



Rebar Reinforcement Mesh Catalog

Technical Parameter

Rebar Reinforcement Mesh



Rebar Steel Standard in Different Countries

Product Name	Mark	Specification £ MM	Executive standard
Deformed Steel Bar	HRB400/HRB500	8-40	GB 1449.2-2007
Seismic Resistance Deformed Steel Bar	HRB400E/HRB500E	8-40	GB 1449.2-2007
English Standard Deformed Steel Bar	B460A/B500B/B500C	8-40	BS4449-1997/BS4449-2005
Korean Standard Deformed Steel Bar	SD400/SD500/SD600	8-40	KS D3504-2016
Australian Standard Deformed Steel Bar	500E/500N	8-40	AN/NZS4671:2001
Brazil Standard Deformed Steel Bar	CA500	8-40	ABNT NBR 7480
Malaysia Standard Deformed Steel Bar	B500B0	8-40	MS 146-2014
Costa Rica Standard Deformed Steel Bar	GR40/GR60S/GR60W	8-40	ASTMA615/A615M-2016 ASTMA706/706M-2016
American Standard Deformed Steel Bar	GR40/GR60S/GR60W	8-40	ASTMA615/A615M-2016 ASTMA706/706M-2016



Chemical Composition & Mechanical Properties of Rebar

Country	Standard	Quality	Chemical Analysis(Max)%							Mechanical properties%		
			C	Mn	Si	P	S	N	Ceq	Yield Strength Mpa	Tensile Strength Mpa	Elongation % Agt
UK	BS4449	GR250	0.25			0.06	0.06	0.012	0.42	250	295	22
	BS4482	GR460A	0.25			0.05	0.05	0.012	0.51	460	485	12
	BS4449	GR460B	0.25			0.05	0.05	0.012	0.5	460	500	15
US	ASTM	GR40			0.06	0.06				280	420	12
	ASTM/04a	GR60			0.06	0.05				420	620	9
	ASTMM/04a	GR75								520	690	7
China	GB 1499.2-2007	HRB335	0.25	1.6	0.8	0.045	0.045		0.52	335	455	17
		HRB400	0.25	1.6	0.8	0.045	0.045		0.54	400	540	17
		HRB500	0.25	1.6	0.8	0.045	0.045		0.55	500	630	16
Japan	JIS	SD295A				0.05	0.05			>=295	440-600	17
	G3112	SD345	0.27	1.5	0.55	0.04	0.04		0.55	295-390	>=440	17
		SD345	0.27	1.6	0.55	0.04	0.04		0.55	390-510	>=490	19
		SD390	0.29	1.8	0.55	0.04	0.04		0.6	490-625	560	17
		SD490	0.32	1.8	0.55	0.04	0.04			280	>=620	13
EU	EN1992	B500A	0.24			0.05	0.055	0.012	0.5	500	525	2.5
		B500B	0.24			0.055	0.055	0.012	0.5	500	540	5.0
		B500C	0.24			0.055	0.055	0.012	0.5	500	575	7.5
Australian	ASRS	B500E	0.22			0.05	0.05		0.44	500-600	500	
		B500N	0.22			0.05	0.05		0.49	500-650	500	

Specification Form

Rebar Reinforcement Mesh



China Standard Reinforcement Mesh

Ref No.	Longitudinal Wires (mm)			Cross Wires (mm)			Weight (kg/m ²)
	Nominal	Pitch	linear meter Area (mm ² /m)	Nominal diameter	Pitch	linear meter Area (mm ² /m)	
	(mm)	(mm)		(mm)	(mm)		
A12	12	200	566	12	200	566	8.88
A11	11		475	11		475	7.46
A10	10		393	10		393	6.61
A9	9		318	9		318	4.99
A8	8		252	8		252	3.95
A7	7		193	7		193	3.02
A6	6		142	6		142	2.22
A5	5		98	5		98	1.54
B12	12		100	1131		8	200
B11	11	950		8	252	9.43	
B10	10	785		8	252	8.14	
B9	9	635		8	252	6.97	
B8	8	503		8	252	5.93	
B7	7	385		7	193	4.53	
B6	6	283		7	193	3.73	
B5	5	196		7	193	3.05	
C12	12	150		754	12	200	
C11	11		634	11	475		8.7
C10	10		523	10	393		7.19
C9	9		423	9	318		5.82
C8	8		335	8	252		4.61
C7	7		257	7	193		3.53
C6	6		189	6	142		2.6
C5	5		131	5	98		1.8
D12	12		100	1131	12		100
D11	11	950		11	950	14.92	
D10	10	785		10	785	12.33	
D9	9	635		9	635	9.98	
D8	8	503		8	503	7.9	
D7	7	385		7	385	6.04	
D6	6	283		6	283	4.44	
D5	5	196		5	196	3.08	
E12	12	150		754	12	150	
E11	11		634	11	634		9.95
E10	10		523	10	523		8.22
E9	9		423	9	423		6.66
E8	8		335	8	335		5.26
E7	7		257	7	257		4.03
E6	6		189	6	189		2.96
E5	5		131	5	131		2.05



Specification Form

Rebar Reinforcement Mesh



GERMAN STANDARD DIN488 (SIZE:2150mmX5000mm)

Ref No.	Std Unit	Longitudinal	Cross Wires(m m)	Pitch of	Mass(Kg)	Mass(Kg/ m ²)
		Wires(mm)		wire(mm)		
Q131	Sheet	5	5	150 x 150	22.476	2.091
Q188	Sheet	6	6	150 x 150	32.401	3.014
Q221	Sheet	6.5/5.0	6.5	150 x 150	33.707	3.136
Q295	Sheet	7.5/5.5	7.5	150 x 150	44.245	4.116
Q378	Sheet	8.5/6	8.5	150 x 150	66.659	5.157

BRITISH STANDARD BS4483

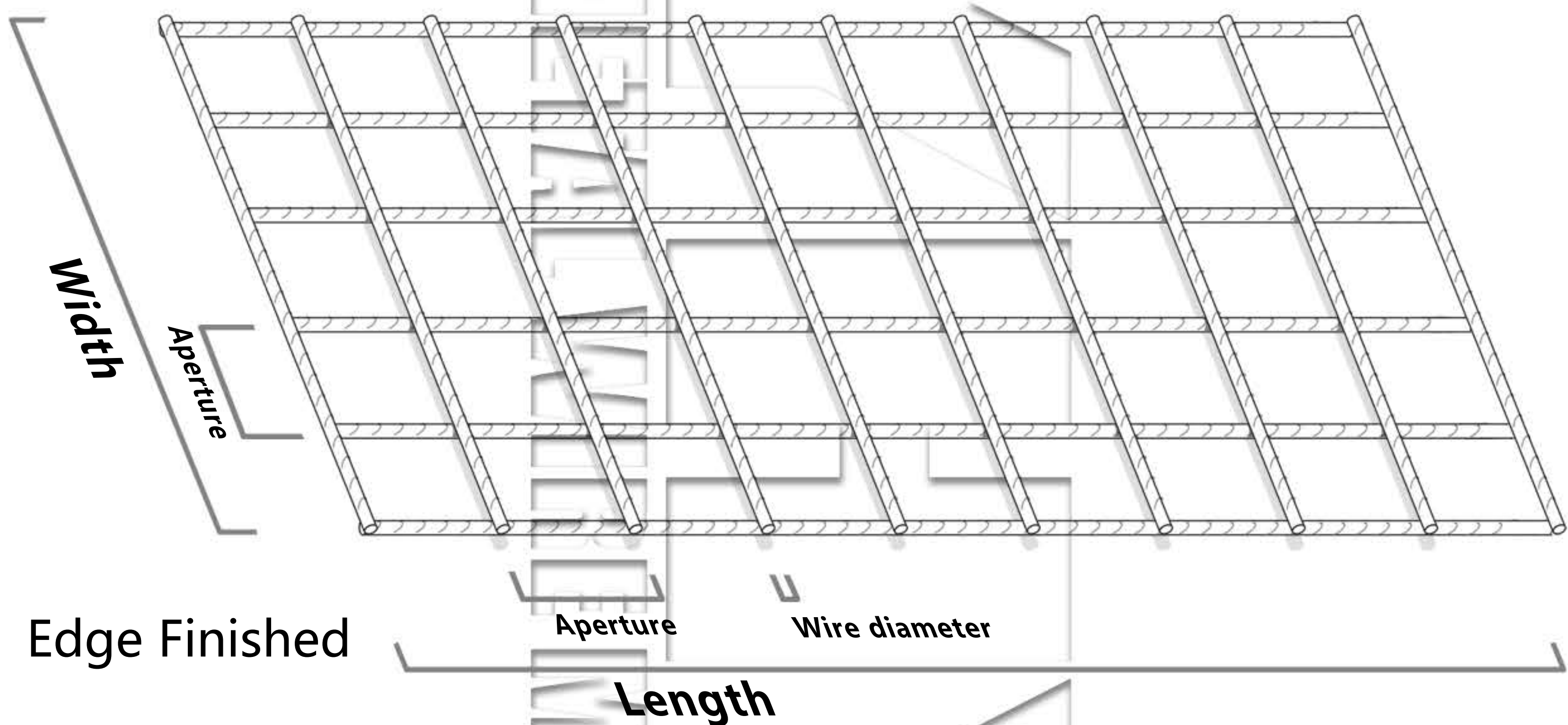
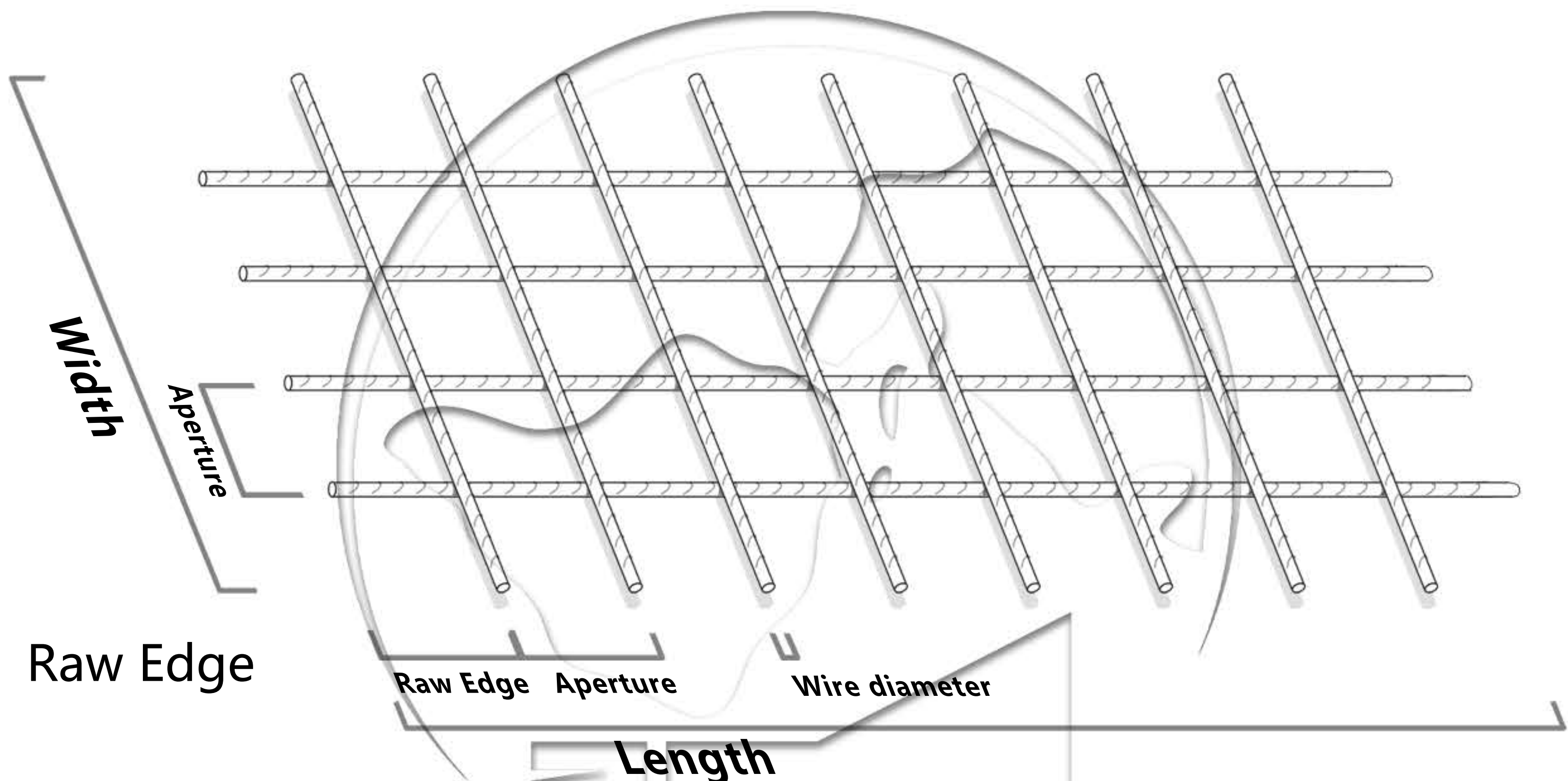
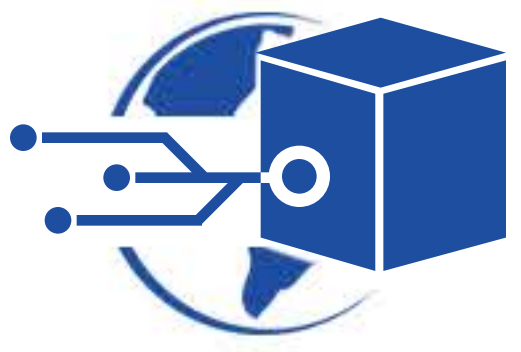
Ref No.	Std Unit	Longitudinal	Cross Wires(m m)	Pitch of	No. of she et per ton	Mass(Kg/ m ²)
		Wires(mm)		wire(mm)		
A393	Sheet	10	10	200 x 200	15	6.16
A252	Sheet	8	8	200 x 200	22	3.95
A193	Sheet	7	7	200 x 200	29	3.02
A142	Sheet	6	6	200 x 200	40	2.22
A98	Sheet	5	5	200 x 200	57	1.54

Australia/New Zealand Standard AS/NZS 4671:2001(SIZE:6000X2400mm)

Ref No.	Std Unit	Longitudinal	Edge Wires(m m)	Cross Wires(mm)	Mass(Kg)
		Wires(mm)			
SL81 (F81)	Sheet	7.6 @ 100	7.60 @ 100	7.60 @ 100	105
SL102 (F102)	Sheet	9.5 @ 200	6.75 @ 100	9.50 @ 200	80
SL92 (F92)	Sheet	8.6 @ 200	6 @ 100	8.60 @ 200	66
SL82 (F82)	Sheet	7.6 @ 200	5.37 @ 100	7.60 @ 200	52
SL72 (F72)	Sheet	6.75 @ 200	4.77 @ 100	6.75 @ 200	41
SL62 (F62)	Sheet	6 @ 200	4.77 @ 100	6 @ 200	33
SL52 (F52)	Sheet	4.77 @ 200	4.77 @ 100	4.77 @ 200	21

Analysis Diagram

Rebar Reinforcement Mesh



Types of steel reinforcing mesh

1. Square opening steel reinforced mesh: This mesh has stainless wires that runs vertically and horizontally supporting each other while forming small squares.
2. Rectangular steel reinforced mesh: This mesh has stainless wires that runs vertically and horizontally supporting each other while forming smaller rectangular shapes.
3. Welded steel reinforced mesh for building vertical walls.
4. Customized types, also known as special steel reinforced mesh.

We have you sorted

We have put a full line of high quality stainless steel welded mesh up for sale and for a quick delivery. For more information about our meshes, feel free to give us a call.

PRODUCTION PROCESS

Rebar Reinforcement Mesh



Raw Material

YHY Factory produces reinforcement mesh for 10 years. Now we have worked with the Large and famous steel company in China , they can offer the HRB500 , B500B , 500E,GR60W etc differce steel rebar standard .

Rebar Reinforcement Mesh

There are 4 Germany-Made Heavy Welding Machine and 10 sets of China Made Full-Automatic Machine.



Warehouse and Container loading

Our factory has 5000 Square meter warehouse . It can keeps 1000 ton finished mesh sheets . And there are 6 professional forklift and expereiced driver, we can loading 5 containers at one day .



Production Capacity

Now we have 30 trained workers and 5 Technical staff,Our daily production capacity is 20000 Square meter.

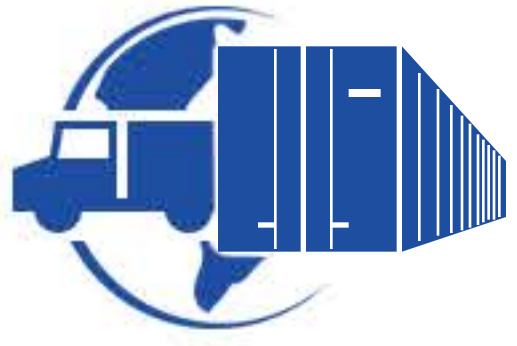


Package & Inspection

After the first piece of the mesh finished our technical and quality control department will checking the dimension Make sure the welding aperture and the wire diameter correct. There is test report for each package and shipment.

Loading & Packing

Rebar Reinforcement Mesh



Exported to France



Exported to Brazil



Exported to UAE



Exported to Australia



Exported to Australia



Exported to Australia



Exported to New Zealand

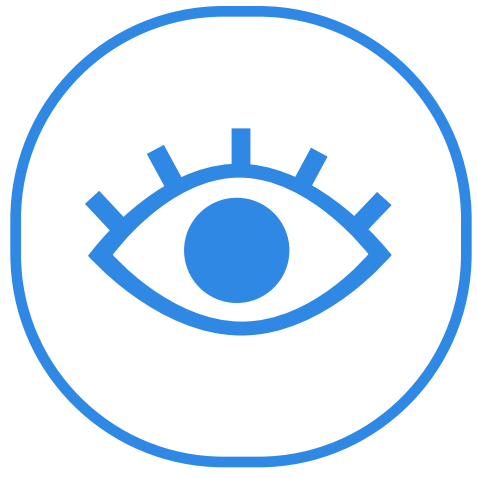


Exported to US



QUALITY CONTROL

Rebar Reinforcement Mesh



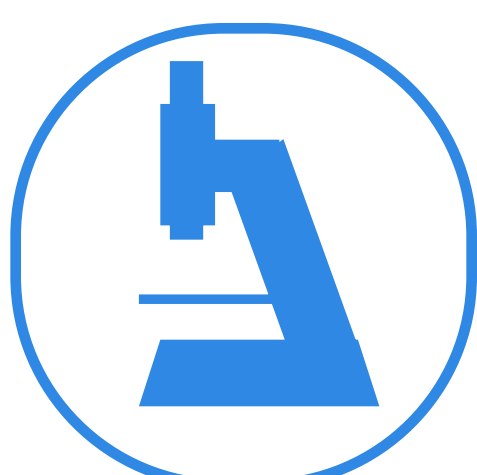
Appearance analysis of steel bars: The weight per unit length of the steel bars and the size (width, depth, and spacing) of the steel bars must meet the requirements.

Tensile tensile strain test: Tensile test, including the strength of the steel bar (the maximum tensile force that can be withstood), the strain analysis (the extension length produced when the steel bar is pulled), and the failure point analysis (the maximum tensile force of the broken steel bar).

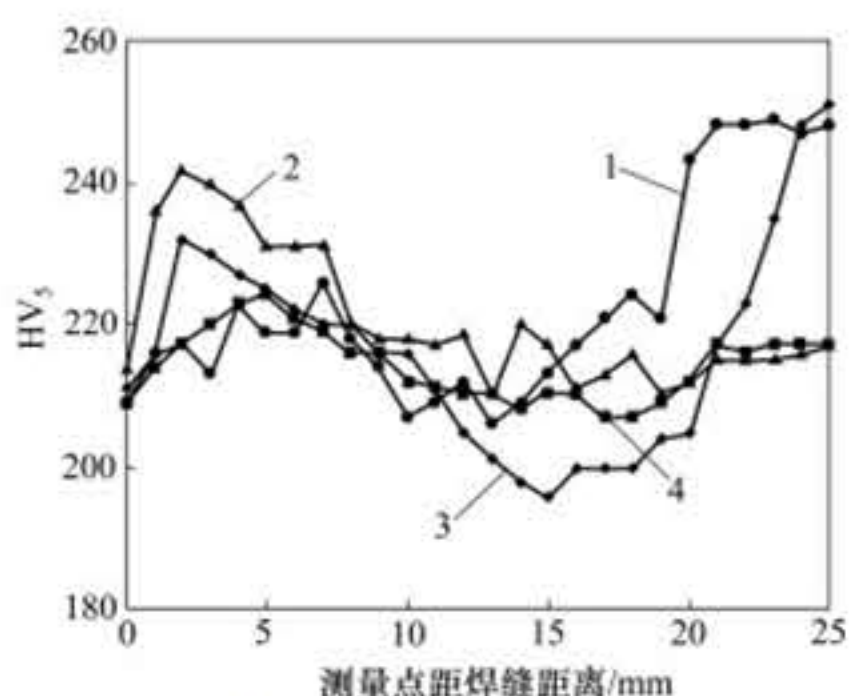


Steel bar bending test: Steel bars must be bent into different shapes for construction, and the steel bars are bent 180 degrees by the instrument to observe the cracks or broken surfaces at the bends.

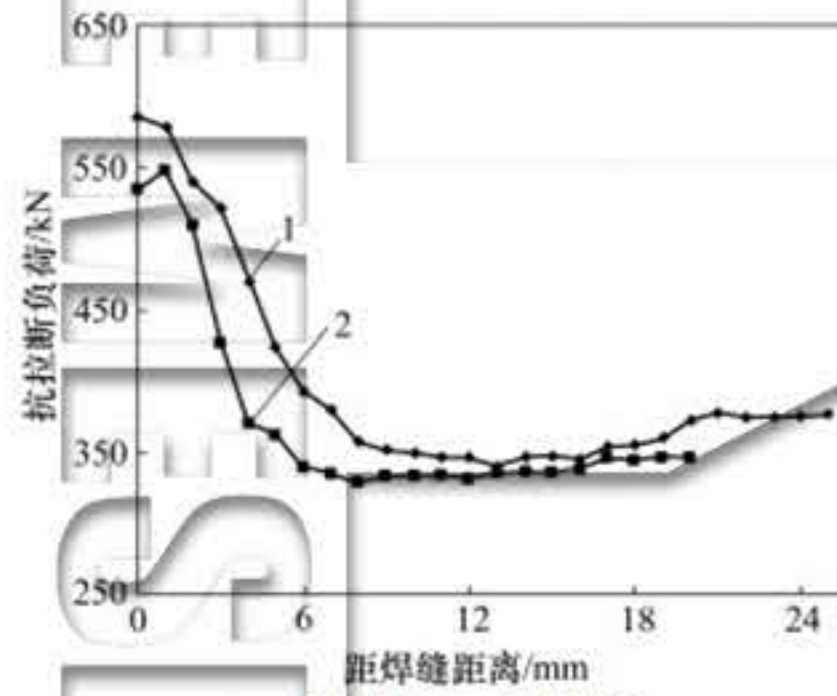
Data analysis: Finally, all the data should be analyzed and reported to complete all the test work.



Wire welding break force test
As the rebar reinforcement mesh used to be construction for bridge, building, road. The welding break force must be strength enough. we deliver our welded mesh samples to SGS, BV, Intertek's laboratory for test the breaking forces.



1—1号试样表层; 2—1号试样 1/4 半径处;
3—4号试样表层; 4—4号试样 1/4 半径处
HRB500E 高强度钢筋焊接接头 HV₅ 分布曲线
Distribution curve of hardness HV₅ for welded joints of HRB500E high-strength steel bars

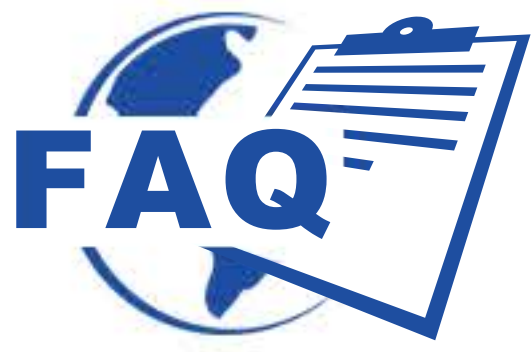


1—4号试样; 2—1号试样
HRB500E 钢筋焊接接头抗拉断负荷与
距焊缝距离变化曲线
Change curve between tensile breaking load and
distance which is away from welding seam for welded joints
of HRB500E high-strength steel bars



Frequently Asked Questions

Rebar Reinforcement Mesh



Q: Can the raw materials of the welded steel mesh be made of foreign standards?

A: Yes, but some of the wire diameters have MOQ. We need to check with our steel raw material supplier.

Q: Is the rod of the reinforcement mesh only threaded?

A: Threaded and Without Threaded.

Q: What is the maximum size of the exported reinforcement mesh?

A: Maximum width: 2400mm, maximum Length 6000mm.

Q: What does the SL stand for?

A: S= Square, L = Low ductility

Q: Why is it deformed not smooth?

A: It gives the bar a better bonding with the concrete & gives it a greater surface area for the concrete to bond to.

Q: What is China Standard Rebar wire? What is the Tension Strength?

A: China Standard Rebar mostly common it is : HRB 400 , HRB500.
Please check our technical data sheet for more details of the tensile strength .

Q: What should I pay attention to when purchasing steel mesh?

A: Steel mesh specifications must be paid attention to when purchasing, because the specifications are not detailed, the business can not quote, production will also cause the price gap is too large. Such as: steel bar diameter 10mm mesh 100*100mm size 1 * 2m weight 13.5kg, such data is more accurate data;