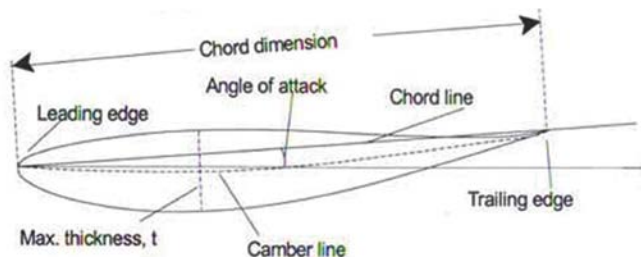


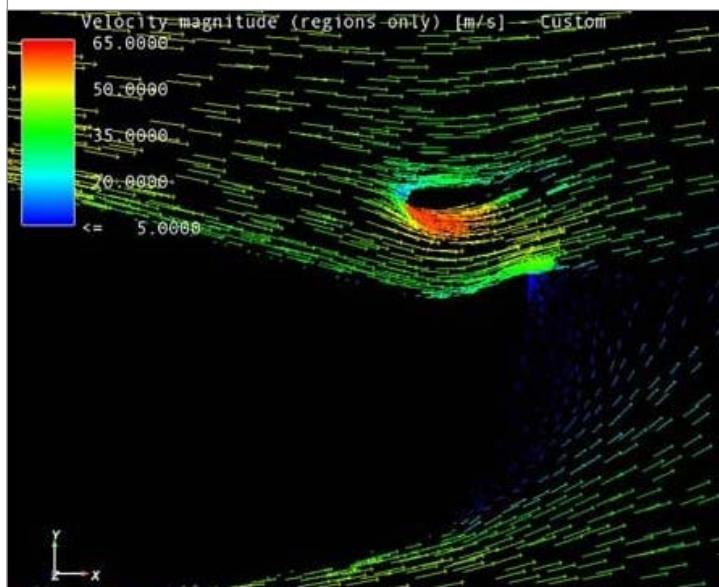
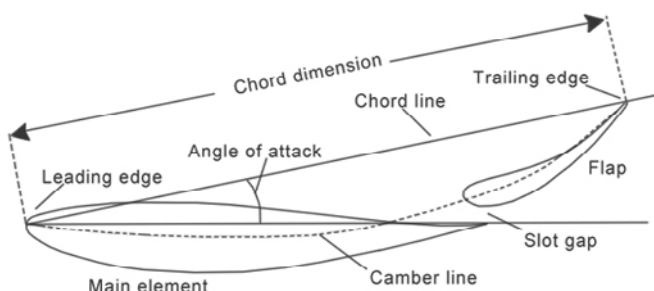
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WINGS TECHNICAL INFORMATION



All data shown is based on a wing length of 1000mm and test speed of 100mph, Generally lift over drag improves as span increases, but a good estimate of downforce and drag can be obtained by multiplying the 1 metre data show below by the span of interest in metres To convert drag into BHP absorbed use the following formula;

BHP absorbed = $(2 \times \text{Drag (N)} \times \text{Speed (m/s)}) \div 1500$
 Conversion for Mph to m/s 1 mph = 0.447 m/s

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110mm CHORD					
AoA	D/FORCE (N)	DRAG (N)	L/D	BHP ABSORBED	
4	171	10.8	15.8	0.6	
8	220	15.0	14.7	0.9	
12	239	18.0	13.3	1.1	
14	240	21.0	11.3	1.3	

150mm CHORD					
AoA	D/FORCE (N)	DRAG (N)	L/D	BHP ABSORBED	
4	219	16.0	13.7	1.0	
8	304	21.0	14.4	1.3	
12	331	25.0	13.3	1.5	
14	346	29.0	12.0	1.7	

225mm CHORD					
AoA	D/FORCE (N)	DRAG (N)	L/D	BHP ABSORBED	
4	446	34.0	13.1	2.0	
8	539	47.0	11.5	2.8	
12	598	59.0	10.1	3.5	
14	620	66.0	9.5	3.9	

310mm CHORD LOW DRAG					
AoA	D/FORCE (N)	DRAG (N)	L/D	BHP ABSORBED	
4	403	29.0	11.5	1.7	
8	518	41.0	8.9	2.4	
12	613	58.0	7.6	3.5	
16	678	77.0	6.5	4.6	

310mm CHORD HIGH D/FORCE					
AoA	D/FORCE (N)	DRAG (N)	L/D	BHP ABSORBED	
4	473	39.0	12.1	2.3	
8	613	43.0	14.3	2.6	
12	712	62.0	11.5	3.7	
16	802	82.0	9.8	4.9	

225 + 110mm CHORD					
AoA	D/FORCE (N)	DRAG (N)	L/D	BHP ABSORBED	
15	1003	136.0	7.4	8.1	
19	1108	166.0	6.7	9.9	
23	1203	198.0	6.1	11.8	
25	1240	213.0	5.8	12.7	

225 + 150mm CHORD					
AoA	D/FORCE (N)	DRAG (N)	L/D	BHP ABSORBED	
17	1164	178.0	6.5	10.6	
21	1274	214.0	5.9	12.8	
25	1367	251.0	5.5	14.9	
27	1401	267.0	5.3	15.9	

310 + 110mm CHORD					
AoA	D/FORCE (N)	DRAG (N)	L/D	BHP ABSORBED	
11.3	981.0	63.0	15.6	3.8	
12.5	1087.0	78.0	13.9	4.6	
13.6	1173.0	95.0	12.3	5.7	
14.8	1251.0	111.0	11.3	6.6	
15.3	1279.0	119.0	10.7	7.1	
15.9	1321.0	127.0	10.4	7.6	

310 + 150mm CHORD					
AoA	D/FORCE (N)	DRAG (N)	L/D	BHP ABSORBED	
11.3	1125.0	137.0	8.2	8.2	
12.7	1232.0	163.0	7.6	9.7	
14.0	1281.0	185.0	6.9	11.0	
15.4	1328.0	207.0	6.0	12.3	
16.0	1369.0	216.0	6.3	12.9	
16.7	1410.0	229.0	6.2	13.6	