



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		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
102 x 152	wire size

MD 51.6 / MW 25.8.....Metric

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) CENTRE TO CENTRE SPACING (mm)							
				2 in 51mm	3 in 76mm	4 in 102mm	6 in 152mm	8 in 203mm	10 in 254mm	12 in 305mm	
	Inches mm	in ² mm ²	Lb/ Ft Kg/m								
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	158	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	85	
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	1lb=0.4536kg
1ft = 0.3048m	1000psi=6.895Mpa
1in ² = 645.2mm ²	(Diam. In) ² x 2.673=weight lbs/ft.
1in ² /ft = 2116.7mm ² m ⁻²	A=0.7854 d ²
1lb/100ft ² = 0.0488kg/m ²	(Area inches) ² x 3.4=weight lbs/ft.