

# ENGINEERED WELDED WIRE REINFORCEMENT (EWWR) DESIGN TABLES

STEEL GRADE FROM 485 MPA TO 550 MPA

**IMPERIAL SPACING / P.4**

**METRIC SPACING / P.12**

**NUMESH IS MUCH MORE  
THAN WIRE MESH!**

- FAST DELIVERY
- CUSTOM MADE PRODUCTS
- TECHNICAL SUPPORT

# CRITERIA FOR DESIGNING CONCRETE PRODUCTS WITH ENGINEERED WELDED WIRE REINFORCEMENT (EWWR)

- If 10M, 15M, 20M rebar content : evaluate your design in 485MPa, 515 MPa , 500 MPa or 550 MPa vs 400MPa to reduce steel content to an equivalent resistance.
- Design the welded wire reinforcement having steel sections with a “common denominator”; then add bars if needed in some areas.
- Walls, Slabs, Beams, Columns: square or rectangular shapes wire mesh.
- Repetition of same WWR model and few tons per model
- The most popular wire sizes for the design of WWR are: D3, D4, D4.5, D5, D7, D8, D9, D10, D11, D12, D14, D15.5, D16, D18, D20 and D31
- Design in WWR with a maximum of 4 different diameters, as suggested in the table of equivalences below:

## TABLE OF EQUIVALENCES OF 10M AND 15M REBAR FOR FABRICATION OF WELDED WIRE REINFORCEMENT (wwr), IN D8, D11, D15.5 AND D31.

Custom-made structural welded mesh with variable spacing in both directions using cold-drawn wire:

Weight indicated is for one direction only. To obtain total wire mesh weight, add weight of transverse bars to weight of longitudinal bars.	Diameter of each wire mm and in.	Wire Area sq. mm and sq. in.	Spacing of Bars (inches and mm)										
			2"	3"	4"	5"	6"	7"	8"	9"	10"	11"	12"
			50.8	76.2	101.6	127.0	152.4	177.8	203.2	228.6	254.0	279.4	304.8
Area (mm <sup>2</sup> /lin. m) Weight (kg/m <sup>2</sup> )	<b>D8</b> (8.1 mm)	51.6 mm <sup>2</sup>	1016	677	508	406	339	290	254	226	203	185	169
7.96			5.31	3.98	3.18	2.65	2.27	1.99	1.77	1.59	1.45	1.33	
Area (in <sup>2</sup> /lin. ft.) Weight (lb/100 ft <sup>2</sup> )	5.1/16 in.	0.08 in. <sup>2</sup>	0.480	0.320	0.240	0.192	0.160	0.137	0.120	0.107	0.096	0.087	0.080
163			109	81.6	65.3	54.4	46.6	40.8	36.3	32.6	29.7	27.2	
Area (mm <sup>2</sup> /lin. m) Weight (kg/m <sup>2</sup> )	<b>D11</b> (9.5 mm)	70.9 mm <sup>2</sup>	1397	931	699	559	466	399	349	310	279	254	233
10.94			7.30	5.47	4.38	3.65	3.13	2.74	2.43	2.19	1.99	1.82	
Area (in <sup>2</sup> /lin. ft.) Weight (lb/100 ft <sup>2</sup> )	3/8 in.	0.11 in. <sup>2</sup>	0.660	0.440	0.330	0.264	0.220	0.189	0.165	0.147	0.132	0.120	0.110
224			150	112	89.8	74.8	64.1	56.1	49.9	44.9	40.8	37.4	
Area (mm <sup>2</sup> /lin. m) Weight (kg/m <sup>2</sup> )	<b>D15.5</b> (10M or 11.3 mm)	100 mm <sup>2</sup>	1969	1312	984	787	656	562	492	437	394	358	328
15.42			10.28	7.71	6.17	5.14	4.41	3.86	3.43	3.08	2.80	2.57	
Area (in <sup>2</sup> /lin. ft.) Weight (lb/100 ft <sup>2</sup> )	7/16 in.	0.16 in. <sup>2</sup>	0.930	0.620	0.465	0.372	0.310	0.266	0.233	0.207	0.186	0.169	0.155
316			211	158	126	105	90.3	79.1	70.3	63.2	57.5	52.7	
Area (mm <sup>2</sup> /lin. m) Weight (kg/m <sup>2</sup> )	<b>D31</b> (15M or 16.0 mm)	200 mm <sup>2</sup>	3937	2625	1969	1575	1312	1125	984	875	787	716	656
30.84			20.56	15.42	12.34	10.28	8.81	7.71	6.85	6.17	5.61	5.14	
Area (in <sup>2</sup> /lin. ft.) Weight (lb/100 ft <sup>2</sup> )	5/8 in.	0.31 in. <sup>2</sup>	3937	2625	1969	1575	1312	1125	984	875	787	716	656
30.84			20.56	15.42	12.34	10.28	8.81	7.71	6.85	6.17	5.61	5.14	

## CUSTOM-MADE MANUFACTURING CRITERIA OF WELDED WIRE REINFORCEMENT

- Longitudinal wires: spaced at 2" (50.8 mm) increment
- Transverse wires: variable spacing in metric or imperial
- Transverse wires: minimum spacing of 2" (50.8 mm)
- Sheets' width 10' x 39' length
- Sheets' weight up to 1000 lb
- Capacity: sheet welding, bending and curving is D31 @ 4" c/c
- Tight tolerances of spacing and dimensions
- Wire mesh can be bent or curved
- Galvanized wire mesh upon request
- Contact the supplier for standard wire sizes

## TABLE 1 - EQUIVALENT RESISTANCE / REBAR VS COLD-DRAWN DEFORMED WIRE

Use this table to replace rebar with cold-drawn wire offering equivalent resistance at designed  $F_y$ .

REBAR CSA G30.18				COLD-DRAWN DEFORMED WIRE - ASTM A1064							
Fy 400 Mpa 58,000 psi				Fy 485 Mpa 70,000 psi		Fy 500 Mpa 72,500 psi		Fy 515 Mpa 75,000 psi		Fy 550 Mpa 80,000 psi	
				Steel Reduction of: 18%		Steel Reduction of: 20%		Steel Reduction of: 22%		Steel Reduction of: 27%	
Designation	Diametre mm	Size D	Area mm <sup>2</sup>	Size D	Area min. mm <sup>2</sup>	Size D	Area min. mm <sup>2</sup>	Size D	Area min. mm <sup>2</sup>	Size D	Area min. mm <sup>2</sup>
10M	11.3	D15.5	100	D12.8	83	D12.4	80	D12.1	78	D11.3	73
15M	16.0	D31.0	200	D25.6	165	D24.8	160	D24.1	155	D22.6	146
20M	19.5	D46.5	300	2x D19.2	247	2x D18.6	240	2x D18.2	233	D33.8	218
25M	25.2	D77.5	500	2x D32	412	2x D31	400	2x D30.1	388	2xD28.2	364

## ENGINEERED MESH CONVERSION:

The higher steel grade of the cold-drawn deformed wire enables a reduction of the steel area for the same resistance as per table 1. Then follows a conversion of individual 10M, 15M, 20M, 25M rebar into a welded structural mesh.

Rebar  $F_y = 400$  MPa

Deformed wire  $F_y = 485$  MPa, available up to 550 MPa

**Example:** Area reduction when converting 400 MPa rebar steel area to deformed wire,  $F_y = 500$  MPa

For a saving of 20% of steel content, multiply by  $400/500 = 0.80$

### Minimum Mechanical Properties for WWR

Type of WWR	Minimum Yield Strength $F_y$	Minimum Tensile Strength $F_u$	Minimum Weld Shear Strength
Smooth Wire Mesh	450 MPa (65 000 psi)	515 MPa (75 000 psi)	241 x area* mm <sup>2</sup> = Newtons (35 000 x area* in. <sup>2</sup> = pounds-force)
Deformed Wire Mesh	485 MPa (70 000 psi)	550 MPa (80 000 psi)	241 x area* mm <sup>2</sup> = Newtons (35 000 x area* in. <sup>2</sup> = pounds-force)

\* Area of the larger wire. The other cross wire must have 40% x area of the larger wire: minimum D4. Otherwise, the average weld shear strength requirement is 800 pounds-force.

## WIRE SIZE:

Imperial wire sizes are designated by their sectional area in hundredths of a square inch.  
Ex.: for W8, Area = 0.08 in.<sup>2</sup>

Metric wire sizes are designated by their sectional area in mm<sup>2</sup>.

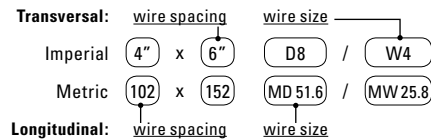
Ex.: for MW51.6, Area = 51.6 mm<sup>2</sup>

"W" denotes smooth wire ex.: W18

"D" denotes deformed wire ex.: D18

"M" denotes metric ex.: MW116.1 or MD116.1

## INDUSTRY METHOD OF DESIGNATION STYLE:

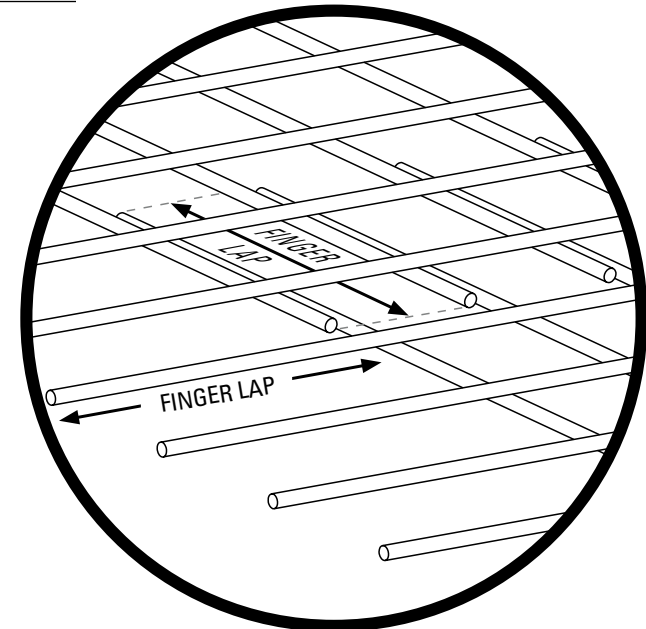


## REBAR SIZES:

	Canadian Sizes			Metric			Imperial					
	Area mm <sup>2</sup>	Weight kg/m	Diam. mm	Area in. <sup>2</sup>	Weight lb/ft	Diam. in.	Area mm <sup>2</sup>	Weight kg/m	Diam. mm	Area in. <sup>2</sup>	Weight lb/ft	Diam. in.
<b>10M:</b>	100	0.785	11.3	0.155	0.528	0.445						
<b>15M:</b>	200	1.570	16.0	0.310	1.055	0.630						
<b>20M:</b>	300	2.355	19.5	0.465	1.583	0.768						
<b>25M:</b>	500	3.925	25.2	0.775	2.638	0.992						
<b>30M:</b>	700	5.495	29.9	1.088	3.693	1.177						

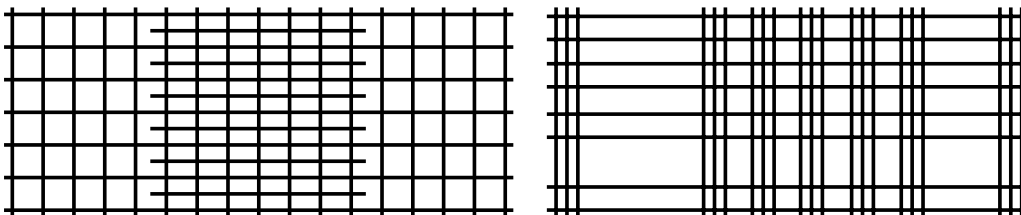
  

	U.S. Sizes			Metric			Imperial					
	Area mm <sup>2</sup>	Weight kg/m	Diam. mm	Area in. <sup>2</sup>	Weight lb/ft	Diam. in.	Area mm <sup>2</sup>	Weight kg/m	Diam. mm	Area in. <sup>2</sup>	Weight lb/ft	Diam. in.
<b>#3:</b>	71	0.560	9.5	0.110	0.376	0.375						
<b>#4:</b>	127	0.993	12.7	0.197	0.668	0.500						
<b>#5:</b>	198	1.551	15.9	0.307	1.042	0.625						
<b>#6:</b>	284	2.235	19.0	0.440	1.502	0.750						
<b>#7:</b>	387	3.042	22.2	0.600	2.044	0.875						
<b>#8:</b>	510	3.973	25.4	0.790	2.670	1.000						



FOR SLABS, THE USE OF "FINGER LAPS" FACILITATES COVER REQUIREMENTS AT THE FOUR CORNER OVERLAPS, MESH BEING IN THE SAME PLAN.

## STRUCTURAL WWR CONFIGURATIONS



All WWR meet or exceed the ASTM A1064

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WIRE SIZE						AREA																	
IMPERIAL UNITS						METRIC UNITS				mm <sup>2</sup> per linear metre													
DEFORMED WIRE (D)	SMOOTH WIRE (W)	DIAM. (in.)	AREA (in <sup>2</sup> )	EQUAL TO	WEIGHT (lb / lin. ft)	MW or MD	DIAM. (mm)	AREA (mm <sup>2</sup> )	WEIGHT (kg / lin. m)	SPACING – CENTER TO CENTER													
										50.8 2"	76.2 3"	101.6 4"	127.0 5"	152.4 6"	177.8 7"	203.2 8"	228.6 9"	254.0 10"	279.4 11"	304.8 12"			
D 25.7	W 25.7	0.572	0.257		0.874	165.81	14.53	165.8	1.300	3264	2176	1632	1306	1088	933	816	725	653	593	544			
D 25.6	W 25.6	0.571	0.256		0.870	165.16	14.50	165.2	1.294	3251	2167	1626	1300	1084	929	813	722	650	591	542			
D 25.5	W 25.5	0.570	0.255		0.867	164.52	14.47	164.5	1.289	3239	2159	1619	1295	1080	925	810	720	648	589	540			
D 25.4	W 25.4	0.569	0.254		0.864	163.87	14.44	163.9	1.284	3226	2151	1613	1290	1075	922	806	717	645	587	538			
D 25.3	W 25.3	0.568	0.253		0.860	163.23	14.42	163.2	1.279	3213	2142	1607	1285	1071	918	803	714	643	584	536			
D 25.2	W 25.2	0.566	0.252		0.857	162.58	14.39	162.6	1.274	3200	2134	1600	1280	1067	914	800	711	640	582	533			
D 25.1	W 25.1	0.565	0.251		0.853	161.94	14.36	161.9	1.269	3188	2125	1594	1275	1063	911	797	708	638	580	531			
▶ D 25	W 25	0.564	0.250		0.850	161.29	14.33	161.3	1.264	3175	2117	1588	1270	1058	907	794	706	635	577	529			
D 24.9	W 24.9	0.563	0.249		0.847	160.64	14.30	160.6	1.259	3162	2108	1581	1265	1054	904	791	703	632	575	527			
D 24.8	W 24.8	0.562	0.248		0.843	160.00	14.27	160.0	1.254	3150	2100	1575	1260	1050	900	787	700	630	573	525			
D 24.7	W 24.7	0.561	0.247		0.840	159.35	14.24	159.4	1.249	3137	2091	1568	1255	1046	896	784	697	627	570	523			
D 24.6	W 24.6	0.560	0.246		0.836	158.71	14.22	158.7	1.244	3124	2083	1562	1250	1041	893	781	694	625	568	521			
D 24.5	W 24.5	0.559	0.245		0.833	158.06	14.19	158.1	1.239	3112	2074	1556	1245	1037	889	778	691	622	566	519			
D 24.4	W 24.4	0.557	0.244		0.830	157.42	14.16	157.4	1.234	3099	2066	1549	1240	1033	885	775	689	620	563	516			
D 24.3	W 24.3	0.556	0.243		0.826	156.77	14.13	156.8	1.229	3086	2057	1543	1234	1029	882	772	686	617	561	514			
D 24.2	W 24.2	0.555	0.242		0.823	156.13	14.10	156.1	1.224	3073	2049	1537	1229	1024	878	768	683	615	559	512			
D 24.1	W 24.1	0.554	0.241		0.819	155.48	14.07	155.5	1.219	3061	2040	1530	1224	1020	874	765	680	612	556	510			
▶ D 24	W 24	0.553	0.240		0.816	154.84	14.04	154.8	1.214	3048	2032	1524	1219	1016	871	762	677	610	554	508			
D 23.9	W 23.9	0.552	0.239		0.813	154.19	14.01	154.2	1.209	3035	2024	1518	1214	1012	867	759	675	607	552	506			
D 23.8	W 23.8	0.550	0.238		0.809	153.55	13.98	153.5	1.203	3023	2015	1511	1209	1008	864	756	672	605	550	504			
D 23.7	W 23.7	0.549	0.237		0.806	152.90	13.95	152.9	1.198	3010	2007	1505	1204	1003	860	752	669	602	547	502			
D 23.6	W 23.6	0.548	0.236		0.802	152.26	13.92	152.3	1.193	2997	1998	1499	1199	999	856	749	666	599	545	500			
D 23.5	W 23.5	0.547	0.235		0.799	151.61	13.89	151.6	1.188	2985	1990	1492	1194	995	853	746	663	597	543	497			
D 23.4	W 23.4	0.546	0.234		0.796	150.97	13.86	151.0	1.183	2972	1981	1486	1189	991	849	743	660	594	540	495			
D 23.3	W 23.3	0.545	0.233		0.792	150.32	13.83	150.3	1.178	2959	1973	1480	1184	986	845	740	658	592	538	493			
D 23.2	W 23.2	0.543	0.232		0.789	149.68	13.80	149.7	1.173	2946	1964	1473	1179	982	842	737	655	589	536	491			
D 23.1	W 23.1	0.542	0.231		0.785	149.03	13.78	149.0	1.168	2934	1956	1467	1173	978	838	733	652	587	533	489			
▶ D 23	W 23	0.541	0.230		0.782	148.39	13.75	148.4	1.163	2921	1947	1461	1168	974	835	730	649	584	531	487			
D 22.9	W 22.9	0.540	0.229		0.779	147.74	13.72	147.7	1.158	2908	1939	1454	1163	969	831	727	646	582	529	485			
D 22.8	W 22.8	0.539	0.228		0.775	147.10	13.69	147.1	1.153	2896	1930	1448	1158	965	827	724	643	579	526	483			
D 22.7	W 22.7	0.538	0.227		0.772	146.45	13.66	146.5	1.148	2883	1922	1441	1153	961	824	721	641	577	524	480			
D 22.6	W 22.6	0.536	0.226		0.768	145.81	13.63	145.8	1.143	2870	1913	1435	1148	957	820	718	638	574	522	478			
D 22.5	W 22.5	0.535	0.225		0.765	145.16	13.60	145.2	1.138	2858	1905	1429	1143	953	816	714	635	572	520	476			
D 22.4	W 22.4	0.534	0.224		0.762	144.52	13.56	144.5	1.133	2845	1897	1422	1138	948	813	711	632	569	517	474			
D 22.3	W 22.3	0.533	0.223		0.758	143.87	13.53	143.9	1.128	2832	1888	1416	1133	944	809	708	629	566	515	472			
D 22.2	W 22.2	0.532	0.222		0.755	143.23	13.50	143.2	1.123	2819	1880	1410	1128	940	806	705	627	564	513	470			
D 22.1	W 22.1	0.530	0.221		0.751	142.58	13.47	142.6	1.117	2807	1871	1403	1123	936	802	702	624	561	510	468			
▶ D 22	W 22	0.529	0.220		0.748	141.94	13.44	141.9	1.112	2794	1863	1397	1118	931	798	699	621	559	508	466			
D 21.9	W 21.9	0.528	0.219		0.745	141.29	13.41	141.3	1.107	2781	1854	1391	1113	927	795	695	618	556	506	464			
D 21.8	W 21.8	0.527	0.218		0.741	140.64	13.38	140.6	1.102	2769	1846	1384	1107	923	791	692	615	554	503	461			
D 21.7	W 21.7	0.526	0.217		0.738	140.00	13.35	140.0	1.097	2756	1837	1378	1102	919	787	689	612	551	501	459			
D 21.6	W 21.6	0.524	0.216		0.734	139.35	13.32	139.4	1.092	2743	1829	1372	1097	914	784	686	610	549	499	457			
D 21.5	W 21.5	0.523	0.215		0.731	138.71	13.29	138.7	1.087	2731	1820	1365	1092	910	780	683	607	546	496	455			



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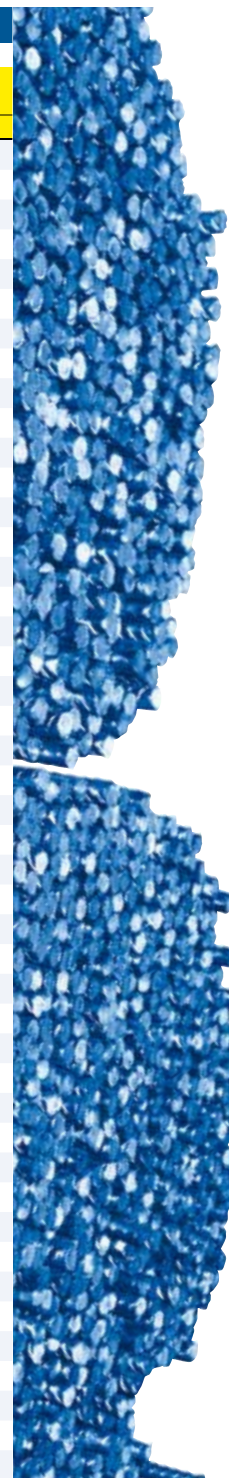








WIRE SIZE										AREA										
IMPERIAL UNITS					METRIC UNITS					mm <sup>2</sup> per linear metre										
DEFORMED WIRE (D)	SMOOTH WIRE (W)	DIAM. (in.)	AREA (in <sup>2</sup> )	EQUAL TO	WEIGHT (lb / lin. ft)	MW or MD	DIAM. (mm)	AREA (mm <sup>2</sup> )	WEIGHT (kg / lin. m)	SPACING – CENTER TO CENTER										
										50.8 2"	76.2 3"	101.6 4"	127.0 5"	152.4 6"	177.8 7"	203.2 8"	228.6 9"	254.0 10"	279.4 11"	304.8 12"
D 12.6	W 12.6	0.401	0.126		0.428	81.29	10.17	81.3	0.637	1600	1067	800	640	533	457	400	356	320	291	267
D 12.5	W 12.5	0.399	0.125		0.425	80.65	10.13	80.6	0.632	1588	1058	794	635	529	454	397	353	318	289	265
D 12.4	W 12.4	0.397	0.124		0.422	80.00	10.09	80.0	0.627	1575	1050	787	630	525	450	394	350	315	286	262
D 12.3	W 12.3	0.396	0.123		0.418	79.35	10.05	79.4	0.622	1562	1041	781	625	521	446	391	347	312	284	260
D 12.2	W 12.2	0.394	0.122	gauge 4/0	0.415	78.71	10.01	78.7	0.617	1549	1033	775	620	516	443	387	344	310	282	258
D 12.1	W 12.1	0.393	0.121		0.411	78.06	9.97	78.1	0.612	1537	1024	768	615	512	439	384	341	307	279	256
<b>D 12</b>	<b>W 12</b>	<b>0.391</b>	<b>0.120</b>		<b>0.408</b>	<b>77.42</b>	<b>9.93</b>	<b>77.4</b>	<b>0.607</b>	<b>1524</b>	<b>1016</b>	<b>762</b>	<b>610</b>	<b>508</b>	<b>435</b>	<b>381</b>	<b>339</b>	<b>305</b>	<b>277</b>	<b>254</b>
D 11.9	W 11.9	0.389	0.119		0.405	76.77	9.89	76.8	0.602	1511	1008	756	605	504	432	378	336	302	275	252
D 11.8	W 11.8	0.388	0.118		0.401	76.13	9.85	76.1	0.597	1499	999	749	599	500	428	375	333	300	272	250
D 11.7	W 11.7	0.386	0.117		0.398	75.48	9.80	75.5	0.592	1486	991	743	594	495	425	371	330	297	270	248
D 11.6	W 11.6	0.384	0.116		0.394	74.84	9.76	74.8	0.587	1473	982	737	589	491	421	368	327	295	268	246
D 11.5	W 11.5	0.383	0.115		0.391	74.19	9.72	74.2	0.582	1461	974	730	584	487	417	365	325	292	266	243
D 11.4	W 11.4	0.381	0.114		0.388	73.55	9.68	73.5	0.576	1448	965	724	579	483	414	362	322	290	263	241
D 11.3	W 11.3	0.379	0.113		0.384	72.90	9.63	72.9	0.571	1435	957	718	574	478	410	359	319	287	261	239
D 11.2	W 11.2	0.378	0.112		0.381	72.26	9.59	72.3	0.566	1422	948	711	569	474	406	356	316	284	259	237
D 11.1	W 11.1	0.376	0.111		0.377	71.61	9.55	71.6	0.561	1410	940	705	564	470	403	352	313	282	256	235
D 11.05	W 11.05	0.375	0.110	#3 rebar	0.376	71.26	9.53	71.3	0.558	1403	935	701	561	468	401	351	312	281	255	234
<b>D 11</b>	<b>W 11</b>	<b>0.374</b>	<b>0.110</b>		<b>0.374</b>	<b>70.97</b>	<b>9.51</b>	<b>71.0</b>	<b>0.556</b>	<b>1397</b>	<b>931</b>	<b>699</b>	<b>559</b>	<b>466</b>	<b>399</b>	<b>349</b>	<b>310</b>	<b>279</b>	<b>254</b>	<b>233</b>
D 10.9	W 10.9	0.373	0.109		0.371	70.32	9.46	70.3	0.551	1384	923	692	554	461	396	346	308	277	252	231
D 10.8	W 10.8	0.371	0.108		0.367	69.68	9.42	69.7	0.546	1372	914	686	549	457	392	343	305	274	249	229
D 10.7	W 10.7	0.369	0.107		0.364	69.03	9.38	69.0	0.541	1359	906	679	544	453	388	340	302	272	247	226
D 10.6	W 10.6	0.367	0.106		0.360	68.39	9.33	68.4	0.536	1346	897	673	538	449	385	337	299	269	245	224
D 10.5	W 10.5	0.366	0.105		0.357	67.74	9.29	67.7	0.531	1334	889	667	533	445	381	333	296	267	242	222
D 10.4	W 10.4	0.364	0.104		0.354	67.10	9.24	67.1	0.526	1321	881	660	528	440	377	330	294	264	240	220
D 10.3	W 10.3	0.362	0.103	gauge 3/0	0.350	66.45	9.20	66.5	0.521	1308	872	654	523	436	374	327	291	262	238	218
D 10.2	W 10.2	0.360	0.102		0.347	65.81	9.15	65.8	0.516	1295	864	648	518	432	370	324	288	259	236	216
D 10.1	W 10.1	0.359	0.101		0.343	65.16	9.11	65.2	0.511	1283	855	641	513	428	366	321	285	257	233	214
<b>D 10</b>	<b>W 10</b>	<b>0.357</b>	<b>0.100</b>		<b>0.340</b>	<b>64.52</b>	<b>9.06</b>	<b>64.5</b>	<b>0.506</b>	<b>1270</b>	<b>847</b>	<b>635</b>	<b>508</b>	<b>423</b>	<b>363</b>	<b>318</b>	<b>282</b>	<b>254</b>	<b>231</b>	<b>212</b>
D 9.9	W 9.9	0.355	0.099		0.337	63.87	9.02	63.9	0.501	1257	838	629	503	419	359	314	279	251	229	210
D 9.8	W 9.8	0.353	0.098		0.333	63.23	8.97	63.2	0.496	1245	830	622	498	415	356	311	277	249	226	207
D 9.7	W 9.7	0.351	0.097		0.330	62.58	8.93	62.6	0.490	1232	821	616	493	411	352	308	274	246	224	205
D 9.6	W 9.6	0.350	0.096		0.326	61.94	8.88	61.9	0.485	1219	813	610	488	406	348	305	271	244	222	203
D 9.5	W 9.5	0.348	0.095		0.323	61.29	8.83	61.3	0.480	1207	804	603	483	402	345	302	268	241	219	201
D 9.4	W 9.4	0.346	0.094		0.320	60.65	8.79	60.6	0.475	1194	796	597	478	398	341	298	265	239	217	199
D 9.3	W 9.3	0.344	0.093		0.316	60.00	8.74	60.0	0.470	1181	787	591	472	394	337	295	262	236	215	197
D 9.2	W 9.2	0.342	0.092		0.313	59.35	8.69	59.4	0.465	1168	779	584	467	389	334	292	260	234	212	195
D 9.1	W 9.1	0.340	0.091		0.309	58.71	8.65	58.7	0.460	1156	770	578	462	385	330	289	257	231	210	193
<b>D 9</b>	<b>W 9</b>	<b>0.339</b>	<b>0.090</b>		<b>0.306</b>	<b>58.06</b>	<b>8.60</b>	<b>58.1</b>	<b>0.455</b>	<b>1143</b>	<b>762</b>	<b>572</b>	<b>457</b>	<b>381</b>	<b>327</b>	<b>286</b>	<b>254</b>	<b>229</b>	<b>208</b>	<b>191</b>
D 8.9	W 8.9	0.337	0.089		0.303	57.42	8.55	57.4	0.450	1130	754	565	452	377	323	283	251	226	206	188
D 8.8	W 8.8	0.335	0.088		0.299	56.77	8.50	56.8	0.445	1118	745	559	447	373	319	279	248	224	203	186
D 8.7	W 8.7	0.333	0.087		0.296	56.13	8.45	56.1	0.440	1105	737	552	442	368	316	276	246	221	201	184
D 8.6	W 8.6	0.331	0.086	gauge 2/0	0.292	55.48	8.40	55.5	0.435	1092	728	546	437	364	312	273	243	218	199	182
D 8.5	W 8.5	0.329	0.085		0.289	54.84	8.36	54.8	0.430	1080	720	540	432	360	308	270	240	216	196	180
D 8.4	W 8.4	0.327	0.084		0.286	54.19	8.31	54.2	0.425	1067	711	533	427	356	305	267	237	213	194	178
D 8.3	W 8.3	0.325	0.083		0.282	53.55	8.26	53.5	0.420	1054	703	527	422	351	301	264	234	211	192	176



WIRE SIZE										AREA										
IMPERIAL UNITS					METRIC UNITS					mm² per linear metre										
DEFORMED WIRE (D)	SMOOTH WIRE (W)	DIAM. (in.)	AREA (in²)	EQUAL TO	WEIGHT (lb / lin. ft)	MW or MD	DIAM. (mm)	AREA (mm²)	WEIGHT (kg / lin. m)	SPACING – CENTER TO CENTER										
										50.8 2"	76.2 3"	101.6 4"	127.0 5"	152.4 6"	177.8 7"	203.2 8"	228.6 9"	254.0 10"	279.4 11"	304.8 12"
D 8.2	W 8.2	0.323	0.082		0.279	52.90	8.21	52.9	0.415	1041	694	521	417	347	298	260	231	208	189	174
D 8.1	W 8.1	0.321	0.081		0.275	52.26	8.16	52.3	0.410	1029	686	514	411	343	294	257	229	206	187	171
▶ D 8	W 8	<b>0.319</b>	<b>0.080</b>		<b>0.272</b>	<b>51.61</b>	<b>8.11</b>	<b>51.6</b>	<b>0.405</b>	<b>1016</b>	<b>677</b>	<b>508</b>	<b>406</b>	<b>339</b>	<b>290</b>	<b>254</b>	<b>226</b>	<b>203</b>	<b>185</b>	<b>169</b>
D 7.9	W 7.9	0.317	0.079		0.269	50.97	8.06	51.0	0.399	1003	669	502	401	334	287	251	223	201	182	167
D 7.8	W 7.8	0.315	0.078		0.265	50.32	8.00	50.3	0.394	991	660	495	396	330	283	248	220	198	180	165
D 7.7	W 7.7	0.313	0.077		0.262	49.68	7.95	49.7	0.389	978	652	489	391	326	279	244	217	196	178	163
D 7.6	W 7.6	0.311	0.076		0.258	49.03	7.90	49.0	0.384	965	643	483	386	322	276	241	214	193	175	161
D 7.5	W 7.5	0.309	0.075		0.255	48.39	7.85	48.4	0.379	953	635	476	381	318	272	238	212	191	173	159
D 7.4	W 7.4	0.307	0.074	gauge 0	0.252	47.74	7.80	47.7	0.374	940	627	470	376	313	269	235	209	188	171	157
D 7.3	W 7.3	0.305	0.073		0.248	47.10	7.74	47.1	0.369	927	618	464	371	309	265	232	206	185	169	155
D 7.2	W 7.2	0.303	0.072		0.245	46.45	7.69	46.5	0.364	914	610	457	366	305	261	229	203	183	166	152
D 7.1	W 7.1	0.301	0.071		0.241	45.81	7.64	45.8	0.359	902	601	451	361	301	258	225	200	180	164	150
▶ D 7	W 7	<b>0.299</b>	<b>0.070</b>		<b>0.238</b>	<b>45.16</b>	<b>7.58</b>	<b>45.2</b>	<b>0.354</b>	<b>889</b>	<b>593</b>	<b>445</b>	<b>356</b>	<b>296</b>	<b>254</b>	<b>222</b>	<b>198</b>	<b>178</b>	<b>162</b>	<b>148</b>
D 6.9	W 6.9	0.296	0.069		0.235	44.52	7.53	44.5	0.349	876	584	438	351	292	250	219	195	175	159	146
D 6.8	W 6.8	0.294	0.068		0.231	43.87	7.47	43.9	0.344	864	576	432	345	288	247	216	192	173	157	144
D 6.7	W 6.7	0.292	0.067		0.228	43.23	7.42	43.2	0.339	851	567	425	340	284	243	213	189	170	155	142
D 6.6	W 6.6	0.290	0.066		0.225	42.58	7.36	42.6	0.334	838	559	419	335	279	239	210	186	168	152	140
D 6.5	W 6.5	0.288	0.065		0.221	41.94	7.31	41.9	0.329	826	550	413	330	275	236	206	183	165	150	138
D 6.4	W 6.4	0.285	0.064		0.218	41.29	7.25	41.3	0.324	813	542	406	325	271	232	203	181	163	148	135
D 6.3	W 6.3	0.283	0.063	gauge 1	0.214	40.58	7.19	40.6	0.318	799	533	399	320	266	228	200	178	160	145	133
D 6.2	W 6.2	0.281	0.062		0.211	40.00	7.14	40.0	0.314	787	525	394	315	262	225	197	175	157	143	131
D 6.1	W 6.1	0.279	0.061		0.208	39.35	7.08	39.4	0.309	775	516	387	310	258	221	194	172	155	141	129
▶ D 6	W 6	<b>0.276</b>	<b>0.060</b>		<b>0.204</b>	<b>38.71</b>	<b>7.02</b>	<b>38.7</b>	<b>0.304</b>	<b>762</b>	<b>508</b>	<b>381</b>	<b>305</b>	<b>254</b>	<b>218</b>	<b>191</b>	<b>169</b>	<b>152</b>	<b>139</b>	<b>127</b>
D 5.9	W 5.9	0.274	0.059		0.201	38.06	6.96	38.1	0.299	749	500	375	300	250	214	187	167	150	136	125
D 5.8	W 5.8	0.272	0.058		0.197	37.42	6.90	37.4	0.294	737	491	368	295	246	210	184	164	147	134	123
D 5.7	W 5.7	0.269	0.057		0.194	36.77	6.84	36.8	0.289	724	483	362	290	241	207	181	161	145	132	121
D 5.6	W 5.6	0.267	0.056		0.191	36.13	6.78	36.1	0.284	711	474	356	284	237	203	178	158	142	129	119
D 5.5	W 5.5	0.265	0.055		0.187	35.48	6.72	35.5	0.278	699	466	349	279	233	200	175	155	140	127	116
D 5.4	W 5.4	0.262	0.054	gauge 2	0.184	34.90	6.67	34.9	0.274	687	458	344	275	229	196	172	153	137	125	115
D 5.3	W 5.3	0.260	0.053		0.180	34.19	6.60	34.2	0.268	673	449	337	269	224	192	168	150	135	122	112
D 5.2	W 5.2	0.257	0.052		0.177	33.55	6.54	33.5	0.263	660	440	330	264	220	189	165	147	132	120	110
D 5.1	W 5.1	0.255	0.051		0.174	32.90	6.47	32.9	0.258	648	432	324	259	216	185	162	144	130	118	108
▶ D 5	W 5	<b>0.252</b>	<b>0.050</b>		<b>0.170</b>	<b>32.26</b>	<b>6.41</b>	<b>32.3</b>	<b>0.253</b>	<b>635</b>	<b>423</b>	<b>318</b>	<b>254</b>	<b>212</b>	<b>181</b>	<b>159</b>	<b>141</b>	<b>127</b>	<b>115</b>	<b>106</b>
D 4.9	W 4.9	0.250	0.049		0.167	31.61	6.34	31.6	0.248	622	415	311	249	207	178	156	138	124	113	104
D 4.8	W 4.8	0.247	0.048		0.163	30.97	6.28	31.0	0.243	610	406	305	244	203	174	152	135	122	111	102
D 4.7	W 4.7	0.244	0.047	gauge 3	0.159	30.10	6.19	30.1	0.236	592	395	296	237	197	169	148	132	118	108	99
D 4.6	W 4.6	0.242	0.046		0.157	29.68	6.15	29.7	0.233	584	389	292	234	195	167	146	130	117	106	97
D 4.5	W 4.5	0.239	0.045		0.153	29.03	6.08	29.0	0.228	572	381	286	229	191	163	143	127	114	104	95
D 4.4	W 4.4	0.237	0.044		0.150	28.39	6.01	28.4	0.223	559	373	279	224	186	160	140	124	112	102	93
D 4.3	W 4.3	0.234	0.043		0.146	27.74	5.94	27.7	0.218	546	364	273	218	182	156	137	121	109	99	91
D 4.2	W 4.2	0.231	0.042		0.143	27.10	5.87	27.1	0.213	533	356	267	213	178	152	133	119	107	97	89
D 4.1	W 4.1	0.228	0.041		0.140	26.45	5.80	26.5	0.208	521	347	260	208	174	149	130	116	104	95	87
▶ D 4	W 4	<b>0.226</b>	<b>0.040</b>	gauge 4	<b>0.136</b>	<b>25.81</b>	<b>5.73</b>	<b>25.8</b>	<b>0.203</b>	<b>508</b>	<b>339</b>	<b>254</b>	<b>203</b>	<b>169</b>	<b>145</b>	<b>127</b>	<b>113</b>	<b>102</b>	<b>92</b>	<b>85</b>
D 3.9	W 3.9	0.223	0.039		0.133	25.16	5.66	25.2	0.197	495	330	248	198	165	142	124	110	99	90	83



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WIRE SIZE										AREA										
IMPERIAL UNITS					METRIC UNITS					mm <sup>2</sup> per linear metre										
DEFORMED WIRE (D)	SMOOTH WIRE (W)	DIAM. (in.)	AREA (in <sup>2</sup> )	EQUAL TO	WEIGHT (lb / lin. ft)	MW or MD	DIAM. (mm)	AREA (mm <sup>2</sup> )	WEIGHT (kg / lin. m)	SPACING – CENTER TO CENTER										
										50.8	76.2	101.6	127.0	152.4	177.8	203.2	228.6	254.0	279.4	304.8
										2"	3"	4"	5"	6"	7"	8"	9"	10"	11"	12"
D 3.8	W 3.8	0.220	0.038		0.129	24.52	5.59	24.5	0.192	483	322	241	193	161	138	121	107	97	88	80
D 3.7	W 3.7	0.217	0.037		0.126	23.87	5.51	23.9	0.187	470	313	235	188	157	134	117	104	94	85	78
D 3.6	W 3.6	0.214	0.036		0.122	23.23	5.44	23.2	0.182	457	305	229	183	152	131	114	102	91	83	76
D 3.5	W 3.5	0.211	0.035		0.119	22.58	5.36	22.6	0.177	445	296	222	178	148	127	111	99	89	81	74
D 3.4	W 3.4	0.207	0.034	gauge 5	0.114	21.71	5.26	21.7	0.170	427	285	214	171	142	122	107	95	85	78	71
D 3.3	W 3.3	0.205	0.033		0.112	21.29	5.21	21.3	0.167	419	279	210	168	140	120	105	93	84	76	70
D 3.2	W 3.2	0.202	0.032		0.109	20.65	5.13	20.6	0.162	406	271	203	163	135	116	102	90	81	74	68
D 3.1	W 3.1	0.199	0.031		0.105	20.00	5.05	20.0	0.157	394	262	197	157	131	112	98	87	79	72	66
▶ D 3	W 3	0.195	0.030		0.102	19.35	4.96	19.4	0.152	381	254	191	152	127	109	95	85	76	69	64
D 2.9	W 2.9	0.192	0.029	gauge 6	0.098	18.68	4.88	18.7	0.146	368	245	184	147	123	105	92	82	74	67	61
D 2.8	W 2.8	0.189	0.028		0.095	18.06	4.80	18.1	0.142	356	237	178	142	119	102	89	79	71	65	59
D 2.7	W 2.7	0.185	0.027		0.092	17.42	4.71	17.4	0.137	343	229	171	137	114	98	86	76	69	62	57
D 2.6	W 2.6	0.182	0.026		0.088	16.77	4.62	16.8	0.131	330	220	165	132	110	94	83	73	66	60	55
D 2.5	W 2.5	0.177	0.025	gauge 7	0.084	15.87	4.50	15.9	0.124	312	208	156	125	104	89	78	69	62	57	52
D 2.4	W 2.4	0.175	0.024		0.082	15.48	4.44	15.5	0.121	305	203	152	122	102	87	76	68	61	55	51
D 2.3	W 2.3	0.171	0.023		0.078	14.84	4.35	14.8	0.116	292	195	146	117	97	83	73	65	58	53	49
D 2.2	W 2.2	0.167	0.022		0.075	14.19	4.25	14.2	0.111	279	186	140	112	93	80	70	62	56	51	47
D 2.1	W 2.1	0.162	0.021	gauge 8	0.070	13.30	4.11	13.3	0.104	262	175	131	105	87	75	65	58	52	48	44
▶ D 2	W 2	0.160	0.020		0.068	12.90	4.05	12.9	0.101	254	169	127	102	85	73	64	56	51	46	42
D 1.9	W 1.9	0.156	0.019		0.065	12.26	3.95	12.3	0.096	241	161	121	97	80	69	60	54	48	44	40
D 1.8	W 1.8	0.151	0.018		0.061	11.61	3.85	11.6	0.091	229	152	114	91	76	65	57	51	46	42	38
D 1.7	W 1.7	0.148	0.017	gauge 9	0.059	11.14	3.77	11.1	0.087	219	146	110	88	73	63	55	49	44	40	37
D 1.6	W 1.6	0.143	0.016		0.054	10.32	3.63	10.3	0.081	203	135	102	81	68	58	51	45	41	37	34
D 1.5	W 1.5	0.138	0.015		0.051	9.68	3.51	9.7	0.076	191	127	95	76	64	54	48	42	38	35	32
D 1.4	W 1.4	0.135	0.014	gauge 10	0.049	9.23	3.43	9.2	0.072	182	121	91	73	61	52	45	40	36	33	30
D 1.3	W 1.3	0.129	0.013		0.044	8.39	3.27	8.4	0.066	165	110	83	66	55	47	41	37	33	30	28
D 1.2	W 1.2	0.124	0.012		0.041	7.74	3.14	7.7	0.061	152	102	76	61	51	44	38	34	30	28	25
D 1.1	W 1.1	0.118	0.011	gauge 11	0.037	7.10	3.01	7.1	0.056	140	93	70	56	47	40	35	31	28	25	23
▶ D 1	W 1	0.113	0.010		0.034	6.45	2.87	6.5	0.051	127	85	64	51	42	36	32	28	25	23	21
D 0.9	W 0.9	0.107	0.009	gauge 12	0.031	5.81	2.72	5.8	0.046	114	76	57	46	38	33	29	25	23	21	19
D 0.8	W 0.8	0.101	0.008		0.027	5.16	2.56	5.2	0.040	102	68	51	41	34	29	25	23	20	18	17
D 0.7	W 0.7	0.094	0.007	gauge 13	0.024	4.52	2.40	4.5	0.035	89	59	44	36	30	25	22	20	18	16	15
D 0.6	W 0.6	0.087	0.006		0.020	3.87	2.22	3.9	0.030	76	51	38	30	25	22	19	17	15	14	13
D 0.5	W 0.5	0.080	0.005	gauge 14	0.017	3.23	2.03	3.2	0.025	64	42	32	25	21	18	16	14	13	12	11
D 0.4	W 0.4	0.071	0.004		0.014	2.58	1.81	2.6	0.020	51	34	25	20	17	15	13	11	10	9	8
D 0.3	W 0.3	0.062	0.003		0.010	1.94	1.57	1.9	0.015	38	25	19	15	13	11	10	8	8	7	6
D 0.2	W 0.2	0.050	0.002		0.007	1.29	1.28	1.3	0.010	25	17	13	10	8	7	6	6	5	5	4
D 0.1	W 0.1	0.036	0.001		0.003	0.65	0.91	0.6	0.005	13	8	6	5	4	4	3	3	3	2	2

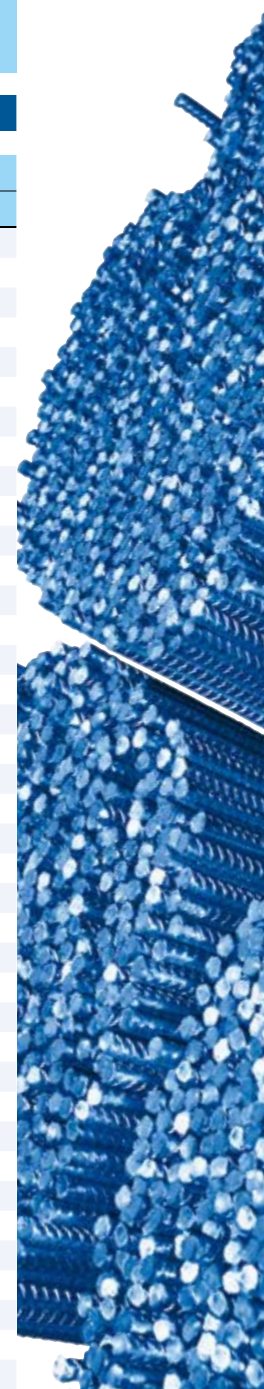


# ENGINEERED WELDED WIRE REINFORCEMENT

## DESIGN TABLE

# METRIC

WIRE SIZE										AREA										
IMPERIAL UNITS					METRIC UNITS					mm <sup>2</sup> per linear metre										
DEFORMED WIRE (D)	SMOOTH WIRE (W)	DIAM. (in.)	AREA (in <sup>2</sup> )	EQUAL TO	WEIGHT (lb / lin. ft)	MW or MD	DIAM. (mm)	AREA (mm <sup>2</sup> )	WEIGHT (kg / lin. m)	METRIC SPACING - CENTER TO CENTER										
										50	75	100	125	150	175	200	225	250	275	300
<b>D 34</b>	<b>W 34</b>	<b>0.658</b>	<b>0.340</b>		<b>1.156</b>	<b>219.35</b>	<b>16.71</b>	<b>219.4</b>	<b>1.719</b>	<b>4387</b>	<b>2925</b>	<b>2194</b>	<b>1755</b>	<b>1462</b>	<b>1253</b>	<b>1097</b>	<b>975</b>	<b>877</b>	<b>798</b>	<b>731</b>
D 33.9	W 33.9	0.657	0.339		1.153	218.71	16.69	218.7	1.714	4374	2916	2187	1750	1458	1250	1094	972	875	795	729
D 33.8	W 33.8	0.656	0.338		1.149	218.06	16.66	218.1	1.709	4361	2908	2181	1745	1454	1246	1090	969	872	793	727
D 33.7	W 33.7	0.655	0.337		1.146	217.42	16.64	217.4	1.704	4348	2899	2174	1739	1449	1242	1087	966	870	791	725
D 33.6	W 33.6	0.654	0.336		1.142	216.77	16.61	216.8	1.699	4335	2890	2168	1734	1445	1239	1084	963	867	788	723
D 33.5	W 33.5	0.653	0.335		1.139	216.13	16.59	216.1	1.694	4323	2882	2161	1729	1441	1235	1081	961	865	786	720
D 33.4	W 33.4	0.652	0.334		1.136	215.48	16.56	215.5	1.689	4310	2873	2155	1724	1437	1231	1077	958	862	784	718
D 33.3	W 33.3	0.651	0.333		1.132	214.84	16.54	214.8	1.684	4297	2865	2148	1719	1432	1228	1074	955	859	781	716
D 33.2	W 33.2	0.650	0.332		1.129	214.19	16.51	214.2	1.679	4284	2856	2142	1714	1428	1224	1071	952	857	779	714
D 33.1	W 33.1	0.649	0.331		1.125	213.55	16.49	213.5	1.674	4271	2847	2135	1708	1424	1220	1068	949	854	777	712
<b>D 33</b>	<b>W 33</b>	<b>0.648</b>	<b>0.330</b>		<b>1.122</b>	<b>212.90</b>	<b>16.46</b>	<b>212.9</b>	<b>1.669</b>	<b>4258</b>	<b>2839</b>	<b>2129</b>	<b>1703</b>	<b>1419</b>	<b>1217</b>	<b>1065</b>	<b>946</b>	<b>852</b>	<b>774</b>	<b>710</b>
D 32.9	W 32.9	0.647	0.329		1.119	212.26	16.44	212.3	1.664	4245	2830	2123	1698	1415	1213	1061	943	849	772	708
D 32.8	W 32.8	0.646	0.328		1.115	211.61	16.41	211.6	1.659	4232	2821	2116	1693	1411	1209	1058	940	846	769	705
D 32.7	W 32.7	0.645	0.327		1.112	210.97	16.39	211.0	1.653	4219	2813	2110	1688	1406	1206	1055	938	844	767	703
D 32.6	W 32.6	0.644	0.326		1.108	210.32	16.36	210.3	1.648	4206	2804	2103	1683	1402	1202	1052	935	841	765	701
D 32.5	W 32.5	0.643	0.325		1.105	209.68	16.34	209.7	1.643	4194	2796	2097	1677	1398	1198	1048	932	839	762	699
D 32.4	W 32.4	0.642	0.324		1.102	209.03	16.31	209.0	1.638	4181	2787	2090	1672	1394	1194	1045	929	836	760	697
D 32.3	W 32.3	0.641	0.323		1.098	208.39	16.29	208.4	1.633	4168	2778	2084	1667	1389	1191	1042	926	834	758	695
D 32.2	W 32.2	0.640	0.322		1.095	207.74	16.26	207.7	1.628	4155	2770	2077	1662	1385	1187	1039	923	831	755	692
D 32.1	W 32.1	0.639	0.321		1.091	207.10	16.24	207.1	1.623	4142	2761	2071	1657	1381	1183	1035	920	828	753	690
<b>D 32</b>	<b>W 32</b>	<b>0.638</b>	<b>0.320</b>		<b>1.088</b>	<b>206.45</b>	<b>16.21</b>	<b>206.5</b>	<b>1.618</b>	<b>4129</b>	<b>2753</b>	<b>2065</b>	<b>1652</b>	<b>1376</b>	<b>1180</b>	<b>1032</b>	<b>918</b>	<b>826</b>	<b>751</b>	<b>688</b>
D 31.9	W 31.9	0.637	0.319		1.085	205.81	16.19	205.8	1.613	4116	2744	2058	1646	1372	1176	1029	915	823	748	686
D 31.8	W 31.8	0.636	0.318		1.081	205.16	16.16	205.2	1.608	4103	2735	2052	1641	1368	1172	1026	912	821	746	684
D 31.7	W 31.7	0.635	0.317		1.078	204.52	16.14	204.5	1.603	4090	2727	2045	1636	1363	1169	1023	909	818	744	682
D 31.6	W 31.6	0.634	0.316		1.074	203.87	16.11	203.9	1.598	4077	2718	2039	1631	1359	1165	1019	906	815	741	680
D 31.5	W 31.5	0.633	0.315		1.071	203.23	16.09	203.2	1.593	4065	2710	2032	1626	1355	1161	1016	903	813	739	677
D 31.4	W 31.4	0.632	0.314		1.068	202.58	16.06	202.6	1.588	4052	2701	2026	1621	1351	1158	1013	900	810	737	675
D 31.3	W 31.3	0.631	0.313		1.064	201.94	16.03	201.9	1.583	4039	2692	2019	1615	1346	1154	1010	897	808	734	673
D 31.2	W 31.2	0.630	0.312		1.061	201.29	16.01	201.3	1.578	4026	2684	2013	1610	1342	1150	1006	895	805	732	671
D 31.1	W 31.1	0.629	0.311		1.057	200.64	15.98	200.6	1.573	4013	2675	2006	1605	1338	1147	1003	892	803	730	669
▶ <b>D 31</b>	<b>W 31</b>	<b>0.628</b>	<b>0.310</b>	15M rebar	<b>1.054</b>	<b>200.00</b>	<b>15.96</b>	<b>200.0</b>	<b>1.568</b>	<b>4000</b>	<b>2667</b>	<b>2000</b>	<b>1600</b>	<b>1333</b>	<b>1143</b>	<b>1000</b>	<b>889</b>	<b>800</b>	<b>727</b>	<b>667</b>
D 30.9	W 30.9	0.627	0.309		1.051	199.35	15.93	199.4	1.562	3987	2658	1994	1595	1329	1139	997	886	797	725	665
D 30.8	W 30.8	0.626	0.308		1.047	198.71	15.91	198.7	1.557	3974	2649	1987	1590	1325	1135	994	883	795	723	662
D 30.7	W 30.7	0.625	0.307		1.044	198.06	15.88	198.1	1.552	3961	2641	1981	1585	1320	1132	990	880	792	720	660
D 30.68	W 30.68	0.625	0.307	#5 rebar	1.043	197.93	15.87	197.9	1.551	3959	2639	1979	1583	1320	1131	990	880	792	720	660
D 30.6	W30.6	0.624	0.306		1.040	197.42	15.85	197.4	1.547	3948	2632	1974	1579	1316	1128	987	877	790	718	658
D 30.5	W 30.5	0.623	0.305		1.037	196.77	15.83	196.8	1.542	3935	2624	1968	1574	1312	1124	984	875	787	716	656
D 30.4	W 30.4	0.622	0.304		1.034	196.13	15.80	196.1	1.537	3923	2615	1961	1569	1308	1121	981	872	785	713	654
D 30.3	W 30.3	0.621	0.303		1.030	195.48	15.78	195.5	1.532	3910	2606	1955	1564	1303	1117	977	869	782	711	652



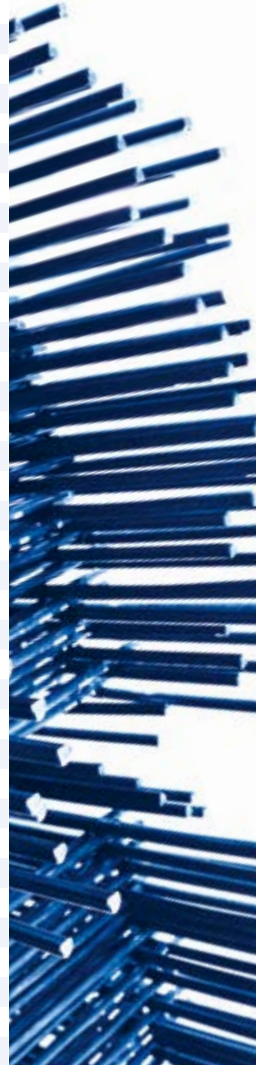
WIRE SIZE										AREA										
IMPERIAL UNITS					METRIC UNITS					mm <sup>2</sup> per linear metre										
DEFORMED WIRE (D)	SMOOTH WIRE (W)	DIAM. (in.)	AREA (in <sup>2</sup> )	EQUAL TO	WEIGHT (lb / lin. ft)	MW or MD	DIAM. (mm)	AREA (mm <sup>2</sup> )	WEIGHT (kg / lin. m)	METRIC SPACING – CENTER TO CENTER										
										50	75	100	125	150	175	200	225	250	275	300
D 30.2	W 30.2	0.620	0.302		1.027	194.84	15.75	194.8	1.527	3897	2598	1948	1559	1299	1113	974	866	779	709	649
D 30.1	W 30.1	0.619	0.301		1.023	194.19	15.72	194.2	1.522	3884	2589	1942	1554	1295	1110	971	863	777	706	647
<b>D 30</b>	<b>W 30</b>	<b>0.618</b>	<b>0.300</b>		<b>1.020</b>	<b>193.55</b>	<b>15.70</b>	<b>193.5</b>	<b>1.517</b>	<b>3871</b>	<b>2581</b>	<b>1935</b>	<b>1548</b>	<b>1290</b>	<b>1106</b>	<b>968</b>	<b>860</b>	<b>774</b>	<b>704</b>	<b>645</b>
D 29.9	W 29.9	0.617	0.299		1.017	192.90	15.67	192.9	1.512	3858	2572	1929	1543	1286	1102	965	857	772	701	643
D 29.8	W 29.8	0.616	0.298		1.013	192.26	15.65	192.3	1.507	3845	2563	1923	1538	1282	1099	961	854	769	699	641
D 29.7	W 29.7	0.615	0.297		1.010	191.61	15.62	191.6	1.502	3832	2555	1916	1533	1277	1095	958	852	766	697	639
D 29.6	W 29.6	0.614	0.296		1.006	190.97	15.59	191.0	1.497	3819	2546	1910	1528	1273	1091	955	849	764	694	637
D 29.5	W 29.5	0.613	0.295		1.003	190.32	15.57	190.3	1.492	3806	2538	1903	1523	1269	1088	952	846	761	692	634
D 29.4	W 29.4	0.612	0.294		1.000	189.68	15.54	189.7	1.487	3794	2529	1897	1517	1265	1084	948	843	759	690	632
D 29.3	W 29.3	0.611	0.293		0.996	189.03	15.51	189.0	1.482	3781	2520	1890	1512	1260	1080	945	840	756	687	630
D 29.2	W 29.2	0.610	0.292		0.993	188.39	15.49	188.4	1.477	3768	2512	1884	1507	1256	1076	942	837	754	685	628
D 29.1	W 29.1	0.609	0.291		0.989	187.74	15.46	187.7	1.471	3755	2503	1877	1502	1252	1073	939	834	751	683	626
<b>D 29</b>	<b>W 29</b>	<b>0.608</b>	<b>0.290</b>		<b>0.986</b>	<b>187.10</b>	<b>15.43</b>	<b>187.1</b>	<b>1.466</b>	<b>3742</b>	<b>2495</b>	<b>1871</b>	<b>1497</b>	<b>1247</b>	<b>1069</b>	<b>935</b>	<b>832</b>	<b>748</b>	<b>680</b>	<b>624</b>
D 28.9	W 28.9	0.607	0.289		0.983	186.45	15.41	186.5	1.461	3729	2486	1865	1492	1243	1065	932	829	746	678	622
D 28.8	W 28.8	0.606	0.288		0.979	185.81	15.38	185.8	1.456	3716	2477	1858	1486	1239	1062	929	826	743	676	619
D 28.7	W 28.7	0.604	0.287		0.976	185.16	15.35	185.2	1.451	3703	2469	1852	1481	1234	1058	926	823	741	673	617
D 28.6	W 28.6	0.603	0.286		0.972	184.52	15.33	184.5	1.446	3690	2460	1845	1476	1230	1054	923	820	738	671	615
D 28.5	W 28.5	0.602	0.285		0.969	183.87	15.30	183.9	1.441	3677	2452	1839	1471	1226	1051	919	817	735	669	613
D 28.4	W 28.4	0.601	0.284		0.966	183.23	15.27	183.2	1.436	3665	2443	1832	1466	1222	1047	916	814	733	666	611
D 28.3	W 28.3	0.600	0.283		0.962	182.58	15.25	182.6	1.431	3652	2434	1826	1461	1217	1043	913	811	730	664	609
D 28.2	W 28.2	0.599	0.282		0.959	181.94	15.22	181.9	1.426	3639	2426	1819	1455	1213	1040	910	809	728	662	606
D 28.1	W 28.1	0.598	0.281		0.955	181.29	15.19	181.3	1.421	3626	2417	1813	1450	1209	1036	906	806	725	659	604
<b>D 28</b>	<b>W 28</b>	<b>0.597</b>	<b>0.280</b>		<b>0.952</b>	<b>180.64</b>	<b>15.17</b>	<b>180.6</b>	<b>1.416</b>	<b>3613</b>	<b>2409</b>	<b>1806</b>	<b>1445</b>	<b>1204</b>	<b>1032</b>	<b>903</b>	<b>803</b>	<b>723</b>	<b>657</b>	<b>602</b>
D 27.9	W 27.9	0.596	0.279		0.949	180.00	15.14	180.0	1.411	3600	2400	1800	1440	1200	1029	900	800	720	655	600
D 27.8	W 27.8	0.595	0.278		0.945	179.35	15.11	179.4	1.406	3587	2391	1794	1435	1196	1025	897	797	717	652	598
D 27.7	W 27.7	0.594	0.277		0.942	178.71	15.08	178.7	1.401	3574	2383	1787	1430	1191	1021	894	794	715	650	596
D 27.6	W 27.6	0.593	0.276		0.938	178.06	15.06	178.1	1.396	3561	2374	1781	1425	1187	1018	890	791	712	648	594
D 27.5	W 27.5	0.592	0.275		0.935	177.42	15.03	177.4	1.391	3548	2366	1774	1419	1183	1014	887	789	710	645	591
D 27.4	W 27.4	0.591	0.274		0.932	176.77	15.00	176.8	1.385	3535	2357	1768	1414	1178	1010	884	786	707	643	589
D 27.3	W 27.3	0.590	0.273		0.928	176.13	14.98	176.1	1.380	3523	2348	1761	1409	1174	1006	881	783	705	640	587
D 27.2	W 27.2	0.588	0.272		0.925	175.48	14.95	175.5	1.375	3510	2340	1755	1404	1170	1003	877	780	702	638	585
D 27.1	W 27.1	0.587	0.271		0.921	174.84	14.92	174.8	1.370	3497	2331	1748	1399	1166	999	874	777	699	636	583
<b>D 27</b>	<b>W 27</b>	<b>0.586</b>	<b>0.270</b>		<b>0.918</b>	<b>174.19</b>	<b>14.89</b>	<b>174.2</b>	<b>1.365</b>	<b>3484</b>	<b>2323</b>	<b>1742</b>	<b>1394</b>	<b>1161</b>	<b>995</b>	<b>871</b>	<b>774</b>	<b>697</b>	<b>633</b>	<b>581</b>
D 26.9	W 26.9	0.585	0.269		0.915	173.55	14.86	173.5	1.360	3471	2314	1735	1388	1157	992	868	771	694	631	578
D 26.8	W 26.8	0.584	0.268		0.911	172.90	14.84	172.9	1.355	3458	2305	1729	1383	1153	988	865	768	692	629	576
D 26.7	W 26.7	0.583	0.267		0.908	172.26	14.81	172.3	1.350	3445	2297	1723	1378	1148	984	861	766	689	626	574
D 26.6	W 26.6	0.582	0.266		0.904	171.61	14.78	171.6	1.345	3432	2288	1716	1373	1144	981	858	763	686	624	572
D 26.5	W 26.5	0.581	0.265		0.901	170.97	14.75	171.0	1.340	3419	2280	1710	1368	1140	977	855	760	684	622	570
D 26.4	W 26.4	0.580	0.264		0.898	170.32	14.73	170.3	1.335	3406	2271	1703	1363	1135	973	852	757	681	619	568
D 26.3	W 26.3	0.579	0.263		0.894	169.68	14.70	169.7	1.330	3394	2262	1697	1357	1131	970	848	754	679	617	566
D 26.2	W 26.2	0.578	0.262		0.891	169.03	14.67	169.0	1.325	3381	2254	1690	1352	1127	966	845	751	676	615	563
D 26.1	W 26.1	0.576	0.261		0.887	168.39	14.64	168.4	1.320	3368	2245	1684	1347	1123	962	842	748	674	612	561
<b>D 26</b>	<b>W 26</b>	<b>0.575</b>	<b>0.260</b>		<b>0.884</b>	<b>167.74</b>	<b>14.61</b>	<b>167.7</b>	<b>1.315</b>	<b>3355</b>	<b>2237</b>	<b>1677</b>	<b>1342</b>	<b>1118</b>	<b>959</b>	<b>839</b>	<b>746</b>	<b>671</b>	<b>610</b>	<b>559</b>
D 25.9	W 25.9	0.574	0.259		0.881	167.10	14.59	167.1	1.310	3342	2228	1671	1337	1114	955	835	743	668	608	557
D 25.8	W 25.8	0.573	0.258		0.877	166.45	14.56	166.5	1.305	3329	2219	1665	1332	1110	951	832	740	666	605	555



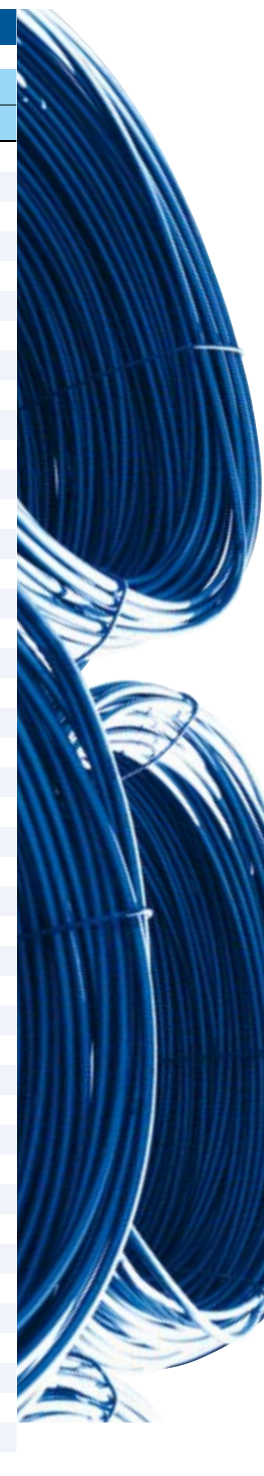
WIRE SIZE										AREA										
IMPERIAL UNITS					METRIC UNITS					mm <sup>2</sup> per linear metre										
DEFORMED WIRE (D)	SMOOTH WIRE (W)	DIAM. (in.)	AREA (in <sup>2</sup> )	EQUAL TO	WEIGHT (lb / lin. ft)	MW or MD	DIAM. (mm)	AREA (mm <sup>2</sup> )	WEIGHT (kg / lin. m)	METRIC SPACING - CENTER TO CENTER										
										50	75	100	125	150	175	200	225	250	275	300
D 25.7	W 25.7	0.572	0.257		0.874	165.81	14.53	165.8	1.300	3316	2211	1658	1326	1105	947	829	737	663	603	553
D 25.6	W 25.6	0.571	0.256		0.870	165.16	14.50	165.2	1.294	3303	2202	1652	1321	1101	944	826	734	661	601	551
D 25.5	W 25.5	0.570	0.255		0.867	164.52	14.47	164.5	1.289	3290	2194	1645	1316	1097	940	823	731	658	598	548
D 25.4	W 25.4	0.569	0.254		0.864	163.87	14.44	163.9	1.284	3277	2185	1639	1311	1092	936	819	728	655	596	546
D 25.3	W 25.3	0.568	0.253		0.860	163.23	14.42	163.2	1.279	3265	2176	1632	1306	1088	933	816	725	653	594	544
D 25.2	W 25.2	0.566	0.252		0.857	162.58	14.39	162.6	1.274	3252	2168	1626	1301	1084	929	813	723	650	591	542
D 25.1	W 25.1	0.565	0.251		0.853	161.94	14.36	161.9	1.269	3239	2159	1619	1295	1080	925	810	720	648	589	540
▶ <b>D 25</b>	<b>W 25</b>	<b>0.564</b>	<b>0.250</b>		<b>0.850</b>	<b>161.29</b>	<b>14.33</b>	<b>161.3</b>	<b>1.264</b>	<b>3226</b>	<b>2151</b>	<b>1613</b>	<b>1290</b>	<b>1075</b>	<b>922</b>	<b>806</b>	<b>717</b>	<b>645</b>	<b>587</b>	<b>538</b>
D 24.9	W 24.9	0.563	0.249		0.847	160.64	14.30	160.6	1.259	3213	2142	1606	1285	1071	918	803	714	643	584	535
D 24.8	W 24.8	0.562	0.248		0.843	160.00	14.27	160.0	1.254	3200	2133	1600	1280	1067	914	800	711	640	582	533
D 24.7	W 24.7	0.561	0.247		0.840	159.35	14.24	159.4	1.249	3187	2125	1594	1275	1062	911	797	708	637	579	531
D 24.6	W 24.6	0.560	0.246		0.836	158.71	14.22	158.7	1.244	3174	2116	1587	1270	1058	907	794	705	635	577	529
D 24.5	W 24.5	0.559	0.245		0.833	158.06	14.19	158.1	1.239	3161	2108	1581	1265	1054	903	790	703	632	575	527
D 24.4	W 24.4	0.557	0.244		0.830	157.42	14.16	157.4	1.234	3148	2099	1574	1259	1049	900	787	700	630	572	525
D 24.3	W 24.3	0.556	0.243		0.826	156.77	14.13	156.8	1.229	3135	2090	1568	1254	1045	896	784	697	627	570	523
D 24.2	W 24.2	0.555	0.242		0.823	156.13	14.10	156.1	1.224	3123	2082	1561	1249	1041	892	781	694	625	568	520
D 24.1	W 24.1	0.554	0.241		0.819	155.48	14.07	155.5	1.219	3110	2073	1555	1244	1037	888	777	691	622	565	518
▶ <b>D 24</b>	<b>W 24</b>	<b>0.553</b>	<b>0.240</b>		<b>0.816</b>	<b>154.84</b>	<b>14.04</b>	<b>154.8</b>	<b>1.214</b>	<b>3097</b>	<b>2065</b>	<b>1548</b>	<b>1239</b>	<b>1032</b>	<b>885</b>	<b>774</b>	<b>688</b>	<b>619</b>	<b>563</b>	<b>516</b>
D 23.9	W 23.9	0.552	0.239		0.813	154.19	14.01	154.2	1.209	3084	2056	1542	1234	1028	881	771	685	617	561	514
D 23.8	W 23.8	0.550	0.238		0.809	153.55	13.98	153.5	1.203	3071	2047	1535	1228	1024	877	768	682	614	558	512
D 23.7	W 23.7	0.549	0.237		0.806	152.90	13.95	152.9	1.198	3058	2039	1529	1223	1019	874	765	680	612	556	510
D 23.6	W 23.6	0.548	0.236		0.802	152.26	13.92	152.3	1.193	3045	2030	1523	1218	1015	870	761	677	609	554	508
D 23.5	W 23.5	0.547	0.235		0.799	151.61	13.89	151.6	1.188	3032	2022	1516	1213	1011	866	758	674	606	551	505
D 23.4	W 23.4	0.546	0.234		0.796	150.97	13.86	151.0	1.183	3019	2013	1510	1208	1006	863	755	671	604	549	503
D 23.3	W 23.3	0.545	0.233		0.792	150.32	13.83	150.3	1.178	3006	2004	1503	1203	1002	859	752	668	601	547	501
D 23.2	W 23.2	0.543	0.232		0.789	149.68	13.80	149.7	1.173	2994	1996	1497	1197	998	855	748	665	599	544	499
D 23.1	W 23.1	0.542	0.231		0.785	149.03	13.78	149.0	1.168	2981	1987	1490	1192	994	852	745	662	596	542	497
▶ <b>D 23</b>	<b>W 23</b>	<b>0.541</b>	<b>0.230</b>		<b>0.782</b>	<b>148.39</b>	<b>13.75</b>	<b>148.4</b>	<b>1.163</b>	<b>2968</b>	<b>1978</b>	<b>1484</b>	<b>1187</b>	<b>989</b>	<b>848</b>	<b>742</b>	<b>659</b>	<b>594</b>	<b>540</b>	<b>495</b>
D 22.9	W 22.9	0.540	0.229		0.779	147.74	13.72	147.7	1.158	2955	1970	1477	1182	985	844	739	657	591	537	492
D 22.8	W 22.8	0.539	0.228		0.775	147.10	13.69	147.1	1.153	2942	1961	1471	1177	981	841	735	654	588	535	490
D 22.7	W 22.7	0.538	0.227		0.772	146.45	13.66	146.5	1.148	2929	1953	1465	1172	976	837	732	651	586	533	488
D 22.6	W 22.6	0.536	0.226		0.768	145.81	13.63	145.8	1.143	2916	1944	1458	1166	972	833	729	648	583	530	486
D 22.5	W 22.5	0.535	0.225		0.765	145.16	13.60	145.2	1.138	2903	1935	1452	1161	968	829	726	645	581	528	484
D 22.4	W 22.4	0.534	0.224		0.762	144.52	13.56	144.5	1.133	2890	1927	1445	1156	963	826	723	642	578	526	482
D 22.3	W 22.3	0.533	0.223		0.758	143.87	13.53	143.9	1.128	2877	1918	1439	1151	959	822	719	639	575	523	480
D 22.2	W 22.2	0.532	0.222		0.755	143.23	13.50	143.2	1.123	2865	1910	1432	1146	955	818	716	637	573	521	477
D 22.1	W 22.1	0.530	0.221		0.751	142.58	13.47	142.6	1.117	2852	1901	1426	1141	951	815	713	634	570	518	475
▶ <b>D 22</b>	<b>W 22</b>	<b>0.529</b>	<b>0.220</b>		<b>0.748</b>	<b>141.94</b>	<b>13.44</b>	<b>141.9</b>	<b>1.112</b>	<b>2839</b>	<b>1892</b>	<b>1419</b>	<b>1135</b>	<b>946</b>	<b>811</b>	<b>710</b>	<b>631</b>	<b>568</b>	<b>516</b>	<b>473</b>
D 21.9	W 21.9	0.528	0.219		0.745	141.29	13.41	141.3	1.107	2826	1884	1413	1130	942	807	706	628	565	514	471
D 21.8	W 21.8	0.527	0.218		0.741	140.64	13.38	140.6	1.102	2813	1875	1406	1125	938	804	703	625	563	511	469
D 21.7	W 21.7	0.526	0.217		0.738	140.00	13.35	140.0	1.097	2800	1867	1400	1120	933	800	700	622	560	509	467
D 21.6	W 21.6	0.524	0.216		0.734	139.35	13.32	139.4	1.092	2787	1858	1394	1115	929	796	697	619	557	507	465
D 21.5	W 21.5	0.523	0.215		0.731	138.71	13.29	138.7	1.087	2774	1849	1387	1110	925	793	694	616	555	504	462



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WIRE SIZE										AREA										
IMPERIAL UNITS					METRIC UNITS					mm <sup>2</sup> per linear metre										
DEFORMED WIRE (D)	SMOOTH WIRE (W)	DIAM. (in.)	AREA (in <sup>2</sup> )	EQUAL TO	WEIGHT (lb / lin. ft)	MW or MD	DIAM. (mm)	AREA (mm <sup>2</sup> )	WEIGHT (kg / lin. m)	METRIC SPACING – CENTER TO CENTER										
										50	75	100	125	150	175	200	225	250	275	300
D 21.4	W 21.4	0.522	0.214		0.728	138.06	13.26	138.1	1.082	2761	1841	1381	1105	920	789	690	614	552	502	460
D 21.3	W 21.3	0.521	0.213		0.724	137.42	13.23	137.4	1.077	2748	1832	1374	1099	916	785	687	611	550	500	458
D 21.2	W 21.2	0.520	0.212		0.721	136.77	13.20	136.8	1.072	2735	1824	1368	1094	912	782	684	608	547	497	456
D 21.1	W 21.1	0.518	0.211		0.717	136.13	13.17	136.1	1.067	2723	1815	1361	1089	908	778	681	605	545	495	454
<b>D 21</b>	<b>W 21</b>	<b>0.517</b>	<b>0.210</b>		<b>0.714</b>	<b>135.48</b>	<b>13.13</b>	<b>135.5</b>	<b>1.062</b>	<b>2710</b>	<b>1806</b>	<b>1355</b>	<b>1084</b>	<b>903</b>	<b>774</b>	<b>677</b>	<b>602</b>	<b>542</b>	<b>493</b>	<b>452</b>
D 20.9	W 20.9	0.516	0.209		0.711	134.84	13.10	134.8	1.057	2697	1798	1348	1079	899	771	674	599	539	490	449
D 20.8	W 20.8	0.515	0.208		0.707	134.19	13.07	134.2	1.052	2684	1789	1342	1074	895	767	671	596	537	488	447
D 20.7	W 20.7	0.513	0.207		0.704	133.55	13.04	133.5	1.047	2671	1781	1335	1068	890	763	668	594	534	486	445
D 20.6	W 20.6	0.512	0.206		0.700	132.90	13.01	132.9	1.042	2658	1772	1329	1063	886	759	665	591	532	483	443
D 20.5	W 20.5	0.511	0.205		0.697	132.26	12.98	132.3	1.037	2645	1763	1323	1058	882	756	661	588	529	481	441
D 20.4	W 20.4	0.510	0.204		0.694	131.61	12.95	131.6	1.032	2632	1755	1316	1053	877	752	658	585	526	479	439
D 20.3	W 20.3	0.508	0.203		0.690	130.97	12.91	131.0	1.026	2619	1746	1310	1048	873	748	655	582	524	476	437
D 20.2	W 20.2	0.507	0.202		0.687	130.32	12.88	130.3	1.021	2606	1738	1303	1043	869	745	652	579	521	474	434
D 20.1	W 20.1	0.506	0.201		0.683	129.68	12.85	129.7	1.016	2594	1729	1297	1037	865	741	648	576	519	472	432
<b>D 20</b>	<b>W 20</b>	<b>0.505</b>	<b>0.200</b>		<b>0.680</b>	<b>129.03</b>	<b>12.82</b>	<b>129.0</b>	<b>1.011</b>	<b>2581</b>	<b>1720</b>	<b>1290</b>	<b>1032</b>	<b>860</b>	<b>737</b>	<b>645</b>	<b>573</b>	<b>516</b>	<b>469</b>	<b>430</b>
D 19.9	W 19.9	0.503	0.199		0.677	128.39	12.79	128.4	1.006	2568	1712	1284	1027	856	734	642	571	514	467	428
D 19.8	W 19.8	0.502	0.198		0.673	127.74	12.75	127.7	1.001	2555	1703	1277	1022	852	730	639	568	511	465	426
D 19.7	W 19.7	0.501	0.197		0.670	127.10	12.72	127.1	0.996	2542	1695	1271	1017	847	726	635	565	508	462	424
D 19.63	W 19.63	0.500	0.196	#4 rebar	0.668	126.68	12.70	126.7	0.993	2534	1689	1267	1013	845	724	633	563	507	461	422
D 19.6	W 19.6	0.500	0.196		0.666	126.45	12.69	126.5	0.991	2529	1686	1265	1012	843	723	632	562	506	460	422
D 19.5	W 19.5	0.498	0.195		0.663	125.81	12.66	125.8	0.986	2516	1677	1258	1006	839	719	629	559	503	457	419
D 19.4	W 19.4	0.497	0.194		0.660	125.16	12.62	125.2	0.981	2503	1669	1252	1001	834	715	626	556	501	455	417
D 19.3	W 19.3	0.496	0.193		0.656	124.52	12.59	124.5	0.976	2490	1660	1245	996	830	712	623	553	498	453	415
D 19.2	W 19.2	0.494	0.192		0.653	123.87	12.56	123.9	0.971	2477	1652	1239	991	826	708	619	551	495	450	413
D 19.1	W 19.1	0.493	0.191		0.649	123.23	12.53	123.2	0.966	2465	1643	1232	986	822	704	616	548	493	448	411
<b>D 19</b>	<b>W 19</b>	<b>0.492</b>	<b>0.190</b>		<b>0.646</b>	<b>122.58</b>	<b>12.49</b>	<b>122.6</b>	<b>0.961</b>	<b>2452</b>	<b>1634</b>	<b>1226</b>	<b>981</b>	<b>817</b>	<b>700</b>	<b>613</b>	<b>545</b>	<b>490</b>	<b>446</b>	<b>409</b>
D 18.9	W 18.9	0.491	0.189	gauge 7/0	0.643	121.94	12.46	121.9	0.956	2439	1626	1219	975	813	697	610	542	488	443	406
D 18.8	W 18.8	0.489	0.188		0.639	121.29	12.43	121.3	0.951	2426	1617	1213	970	809	693	606	539	485	441	404
D 18.7	W 18.7	0.488	0.187		0.636	120.64	12.39	120.6	0.946	2413	1609	1206	965	804	689	603	536	483	439	402
D 18.6	W 18.6	0.487	0.186		0.632	120.00	12.36	120.0	0.941	2400	1600	1200	960	800	686	600	533	480	436	400
D 18.5	W 18.5	0.485	0.185		0.629	119.35	12.33	119.4	0.935	2387	1591	1194	955	796	682	597	530	477	434	398
D 18.4	W 18.4	0.484	0.184		0.626	118.71	12.29	118.7	0.930	2374	1583	1187	950	791	678	594	528	475	432	396
D 18.3	W 18.3	0.483	0.183		0.622	118.06	12.26	118.1	0.925	2361	1574	1181	945	787	675	590	525	472	429	394
D 18.2	W 18.2	0.481	0.182		0.619	117.42	12.23	117.4	0.920	2348	1566	1174	939	783	671	587	522	470	427	391
D 18.1	W 18.1	0.480	0.181		0.615	116.77	12.19	116.8	0.915	2335	1557	1168	934	778	667	584	519	467	425	389
<b>D 18</b>	<b>W 18</b>	<b>0.479</b>	<b>0.180</b>		<b>0.612</b>	<b>116.13</b>	<b>12.16</b>	<b>116.1</b>	<b>0.910</b>	<b>2323</b>	<b>1548</b>	<b>1161</b>	<b>929</b>	<b>774</b>	<b>664</b>	<b>581</b>	<b>516</b>	<b>465</b>	<b>422</b>	<b>387</b>
D 17.9	W 17.9	0.477	0.179		0.609	115.48	12.13	115.5	0.905	2310	1540	1155	924	770	660	577	513	462	420	385
D 17.8	W 17.8	0.476	0.178		0.605	114.84	12.09	114.8	0.900	2297	1531	1148	919	766	656	574	510	459	418	383
D 17.7	W 17.7	0.475	0.177		0.602	114.19	12.06	114.2	0.895	2284	1523	1142	914	761	653	571	508	457	415	381
D 17.6	W 17.6	0.473	0.176		0.598	113.55	12.02	113.5	0.890	2271	1514	1135	908	757	649	568	505	454	413	378
D 17.5	W 17.5	0.472	0.175		0.595	112.90	11.99	112.9	0.885	2258	1505	1129	903	753	645	565	502	452	411	376
D 17.4	W 17.4	0.471	0.174		0.592	112.26	11.96	112.3	0.880	2245	1497	1123	898	748	641	561	499	449	408	374
D 17.3	W 17.3	0.469	0.173		0.588	111.61	11.92	111.6	0.875	2232	1488	1116	893	744	638	558	496	446	406	372
D 17.2	W 17.2	0.468	0.172		0.585	110.97	11.89	111.0	0.870	2219	1480	1110	888	740	634	555	493	444	404	370
D 17.1	W 17.1	0.467	0.171		0.581	110.32	11.85	110.3	0.865	2206	1471	1103	883	735	630	552	490	441	401	368



WIRE SIZE										AREA										
IMPERIAL UNITS					METRIC UNITS					mm <sup>2</sup> per linear metre										
DEFORMED WIRE (D)	SMOOTH WIRE (W)	DIAM. (in.)	AREA (in <sup>2</sup> )	EQUAL TO	WEIGHT (lb / lin. ft)	MW or MD	DIAM. (mm)	AREA (mm <sup>2</sup> )	WEIGHT (kg / lin. m)	METRIC SPACING – CENTER TO CENTER										
										50	75	100	125	150	175	200	225	250	275	300
▶ <b>D 17</b>	<b>W 17</b>	<b>0.465</b>	<b>0.170</b>		<b>0.578</b>	<b>109.68</b>	<b>11.82</b>	<b>109.7</b>	<b>0.860</b>	<b>2194</b>	<b>1462</b>	<b>1097</b>	<b>877</b>	<b>731</b>	<b>627</b>	<b>548</b>	<b>487</b>	<b>439</b>	<b>399</b>	<b>366</b>
D 16.9	W 16.9	0.464	0.169	gauge 6/0	0.575	109.03	11.78	109.0	0.855	2181	1454	1090	872	727	623	545	485	436	396	363
D 16.8	W 16.8	0.462	0.168		0.571	108.39	11.75	108.4	0.849	2168	1445	1084	867	723	619	542	482	434	394	361
D 16.7	W 16.7	0.461	0.167		0.568	107.74	11.71	107.7	0.844	2155	1437	1077	862	718	616	539	479	431	392	359
D 16.6	W 16.6	0.460	0.166		0.564	107.10	11.68	107.1	0.839	2142	1428	1071	857	714	612	535	476	428	389	357
D 16.5	W 16.5	0.458	0.165		0.561	106.45	11.64	106.5	0.834	2129	1419	1065	852	710	608	532	473	426	387	355
D 16.4	W 16.4	0.457	0.164		0.558	105.81	11.61	105.8	0.829	2116	1411	1058	846	705	605	529	470	423	385	353
D 16.3	W 16.3	0.456	0.163		0.554	105.16	11.57	105.2	0.824	2103	1402	1052	841	701	601	526	467	421	382	351
D 16.2	W 16.2	0.454	0.162	0.551	104.52	11.54	104.5	0.819	2090	1394	1045	836	697	597	523	465	418	380	348	
D 16.1	W 16.1	0.453	0.161	0.547	103.87	11.50	103.9	0.814	2077	1385	1039	831	692	594	519	462	415	378	346	
▶ <b>D 16</b>	<b>W 16</b>	<b>0.451</b>	<b>0.160</b>		<b>0.544</b>	<b>103.23</b>	<b>11.46</b>	<b>103.2</b>	<b>0.809</b>	<b>2065</b>	<b>1376</b>	<b>1032</b>	<b>826</b>	<b>688</b>	<b>590</b>	<b>516</b>	<b>459</b>	<b>413</b>	<b>375</b>	<b>344</b>
D 15.9	W 15.9	0.450	0.159	10M rebar	0.541	102.58	11.43	102.6	0.804	2052	1368	1026	821	684	586	513	456	410	373	342
D 15.8	W 15.8	0.449	0.158		0.537	101.94	11.39	101.9	0.799	2039	1359	1019	815	680	582	510	453	408	371	340
D 15.7	W 15.7	0.447	0.157		0.534	101.29	11.36	101.3	0.794	2026	1351	1013	810	675	579	506	450	405	368	338
D 15.6	W 15.6	0.446	0.156		0.530	100.64	11.32	100.6	0.789	2013	1342	1006	805	671	575	503	447	403	366	335
D 15.5	W 15.5	0.444	0.155		0.527	100.00	11.28	100.0	0.784	2000	1333	1000	800	667	571	500	444	400	364	333
D 15.4	W 15.4	0.443	0.154		0.524	99.35	11.25	99.4	0.779	1987	1325	994	795	662	568	497	442	397	361	331
D 15.3	W 15.3	0.441	0.153		0.520	98.71	11.21	98.7	0.774	1974	1316	987	790	658	564	494	439	395	359	329
D 15.2	W 15.2	0.440	0.152	0.517	98.06	11.17	98.1	0.769	1961	1308	981	785	654	560	490	436	392	357	327	
D 15.1	W 15.1	0.438	0.151	0.513	97.42	11.14	97.4	0.764	1948	1299	974	779	649	557	487	433	390	354	325	
▶ <b>D 15</b>	<b>W 15</b>	<b>0.437</b>	<b>0.150</b>		<b>0.510</b>	<b>96.77</b>	<b>11.10</b>	<b>96.8</b>	<b>0.758</b>	<b>1935</b>	<b>1290</b>	<b>968</b>	<b>774</b>	<b>645</b>	<b>553</b>	<b>484</b>	<b>430</b>	<b>387</b>	<b>352</b>	<b>323</b>
D 14.9	W 14.9	0.436	0.149	gauge 5/0	0.507	96.13	11.06	96.1	0.753	1923	1282	961	769	641	549	481	427	385	350	320
D 14.8	W 14.8	0.434	0.148		0.503	95.48	11.03	95.5	0.748	1910	1273	955	764	637	546	477	424	382	347	318
D 14.7	W 14.7	0.433	0.147		0.500	94.84	10.99	94.8	0.743	1897	1265	948	759	632	542	474	422	379	345	316
D 14.6	W 14.6	0.431	0.146		0.496	94.19	10.95	94.2	0.738	1884	1256	942	754	628	538	471	419	377	343	314
D 14.5	W 14.5	0.430	0.145		0.493	93.55	10.91	93.5	0.733	1871	1247	935	748	624	535	468	416	374	340	312
D 14.4	W 14.4	0.428	0.144		0.490	92.90	10.88	92.9	0.728	1858	1239	929	743	619	531	465	413	372	338	310
D 14.3	W 14.3	0.427	0.143		0.486	92.26	10.84	92.3	0.723	1845	1230	923	738	615	527	461	410	369	335	308
D 14.2	W 14.2	0.425	0.142	0.483	91.61	10.80	91.6	0.718	1832	1222	916	733	611	524	458	407	366	333	305	
D 14.1	W 14.1	0.424	0.141	0.479	90.97	10.76	91.0	0.713	1819	1213	910	728	606	520	455	404	364	331	303	
▶ <b>D 14</b>	<b>W 14</b>	<b>0.422</b>	<b>0.140</b>		<b>0.476</b>	<b>90.32</b>	<b>10.72</b>	<b>90.3</b>	<b>0.708</b>	<b>1806</b>	<b>1204</b>	<b>903</b>	<b>723</b>	<b>602</b>	<b>516</b>	<b>452</b>	<b>401</b>	<b>361</b>	<b>328</b>	<b>301</b>
D 13.9	W 13.9	0.421	0.139		0.473	89.68	10.69	89.7	0.703	1794	1196	897	717	598	512	448	399	359	326	299
D 13.8	W 13.8	0.419	0.138		0.469	89.03	10.65	89.0	0.698	1781	1187	890	712	594	509	445	396	356	324	297
D 13.7	W 13.7	0.418	0.137		0.466	88.39	10.61	88.4	0.693	1768	1178	884	707	589	505	442	393	354	321	295
D 13.6	W 13.6	0.416	0.136		0.462	87.74	10.57	87.7	0.688	1755	1170	877	702	585	501	439	390	351	319	292
D 13.5	W 13.5	0.415	0.135		0.459	87.10	10.53	87.1	0.683	1742	1161	871	697	581	498	435	387	348	317	290
D 13.4	W 13.4	0.413	0.134		0.456	86.45	10.49	86.5	0.678	1729	1153	865	692	576	494	432	384	346	314	288
D 13.3	W 13.3	0.412	0.133		0.452	85.81	10.45	85.8	0.673	1716	1144	858	686	572	490	429	381	343	312	286
D 13.2	W 13.2	0.410	0.132	0.449	85.16	10.41	85.2	0.667	1703	1135	852	681	568	487	426	378	341	310	284	
D 13.1	W 13.1	0.408	0.131	0.445	84.52	10.37	84.5	0.662	1690	1127	845	676	563	483	423	376	338	307	282	
▶ <b>D 13</b>	<b>W 13</b>	<b>0.407</b>	<b>0.130</b>		<b>0.442</b>	<b>83.87</b>	<b>10.33</b>	<b>83.9</b>	<b>0.657</b>	<b>1677</b>	<b>1118</b>	<b>839</b>	<b>671</b>	<b>559</b>	<b>479</b>	<b>419</b>	<b>373</b>	<b>335</b>	<b>305</b>	<b>280</b>
D 12.9	W 12.9	0.405	0.129		0.439	83.23	10.29	83.2	0.652	1665	1110	832	666	555	476	416	370	333	303	277
D 12.8	W 12.8	0.404	0.128		0.435	82.58	10.25	82.6	0.647	1652	1101	826	661	551	472	413	367	330	300	275



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