



Construction Mesh

Imperial Designation	Metric Designation	Steel Area in ² / lin ft mm ² / lin m ²	Weight lbs/100sq ft ² kg/ m ²	Standard Size mesh sheets, roll*	Standard Size mesh sheets, roll*
6 x 6 - 10/10 W1.4 / W1.4	152 x 152 - MW 9.1 / MW 9.1	.029 60.6	20 .98	7' x 20' 7'6" x 20'	5' x 100', 5' x 150' 7' x 200', 7'6" x 200'
6 x 6 - 8/8 W2.1 / W2.1	152 x 152 - MW 13.3 / MW 13.3	.041 87.3	30 1.47	7'6" x 20'	5' x 200' 7'6" x 200'
6 x 6 - 6/6 W2.9 / W2.9	152 x 152 - MW 18.7 / MW 18.7	.058 122.6	41 1.99	7'6" x 20'	5' x 200', 6' x 200' 7'6" x 200'
6 x 6 - 4/4 W4.0 / W4.0	152 x 152 - MW 25.7 / MW 25.7	.080 168.3	56 2.73	7'6" x 20'	
6 x 6 - 2/2 W5.4 / W5.4	152 x 152 - MW 34.9 / MW 34.9	.108 229.1	76 3.72	7'6" x 20' 8' x 20'	
6 x 6 - 0/0 W7.4 / W7.4	152 x 152 - MW 47.6 / MW 47.6	.148 312.3	104 5.07	7'6" x 20'	
4 x 4 - 10/10 W1.4 / W1.4	102 x 102 - MW 9.1 / MW 9.1	.043 91.0	30 1.46	7' x 20'	
4 x 4 - 8/8 W2.1 / W2.1	102 x 102 - MW 13.3 / MW 13.3	.062 131.2	43 2.11	7' x 20'	
4 x 4 - 6/6 W2.9 / W2.9	102 x 102 - MW 18.7 / MW 18.7	.087 183.9	61 2.96	7' x 20'	7' x 20'
4 x 4 - 4/4 W4.0 / W4.0	102 x 102 - MW 25.7 / MW 25.7	.119 252.5	83 4.06	7' x 20'	
12 x 12 - 6/6 W2.9 / W2.9	305 x 305 - MW 18.7 / MW 18.7	.029 61.4	20 .98	8' x 20'	
12 x 12 - 2/2 W5.4 / W5.4	305 x 305 - MW 34.9 / MW 34.9	.054 114.3	37 1.80	8' x 20'	
12 x 12 - W8 / W8	305 x 305 - MW 51.6 / MW 51.6	.080 169.2	54 2.65	8' x 20'	
Roll = 6' x 200' • 6' x 100'					

WIRE MESH SPECIFICATIONS

1. Specifications Covering WWR

Canadian Standards	U.S. Specifications	Title
CSA G30.3	ASTM A 82	Steel Wire, Plain, for Concrete Reinforcement
CSA G30.5	ASTM A 185	Welded Steel Wire Fabric, Plain, for Concrete Reinforcement
CSA G30.14	ASTM A 496	Deformed Steel Wire for Concrete Reinforcement
CSA G30.15	ASTM A 497	Welded Deformed Steel Wire Fabric for Concrete Reinforcement

2. Industry method of designation style

example: 4 x 6 D8/ W4.....Imperial

(cross wires)	wire spacing	wire size
	┌	┌
	102 x 152	MD 51.6 / MW 25.8.....Metric
(long wire)	wire spacing	wire size
	└	└

PRODUCTS

Construction Mesh	Sheets and rolls, bright or galvanized
Pipe mesh rolls	2" C/C or 3" C/C wire spacing 3' to 11'6" W Up to D14 (10.7 mm) wire
Structural mesh sheets	Variable Spacing 4' to 10' W x 8' to 40' L in sheets Up to D20 (12.8 mm) wire and Curved & Straight shear ladders with 2 or 3 principal wires 4" to 31" W x 19'8" L D2 to D20 (4mm to 12.8mm) wire
Cage machine wire	W2.5 to W8 (4.5 mm to 8.1 mm) D2.5 to D16 (4.5 mm to 11.5 mm) 3500 lb strapped coils Straight & cut lengths
Mine mesh	In sheets and rolls, <i>flush cut</i> all four sides Bright or galvanized

Welded Wire Reinforcement

IMPERIAL UNITS

METRIC UNITS

AREA in² PER LINEAR FOOT / AREA - mm² PER LINEAR METRE

WIRE SIZE*	NOMINAL DIAM.	NOMINAL AREA	NOMINAL MASS	CENTRE TO CENTRE SPACING (in)						
	Inches mm	in ² mm ²	Lb/ Ft Kg/ m	2 in 51mm	3 in 76mm	4 in 102mm	6 in 152mm	8 in 203mm	10 in 254mm	12 in 305mm
W20	0.505	0.200	0.680	1.20	0.80	0.60	0.40	0.30	0.24	0.20
MW129	12.83	129	1.01	2540	1693	1270	847	635	508	423
W18	0.479	0.180	0.612	1.08	0.72	0.54	0.36	0.27	0.216	0.18
MW116	12.17	116	0.911	2286	1524	1143	762	572	457	381
W16	0.451	0.160	0.544	0.96	0.64	0.48	0.32	0.24	0.192	0.16
MW103	11.46	103	0.809	2032	1355	1016	677	508	406	339
W15.5	0.445	0.156	0.528	0.93	0.62	0.465	0.31	0.233	0.186	0.155
MW100	11.3 (10M)	100	0.785	1960	1316	980	658	490	394	328
W14	0.422	0.140	0.476	0.84	0.56	0.42	0.28	0.21	0.168	0.14
MW90.3	10.72	90	0.708	1778	1185	889	593	445	356	296
W12	0.391	0.120	0.408	0.72	0.48	0.36	0.24	0.18	0.144	0.12
MW77.4	9.93	77	0.607	1524	1016	762	508	381	305	254
W11	0.374	0.110	0.374	0.66	0.44	0.33	0.22	0.165	0.132	0.11
MW71.0	9.5	71	0.556	1397	931	699	466	349	279	233
W10.5	0.366	0.105	0.357	0.63	0.42	0.315	0.21	0.157	0.126	0.105
MW67.9	9.3	68	0.531	1334	889	667	445	332	267	222
W10	0.357	0.100	0.340	0.60	0.40	0.30	0.20	0.15	0.12	0.10
MW64.5	9.07	65	0.506	1270	847	635	423	318	254	212
W9.5	0.348	0.095	0.323	0.57	0.38	0.285	0.19	0.142	0.114	0.095
MW61.3	8.84	61	0.481	1207	804	603	402	301	241	201
W9	0.338	0.090	0.306	0.54	0.36	0.27	0.18	0.135	0.108	0.09
MW58.1	8.59	58	0.456	1143	762	572	381	286	229	191
W8.5	0.329	0.085	0.289	0.51	0.34	0.255	0.17	0.127	0.102	0.085
MW54.9	8.36	55	0.43	1080	720	540	360	269	216	180
W8	0.319	0.080	0.272	0.48	0.32	0.24	0.16	0.12	0.096	0.08
MW51.6	8.1	52	0.405	1016	677	508	339	254	203	169
W7.5	0.309	0.075	0.255	0.45	0.30	0.225	0.15	0.112	0.09	0.075
MW48.4	7.85	48	0.379	953	635	476	318	237	191	159
W7	0.299	0.070	0.238	0.42	0.28	0.21	0.14	0.105	0.084	0.07
MW45.2	7.6	45	0.354	889	593	445	296	222	178	148
W6.5	0.288	0.065	0.221	0.39	0.26	0.195	0.13	0.097	0.078	0.065
MW42.1	7.32	42	0.329	826	550	413	275	205	165	138
W6	0.276	0.060	0.204	0.36	0.24	0.18	0.12	0.09	0.072	0.06
MW38.7	7.01	39	0.304	762	508	381	254	191	152	127
W5.5	0.265	0.055	0.187	0.33	0.22	0.165	0.11	0.082	0.066	0.055
MW35.5	6.73	36	0.278	699	466	349	233	174	140	116
W5	0.252	0.050	0.170	0.30	0.20	0.15	0.10	0.075	0.06	0.05
MW32.3	6.4	32	0.253	635	423	318	212	159	127	106
W4.5	0.239	0.045	0.153	0.27	0.18	0.135	0.09	0.067	0.054	0.045
MW28.9	6.07	29	0.228	572	381	286	191	142	114	95.3
W4 (4ga)	0.226	0.040	0.136	0.24	0.16	0.12	0.08	0.06	0.048	0.04
MW25.8	5.74	26	0.202	508	339	254	169	127	102	84.7
W3.5	0.211	0.035	0.119	0.21	0.14	0.105	0.07	0.052	0.042	0.035
MW22.6	5.36	23	0.177	445	296	222	148	110	88.9	74.1
W3	0.195	0.030	0.102	0.18	0.12	0.09	0.06	0.045	0.036	0.03
MW19.2	4.95	19	0.152	381	254	191	127	95.3	76.2	63.5
W2.9(6ga)	0.192	0.029	0.098	0.174	0.116	0.087	0.058	0.043	0.035	0.029
MW18.7	4.88	19	0.147	368	245	184	123	91	74.1	61.4
W2.5 (7ga)	0.178	0.025	0.085	0.15	0.10	0.075	0.05	0.037	0.03	0.025
MW16.0	4.52	16	0.126	317	212	159	106	78.3	63.5	52.9
W2.1 (8ga)	0.162	0.021	0.070	0.124	0.082	0.062	0.041	0.031	0.025	0.021
MW13.3	4.1	13	0.104	261	175	130	88	65.6	52.4	43.6
W1.7 (9ga)	0.148	0.017	0.059	0.104	0.069	0.052	0.035	0.026	0.021	0.017
MW11.1	3.8	11	0.073	220	146	110	74.1	55	44.5	36

*Wire size: Imperial wire sizes are designated by their sectional area in hundredths of a square inch. Ex. . For W8, Area = 0.08 in²
Metric wire sizes are designated by their sectional area in mm² Ex. For MW51.6, Area =51.6mm²

<W> denotes smooth wire ex.: W18
<D> denotes deformed wire ex.: D18
<M> denotes metric ex.: MW18 or MD18

Minimum Mechanical Properties for WWR

Type of WWR	Minimum Tensile Strength	Minimum Yield Strength FY	Minimum Weld Shear Strength
Smooth Wire Mesh	515 Mpa (75000 psi)	450 Mpa (65000 psi)	240 Mpa (35000 psi)
Deformed Wire Mesh	550 Mpa (75000 psi)	450 Mpa (65000 psi)	240 Mpa (35000 psi)

Conversion Factors:

1in = 25.4mm
1ft =0.3048m
1in² = 645.2mm²
1in²/ft = 2116.7mm²m
1lb/100ft² = 0.0488kg/m²

1lb=0.4536kg
1000psi=6.895Mpa
(Diam. In)² x 2.673=weight lbs/ft.
A=0.7854 d²
(Area inches)² x 3.4=weight lbs/ft.