STEEL

WIRE MESH

Wire Mesh

a) Chemical Composition, Tensile and Bend Requirements

i) Steel Bars for Concrete Reinforcement

Specification	Grade	Chemical Composition				Tensile And Bend Test Requirements			
		C% Max	S% Max	P% Max	CE% Max	Yield Strength N/mm² (min.)	Tensile Strength N/mm² (min.)	Min. Elongation (Gauge Length L)	Bend Test
MS 146:2000 (Hot Rolled Steel Bars) (Ref: BS 4449:97)	Grade 250 (Mild Steel Bars)	0.25	0.06	0.06	0.42	250	Actual Yield Stress x 1.05	22%	For all sizes 2d former
	Grade 460 (High Yield Steel Bars)	0.25	0.05	0.05	0.51	460		12%	Bend Angle (3d) = 180° Rebend (5d) = 1st bend 45° Rebend 23°

ii) Cold Reduced Mild Steel Wire for Reinforcement of Concrete

Specification	Chemical Composition					Tensile And Bend Test Requirements		
	C.E. % Max	C% Max	P% Max	S% Max	Yield Strength N/mm2 (min.)	Tensile Strength N/mm2 (min.)	Alternatively Min. Elongation	Rebend Test
MS 144 : 87 (Ref: BS 4482 : 85)	0.42	0.25	0.06	0.06	485	Actual Yield Stress x 1.05	12%	Bend Angle 45° 5d former. Rebend 23°

b) Dimension and Unit Mass

i) Imperial Size Fabric

Ref. No.	B.S REF. 1221A	Wire Spacing		Wire Size		Sectional Area of Wires / unit width in²/ft (mm²/m)	lb / sq. yd (kg/m²)
		Main (in.)	Cross (in.)	Main S.W.G (mm)	Cross S.W.G (mm)		
61	121	6	6	1 (7.62)	1	0.1414 (299)	8.65 (4.70)
62	122	6	6	2 (7.01)	2	0.1197 (253)	7.32 (3.97)
63	123	6	6	3 (6.40)	3	0.0998 (211)	6.10 (3.31)
64	124	6	6	4 (5.89)	4	0.0845 (179)	5.17 (2.81)
65	125	6	6	5 (5.38)	5	0.0706 (149)	4.32 (2.35)
66	126	6	6	6 (4.89)	6	0.0579 (123)	3.54 (1.92)
610	130	6	6	10 (3.25)	10	0.0257 (54)	1.58 (0.86)

ii) Dimension and Technical Specification with Packing

REF . NO.	BS 4483 OR MS 145 REF. NO.	Main Wires		Cross Wire		Steel Area		Mass Per Unit Area (kg /M²)	Mass Per Std Sheet 8m x 2.2m	Standard Packing (Sheet)
		Diameter (mm)	Spacing (mm)	Diameter (mm)	Spacing (mm)	Main (mm²/m)	Cross (mm²/m)			
Square Mesh										
A4	A63	4	200	4	200	63	63	0.99	13.07	100
A5	A98	5	200	5	200	98	98	1.54	20.33	50
A6	A142	6	200	6	200	142	142	2.22	29.30	50
A7	A193	7	200	7	200	193	193	3.02	39.86	40
A8	A252	8	200	8	200	252	252	3.95	52.14	30
A9	A318	9	200	9	200	318	318	4.99	65.87	20
A10	A393	10	200	10	200	393	393	6.16	81.31	20
A12	A565	12	200	12	200	565	565	8.88	117.20	15
Rectangular Mesh										
B5	B196	5	100	7	200	196	193	3.05	40.26	40
B6	B283	6	100	7	200	283	193	3.73	49.24	30
B7	B385	7	100	7	200	385	193	4.53	59.80	25
B8	B503	8	100	8	200	503	252	5.93	78.28	20
B9	B636	9	100	8	200	636	252	6.97	92.00	15
B10	B785	10	100	8	200	785	252	8.14	107.45	15
B12	B1131	12	100	8	200	1131	252	10.90	143.88	10
Long Rectangular Mesh										
C5	C 196	5	100	5	400	196	49	1.93	25.48	50
C6	C 283	6	100	5	400	283	49	2.61	34.45	40
C7	C 385	7	100	5	400	385	49	3.41	45.01	30
C8	C503	8	100	5	400	503	49	4.34	57.29	25
C9	C 636	9	100	6	400	636	71	5.55	73.26	20
C10	C 785	10	100	6	400	785	71	6.72	88.70	15
Small Square Mesh										
DA4	DA 126	4	100	4	100	126	126	1.97	26.00	50
DA5	DA 196	5	100	5	100	196	196	3.08	40.66	40
DA6	DA 283	6	100	6	100	283	283	4.44	58.61	25
DA7	DA 385	7	100	7	100	385	385	6.04	79.73	20
DA8	DA 503	8	100	8	100	503	503	7.90	104.28	15
DA9	DA 636	9	100	9	100	636	636	9.98	131.74	10
DA10	DA 785	10	100	10	100	785	785	12.32	162.62	10