

Table 2

Fabric Reference	Main Wire			Cross Wire			Mass (kg/m ²)
	Normal Wire Size (mm)	Normal Pitch (mm)	Steel Area (mm ² /m)	Normal Wire Size (mm)	Normal Pitch (mm)	Steel Area (mm ² /m)	
Square Mesh							
A13	13	200	664	13	200	664	10.42
A12	12	200	565	12	200	565	8.88
A11	11	200	475	11	200	475	7.46
A10	10	200	393	10	200	393	6.16
A9	9	200	318	9	200	318	4.99
A8	8	200	252	8	200	252	3.95
A7	7	200	193	7	200	193	3.02
A6	6	200	142	6	200	142	2.22
A5	5	200	98	5	200	98	1.54
A4 ^a	4	200	63	4	200	63	0.99
Rectangular Mesh							
B13	13	100	1328	8	200	252	12.40
B12	12	100	1131	8	200	252	10.86
B11	11	100	950	8	200	252	9.44
B10	10	100	785	8	200	252	8.14
B9	9	100	636	8	200	252	6.97
B8	8	100	503	8	200	252	5.93
B7	7	100	385	7	200	193	4.53
B6	6	100	283	7	200	193	3.73
B5	5	100	196	7	200	193	3.05
Long Mesh							
C13	13	100	1328	8	400	126	11.41
C12	12	100	1131	8	400	126	9.87
C11	11	100	950	8	400	126	8.44
C10	10	100	785	6	400	71	6.72
C9	9	100	636	6	400	71	5.55
C8	8	100	503	5	400	49	4.34
C7	7	100	385	5	400	49	3.41
C6	6	100	283	5	400	49	2.61
C5	5	100	196	5	400	49	1.93
Small Square Mesh							
D13	13	100	1328	13	100	1328	20.85
D12	12	100	1131	12	100	1131	17.76
D11	11	100	950	11	100	950	14.92
D10	10	100	785	10	100	785	12.32
D9	9	100	636	9	100	636	9.98
D8	8	100	503	8	100	503	7.90
D7	7	100	385	7	100	385	6.04
D6	6	100	283	6	100	283	4.44
D5	5	100	196	5	100	196	3.08
D4 ^a	4	100	126	4	100	126	1.97

^a Generally use as an anti-crack reinforcement

Steel Bar / Wire Cross-Sectional Area

Dia. (mm)	Cross Sectional (mm ²)	Cross Sectional Area in mm ² /m at Spacing (mm)									
		75	100	125	150	175	200	225	250	275	300
25	490.9	6546	4909	3928	3273	2805	2455	2182	1964	1785	1636
20	314.2	4189	3142	2514	2095	1795	1571	1396	1257	1143	1047
16	201.1	2681	2011	1609	1341	1149	1005	894	804	731	670
13	132.7	1770	1328	1062	885	759	664	590	531	483	442
12	113.1	1508	1131	905	754	646	565	503	452	411	377
11	95.0	1267	950	760	634	543	475	422	380	346	317
10	78.6	1047	785	628	524	449	393	349	314	286	262
9	63.6	848	636	509	424	364	318	283	255	231	212
8	50.3	670	503	402	335	287	252	223	201	183	168
7	38.5	513	385	308	257	220	193	171	154	140	128
6	28.3	377	283	226	189	162	142	126	113	103	94
5	19.6	262	196	157	131	112	98	87	79	71	65
4	12.6	168	126	101	84	72	63	56	50	46	42

Product Introduction

This property is important to ensure sufficient mechanical anchorage to develop the tensile stress in the wire when the fabric is embedded in the concrete. The weld shear strength plays a very important role, especially where lapping of the fabric is necessary.

SSM Fabric which conforms to SIRIM and ISO 9001 quality requirement, bears the quality and high standard to meet all the structural design criteria required of them. To maintain the consistent quality, regular tests are being carried out in our equipped factory laboratory.



■ Cut-to-size SSM Fabrics

Under the British Standard (BS), the properties of mild steel bars and deformed high yield bars are stated in Table 1 below :

Table 1

Description	Nominal Sizes (mm)	Specified Characteristic Yield Strength Of Reinforcement (N/mm ²)
Hot-Rolled Mild Steel Bars (BS 4449)	All Sizes	250
Hot-Rolled High Yield Bars (BS 4449)	All Sizes	460
Cold-Worked High Yield Bars (BS 4461)	Up To And Including 16 Over 16	460 425
Hard Drawn Or Cold Rolled Steel Wire (BS 4482)	Up To And Including 12	500

2.2 Standard and Special fabric References

The standard **SSM Fabric** comes in both the Metric as well as the Imperial form. The term 'standard fabric reference' refers to the specific spacing and diameter of wires as shown in (Table 2). From this table, it should be noted that the alphabet A, B, C, and D denotes the main and cross wire spacings while the digits after the alphabet denote the main wire diameter.