

## SQUARE AND RECTANGULAR MECHANICAL TUBING

OUTSIDE DIAMETER		NOMINAL WALL THICKNESS								CORNER RADIUS TOLERANCE			
Square	Rectangle	16 ga .065	15 ga .075	14 ga .083	13 ga .095	12 ga .109	11 ga .120	10 ga .134	9 ga .148	8 ga .165	Squares & Equiv. Rect.	Wall Thickness	Radius Tolerance
1 x 1		.827	.909	1.035	1.169	1.321	1.436	1.597	—	—	1/2 to 1-1/8"	22 (0.028)	1/32 to 1/16"
1-1/4 x 1-1/4		1.048	1.154	1.317	1.492	1.691	1.844	2.044	—	—	1/2 to 2"	20 (0.035)	1/32 to 1/16"
1-1/2 x 1-1/2		1.269	1.398	1.600	1.815	2.062	2.252	2.527	2.769	3.058	1/2 to 2"	18 (0.049)	3/64 to 5/64"
											1/2 to 2"	16 (0.065)	1/16 to 7/64"
	2 x 1	1.269	1.398	1.600	1.815	2.062	2.252	2.527	2.769	—	3/4 to 2"	14 (0.083)	5/64 to 1/8"
											3/4 to 2"	13 (0.095)	3/32 to 5/32"
											1 to 2"	12 (0.109)	1/8 to 13/64"
											1 to 2"	11 (0.120)	1/8 to 7/32"
1-3/4 x 1-3/4	2 x 1-1/2	1.490	1.643	1.882	2.138	2.433	2.660	2.939	3.224	—			
2 x 2		1.710	1.840	2.160	2.460	2.800	3.070	3.240	3.540	3.88			
	3 x 1 & 2-1/2 x 1-1/2	1.710	1.840	2.160	2.460	2.800	3.070	3.240	3.540	—			
	3 x 1-1/2	1.890	2.090	2.390	2.700	3.070	3.480	3.700	4.040	—			
2-1/8 x 2-1/8		1.78	1.96	2.24	2.54	2.88	3.26	3.47	3.79	—			
2-1/2 x 2-1/2		2.12	2.33	2.67	3.03	3.44	3.90	4.15	4.54	5.239			
	3 x 2	2.12	2.33	2.67	3.03	3.44	3.90	4.15	4.54	5.239			
3 x 3				3.23	3.67	4.18	4.75	5.07	5.55	6.362			
	4 x 2			3.23	3.67	4.18	4.75	5.07	5.55	6.362			

Weight in Pounds Per Foot

TOLERANCE Largest Outside Dimension	Tol.	CUTTING TOLERANCES Length	Tol.
+5/8 to 1-1/8	±.005	3+ to 12'	±3/32
+1-1/8 to 1-1/2	±.006	12+ to 20'	±1/8
+1-1/2 to 2	±.008	20+ to 30'	±3/16
+2 to 3	±.010	30+ to 40'	±5/16

SQUARENESS Max. = Widest Side (inches) x .006"	WALL TOLERANCE ±10% of Nominal Wall Thickness
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CONVEXITY & CONCAVITY Widest Side	STRAIGHTNESS Tol. Max. = 1/16" in 3'
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2-1/2 & under	±.010
+2-1/2 to 4	±.015

WALL THICKNESS TOLERANCE				
GA	Plus	Minus	Plus	Minus
16	.004	.010	.003	.011
15	.004	.010	.003	.011
14	.005	.011	.004	.012
13	.005	.011	.004	.012
12	.005	.011	.004	.012
11	.005	.011	.004	.012
10	.005	.011	.004	.012
9	.006	.012	.005	.013

## ROUND MECHANICAL TUBING

OUTSIDE DIAMETER		NOMINAL WALL THICKNESS							
Decimal	Fraction	16 ga .064	15 ga .072	14 ga .083	13 ga .095	12 ga .109	11 ga .120	10 ga .134	9 ga .148
1.250	1-1/4	.8227	.9059	1.035	1.172	1.328	1.448	1.555	—
1.660		1.107	1.221	1.398	1.588	1.806	1.974	2.184	2.390
1.900		1.274	1.406	1.611	1.831	2.085	2.281	2.527	2.769
2.375	2-3/8	1.604	1.771	2.032	2.313	2.638	2.890	3.207	3.520

Weight in Pounds Per Foot

### OUTSIDE DIMENSIONAL TOLERANCE

O.D. Range	GA	Tol.In.
3/4 to 1-1/8" incl.	16-11	+ .00351
over 1-1/8" to 2" incl.	16-10	+ .005
over 2 to 2-1/2"	16-7	+ .006

# MECHANICAL BUNDLE CHART

OUTSIDE DIAMETER		20' Bundles					24' Bundles				
		14 Ga. 0.083	12 Ga. 0.109	11 Ga. 0.120	10 Ga. 0.134	9 Ga. 0.148	14 Ga. 0.083	12 Ga. 0.109	11 Ga. 0.120	10 Ga. 0.134	9 Ga. 0.148
Square	Rectangle										
1 x 1		104	104	104			104	104	104		
		2153	2748	2987			2583	3297	3584		
Bundle Configuration →		8x13	8x13	8x13			8x13	8x13	8x13		
1-1/4 x 1-1/4		104	104	104			104	104	104		
		2739	3517	3836			3287	4221	4603		
Bundle Configuration →		8x13	8x13	8x13			8x13	8x13	8x13		
1-1/2 x 1-1/2		100	100	50	50	50	100	100	50	50	50
		3200	4124	2252	2490	2769	3840	4949	2702	2988	3323
Bundle Configuration →		10x10	10x10	5x10	5x10	5x10	10x10	10x10	5x10	5x10	5x10
2 x 1		100	50	50	50	50	100	50	50	50	50
		3200	2062	2252	2490	2769	3840	2474	2702	2988	3323
Bundle Configuration →		10x10	10x5	10x5	10x5	10x5	10x10	10x5	10x5	10x5	10x5
1-3/4 x 1-3/4		50	50	50	50	50	50	50	50	50	50
		1882	2433	2660	2939	3224	2258	2920	3192	3527	3869
Bundle Configuration →		5x10	5x10	5x10	5x10	5x10	5x10	5x10	5x10	5x10	5x10
2 x 1-1/2		50	50	50	50	50	50	50	50	50	50
		1882	2433	2660	2939	3224	2258	2920	3192	3527	3869
Bundle Configuration →		5x10	5x10	5x10	5x10	5x10	5x10	5x10	5x10	5x10	5x10
2 x 2		50	50	50	50	50	50	50	50	50	50
		2164	2803	3070	3401	3540	2597	3364	3684	4081	4248
Bundle Configuration →		5x10	5x10	5x10	5x10	5x10	5x10	5x10	5x10	5x10	5x10
3 x 1		60	60	60	60	60	60	60	60	60	60
		2597	3364	3684	4081	4248	3116	4036	4421	4897	5098
Bundle Configuration →		12x5	12x5	12x5	12x5	12x5	12x5	12x5	12x5	12x5	12x5
2-1/2 x 1-1/2		60	60	60	60	60	60	60	60	60	60
		2597	3364	3684	4081	4248	3110	4032	4421	4897	5098
Bundle Configuration →		10x6	10x6	10x6	10x6	10x6	10x6	10x6	10x6	10x6	10x6
3 x 1-1/2		50	50	50	50	50	50	50	50	50	50
		2446	3174	3480	3700	4040	2935	3809	4176	4440	4848
Bundle Configuration →		10x5	10x5	10x5	10x5	10x5	10x5	10x5	10x5	10x5	10x5
2-1/2 x 2-1/2		48	48	48	48	48	48	48	48	48	48
		2619	3402	3744	3984	4358	3143	4083	4493	4781	5230
Bundle Configuration →		6x8	6x8	6x8	6x8	6x8	6x8	6x8	6x8	6x8	6x8
3 x 2		49	49	49	49	49	49	49	49	49	49
		2673	3473	3822	4067	4449	3208	4168	4586	4880	5339
Bundle Configuration →		7x7	7x7	7x7	7x7	7x7	7x7	7x7	7x7	7x7	7x7
3 x 3		42	42	42	42	42	42	42	42	42	42
		2741	3511	3990	4259	4662	3289	4213	4788	5111	5594
Bundle Configuration →		6x7	6x7	6x7	6x7	6x7	6x7	6x7	6x7	6x7	6x7
4 x 2		42	42	42	42	42	42	42	42	42	42
		2741	3511	3990	4259	4662	3289	4213	4788	5111	5594
Bundle Configuration →		7x6	7x6	7x6	7x6	7x6	7x6	7x6	7x6	7x6	7x6

**BUNDLE CHART    H X W**  
**H = PIECES/VERTICAL ROW**  
**W = PIECES/HORIZONTAL ROW**