

3/8" Steel Tube with Lead Wire

WEIGHT INCREASE* (lb) FOR 65" AILERON (GAP NOT FILLED)						
			Lead Wire Diameter			
			0.1875 (3/16)	0.2188 (7/32)	0.2500 (1/4)	0.3125 (5/16)
3/8" OD Steel Tube	WALL	ID				
	0.0280	0.319	-0.7401	-0.4745	-0.1682	0.5672
	0.0350	0.305	-0.6134	-0.3479	-0.0415	INTERFERENCE
	0.0490	0.277	-0.3771	-0.1116	0.1948	
	0.0580	0.259	-0.2373	0.0283	0.3347	
	0.0650	0.245	-0.1350	0.1306		
0.0830	0.209	0.1020				

WEIGHT INCREASE* (lb) FOR 65" AILERON (GAP FILLED WITH EPOXY)						
			Lead Wire Diameter			
			0.1875 (3/16)	0.2188 (7/32)	0.2500 (1/4)	0.3125 (5/16)
3/8" OD Steel Tube	WALL	ID				
	0.0280	0.319	-0.5976	-0.3592	-0.0842	0.5759
	0.0350	0.305	-0.4896	-0.2512	0.0238	INTERFERENCE
	0.0490	0.277	-0.2882	-0.0498	0.2252	
	0.0580	0.259	-0.1690	0.0694	0.3445	
	0.0650	0.245	-0.0818	0.1566		
0.0830	0.209	0.1202				

DIAMETRICAL CLEARANCE						
			Lead Wire Diameter			
			0.1875 (3/16)	0.2188 (7/32)	0.2500 (1/4)	0.3125 (5/16)
3/8" OD Steel Tube	WALL	ID				
	0.0280	0.319	0.1315	0.1003	0.0690	0.0065
	0.0350	0.305	0.1175	0.0863	0.0550	INTERFERENCE
	0.0490	0.277	0.0895	0.0583	0.0270	
	0.0580	0.259	0.0715	0.0403	0.0090	
	0.0650	0.245	0.0575	0.0263		
0.0830	0.209	0.0215				

- * compared with 3/8" diam. steel bar
- lead wire length is the same as the length of tube
- epoxy density assumed at 1.16 g/cm3 for MGS335
- all dimension in inches