

خرید آنلاین بازار فولاد

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اولین وب سایت فروش محصولات و خدمات استیل

☎ 021 54082

جدول اشتتال نبشی بال غیر مساوی

a X b X s mm	r ₁ mm	r ₂ mm	F cm ²	G kg/m	e _x cm	e _y cm	tan α	J _x cm ⁴	W _x cm ³	i _x cm	J _y cm ⁴	W _y cm ³	i _y cm	J _ξ cm ⁴	i _ξ cm	J _η cm ⁴	i _η cm	a ₁ mm
	3.5	2.0	1.42	1.11	0.99	0.50	0.431	1.25	0.62	0.94	0.44	0.29	0.56	1.43	1.00	0.25	0.42	5.2
30 X 20 X 4	3.5	2.0	1.85	1.45	1.03	0.54	0.423	1.59	0.81	0.93	0.55	0.38	0.55	1.81	0.99	0.33	0.42	4.2
40 X 20 X 3	3.5	2.0	1.72	1.35	1.43	0.44	0.259	2.79	1.08	1.27	0.47	0.30	0.52	2.96	1.31	0.30	0.42	14.6
40 X 20 X 4	3.5	2.0	2.25	1.77	1.47	0.48	0.252	3.59	1.42	1.26	0.60	0.39	0.52	3.79	1.30	0.39	0.42	13.8
45 X 30 X 3	4.5	2.0	2.19	1.72	1.43	0.70	0.436	4.47	1.46	1.43	1.60	0.70	0.86	5.15	1.53	0.93	0.65	9.0
45 X 30 X 4	4.5	2.0	2.87	2.25	1.48	0.74	0.436	5.78	1.91	1.42	2.05	0.91	0.85	6.65	1.52	1.18	0.64	18.0
45 X 30 X 5	4.5	2.0	3.53	2.77	1.52	0.78	0.430	6.99	2.35	1.41	2.47	1.11	0.84	8.02	1.51	1.44	0.64	7.2
50 X 30 X 5	4.5	2.0	3.78	2.96	1.73	0.74	0.353	9.41	2.88	1.58	2.54	1.12	0.82	10.40	1.66	1.56	0.64	12.2
50 X 40 X 4	4.0	2.0	3.46	2.71	1.52	1.03	0.629	8.54	2.47	1.57	4.86	1.64	1.19	10.90	1.78	2.46	0.84	—
50 X 40 X 5	4.0	2.0	4.27	3.35	1.56	1.07	0.625	10.40	3.02	1.56	5.89	2.01	1.18	13.30	1.76	3.02	0.84	—
60 X 30 X 5	6.0	3.0	4.29	3.37	2.15	0.68	0.256	15.60	4.04	1.90	2.60	1.12	0.78	16.50	1.96	1.69	0.63	21.4

60 X 30 X 7	6.0	3.0	5.85	4.59	2.24	0.76	0.248	20.70	5.50	1.88	3.41	1.52	0.76	21.80	1.93	2.28	0.62	19.2
60 X 40 X 5	6.0	3.0	4.79	3.76	1.96	0.97	0.437	17.20	4.25	1.89	6.11	2.02	1.13	19.80	2.03	3.50	0.86	11.2
60 X 40 X 6	6.0	3.0	5.68	4.46	2.00	1.01	0.433	20.10	5.03	1.88	7.12	2.38	1.12	23.10	2.02	4.12	0.85	10.2
60 X 40 X 7	6.0	3.0	6.55	5.14	2.04	1.05	0.429	23.00	5.79	1.87	8.07	2.74	1.11	26.30	2.00	4.73	0.85	9.2
65 X 50 X 5	6.5	3.5	5.54	4.35	1.99	1.25	0.583	23.10	5.11	2.04	11.90	3.18	1.47	28.80	2.28	6.21	1.06	3.6
65 X 50 X 7	6.5	3.5	7.60	5.97	2.07	1.33	0.574	31.00	6.99	2.02	15.80	4.31	1.44	38.40	2.25	8.37	1.05	1.8
65 X 50 X 9	6.5	3.5	9.58	7.52	2.15	1.41	0.567	38.20	8.77	2.00	19.40	5.39	1.42	47.00	2.22	10.50	1.05	—
75 X 50 X 5	6.5	3.5	6.04	4.74	2.40	1.17	0.437	34.40	6.74	2.39	12.30	3.21	1.43	39.60	2.56	7.10	1.08	15.0
75 X 50 X 7	6.5	3.5	8.30	6.51	2.48	1.25	0.433	46.40	9.24	2.36	16.50	4.39	1.41	53.30	2.53	9.56	1.07	13.0
75 X 50 X 9	6.5	3.5	10.50	8.23	2.56	1.32	0.427	57.40	11.60	2.34	20.20	5.49	1.39	65.70	2.50	11.90	1.07	11.0
75 X 55 X 5	7.0	3.5	6.30	4.95	2.31	1.33	0.530	35.50	6.84	2.37	16.20	3.89	1.60	43.10	2.61	8.68	1.17	8.4
75 X 55 X 7	7.0	3.5	8.66	6.80	2.40	1.41	0.527	47.90	9.39	2.35	21.80	5.32	1.59	57.90	2.59	11.80	1.17	6.6
75 X 55 X 9	7.0	3.5	10.90	8.59	2.47	1.48	0.518	59.40	11.80	2.33	26.80	6.66	1.57	71.30	2.55	14.80	1.16	5.0
80 X 40 X 6	7.0	3.5	6.89	5.41	2.85	0.88	0.259	44.90	8.73	2.55	7.59	2.44	1.05	47.60	2.63	4.90	0.84	29.0
80 X 40 X 8	7.0	3.5	9.01	7.07	2.94	0.95	0.253	57.60	11.40	2.53	9.68	3.18	1.04	60.90	2.60	6.41	0.84	27.2

80 X 65 X 6	8.0	4.0	8.41	6.60	2.39	1.65	0.649	52.80	9.41	2.51	31.20	6.44	1.93	68.50	2.85	15.60	1.36	—
80 X 65 X 8	8.0	4.0	11.00	8.66	2.47	1.73	0.645	68.10	12.30	2.49	40.10	8.41	1.91	88.00	2.82	20.30	1.36	—
80 X 65 X 10	8.0	4.0	13.60	10.70	2.55	1.81	0.640	82.20	15.10	2.46	48.30	10.30	1.89	106.00	2.79	24.80	1.35	—
90 X 60 X 6	7.0	3.5	8.69	6.82	2.89	1.41	0.442	71.70	11.70	2.87	25.80	5.61	1.72	82.80	3.09	14.60	1.30	17.8
90 X 60 X 8	7.0	3.5	11.40	8.96	2.97	1.49	0.437	92.50	15.40	2.85	33.00	7.31	1.70	107.00	3.06	19.00	1.29	16.0
90 X 75 X 7	8.5	4.5	11.10	8.74	2.67	1.93	0.683	88.10	13.90	2.81	55.50	9.98	2.23	117.00	3.24	27.10	1.56	—
100 X 50 X 6	9.0	4.5	8.73	6.85	3.49	1.04	0.263	89.70	13.80	3.20	15.30	3.86	1.32	95.20	3.30	9.78	1.06	37.6
100 X 50 X 8	9.0	4.5	11.50	8.99	3.59	1.13	0.258	116.00	18.00	3.18	19.50	5.04	1.31	123.00	3.28	12.60	1.05	35.4
100 X 50 X 10	9.0	4.5	14.10	11.10	3.67	1.20	0.252	141.00	22.20	3.16	23.40	6.17	1.29	149.00	3.25	15.50	1.04	33.8
100 X 65 X 7	10.0	5.0	11.20	8.77	3.23	1.51	0.419	113.00	16.60	3.17	37.60	7.54	1.84	128.00	3.39	21.60	1.39	21.8
100 X 65 X 9	10.0	5.0	14.20	11.10	3.32	1.59	0.415	141.00	21.00	3.15	46.70	9.52	1.82	160.00	3.36	27.20	1.39	19.8
100 X 65 X 11	10.0	5.0	17.10	13.40	3.40	1.67	0.410	167.00	25.30	3.13	55.10	11.40	1.80	190.00	3.34	32.60	1.38	17.8
100 X 75 X 7	10.0	5.0	11.90	9.32	3.06	1.83	0.553	118.00	17.00	3.15	56.90	10.00	2.19	145.00	3.49	30.10	1.59	8.8
100 X 75 X 9	10.0	5.0	15.10	11.80	3.15	1.91	0.549	148.00	21.50	3.13	71.00	12.70	2.17	181.00	3.47	37.80	1.59	7.0
100 X 75 X 11	10.0	5.0	18.20	14.30	3.23	1.99	0.545	176.00	25.90	3.11	84.00	15.30	2.15	214.00	3.44	45.40	1.58	5.2

120 X 80 X 8	11.0	5.5	15.50	12.20	3.83	1.87	0.441	226.00	27.60	3.82	80.80	13.20	2.29	261.00	4.10	45.80	1.72	24.0
120 X 80 X 10	11.0	5.5	19.10	15.00	3.92	1.95	0.438	276.00	34.10	3.80	98.10	16.20	2.27	318.00	4.07	56.10	1.71	22.2
120 X 80 X 12	11.0	5.5	22.70	17.80	4.00	2.03	0.433	323.00	40.40	3.77	114.00	19.10	2.25	371.00	4.04	66.10	1.71	20.2
120 X 80 X 14	11.0	5.5	26.20	20.50	4.08	2.10	0.429	368.00	46.40	3.75	130.00	22.00	2.23	421.00	4.01	75.80	1.70	18.4
130 X 65 X 8	11.0	5.5	15.10	11.90	4.56	1.37	0.263	263.00	31.10	4.17	44.80	8.72	1.72	280.00	4.31	28.60	1.38	48.6
130 X 65 X 10	11.0	5.5	18.60	14.60	4.65	1.45	0.259	321.00	38.40	4.15	54.20	10.70	1.71	340.00	4.27	35.00	1.37	46.8
130 X 65 X 12	11.0	5.5	22.10	17.30	4.74	1.53	0.255	376.00	45.50	4.12	63.00	12.70	1.69	397.00	4.24	41.20	1.37	44.6
130 X 75 X 8	10.5	5.5	15.90	12.50	4.36	1.65	0.339	276.00	31.90	4.17	68.30	11.70	2.08	303.00	4.37	41.30	1.61	39.2
130 X 75 X 10	10.5	5.5	19.60	15.40	4.45	1.73	0.336	337.00	39.40	4.14	82.90	14.40	2.06	369.00	4.34	50.60	1.61	37.4
130 X 75 X 12	10.5	5.5	23.30	18.30	4.53	1.81	0.332	395.00	46.60	4.12	96.50	17.00	2.04	432.00	4.31	59.60	1.60	35.4
130 X 90 X 10	12.0	6.0	21.20	16.60	4.15	2.18	0.472	358.00	40.50	4.11	141.00	20.60	2.58	420.00	4.46	78.50	1.93	20.4
130 X 90 X 12	12.0	6.0	25.10	19.70	4.24	2.26	0.468	420.00	48.00	4.09	165.00	24.40	2.56	492.00	4.43	92.60	1.92	18.6
150 X 75 X 9	10.5	5.5	19.50	15.30	5.28	1.57	0.265	455.00	46.80	4.83	78.30	13.20	2.00	484.00	4.98	50.00	1.60	56.4
150 X 75 X 11	10.5	5.5	23.60	18.60	5.37	1.65	0.261	545.00	56.60	4.80	93.00	15.90	1.98	578.00	4.95	59.80	1.59	54.4
150 X 90 X 10	12.5	6.5	23.20	18.20	4.99	2.03	0.360	532.00	53.10	4.79	145.00	20.90	2.51	589.00	5.05	88.00	1.95	41.0

150 X 90 X 12	12.5	6.5	27.50	21.60	5.08	2.11	0.358	626.00	63.10	4.77	170.00	24.70	2.49	693.00	5.02	103.00	1.94	39.2
150 X 100 X 10	13.0	6.5	24.20	19.00	4.80	2.34	0.442	552.00	54.10	4.78	198.00	25.80	2.86	637.00	5.13	112.00	2.15	29.8
150 X 100 X 12	13.0	6.5	28.70	22.60	4.89	2.42	0.439	650.00	64.20	4.76	232.00	30.60	2.84	749.00	5.10	132.00	2.15	28.0
150 X 100 X 14	13.0	6.5	33.20	26.10	4.97	2.50	0.435	744.00	74.10	4.73	264.00	35.20	2.82	856.00	5.07	152.00	2.14	26.2
160 X 80 X 10	13.0	6.5	23.20	18.20	5.63	1.69	0.263	611.00	58.90	5.14	104.00	16.50	2.12	648.00	5.29	67.00	1.70	59.7
160 X 80 X 12	13.0	6.5	27.50	21.60	5.72	1.77	0.259	720.00	70.00	5.11	122.00	19.60	2.10	763.00	5.26	78.90	1.69	57.9
160 X 80 X 14	13.0	6.5	31.80	25.00	5.81	1.85	0.256	823.00	80.70	5.09	139.00	22.50	2.09	871.00	5.23	90.50	1.69	55.8
180 X 90 X 10	14.0	7.0	26.20	20.60	6.28	1.85	0.262	880.00	75.10	5.80	151.00	21.20	2.40	934.00	5.97	97.40	1.93	69.0
180 X 90 X 12	14.0	7.0	31.20	24.50	6.37	1.93	0.261	1040.00	89.30	5.77	177.00	25.10	2.38	1100.00	5.94	114.00	1.92	67.0
180 X 90 X 14	14.0	7.0	36.10	28.30	6.46	2.01	0.259	1190.00	103.00	5.75	202.00	28.90	2.37	1260.00	5.92	131.00	1.91	65.0
200 X 100 X 10	15.0	7.5	29.20	23.00	6.93	2.01	0.266	1220.00	93.20	6.46	210.00	26.30	2.68	1300.00	6.66	133.00	2.14	77.4
200 X 100 X 12	15.0	7.5	34.80	27.30	7.03	2.10	0.264	1440.00	111.00	6.43	247.00	31.30	2.67	1530.00	6.63	158.00	2.13	75.2
200 X 100 X 14	15.0	7.5	40.30	31.60	7.12	2.18	0.262	1650.00	128.00	6.41	282.00	36.10	2.65	1760.00	6.60	181.00	2.12	73.0
200 X 100 X 16	15.0	7.5	45.70	35.90	7.20	2.26	0.259	1860.00	145.00	6.38	316.00	40.80	2.63	1970.00	6.57	204.00	2.11	71.0
250 X 90 X 10	15.0	7.5	33.20	26.10	9.45	1.56	0.154	2170.00	140.00	8.08	161.00	21.70	2.20	2220.00	8.17	112.00	1.84	126.0

250 X 90 X 12	15.0	7.5	39.60	31.10	9.55	1.65	0.153	2570.00	166.00	8.05	189.00	25.80	2.19	2630.00	8.14	132.00	1.83	124.0
250 X 90 X 14	15.0	7.5	45.90	36.00	9.65	1.73	0.152	2960.00	192.00	8.03	216.00	29.70	2.17	3020.00	8.11	152.00	1.82	120.0
250 X 90 X 16	15.0	7.5	52.10	40.90	9.74	1.81	0.150	3330.00	218.00	8.00	242.00	33.60	2.16	3400.00	8.08	171.00	1.81	118.0

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جدول اشتال نبشی بال مساوی

a X s mm	r ₁ mm	r ₂ mm	F cm ²	G kg/m	e cm	w cm	v ₁ cm	J _x =J _y cm ⁴	W _x =W _y cm ³	i _x =i _y cm	J _ξ cm ⁴	i _ξ cm	J _η cm	W _η cm ³	i _η cm
20 X 3	3.5	2.0	1.12	0.88	0.60	1.41	0.85	0.39	0.28	0.59	0.62	0.74	0.15	0.18	0.37
20 X 4	3.5	2.0	1.45	1.14	0.64	1.41	0.90	0.48	0.35	0.58	0.77	0.73	0.19	0.21	0.36
25 X 3	3.5	2.0	1.42	1.12	0.73	1.77	1.03	0.79	0.45	0.75	1.27	0.95	0.31	0.30	0.47
25 X 4	3.5	2.0	1.85	1.45	0.76	1.77	1.08	1.01	0.58	0.74	1.61	0.93	0.40	0.37	0.47
25 X 5	3.5	2.0	2.26	1.77	0.80	1.77	1.13	1.18	0.69	0.72	1.87	0.91	0.50	0.44	0.47
30 X 3	5.0	2.5	1.74	1.36	0.84	2.12	1.18	1.41	0.65	0.90	2.24	1.14	0.57	0.48	0.57
30 X 4	5.0	2.5	2.27	1.78	0.89	2.12	1.24	1.81	0.86	0.89	2.85	1.12	0.76	0.61	0.58
30 X 5	5.0	2.5	2.78	2.18	0.92	2.12	1.30	2.16	1.04	0.88	3.41	1.11	0.91	0.70	0.57
35 X 3	5.0	2.5	2.04	1.60	0.96	2.47	1.36	2.29	0.90	1.06	3.63	1.34	0.95	0.70	0.68
35 X 4	5.0	2.5	2.67	2.10	1.00	2.47	1.41	2.96	1.18	1.05	4.68	1.33	1.24	0.88	0.68
35 X 5	5.0	2.5	3.28	2.57	1.04	2.47	1.47	3.56	1.45	1.04	5.63	1.31	1.49	1.01	0.67

35 X 6	5.0	2.5	3.87	3.04	1.08	2.47	1.53	4.14	1.71	1.04	6.50	1.30	1.77	1.16	0.68
40 X 3	6.0	3.0	2.35	1.84	1.07	2.83	1.52	3.45	1.18	1.21	5.45	1.52	1.44	0.95	0.78
40 X 4	6.0	3.0	3.08	2.42	1.12	2.83	1.58	4.48	1.56	1.21	7.09	1.52	1.86	1.18	0.78
40 X 5	6.0	3.0	3.79	2.97	1.16	2.83	1.64	5.43	1.91	1.20	8.64	1.51	2.22	1.35	0.77
40 X 6	6.0	3.0	4.48	3.52	1.20	2.83	1.70	6.33	2.26	1.19	9.98	1.49	2.67	1.57	0.77
45 X 4	7.0	3.5	3.49	2.74	1.23	3.18	1.75	6.43	1.97	1.36	10.20	1.71	2.68	1.53	0.88
45 X 5	7.0	3.5	4.30	3.38	1.28	3.18	1.81	7.83	2.43	1.35	12.40	1.70	3.25	1.80	0.87
45 X 6	7.0	3.5	5.09	4.00	1.32	3.18	1.87	9.16	2.88	1.34	14.50	1.69	3.83	2.05	0.87
45 X 7	7.0	3.5	5.86	4.60	1.36	3.18	1.92	10.40	3.31	1.33	16.40	1.67	4.39	2.29	0.87
50 X 4	7.0	3.5	3.89	3.06	1.36	3.54	1.92	8.97	2.46	1.52	14.20	1.91	3.73	1.94	0.98
50 X 5	7.0	3.5	4.80	3.77	1.40	3.54	1.98	11.00	3.05	1.51	17.40	1.90	4.59	2.32	0.98
50 X 6	7.0	3.5	5.69	4.47	1.45	3.54	2.04	12.80	3.61	1.50	20.40	1.89	5.24	2.57	0.96
50 X 7	7.0	3.5	6.56	5.15	1.49	3.54	2.11	14.60	4.15	1.49	23.10	1.88	6.02	2.85	0.96
50 X 8	7.0	3.5	7.41	5.82	1.52	3.54	2.16	16.30	4.68	1.48	25.70	1.86	6.87	3.19	0.96
50 X 9	7.0	3.5	8.24	6.47	1.56	3.54	2.21	17.90	5.20	1.47	28.10	1.85	7.67	3.47	0.97

55 X 5	8.0	4.0	5.32	4.18	1.52	3.89	2.15	14.70	3.70	1.66	23.30	2.09	6.11	2.84	1.07
55 X 6	8.0	4.0	6.31	4.95	1.56	3.89	2.21	17.30	4.40	1.66	27.40	2.08	7.24	3.28	1.07
55 X 8	8.0	4.0	8.23	6.46	1.64	3.89	2.32	22.10	5.72	1.64	34.80	2.06	9.35	4.03	1.07
55 X 10	8.0	4.0	10.10	7.90	1.72	3.89	2.43	26.30	6.97	1.62	41.40	2.02	11.30	4.65	1.06
60 X 5	8.0	4.0	5.82	4.57	1.64	4.24	2.32	19.40	4.45	1.82	30.70	2.30	8.03	3.46	1.17
60 X 6	8.0	4.0	6.91	5.42	1.69	4.24	2.39	22.80	5.29	1.82	36.10	2.29	9.43	3.95	1.17
60 X 8	8.0	4.0	9.03	7.09	1.77	4.24	2.50	29.10	6.88	1.80	46.10	2.26	12.10	4.84	1.16
60 X 10	8.0	4.0	11.10	8.69	1.85	4.24	2.62	34.90	8.41	1.78	55.10	2.23	14.60	5.57	1.15
65 X 6	9.0	4.5	7.53	5.91	1.80	4.60	2.55	29.20	6.21	1.97	46.30	2.48	12.10	4.74	1.27
65 X 7	9.0	4.5	8.70	6.83	1.85	4.60	2.62	33.40	7.18	1.96	53.00	2.47	13.80	5.27	1.26
65 X 8	9.0	4.5	9.85	7.73	1.89	4.60	2.67	37.50	8.13	1.95	59.40	2.46	15.60	5.84	1.26
65 X 9	9.0	4.5	11.00	8.62	1.93	4.60	2.73	41.30	9.04	1.94	65.40	2.44	17.20	6.30	1.25
65 X 11	9.0	4.5	13.20	10.30	2.00	4.60	2.83	48.80	10.80	1.91	76.80	2.42	20.70	7.31	1.25
70 X 6	9.0	4.5	8.13	6.38	1.93	4.95	2.73	36.90	7.27	2.13	58.50	2.68	15.30	5.60	1.37
70 X 7	9.0	4.5	9.40	7.38	1.97	4.95	2.79	42.40	8.43	2.12	67.10	2.67	17.60	6.31	1.37

70 X 9	9.0	4.5	11.90	9.34	2.05	4.95	2.90	52.60	10.60	2.10	83.10	2.64	22.00	7.59	1.36
70 X 11	9.0	4.5	14.30	11.20	2.13	4.95	3.01	61.80	12.70	2.08	97.60	2.61	26.00	8.64	1.35
75 X 6	10.0	5.0	8.75	6.87	2.04	5.30	2.89	45.60	8.35	2.28	72.20	2.87	18.90	6.54	1.47
75 X 7	10.0	5.0	10.10	7.94	2.09	5.30	2.95	52.40	9.67	2.28	83.60	2.88	21.10	7.15	1.45
75 X 8	10.0	5.0	11.50	9.03	2.13	5.30	3.01	58.90	11.00	2.26	93.30	2.85	24.40	8.11	1.46
75 X 10	10.0	5.0	14.10	11.10	2.21	5.30	3.12	71.40	13.50	2.25	113.00	2.83	29.80	9.55	1.45
75 X 12	10.0	5.0	16.70	13.10	2.29	5.30	3.24	82.40	15.80	2.22	130.00	2.79	34.70	10.70	1.44
80 X 7	10.0	5.0	10.80	8.49	2.21	5.66	3.13	64.20	11.10	2.44	102.00	3.07	26.50	8.48	1.57
80 X 8	10.0	5.0	12.30	9.66	2.26	5.66	3.20	72.30	12.60	2.42	115.00	3.06	29.60	9.25	1.55
80 X 10	10.0	5.0	15.10	11.90	2.34	5.66	3.31	87.50	15.50	2.41	139.00	3.03	35.90	10.90	1.54
80 X 12	10.0	5.0	17.90	14.10	2.41	5.66	3.41	102.00	18.20	2.39	161.00	3.00	43.00	12.60	1.53
80 X 14	10.0	5.0	20.60	16.10	2.48	5.66	3.51	115.00	20.80	2.36	181.00	2.96	48.60	13.90	1.54
90 X 8	11.0	5.5	13.90	10.90	2.50	6.36	3.53	104.00	16.10	2.74	165.00	3.45	43.50	12.30	1.77
90 X 9	11.0	5.5	15.50	12.20	2.54	6.36	3.59	116.00	18.00	2.74	184.00	3.45	47.80	13.30	1.76
90 X 11	11.0	5.5	18.70	14.70	2.62	6.36	3.70	138.00	21.60	2.72	218.00	3.41	57.10	15.40	1.75

90 X 13	11.0	5.5	21.80	17.10	2.70	6.36	3.81	158.00	25.10	2.69	250.00	3.39	65.90	17.30	1.74
90 X 16	11.0	5.5	26.40	20.70	2.81	6.36	3.97	186.00	30.10	2.66	294.00	3.34	79.10	19.90	1.73
100 X 8	12.0	6.0	15.50	12.20	2.74	7.07	3.87	145.00	19.90	3.06	230.00	3.85	59.90	15.50	1.96
100 X 10	12.0	6.0	19.20	15.10	2.82	7.07	3.99	177.00	24.70	3.04	280.00	3.82	73.30	18.40	1.95
100 X 12	12.0	6.0	22.70	17.80	2.90	7.07	4.10	207.00	29.20	3.02	328.00	3.80	86.20	21.00	1.95
100 X 14	12.0	6.0	26.20	20.60	2.98	7.07	4.21	235.00	33.50	3.00	372.00	3.77	98.30	23.40	1.94
100 X 16	12.0	6.0	29.60	23.20	3.06	7.07	4.32	262.00	37.70	2.97	413.00	3.74	111.00	25.60	1.93
100 X 20	12.0	6.0	36.20	28.40	3.20	7.07	4.53	311.00	45.70	2.93	487.00	3.67	135.00	29.80	1.93
110 X 10	12.0	6.0	21.20	16.60	3.07	7.78	4.34	239.00	30.10	3.36	379.00	4.23	98.60	22.70	2.16
110 X 12	12.0	6.0	25.10	19.70	3.15	7.78	4.45	280.00	35.70	3.34	444.00	4.21	116.00	26.10	2.15
110 X 14	12.0	6.0	29.00	22.80	3.21	7.78	4.54	319.00	41.00	3.32	505.00	4.18	133.00	29.30	2.14
120 X 11	13.0	6.5	25.40	19.90	3.36	8.49	4.75	341.00	39.50	3.66	541.00	4.62	140.00	29.50	2.35
120 X 12	13.0	6.5	27.50	21.60	3.40	8.49	4.80	368.00	42.70	3.65	584.00	4.60	152.00	31.60	2.35
120 X 13	13.0	6.5	29.70	23.30	3.44	8.49	4.86	394.00	46.00	3.64	625.00	4.59	162.00	33.30	2.34
120 X 15	13.0	6.5	33.90	26.60	3.51	8.49	4.96	446.00	52.50	3.63	705.00	4.56	186.00	37.50	2.34

130 X 12	14.0	7.0	30.00	23.60	3.64	9.19	5.15	472.00	50.40	3.97	750.00	5.00	194.00	37.70	2.54
130 X 14	14.0	7.0	34.70	27.20	3.72	9.19	5.26	540.00	58.20	3.94	857.00	4.97	223.00	42.40	2.53
130 X 16	14.0	7.0	39.30	30.90	3.80	9.19	5.37	605.00	65.80	3.92	959.00	4.94	251.00	46.70	2.52
140 X 13	15.0	7.5	35.00	27.50	3.92	9.90	5.54	638.00	63.30	4.27	1010.00	5.38	262.00	47.30	2.74
140 X 15	15.0	7.5	40.00	31.40	4.00	9.90	5.66	723.00	72.30	4.25	1150.00	5.36	298.00	52.70	2.73
150 X 12	16.0	8.0	34.80	27.30	4.12	10.60	5.38	737.00	67.70	4.60	1170.00	5.80	303.00	52.00	2.95
150 X 14	16.0	8.0	40.30	31.60	4.21	10.60	5.95	845.00	78.20	4.58	1340.00	5.77	347.00	58.30	2.94
150 X 15	16.0	8.0	43.00	33.80	4.25	10.60	6.01	898.00	83.50	4.57	1430.00	5.76	370.00	61.60	2.93
150 X 16	16.0	8.0	45.70	35.90	4.29	10.60	6.07	949.00	88.70	4.56	1510.00	5.74	391.00	64.40	2.93
150 X 18	16.0	8.0	51.00	40.10	4.36	10.60	6.17	1050.00	99.30	4.54	1670.00	5.70	438.00	71.00	2.93
150 X 20	16.0	8.0	56.30	44.20	4.44	10.60	6.28	1150.00	109.00	4.51	1820.00	5.68	477.00	76.00	2.91
160 X 15	17.0	8.5	46.10	36.20	4.49	11.30	6.35	1100.00	95.60	4.88	1750.00	6.15	453.00	71.30	3.14
160 X 17	17.0	8.5	51.80	40.70	4.57	11.30	6.46	1230.00	108.00	4.86	1950.00	6.13	506.00	78.30	3.13
160 X 19	17.0	8.5	57.50	45.10	4.65	11.30	6.58	1350.00	118.00	4.84	2140.00	6.10	558.00	84.80	3.12
180 X 16	18.0	9.0	55.40	43.50	5.02	12.70	7.11	1680.00	130.00	5.51	2690.00	6.96	679.00	95.50	3.50

180 X 18	18.0	9.0	61.90	48.60	5.10	12.70	7.22	1870.00	145.00	5.49	2970.00	6.93	757.00	105.00	3.49
180 X 20	18.0	9.0	68.40	53.70	5.18	12.70	7.33	2040.00	160.00	5.47	3260.00	6.90	830.00	113.00	3.49
180 X 22	18.0	9.0	74.70	58.60	5.26	12.70	7.44	2210.00	174.00	5.44	3510.00	6.86	918.00	123.00	3.50
200 X 16	18.0	9.0	61.80	48.50	5.52	14.10	7.80	2340.00	162.00	6.15	3740.00	7.78	943.00	121.00	3.91
200 X 18	18.0	9.0	69.10	54.30	5.60	14.10	7.92	2600.00	181.00	6.13	4150.00	7.75	1050.00	133.00	3.90
200 X 20	18.0	9.0	76.40	59.90	5.68	14.10	8.04	2850.00	199.00	6.11	4540.00	7.72	1160.00	144.00	3.89
200 X 24	18.0	9.0	90.60	71.10	5.84	14.10	8.26	3330.00	235.00	6.06	5280.00	7.64	1380.00	167.00	3.90
200 X 28	18.0	9.0	105.00	82.00	5.99	14.10	8.47	3780.00	270.00	6.02	5990.00	7.57	1580.00	186.00	3.89