

Reinforcing Steel Mesh

Reinforcing mesh is a welded wire fabric, prefabricated steel reinforcement material. It has a rectangular or square grid pattern and is produced in flat sheets. The fabric is used to provide tensile strength and crack control to structural concrete elements.

Welded mesh reinforcing is a convenient and cost effective alternative to conventional bar reinforcement for the following reasons :

a.The mesh is generally specified and manufactured according to standard references making for easy site identification, quality control and management.

b.The mesh is manufactured in sheets or rolls resulting in a quick and simple site installation process.

Although generally used in surface beds (concrete floor slabs on fill) and concrete roads, mesh can also be used in suspended floor slabs, concrete walls, culverts / drains and composite brick / concrete retaining walls.

Werson is one of the few manufacturers of welded mesh in China, which has a full ISO 9001 : 2000 quality rating. The manufacture process is as follows:

a.Mittal Steel supply werson with medium-low carbon mild steel rod

b.The mild steel rod is cold rolled by werson to the required diameter to form high tensile wire

c.The high tensile wires are welded into a rectangular mesh grid fabric.



Standard Mesh References

STANDARD SIZES (4,800mm X 2,400mm)											
	Mesh size [1]	Mesh size [1]	Wire sizes	Wire sizes	Area[2]	Area[2]	Weight [3]	Sheets Per Ton [4]	Sheet weight (kg)	Sheets per bundle	Square metres per tonne
BS Reference	Main	Cross	Main	Cross	Main	Cross	(Kg)				
Square											
A 393	200mm	200mm	10mm	10mm	393mm ²	393mm ²	6.16	14	70.96	18	162.34
A 252	200mm	200mm	8mm	8mm	252mm ²	252mm ²	3.95	22	45.50	28	253.16
A 193	200mm	200mm	7mm	7mm	193mm ²	193mm ²	3.02	29	34.79	34	331.13
A 142	200mm	200mm	6mm	6mm	142mm ²	142mm ²	2.22	40	25.57	46	450.45
A 98	200mm	200mm	5mm	5mm	98mm ²	98mm ²	1.54	57	17.74	60	649.35
Structural											
B 1131	100mm	200mm	12mm	8mm	1131mm ²	252mm ²	10.90	8	125.57	10	91.74
B 785	100mm	200mm	10mm	8mm	785mm ²	252mm ²	8.14	11	93.57	14	122.85
B 503	100mm	200mm	8mm	8mm	503mm ²	252mm ²	5.93	15	68.31	18	168.63
B 385	100mm	200mm	7mm	7mm	385mm ²	193mm ²	4.53	20	52.19	24	220.75
B 283	100mm	200mm	6mm	7mm	283mm ²	193mm ²	3.73	24	42.97	30	268.10
B 196	100mm	200mm	5mm	7mm	196mm ²	193mm ²	3.05	29	35.14	36	327.87
Long											
C 785	100mm	400mm	10mm	6mm	785mm ²	70.8mm ²	6.72	13	77.41	16	148.81
C 636	100mm	400mm	9mm	6mm	636mm ²	70.8mm ²	5.55	16	63.94	20	180.18
C 503	100mm	400mm	8mm	5mm	503mm ²	49.0mm ²	4.34	20	50.00	26	230.41
C 385	100mm	400mm	7mm	5mm	385mm ²	49.0mm ²	3.41	26	39.28	30	293.26
C 283	100mm	400mm	6mm	5mm	283mm ²	49.0mm ²	2.61	34	30.07	32	383.14
Wrapping											
D 98	200mm	200mm	5.0mm	5.0mm	98mm ²	98.0mm ²	1.54	57	17.74	60	649.35
D49	100mm	100mm	2.5mm	2.5mm	49mm ²	49.0mm ²	0.77	113	8.87	50	1298.70

MERCHANT SIZES (3,600mm X 2,000mm)											
	Mesh size [1]	Mesh size [1]	Wire sizes	Wire sizes	Area[2]	Area[2]	Weight [3]	Sheets Per Ton [4]	Sheet weight (kg)	Sheets per bundle	Square metres per tonne
BS Reference	Main	Cross	Main	Cross	Main	Cross	(Kg)				
Square											
A 393	200mm	200mm	10mm	10mm	393mm ²	393mm ²	6.16	24	44.35	18	162.34
A 252	200mm	200mm	8mm	8mm	252mm ²	252mm ²	3.95	35	28.44	28	253.16
A 193	200mm	200mm	7mm	7mm	193mm ²	193mm ²	3.02	46	21.74	34	331.13
A 142	200mm	200mm	6mm	6mm	142mm ²	142mm ²	2.22	63	16.00	46	450.45
B 785	100mm	200mm	10mm	8mm	785mm ²	252mm ²	8.14	17	58.61	14	122.85

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