A-1-A Steel

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Size 1/2 x 1/2 x 1/8 5/8 x 5/8 x 1/8 3/4 x 3/4 x 1/8 1 x 1 x 1/8 1 x 1 x 3/16	ARS HOT ROLLED ANGLES WILFE Size 38 2 2 2 x 1/8 48 2 x 2 x 2/16 59 2 x 2 x 1/4 80 2 x 2 x 2 x 1/16 1.16 2 x 2 x 3 x 3	Wt./Ft. 1.65 2.44 3.19 3.92 4.70	2 2.55 2-1/4 2.87 2-1/2 3.19 2-3/4 3.51 3 3.83 3-1/4 4.14 3-1/2 4.46 4 5.10 4-1/2 5.74 5 6.38	FLATS (Cont 1-3/4 3.72 2 4.25 2-1/4 4.78 2-1/2 5.31 2-3/4 5.84 3 6.38 3-1/4 6.91 3-1/2 7.44 4 8.50 4-1/2 9.56	4 13.60 4-1/2 15.30 5 17.00 5-1/2 18.70 6 20.40 7 23.80 8 27.20 1-1/4X 1-1/4 6.38 1-3/4 7.44	1-1/8 1-3/16 1-1/4 Thickness 16 ga. 14 ga. 12 ga. 1/8"	45.9 48.45 51.0 FLOOR PL Wt./Sq. Ft. 3.00 3.75 5.25 6.15	S (Cont'd) 3-3/4 4 ATE Thickness 1/4" 5/16 3/8 1/2	153.0 163.2 Wt./Sq. Ft. 11.25 13.80 16.35 21.45	15 Depth of Channel Inches	25.0 30.0 33.9 40.00 50.00	0.5 0.7 Ringer Channel Thickness	387 510 400 520 716 S	3.047 3.170 3.400 3.520 3.716	14x6-3/4 14x8 Section	30 34 38 43 48 53	FLANGE BEAN 13.86 14.00 14.12 13.68 13.81 13.94 TEES (Availab	6.733 6.750 6.776 8.000 8.031 8.062	270 287 313 308 339 370	STRUCTURAL Size 0. J. Wall 3/4x120 1x.049 1x.072 1x.120 1-1/4x.083 1-1/4x.120	
1 x 1 x 1/4 1-1/4 x 1-1/4 x 1/8 1-1/4 x 1-1/4 x 3/16 1-1/4 x 1-1/4 x 1/4 1-1/2 x 1-1/2 x 1/8 1-1/2 x 1-1/2 x 1/8 1-1/2 x 1-1/2 x 1/8 1-3/4 x 1-3/4 x 1/3 2 x 1-1/4 x 3/16 2 x 1-1/4 x 1/8 2 x 1-1/4 x 1/8 2 x 1-1/2 x 1/8 2 x 1-1/2 x 1/8	1.92 2-1/2 x 2 x 3/16 1.23 2-1/2 x 2 x 1/4 1.80 2-1/2 x 2 x 5/16 2.34 2-1/2 x 2 x 3/8 1.44 2-1/2 x 2-1/2 x 3/16	2.44 3.19 3.92 2.75 3.62 4.50 5.30 3.07 4.10 5.00 5.90 7.70	5-1/2 7.01 6 7.65 7 8.93 8 10.20 1/ZX 5/8 1.06 3/4 1.28 7/8 1.49 1 1.70 1-1/8 1.91 1-1/4 2.13 1-3/8 2.34 1-1/2 2.55 1-5/8 2.76	5-11/2 10.63 5-11/2 11.69 6 12.75 7 14.88 8 17.00 3/4X 7/8 2.23 1 2.55 1-11/8 2.87 1-11/8 3.19 1-3/8 3.51 1-11/2 3.83 3.51 1-11/2 4.44 1-3/4 4.46 2 5.10	2 8.50 2-1/4 9.56 2-1/2 10.63 2-3/4 11.69 3-1/4 13.81 3-1/4 13.81 4 17.00 4-1/2 19.13 5 21.25 5-1/2 23.38 6 25.50 8 34.00 1-1/2X 1-3/8 8.93 2 10.20	3/16 Size in Inches 1/4X10 11 11-1/2 12 3/8-10 12 14	8.70 UNIVERSAL Wt./Ft. 8.5 9.35 9.775 10.2 12.75 15.3 17.85	MILL Size in Inches 1/2x10 12 5/8x10 12 14 3/4x10 12 1x10 12	Wt./Ft. 17.0 20.4 21.25 25.5 29.75 25.5 30.6 34.0 40.8	Depth of Beams/Inches 3	8.5 6.5 8.4 10.6 Wt./F 5.7 7.5 7.7 9.5 10.0	0.180 0.150 0.170 0.190 I BEAMS Thickness of Web 0.170 0.349 0.190 0.326 0.210	1.875 1.125 1.500 1.500 1.500 2.330 2.509 2.660 2.796 3.000		Size in Inches 14X10 14X14-1/2 16x 5-1/2 16x7	Wt./Ft. 61 68 74 82 90 99 109 120 26 31 36 40	Depth of Section 13.91 14.06 14.19 14.31 14.02 14.16 14.32 14.48 15.65 15.84 15.84 16.00 16.12	Width of Flange 10.000 10.040 10.072 10.130 14.565 14.665 14.670 5.500 5.525 6.992 7.000 7.039	Thickness of Web .378 .418 .450 .510 .440 .485 .525 .590 .250 .275 .299 .307 .346	1-1/2x.083 1-1/2x.188 2x.125 2x.1875 2x.250 2-1/2x.125 2-1/2x.125 3x.125 3x.1875 3x.250 3-1/2x.125 3x.125 3x.125 3x.125 3x.125 3x.125 3x.125 3x.125 3x.125 3x.125 3x.125	1.60 221 3.35 3.120 4.490 5.710 3.990 5.750 7.410 4.830 7.040 9.110 5.680 8.300 10.81
Size 1 x 3/8 x 1/8 1 x 1/2 x 1/8 1-1/4 x 1/2 x 1/8 1-1/2 x 1/2 x 1/8 1-1/2 x 9/16 x 3/16 1-1/2 x 3/4 x 1/8 1-1/2 x 3/4 x 1/8	TEES	Wt./Ft. 1.55 1.34 1.76 2.18 1.78 2.57 2.27	2 3,40 2-1/4 3,83 2-1/2 4,25 2-3/4 4,68 3 5,10 3-1/4 5,53 3-1/2 5,95 3-3/4 6,375 4 6,80 4-1/2 7,65 5 8,50 5-1/2 9,35	2-1/4 5.74 2-1/2 6.38 2-3/4 7.01 3 7.65 3-1/4 8.29 4 10.20 4-1/2 11.48 5 12.75 5-1/2 14.03 6 15.30 7 17.85	2-1/4 11.48 2-1/2 12.75 2-3/4 14.03 3 15.30 3-1/4 16.57 3-1/2 17.85 4 20.40 4-1/2 22.95 5 25.50 6 30.60 8 40.80 2X	3X2x3/16 1/4 5/16 3/8 1/2 3x2-1/2x1/4	STRUCTU A.S.T.M. ANGLE 3.07 4.1 5.0 5.9 7.7 4.5	5x3-1/2x1/4 5/16 3/8 1/2 5/8 3/4	7.0 8.7 10.4 13.6 16.8 19.8	6 7 8 10 12	14.75 12.5 17.25 15.3 20.0 18.4 23.0 25.4 35.0 31.8 35.0 40.8	0.230	3.284 3.330 3.565 3.660 3.860 4.000 4.171 4.660 4.944 5.000 5.078 5.250 5.477		16x 8-1/2 16x11-1/2 18x6 18x7-1/2	50 57 67 77 77 89 100 35 40 46 50 55 60	16.25 16.43 16.33 16.52 16.75 15.97 17.71 17.90 18.06 18.00 18.12 18.25	7.073 7.120 10.235 10.295 10.365 10.425 6.000 6.018 6.060 7.500 7.532 7.558	.380 .430 .395 .455 .525 .585 .298 .316 .360 .358 .390 .416	3-1/2x/250 4x 125 4x 1875 4x 250 4x 3-125 4x 3-75 4x 500 5x 1875 5x 250 5x 3-125 5x 3-75 5x 500 6x 1875	6530 9.590 12.51 15.33 18.02 22.98 12.14 15.91 19.58 23.14 29.78
Fiange, Inches 1-1/2 1-1/2 1-1/2 1-3/4 1-3/4 2 2 2 2-1/4 2-1/2 2-1/2 2-1/2 2-1/2	Stem, Inches Thickness 1-1/2 3/16 1-1/2 1/4 1-3/4 3/16 1-3/4 1/4 1-1/4 2 1/4 2 1/4 2-1/4 1/4 2-1/2 1/4 2-1/2 5/16 2-1/2 5/16 2-1/2 3/6	Wt./Ft. 1.90 2.43 2.26 2.90 3.10 3.62 4.30 4.10 4.60 5.50 6.40	6 10.20 7 11.90 8 13.60 5/8X 3/4 1.59 7/6 1.86 1 2.13 1-1/8 2.39 1-1/4 2.66 1-3/8 2.92 1-1/2 3.19 1-5/8 3.45	8 20,40 1X 1-11/4 4.25 1-11/2 5.10 1-3/4 5.95 2 6.80 2-11/4 7.65 2-11/2 8.50 2-3/4 9.35 3 10.20 3-11/4 11.05 3-11/2 11.90	2-1/4 15.30 2-1/2 17.00 2-3/4 18.70 3 -1/2 23.80 4 27.20 4-1/2 30.60 5 34.00 5-1/2 37.40 6 40.80 8 54.40	5/16 3/8 1/2 3x3x3/16 1/4 5/16 3/8 1/2 3-1/2x2-1/2x1/4 5/16	5.6 6.6 8.5 3.71 4.9 6.1 7.2 9.4 4.9	5x5x5/16 3/8 1/2 5/8 3/4 6x3-1/2x1/4 5/16 3/8 1/2 6x4x1/4 5/16	10.3 12.3 16.2 20.0 23.6 7.9 9.8 11.7 15.3	15 18 20 24 Section Size in	42.9 50.0 54.7 70.0 65.4 79.9 100.0 105.9	0.410 0.550 0.460 0.711 0.500 0.500 0.747	5.500 5.640 6.000 6.251 6.250 7.000 7.247 7.875	'hickness	18x8-3/4 18x11 21x6-1/2 21x8-1/4	64 71 76 86 97 106 119 44 50 57 62 68 73	17.87 18.47 18.21 18.59 18.73 18.97 20.66 20.83 21.06 20.99 21.13 21.24	8.715 7.635 11.035 11.090 11.145 11.200 11.265 6.500 6.530 6.555 8.240 8.270 8.295	.403 .495 .425 .480 .535 .590 .655 .348 .380 .405 .400 .430	6x.250 6x.3125 6x.375 6x.500 STRUCTURAL REC Size 0.0. Wall 2-1/2x1-1/2x.1875 3x1-1/2x.1875 3x2-1/2x.1875 3x2-1/2x.1875 3x2x.1875 3x2x.1875 3x2x.250	19.31 23.83 28.22 36.72
Size in Inches 3/16 1/4 5/16 3/8 7/16 1/2 9/16 5/8 11/16 3/4 13/16 7/8 15/16 15/16 15/16 15/16 15/16 15/16 15/16 15/16 15/16 15/16 15/16 15/16 15/16 15/16	ROUNDS Size in Inches	WI./Ft. 2.67 3.38 3.77 4.17 5.05 5.52 6.01 7.05 8.18 9.39 10.68 24.03	Size in Inches	HOT ROLLED STRIII WILFL. 1876 inches 1877	Wt./Ft.	1/2 3-1/2x3x1/4 5/16 3/8 1/2 3-1/2x3-1/2x1/4 5/16 3/8 1/2 4x3x1/4 5/16 3/8 1/2 5/8	9.4 5.4 6.6 7.9 10.2 5.8 7.2 8.5 11.1 5.8 7.2 8.5 11.1 13.6	3/8 1/2 5/8 3/4 7/8 6x6x5/16 3/8 1/2 5/8 1/2 5/8 1 7/8 1 7/4x3/8 1/2	12.3 16.2 20.0 23.6 27.2 12.5 14.9 19.6 24.2 28.7 33.1 37.4	1nches 4x4 5x5 6x4 6x6 8x4 8x5-1/4	Wt./Ft. 13 16 18 19 9 12 16 15 20 25 10 13 15 18 21	of Section 4.16 5.00 5.00 5.15 5.90 6.00 6.25 5.99 6.20 6.38 7.90 8.10 8.12 8.14 8.28	of Flange 4.060 5.000 5.003 5.003 5.030 3.940 4.000 4.030 5.990 6.020 6.080 4.000 4.015 5.250 5.270	280 240 316 240 170 230 260 260 260 265 455 170 230 245 230 245 230 245	21x12 24x7 24x9 24x12	83 93 111 122 132 147 55 62 68 76 84 94 104 117 120 131	21,43 21,62 21,51 21,68 21,83 22,06 23,55 23,74 23,71 24,09 24,29 24,06 24,26 24,31 24,48 26,69	8.355 8.420 12.340 12.390 12.440 12.510 7.000 7.040 8.961 9.061 12.750 12.800 12.088 12.855 9.963	.515 .580 .550 .600 .650 .720 .396 .430 .416 .440 .470 .516 .500 .550	4/22.125 4/22.1875 4/22.1875 4/23.250 4/33.125 4/33.1875 5/22.250 5/32.1875 5/32.250 5/33.1875 5/33.250 5/33.375 5/33.500 6/22.1875 6/22.250 6/33.1875	4 830 7.040 9.110 5.680 8.300 10.81 8.300 10.81 9.590 12.51 15.33 18.02 20.88 9.590 12.51 10.84
Size in Inches 5/16 3/8 7/16 112 9/16 5/8 11/16 3/4 7/8 1	SQUARES Size in Inches 0.332 1-1/2 0.478 1-59 0.0551 1-344 0.0551 1-7/8 1.08 2 1.33 2-1/4 1.61 2-1/2 1.91 2-3/4 2.60 3 3.40 3-1/4 3.	Wi./Ft. 7.65 8.98 10.41 11.95 13.60 17.21 21.25 25.71 30.60 35.91	2-1/2 2-3/4 3 3-1/2 4-1/2 5 5-1/2 6 1875 (3/16) 3/8 1/2 5/8 3/4	1.06 4 1.17 4-1/2 1.28 5 1.49 5-12 1.70 6 1.91 2.13 2.34 2.55 0.239 0.319 0.398 0.478	2.55 2.87 3.19 3.51 3.83	4x3-1/2x1/4 5/16 3/8 1/2 4x4x1/4 5/16 3/8 1/2 5/8 3/4 5x3x1/4	6.2 7.7 9.1 11.9 6.6 8.2 9.8 12.8 15.7 18.5	8x4x1/2 5/8 3/4 1 8x6x1/2 5/8 3/4 1 8x8x1/2 5/8 3/4	19.6 24.2 28.7 37.4 23.0 28.5 33.8 44.2 26.4 32.7 38.9	8x6-1/2 8x8 10x4 10x5-3/4	24 28 31 35 40 48 86 67 12 15 17 19 22 26	7,93 8.00 8.12 8.25 8.50 8.75 9.00 10.12 10.25 10.17 10.33	6.500 6.540 8.000 8.027 8.027 8.117 8.222 8.287 3.960 4.000 4.010 4.020 5.750 5.770	245 285 288 315 365 405 510 575 .190 230 240 250 240 260	27x14 30x10-1/2 33x11-1/2 36x12	94 102 114 146 161 178 99 108 118 130 135	26.91 27.07 27.28 27.38 27.59 17.81 29.64 29.82 32.86 33.10 35.55 35.84	9,900 10,018 10,070 13,965 14,020 14,085 10,458 10,484 11,484 11,510 11,945 11,972	.490 .518 .570 .605 .660 .725 .522 .548 .554 .580 .598	6x3x.250 6x3x.375 6x3x.500 6x4x.1875 6x4x.250 6x4x.3125 6x4x.375 6x4x.500 FABRIC REINFORCII ASTM A-615 GRA	NG BARS DES 40 & 60
1-1/8 1-1/4 1-3/8	4.30 3-1/2 41.6 5.31 3-3/4 47.8 6.43 4 54.4 FLATS has 3/16 and lighter – See Hot Rolled Strip.		7/8 0.558 HOT ROLLED SHEETS Thickness, Inches		HEETS	5/16 3/8 1/2 Depth of Channel	8.2 1 9.8 12.8 STANDARD CHANNELS		51.0 Flange Width/	10x8 3 3 10x10 4 5	30 33 39 45 49 54 60	10.47 9.75 9.94 10.12 10.00 10.12 10.25	5.810 7.964 7.799 8.022 10.000 10.028 10.075	.300 .292 .318 .350 .340 .368 .415	Depth of Channel/ Inches 3 4 6	Wt./F 7.1 13.8 12.0	it.	hickness of Web 0.312 .500 .310	Flange Width Inches 1.938 2.500 2.497	Bar Dia. in Mt./Ft. 2* 0.250 0.167 3 0.375 0.376 4 0.500 0.668 5 0.625 1.043 6 0.750 1.502	Bar No. Dia. in Inches Wt., 0 7 0.875 2.0 8 1.000 2.6 9 1.128 3.4 10 1.270 4.3 11 1.410 5.3
Size in Inches Wt.,Ft. 1/4X. 1/4X. 1/4X. 1/2 0.425 5/8 0.531 3/4 0.638 7/8 0.744 1 0.850 1-1/4 0.956 1-1/4 1.06 1-3/8 1.17 1-1/2 1.28 1-5/8 1.38 1.34/ 1.49 2 1.70 2-1/4 1.91	Size in Inches WI,FL Inches WI,FL Inches WI,FL Inches Inc	Wt./Ft. 3.19 3.45 3.72 4.25 4.78 5.31 5.84 6.38 7.44 8.50 0.638 0.797 0.956 1.12	7 1793 18 8 1644 11 10 1345 14 11 1196 11 12 1046 1.1 14 0.0747 0.0 16 0.698 0.6 PLATES Thickness 3/16° 7,65 1/4 10.2 5/16 12.75 3/8 15.3		dents WI_Sq. F	4 5 6	Wt./Fl. 4.1 5.0 6.0 5.4 7.25 6.7 9.0 8.2 10.5 13.0 9.8 12.25 14.75 11.5 13.75 18.75	of Web 0.170 0.258 0.356 0.180 0.320 0.190 0.325 0.200 0.314 0.437 0.210 0.314 0.419 0.203 0.303 0.487	Inches 1.410 1.498 1.596 1.580 1.720 1.750 1.885 1.920 2.034 2.157 2.090 2.194 2.299 2.260 2.343 2.527 2.430		68 77 88 88 100 112 14 16 19 22 26 30 35 40 45 50 53 53 65	10.40 10.80 10.84 11.12 11.38 11.91 11.99 12.16 12.31 12.22 12.34 12.50 11.94 12.06 12.19 12.06 12.19	10.130 10.190 10.265 10.345 10.415 3.970 4.010 4.030 6.490 6.520 6.560 8.000 8.000 8.042 8.077 10.000 10.014	.470 .530 .605 .755 .200 .200 .240 .260 .230 .294 .336 .350 .294 .336 .357 .359 .390	7 8 9 10 12 13 18	15.3 16.3 18.0 17.6 19.1 18.7 20.0 21.4 22.0 25.4 22.0 28.5 30.9 32.9 31.8 42.7 45.8		340 375 375 375 352 353 400 375 450 313 313 425 450 500 375 450 500	3.500 3.000 3.504 3.000 3.452 2.978 3.452 3.450 3.500 3.375 3.950 3.450 3.500 4.000 4.000	*Smooth REINFORCING BAR SUPPORT META Copp Alumir Stainl Galvan	LS er er eum
2-1/2 2.13 2-3/4 2.34 3 2.55 3-1/4 2.76 3-1/2 2.98 3-3/4 3.19 4 3.40	1-3/8 1.46 1 1-1/2 1.59 1-1/8 1-3/4 1.86 1-1/4 2 2.13 1-3/8 2-1/4 2.39 1-1/2 2-1/2 2.66 1-5/8 2-3/4 2.92 1-3/4	1.28 1.43 1.59 1.75 1.91 2.07 2.23	7/16 1/2 9/16 5/8 3/4 7/8	22.95 2- 25.5 2- 30.6 3 35.7 3-	81.6 91.8 1/2 102.0 3/4 112.2 122.4 1/4 132.6 1/2 142.8	10	15.0 20.0 15.3 20.0 25.0 30.0 20.7	0.285 0.448 0.240 0.379 0.526 0.673 0.280	2.485 2.648 2.600 2.739 2.886 3.033 2.940		72 79 85 106 120 22 26	12.25 12.38 12.50 12.89 13.12 13.72 13.89	12.040 12.080 12.105 12.220 12.320 5.000 5.025	.430 .470 .495 .610 .710 .230 .255	Section Size in Inches 6x1-7/8 7x2-1/8 8x2-1/4	Wt./Ft. 4.4 5.5 6.5	Depth of Section 6.00 7.00 8.00	Flange Width Inches 1.844 2.078 2.281	Thickness of Web .114 .126 .135	Epoxy C	

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