665 Hard Drawn Mesh



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Reinforcing Mesh
Seismic Ductile 500E & Hard Drawn Mesh

Super Ductile 500E Mesh Load-bearing Equivalents

Conventional Designation	Centres	Wire Ø	Length (mm)	Width (mm)	Nett Cover (m2)	CRP Reinforcing Item
665	200	6.1	5800	2220	11.2	SE62
664	200	7.0	5800	2220	11.2	SE72
662	200	8.0	5800	2220	11.2	SE82
661	200	9.0	5800	2220	11.2	SE92

What does SE62 mean?

FS AS/NZS 4671-2003 designates letters to be used to identify welded mesh products:

S = Square (Shape of grid centres)

E = Seismic grade (Earthquake)

6 = 6.1mm wire

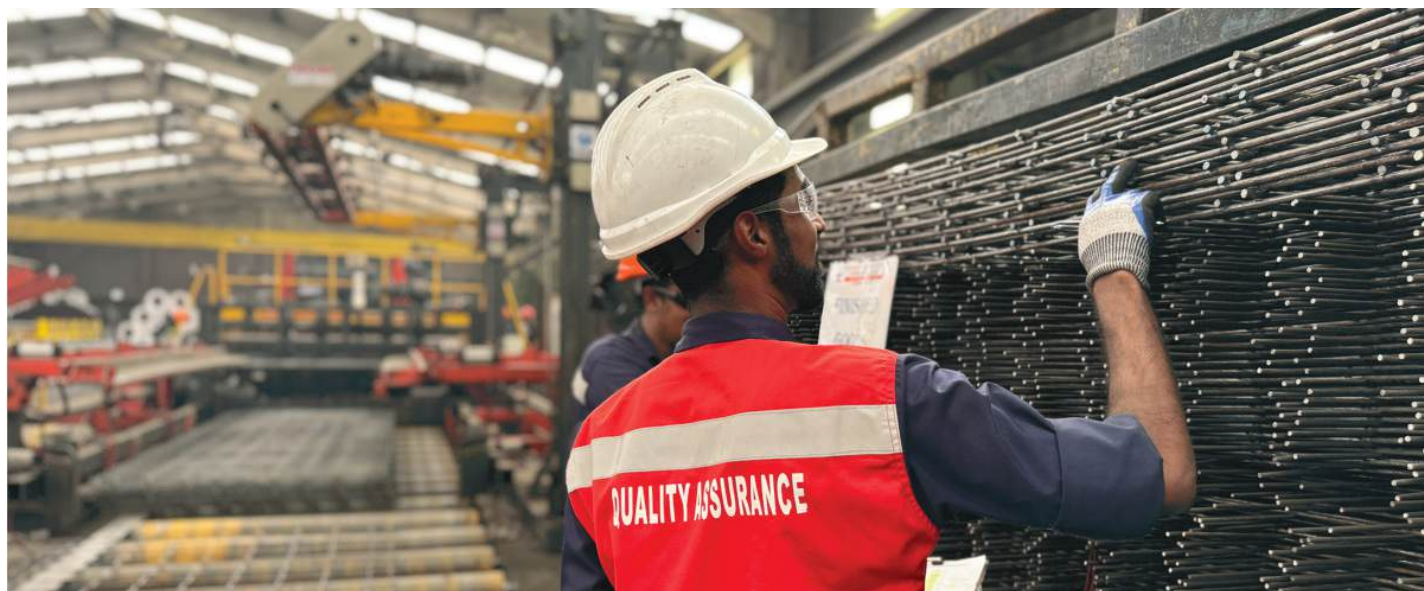
2 = 200mm centres

Equivalents are based on load-bearing capacity i.e. the nominal sectional area of steel per metre width.

Hard Drawn Wire Mesh 485MPa							Ductile Wire Mesh Min: 500MPa Max 600MPa					
CRP Reinforcing Item	Wire Diameter (mm)	Centres (mm)	Cross Section (mm2/m)	Mass per m2 (kg/m2)	Nett Cover (m2)	Conventional Designation	CRP Reinforcing Item	Wire Diameter (mm)	Centres (mm)	Cross Section (mm2/m)	Mass per m2 (kg/m2)	Nett Cover (m2)
668L	4.0	150	83.8	1.315	7.525	668						
665L	5.3	150	147.1	2309	7.525							
						665	SE62	6.1	200	146.1	2.294	11.2
						664	SE72	7.0	200	192.4	3.021	11.2
						663	SE72	7.0	200	192.4	3.021	11.2
663L	6.3	150	207.8	3.263	7.525	663	SE82	8.0	200	251.3	3.946	11.2
						662	SE82	8.0	200	251.3	3.946	11.2
						661	SE92	9.0	200	318	4.994	11.2

Equivalents are based on load-bearing capacity i.e. the nominal sectional area of steel per metre width.

Note: Additional meshes are available as a special order. Minimum order quantities will apply.



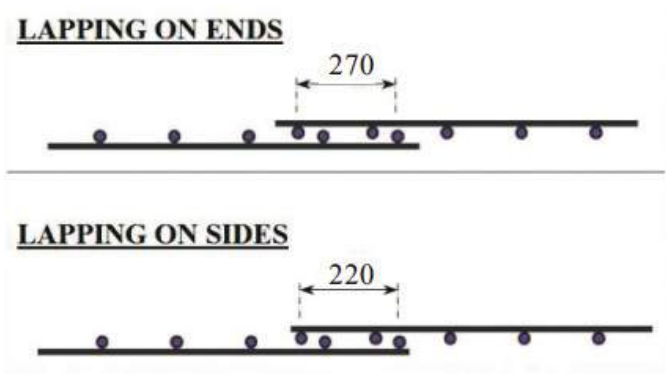
Seismic Grade Reinforcing Mesh SE62
Mesh Specification

Product Description: 5.8m x 2.22m - 200 x 200 Grid R6.1 Line Wire, R6.1 Cross Wire

	Wire Dia. (mm)	Spacing (mm)	Length (mm)	No. of wires	Overhangs (mm)		mm²/m	Wire kg/m	Weight kg/m
Longitudinal Wire	6.1R	200	5800	12	100	100	146.1	0.2294	15.97
Cross Wire	6.1R	200	2.22	29	10	10	146.1	0.2294	14.77

Gross Sheet Weight (Kg) : 30.74
Mass Per SQ Meter (Kg/m²) : 2.294

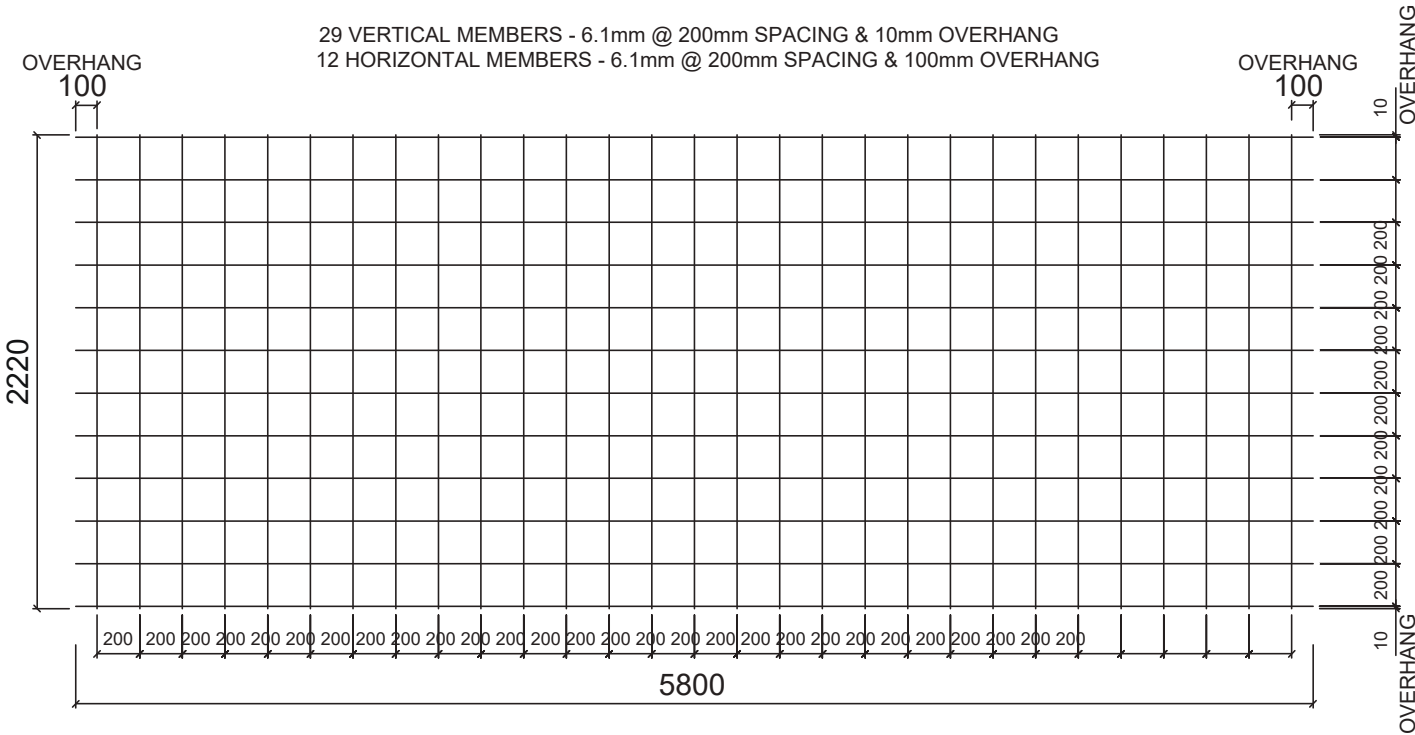
Gross Sheet Area (m²)	12.876
Net Cover (m²)	11.2
Ratio Stack & Turned (Y/N)	Y
No. of Sheets / Bundle	50
Estimated Cubic (m³)	4.507
Bundle Weight (Tonnes)	1.54



Mechanical Properties

Uniform Elongation %	Yield Strength		Tensile Ratio		Weld Shear Strength
	Min	Max	Min	Max	
>10%	500MPa	600MPa	1.15	1.4	>250MPa

Mesh Sketch (Not to Scale)



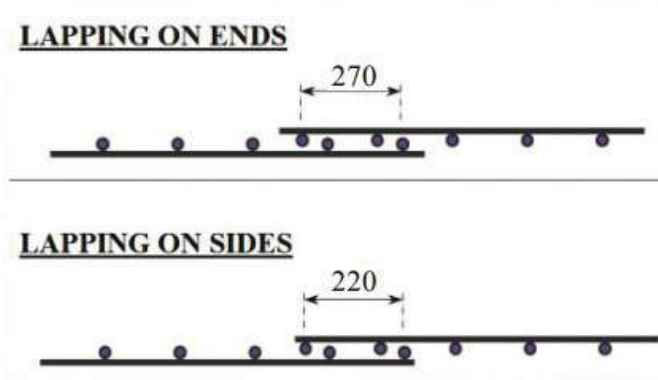
Seismic Grade Reinforcing Mesh SE72
Mesh Specification

Product Description: 5.8m x 2.22m - 200 x 200 Grid R7.0 Line Wire, R7.0 Cross Wire

	Wire Dia. (mm)	Spacing (mm)	Length (mm)	No. of wires	Overhangs (mm)		mm²/m	Wire kg/m	Weight kg/m
Longitudinal Wire	7.0 R	200	5800	12	100	100	192.4	0.3021	21.02
Cross Wire	7.0 R	200	2220	29	10	10	192.4	0.3021	19.45

Gross Sheet Weight (Kg) : 40.47
Mass Per SQ Meter (Kg/m²) : 3.021

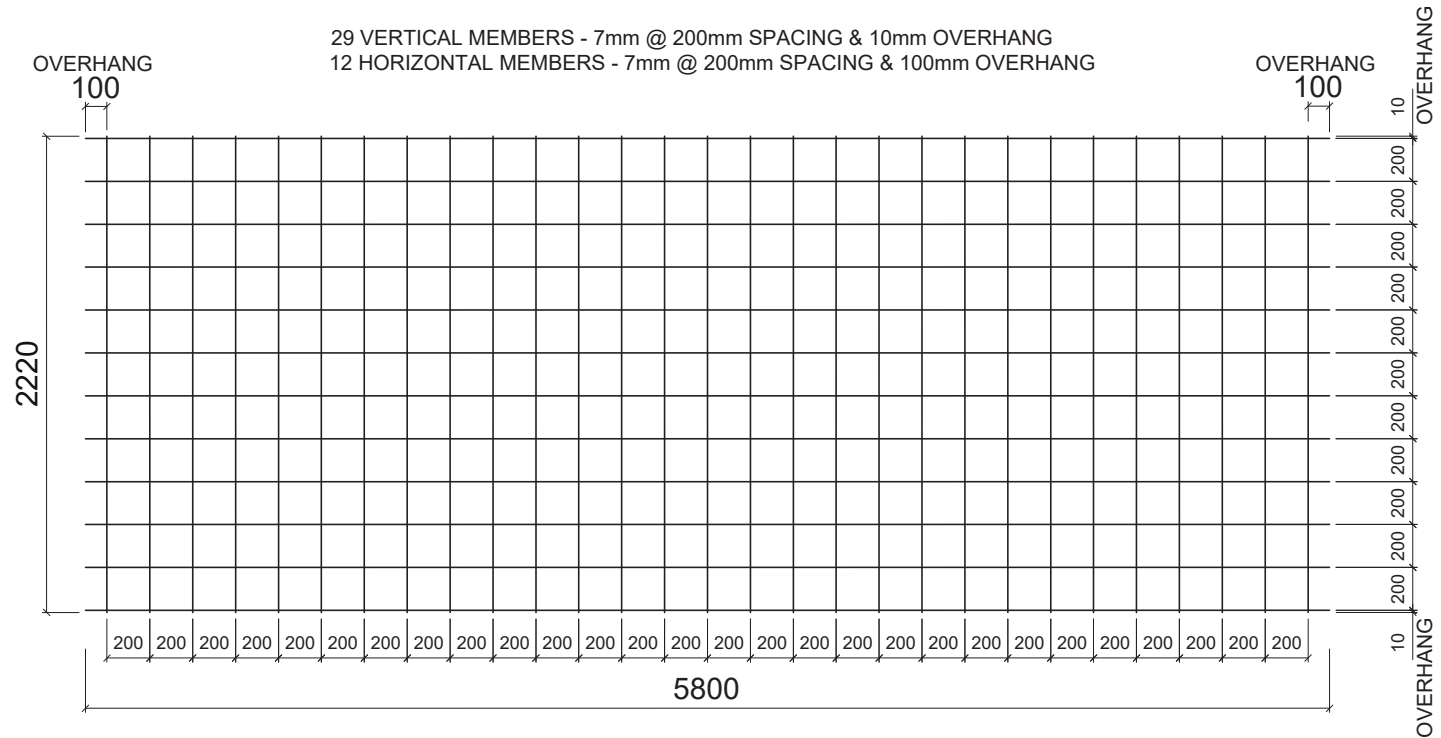
Gross Sheet Area (m²)	12.876
Net Cover (m²)	11.2
Ratio Stack & Turned (Y/N)	Y
No. of Sheets / Bundle	50
Estimated Cubic (m³)/bundle	5.15
Bundle weight (tonnes)	2.024



Mechanical Properties

Uniform Elongation %	Yield Strength		Tensile Ratio		Weld Shear Strength
	Min	Max	Min	Max	
>10%	500MPa	600MPa	1.15	1.4	>250MPa

Mesh Sketch (Not to Scale)



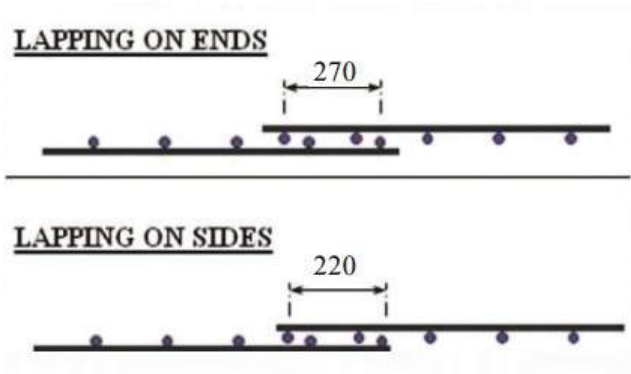
Seismic Grade Reinforcing Mesh SE82
Mesh Specification

Product Description: 5.8m x 2.22m - 200 x 200 Grid R8.0 Line Wire, R8.0 Cross Wire

	Wire Dia. (mm)	Spacing (mm)	Length (mm)	No. of wires	Overhangs (mm)		mm ² /m	Wire kg/m	Weight kg/m
Longitudinal Wire	8.0 R	200	5800	12	100	100	251.3	0.3946	27.47
Gross Wire	8.0 R	200	2220	29	10	10	251.3	0.3946	25.41

GROSS SHEET WEIGHT (Kg) : 52.88
MASS PER SQ METER (Kg/m²) : 3.95

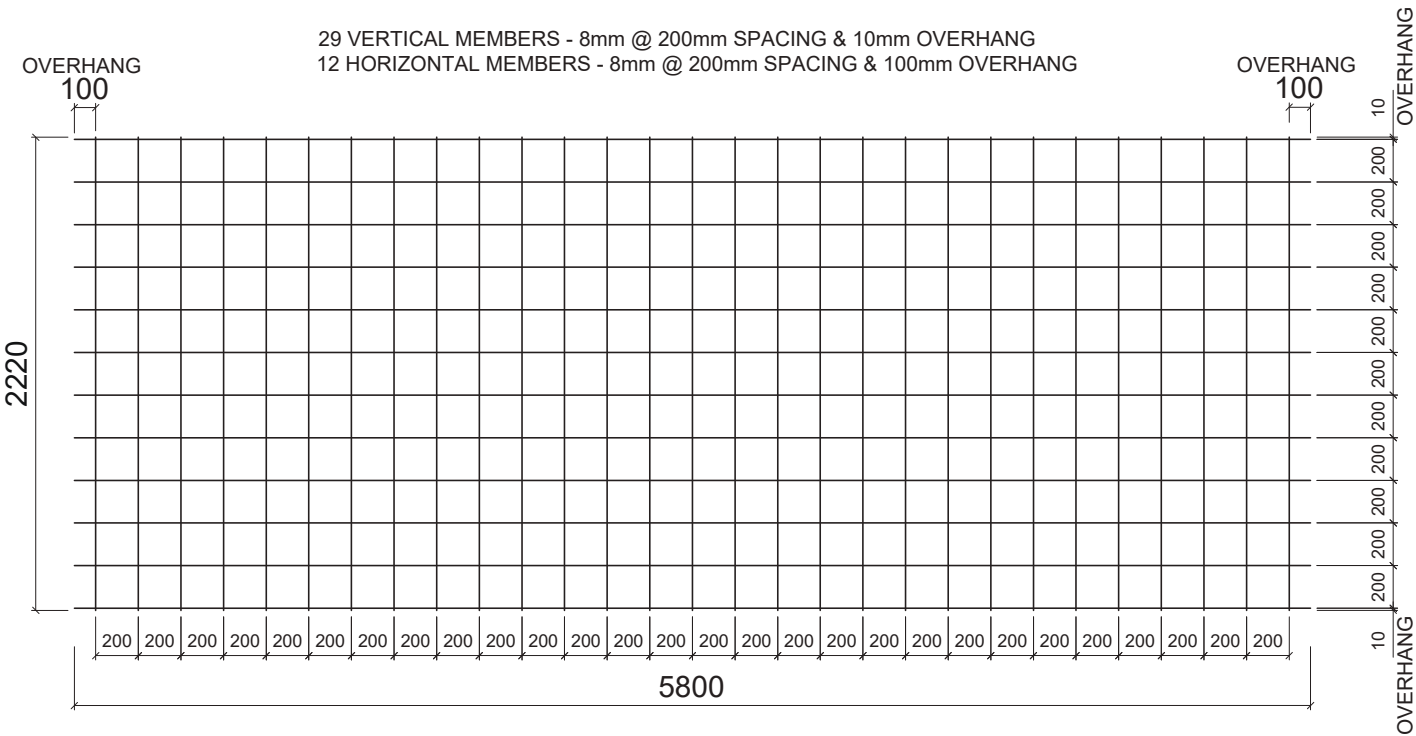
Gross Sheet Area (m ²)	12.876
Net Cover (m ²)	11.2
Ratio Stack & Turned (Y/N)	Y
No. of Sheets / Bundle	35
Estimated Cubic (m ³)	4.25
Bundle weight (tonnes)	1.9



Mechanical Properties

Uniform Elongation %	Yield Strength		Tensile Ratio		Weld Shear Strength
	Min	Max	Min	Max	
>10%	500MPa	600MPa	1.15	1.4	>250MPa

Mesh Sketch (Not to Scale)



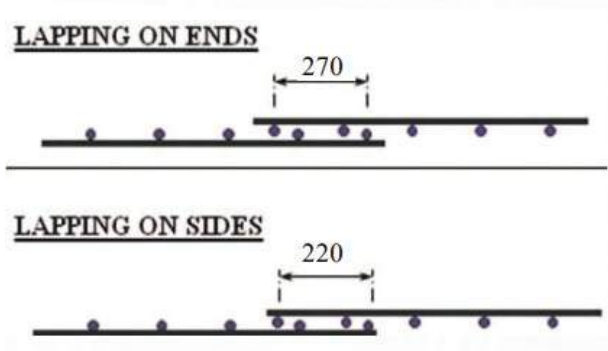
Seismic Grade Reinforcing Mesh SE92
Mesh Specification

Product Description: 5.8m x 2.22m - 200 x 200 Grid R9.0 Line Wire, R9.0 Cross Wire

	Wire Dia. (mm)	Spacing (mm)	Length (mm)	No. of wires	Overhangs (mm)		mm²/m	Wire kg/m	Weight kg/m
Longitudinal Wire	9.0 R	200	5800	12	100	100	318	0.4994	34.76
Cross Wire	9.0 R	200	2220	29	10	10	318	0.4994	32.15

GROSS SHEET WEIGHT (Kg) : 66.91
MASS PER SQ METER (Kg/m²) : 4.95

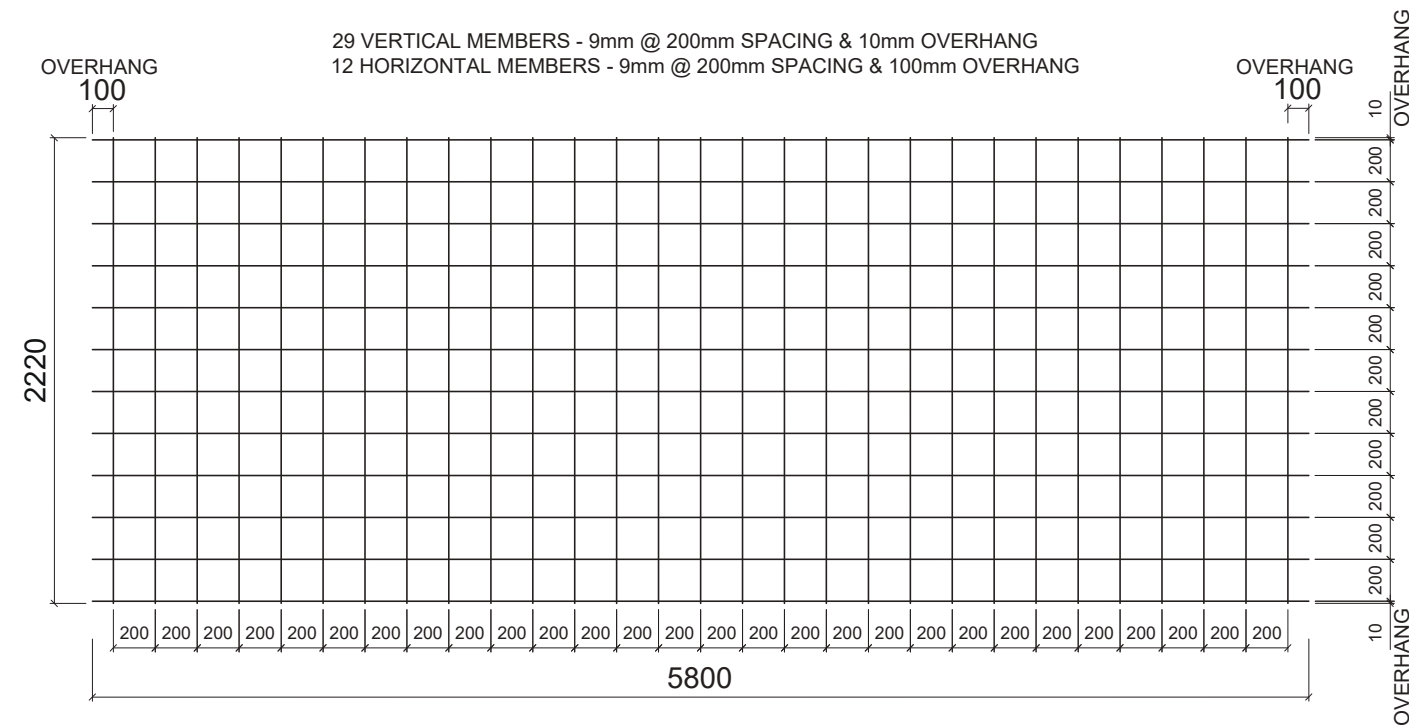
Gross Sheet Area (m²)	12.876
Net Cover (m²)	11.2
Ratio Stack & Turned (Y/N)	Y
No. of Sheets / Bundle	25
Estimated Cubic (m³)	3.22
Bundle weight (tonnes)	1.68



Mechanical Properties

Uniform Elongation %	Yield Strength		Tensile Ratio		Weld Shear Strength
	Min	Max	Min	Max	
>10%	500MPa	600MPa	1.15	1.4	>250MPa

Mesh Sketch (Not to Scale)



Hard Drawn Reinforcing Mesh
Mesh Specification

665L

Product Description: 5.8m x 2.4m - 150 x 150 Grid D5.3 Line Wire, D5.3 Cross Wire

	Wire Dia. (mm)	Spacing (mm)	Length (mm)	No. of wires	Overhangs (mm)		mm²/m	Wire kg/m	Weight kg/m
Longitudinal Wire	5.3 D	150	5800	15	125	125	147.1	0.1732	15.07
Cross Wire	5.3 D	150	2400	38	150	150	147.1	0.1732	15.79

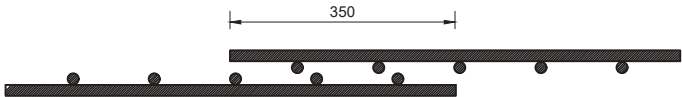
GROSS SHEET WEIGHT (Kg) : 30.86
MASS PER SQ METER (Kg/m²) : 2.309

Gross Sheet Area (m²)	13.92
Net Cover (m²)	11.88
Ratio Stack & Turned (Y/N)	Y
No. of Sheets / Bundle	50
Estimated Cubic (m³)	4.05
Bundle weight (tonnes)	1.55

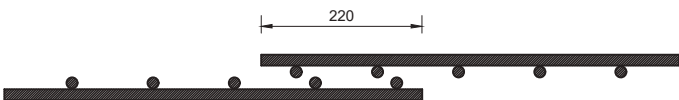
Mechanical Properties

Wire Diameter	Yield Strength	
	Min	Max
>5.0mm	485MPa	
≥5.0mm	485MPa	750MPa

LAPPING ON ENDS

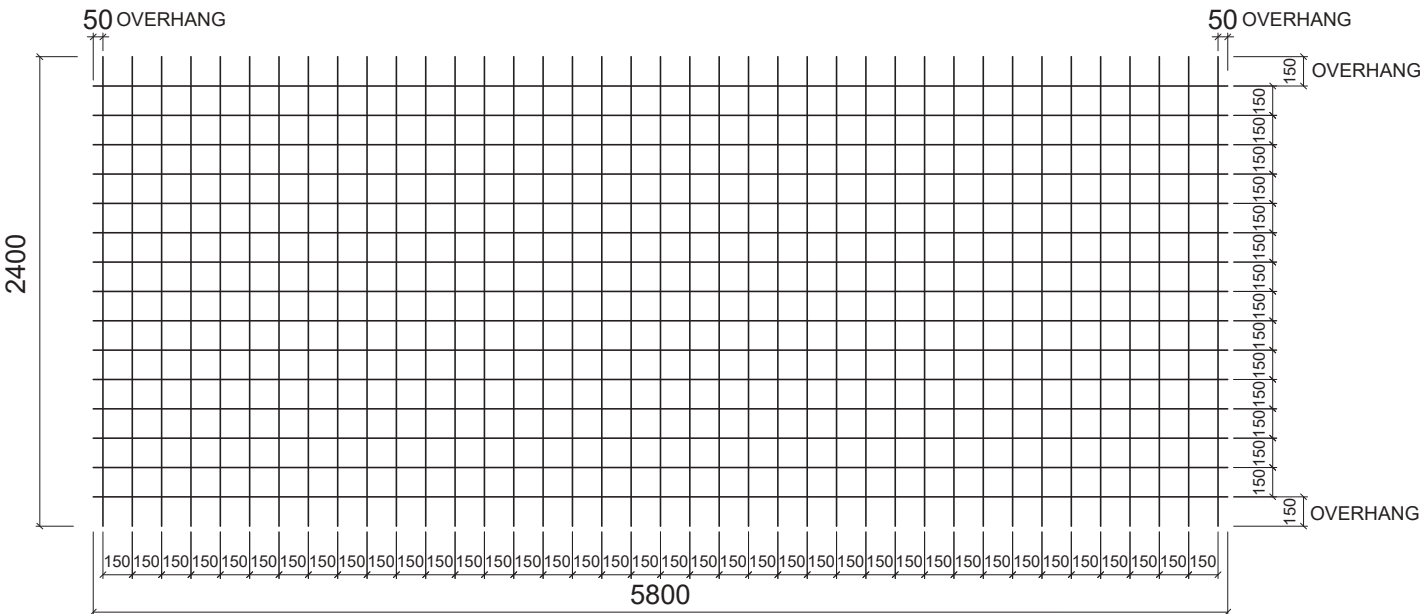


LAPPING ON SIDES



Mesh Sketch (Not to Scale)

39 VERTICAL MEMBERS - 5.3mm @ 150mm SPACING & 50mm OVERHANG
15 HORIZONTAL MEMBERS - 5.3mm @ 150mm SPACING & 150mm OVERHANG



Hard Drawn Reinforcing Mesh
Mesh Specification

668L

Product Description: 5.8m x 2.4m - 150 x 150 Grid D4.0 Line Wire, D4.0 Cross Wire

	Wire Dia. (mm)	Spacing (mm)	Length (mm)	No. of wires	Overhangs (mm)		mm ² /m	Wire kg/m	Weight kg/m
Longitudinal Wire	4.0 R	150	5800	15	125	125	83.8	0.0986	8.59
Cross Wire	4.0 R	150	2400	38	150	150	83.8	0.0986	9.00

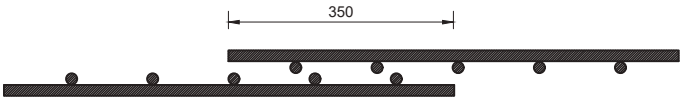
GROSS SHEET WEIGHT (Kg) : 17.59
MASS PER SQ METER (Kg/m²) : 1.315

Gross Sheet Area (m ²)	13.92
Net Cover (m ²)	11.88
Ratio Stack & Turned (Y/N)	Y
No. of Sheets / Bundle	50
Estimated Cubic (m ³)	3.00
Bundle weight (tonnes)	0.88

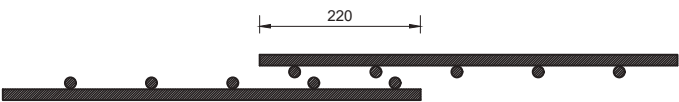
Mechanical Properties

Wire Diameter	Yield Strength	
	Min	Max
>5.0mm	485MPa	
≥5.0mm	485MPa	750MPa

LAPPING ON ENDS

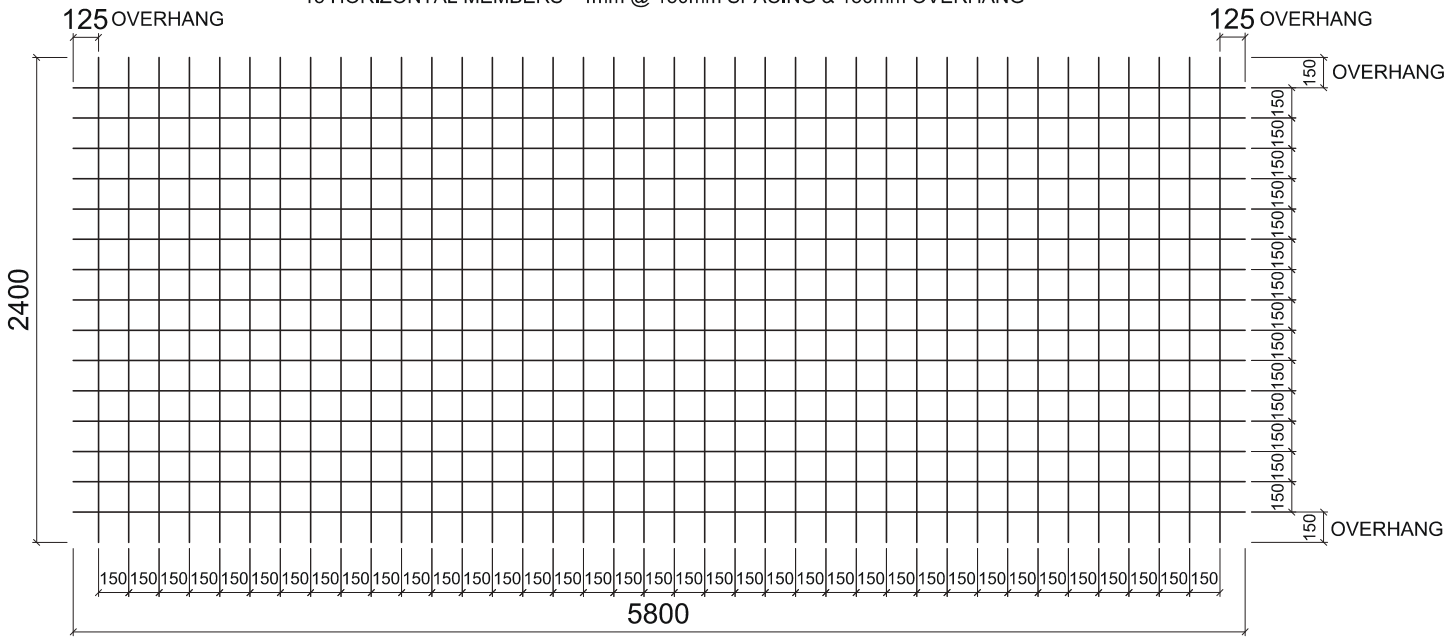


LAPPING ON SIDES



Mesh Sketch (Not to Scale)

38 VERTICAL MEMBERS - 4mm @ 150mm SPACING & 125mm OVERHANG
15 HORIZONTAL MEMBERS - 4mm @ 150mm SPACING & 150mm OVERHANG



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