

Waco Boom Company, Ltd

The Fiberglass Boom Specialist

481 Texas Central Parkway

Waco TX 76712

Phone 254-776-1695

Fax 254-776-2556

<http://wacoboom.com/>

COMMON FIBERGLASS BOOM SECTION SIZES

Note: The values presented are typical values only and are presented in good faith, based on available data. They do not represent a contract or guarantee of any kind. Outside dimensions are able to be modified with slight changes to existing tooling. These lists represent common sizes and are not exhaustive.

English Units			
LOWER BOOMS			
ID	OD	Zxx*	Wt/L
in		in ³	lb/in
4.25 X 6.25	5.50 X 7.50	27.15	1.03
4.25 X 6.25	7.00 X 9.00	68.05	2.49
5.13 X 7.13	7.00 X 9.00	55.17	1.82
6.06 X 6.06	6.75 X 6.75	16.79	0.61
6.06 X 6.06	7.00 X 7.00	22.71	0.83
6.06 X 6.06	9.37 X 9.37	111.36	3.65
6.13 X 8.13	7.50 X 9.50	49.92	1.46
6.13 X 8.13	7.38 X 9.38	47.94	1.37
6.13 X 8.13	7.88 X 9.88	67.02	1.93
7.13 X 7.13	7.79 X 7.79	22.30	0.69
7.13 X 7.13	8.79 X 8.79	59.48	1.82
7.56 X 9.56	9.25 X 11.25	95.24	2.26
8.13 X 8.13	9.13 X 9.13	43.90	1.19
8.13 X 8.13	9.38 X 9.38	58.15	1.55
8.13 X 8.13	9.50 X 9.50	64.70	1.72
8.13 X 8.13	9.88 X 9.88	81.42	2.18
8.13 X 8.13	11.44 X 11.44	169.46	4.43
8.18 X 10.19	10.00 X 12.00	117.57	2.61
8.18 X 10.19	9.50 X 11.50	79.96	1.81
10.13 X 10.13	11.25 X 11.25	75.31	1.64
10.13 X 10.13	11.44 X 11.44	92.21	1.98
10.13 X 10.13	11.50 X 11.50	94.69	2.05
10.13 X 10.13	12.13 X 12.13	148.30	3.15
10.75 X 10.75	12.75 X 12.75	147.69	3.09
10.13 X 13.13	11.31 X 14.31	112.02	2.01
10.13 X 13.13	12.56 X 15.56	249.29	4.38
10.13 X 13.13	13.31 X 16.31	343.10	5.94
10.13 X 13.13	14.44 X 17.44	472.70	8.19
10.19 X 12.19	11.19 X 13.19	80.86	1.56
10.19 X 12.19	13.56 X 15.56	314.78	5.89
10.19 X 12.19	11.94 X 13.94	158.38	2.96
13.13 X 13.13	15.56 X 15.56	287.72	4.80

Metric Units			
LOWER BOOMS			
ID	OD	Zxx*	Wt/L
mm		cm ³	kg/m
108 X 159	140 X 191	444.9	18.42
108 X 159	178 X 229	1115.2	44.52
130 X 181	178 X 229	904.1	32.48
154 X 154	171 X 171	275.2	10.90
154 X 154	178 X 178	372.2	14.84
154 X 154	238 X 238	1824.8	65.26
156 X 206	191 X 241	818.0	26.05
156 X 206	187 X 238	785.6	24.45
156 X 206	200 X 251	1098.2	34.43
181 X 181	198 X 198	365.4	12.29
181 X 181	223 X 223	974.7	32.51
192 X 243	235 X 286	1560.7	40.42
206 X 206	232 X 232	719.5	21.23
206 X 206	238 X 238	953.0	27.66
206 X 206	241 X 241	1060.3	30.69
206 X 206	251 X 251	1334.2	38.93
206 X 206	291 X 291	2776.9	79.07
208 X 259	254 X 305	1926.5	46.62
208 X 259	241 X 292	1310.3	32.32
257 X 257	286 X 286	1234.2	29.35
257 X 257	291 X 291	1511.1	35.44
257 X 257	292 X 292	1551.8	36.66
257 X 257	308 X 308	2430.1	56.27
273 X 273	324 X 324	2420.2	55.26
257 X 333	287 X 364	1835.6	35.86
257 X 333	319 X 395	4085.1	78.30
257 X 333	338 X 414	5622.4	106.14
257 X 333	367 X 443	7746.1	146.19
259 X 310	284 X 335	1325.1	27.85
259 X 310	344 X 395	5158.3	105.11
259 X 310	303 X 354	2595.3	52.82
333 X 333	395 X 395	4714.9	85.77

*Zxx is the Section Modulus about the horizontal centroidal plane.



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<i>English Units</i>			
UPPER BOOMS			
ID	OD	Zxx*	Wt/L
in		in ³	lb/in
3.50 X 7.50	5.38 X 9.38	50.76	1.71
4.25 X 6.25	5.00 X 7.00	15.74	0.60
5.13 X 7.13	5.79 X 7.79	17.55	0.59
5.13 X 7.13	6.38 X 8.38	34.75	1.16
6.06 X 6.06	6.75 X 6.75	17.59	0.63
6.06 X 6.06	7.00 X 7.00	24.65	0.88
7.13 X 7.13	7.79 X 7.79	22.48	0.69
7.13 X 7.13	8.00 X 8.00	31.20	0.95
7.56 X 9.56	8.63 X 10.63	56.62	1.36
8.13 X 8.13	9.13 X 9.13	43.90	1.19
8.13 X 8.13	8.79 X 8.79	29.03	0.78
8.18 X 10.19	8.88 X 10.89	41.09	0.93
8.18 X 10.19	9.00 X 11.01	49.13	1.11
8.18 X 10.19	9.25 X 11.26	63.70	1.45
8.18 X 10.19	9.50 X 11.51	80.65	1.82
8.18 X 10.19	9.88 X 11.89	101.62	2.32
9.00 X 9.00	9.88 X 9.88	45.69	1.13
10.13 X 10.13	11.00 X 11.00	58.79	1.28
10.13 X 10.13	11.25 X 11.25	77.68	1.68
10.13 X 10.13	11.44 X 11.44	92.21	1.98
10.13 X 10.13	11.50 X 11.50	97.12	2.09
10.75 X 10.75	11.88 X 11.88	80.02	1.68
10.75 X 10.75	12.50 X 12.50	134.46	2.78
13.13 X 13.13	15.06 X 15.06	229.09	3.81

<i>Metric Units</i>			
UPPER BOOMS			
ID	OD	Zxx*	Wt/L
mm		cm ³	kg/m
89 X 191	137 X 238	831.8	30.59
108 X 159	127 X 178	258.0	10.73
130 X 181	147 X 198	287.6	10.58
130 X 181	162 X 213	569.5	20.75
154 X 154	171 X 171	288.3	11.24
154 X 154	178 X 178	404.0	15.66
181 X 181	198 X 198	368.4	12.36
181 X 181	203 X 203	511.2	16.90
192 X 243	219 X 270	927.9	24.37
206 X 206	232 X 232	719.5	21.23
206 X 206	223 X 223	475.7	14.00
208 X 259	225 X 276	673.4	16.69
208 X 259	229 X 280	805.1	19.89
208 X 259	235 X 286	1043.8	25.91
208 X 259	241 X 292	1321.6	32.59
208 X 259	251 X 302	1665.3	41.52
229 X 229	251 X 251	748.7	20.13
257 X 257	279 X 279	963.4	22.82
257 X 257	286 X 286	1273.0	29.97
257 X 257	291 X 291	1511.1	35.44
257 X 257	292 X 292	1591.6	37.28
273 X 273	302 X 302	1311.3	30.04
273 X 273	318 X 318	2203.5	49.62
333 X 333	383 X 383	3754.1	68.01

TELESCOPING BOOMS			
ID	OD	Zxx*	Wt/L
in		in ³	lb/in
3.13 X 5.13	4.00 X 6.00	12.29	0.57
4.25 X 6.25	5.00 X 7.00	16.30	0.61
4.25 X 6.25	5.25 X 7.25	22.28	0.83
5.50 X 7.50	7.00 X 9.00	51.68	1.57
5.50 X 9.50	7.00 X 11.00	69.93	1.78
6.06 X 6.06	7.00 X 7.00	25.22	0.88
6.13 X 8.13	6.79 X 8.79	25.40	0.72
6.13 X 8.13	7.00 X 9.00	33.89	0.95
6.13 X 8.13	7.25 X 9.25	44.40	1.25
7.13 X 7.13	8.00 X 8.00	31.85	0.95
7.56 X 9.56	8.56 X 10.56	55.16	1.31
6.50 X 12.00	8.50 X 14.00	144.20	2.95
8.18 X 10.19	9.30 X 11.31	71.29	1.58
9.25 X 9.25	10.00 X 10.00	44.83	1.04

TELESCOPING BOOMS			
ID	OD	Zxx*	Wt/L
mm		cm ³	kg/m
79 X 130	102 X 152	201.4	10.20
108 X 159	127 X 178	267.1	10.87
108 X 159	133 X 184	365.2	14.80
140 X 191	178 X 229	846.9	27.98
140 X 241	178 X 279	1145.9	31.84
154 X 154	178 X 178	413.2	15.80
156 X 206	172 X 223	416.2	12.77
156 X 206	178 X 229	555.4	17.03
156 X 206	184 X 235	727.6	22.26
181 X 181	203 X 203	522.0	17.03
192 X 243	218 X 268	903.9	23.32
165 X 305	216 X 356	2363.0	52.73
208 X 259	236 X 287	1168.2	28.20
235 X 235	254 X 254	734.6	18.60

*Zxx is the Section Modulus about the horizontal centroidal plane.



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<i>English Units</i>				<i>Metric Units</i>			
JIBS				JIBS			
ID	OD	Zxx*	Wt/L	ID	OD	Zxx*	Wt/L
in		in ³	lb/in	mm		cm ³	kg/m
2.25 X 3.25	3.75 X 4.75	11.18	0.75	57 X 83	95 X 121	183.2	13.41
2.75 X 3.63	3.75 X 4.63	7.76	0.50	70 X 92	95 X 117	127.1	8.93
3.25 X 3.25	4.00 X 4.00	5.86	0.39	83 X 83	102 X 102	96.1	6.91
3.06 X 3.06	4.00 X 4.00	6.85	0.47	78 X 78	102 X 102	112.2	8.45
4.50 X 4.50	5.50 X 5.50	15.08	0.72	114 X 114	140 X 140	247.2	12.77
Solid Round	3.00	2.65	0.51	Solid Round	76	43.4	9.09
ROUND BOOMS				ROUND BOOMS			
ID	OD	Zxx*	Wt/L	ID	OD	Zxx*	Wt/L
in		in ³	lb/in	mm		cm ³	kg/m
3.23	4.25	5.02	0.43	82	108	82.3	7.70
3.23	4.63	7.40	0.62	82	117	121.3	11.07
3.23	5.50	14.39	1.12	82	140	235.8	20.01
3.75	5.50	12.80	0.92	95	140	209.8	16.35
6.06	6.75	10.58	0.50	154	171	173.3	8.93
6.06	8.25	39.08	1.77	154	210	640.4	31.65
7.00	9.00	45.34	1.81	178	229	743.0	32.30
7.38	8.00	13.84	0.54	187	203	226.9	9.62
8.00	9.25	34.23	1.22	203	235	560.9	21.77
10.08	13.00	137.88	3.82	256	330	2259.4	68.16
12.00	13.10	65.30	1.56	305	333	1070.2	27.88

*Zxx is the Section Modulus about the horizontal centroidal plane.

