Welded Mesh

Standards

Standards	Yield strength (N/mm²)(MPa)	Weld Shear Load (N/mm²)
SS 560:2016 Steel for the reinforcement of concrete • Weldable reinforcing steel • Bar, coil and decoiled product	500 - 650	NA
SS 561:2010 Steel fabric for the reinforcement of concrete	500 - 650	125
MS 146 : 2014 Steel for the reinforcement of concrete • Weldable reinforcing steel • Bar, coil and decoiled product	500	NA
MS 145 : 2014 Steel fabric for the reinforcement of concrete	500	125
AS/NZS 4671:2001 Steel reinforcing materials	500	250

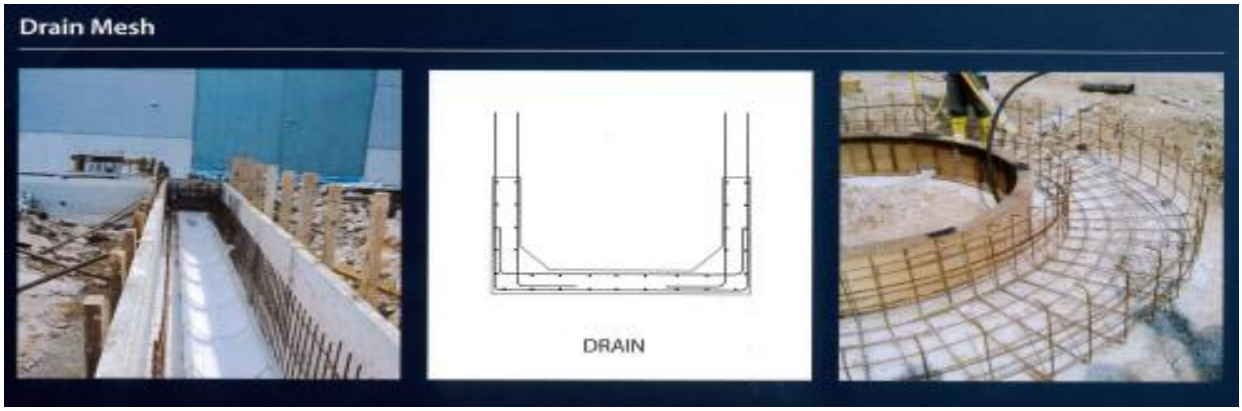
Standard Mesh

Standard Metric Fabric

SS 561	SS 32	Main Wire (mm)		Cross Wire (mm)		Cross-sectional area (mm²/m)		Unit Area (kg/m²)
		Size	Spacing	Size	Spacing	Main	Cross	
SQUARE MESHES								
WA13	A13	13	200	13	200	664	664	10.42
WA12	A12	12	200	12	200	566	566	8.88
WA11	A11	11	200	11	200	475	475	7.46
WA10	A10	10	200	10	200	393	393	6.16
WA9	A9	9	200	9	200	318	318	4.99
WA8	A8	8	200	8	200	251	251	3.95
-	A7	7	200	7	200	193	193	3.02
-	A6	6	200	6	200	142	142	2.22
WD13	D13	13	100	13	100	1327	1327	20.84
WD12	D12	12	100	12	100	1131	1131	17.76
WD11	D11	11	100	11	100	950	950	14.92
WD10	D10	10	100	10	100	785	785	12.32
WD9	D9	9	100	9	100	636	636	9.98
WD8	D8	8	100	8	100	503	503	7.90
-	D7	7	100	7	100	385	385	6.04
-	D6	6	100	6	100	283	283	4.44

RECTANGULAR MESHES								
WB13	B13	13	100	10	200	1328	393	13.50
WB12	B12	12	100	8	200	1131	251	10.90
WB11	B11	11	100	8	200	950	251	9.43
WB10	B10	10	100	8	200	785	251	8.14
WB9	B9	9	100	8	200	636	251	6.97
WB8	B8	8	100	8	200	503	251	5.93
-	B7	7	100	7	200	385	193	4.53
-	B6	6	100	7	200	283	193	3.73
SQUARE FABRIC - E SERIES								
WE13	E13	13	150	13	150	885	885	13.89
WE12	E12	12	150	12	150	754	754	11.84
WE11	E11	11	150	11	150	633	633	9.95
WE10	E10	10	150	10	150	524	524	8.23
WE9	E9	9	150	9	150	424	424	6.67
WE8	E8	8	150	8	150	335	335	5.27

Other Mesh Type



High Strength Reinforcement Bars

Reinforcement Bars Sizes

Steel mass for various reinforcement bar sizes

	Mild steel round bar				Deformed Bars									
Diameter (mm)	6	8	10	13	10	13	16	20	22	25	28	32	40	50
Mass (kg/mm)	0.222	0.395	0.617	1.042	0.617	1.042	1.579	2.466	2.984	3.854	4.834	6.313	9.864	15.413
Length (m)	6	6	12	12	12	12	12	12	12	12	12	12	12	12
Weight / bundle (mt)*	1.002	1.005	2.006	2.013	2.029	2.026	2.046	2.071	2.005	2.127	2.088	2.121	2.131	2.035

*Specifications may vary

Reinforcement Bars Grades

Grade 500

Specifications	Grade	Yield min (N/mm^2)	Tensile min (N/mm^2)	Ratio (min)	Cal. method	Elong 5D (min %)	Agt (min %)	Bend (size : mm)	Rebend (size : mm)
SS2: 1999	**500**	500	550	1.05	Nominal	14	2.5	6/8/10:~3D 12:~4D 16&20:5D 25/32/40:~6D (160° to 180°)	6/8/10:~5D 12:~5D 20&25:8D 32/40:10D (90° - 30min - 20°)
SS 560: 2010	**B500B**	500	Y*1.08	1.08	Nominal		5	≤16mm : 3D >16mm : 6D	≤16mm : 4D >16mm : 7D
BS 4449: 2005 +A2: 2009	**B500B**	500	Y*1.08	1.08	Nominal		5		<16mm : 4D >16mm : 7D (90° - 1hr - 20°)
AS/NZS 4671 : 2001	**500N**	500 - 650	Y*1.08	1.08	Nominal		5	all sizes : 4D (<16 bend 90° >20 bend 180°)	<16mm : 4D >20mm : N.A. (90° - 1hr - straight)
	500E	500 - 600	Y*(1.15-1.40)	1.15-1.40	Nominal		10	same as 500N	same as 500N
	500L	500 - 750	Y*1.03	1.03	Nominal		1.5	same as 500N	same as 500N

Others

Specifications	Grade	Yield min (N/mm^2)	Tensile min (N/mm^2)	Ratio (min)	Cal. method	Elong 5D (min %)	Agt (min %)	Bend (size : mm)	Rebend (size : mm)
SS2: 1999	**300**	300	330	1.10	Nominal	16		6/8/10:~2D 12:~2.5D 16&20:3D (160° to 180°)	
BS 4449: 1997	**460**	460	Y*1.08	1.08	Effective	14	5 (not for non-conformity)	6/8/10:~3D 16:~6D 16&20:5D 25/32/40:~6D (160° to 180°)	<16mm : 5D >16mm : 7D (45° - 30min - 23°)
	250	250	Y*1.15	1.15	Effective	22			all sizes : 2D (45° - 30min - 23°)
AS/NZS 4671 : 2001	**250N**	250	Y*1.08	1.08	Nominal		5	same as 500N	same as 500N
	300E	300 - 380	Y*(1.15-1.50)	1.15-1.50	Nominal		15	same as 500N	same as 500N