

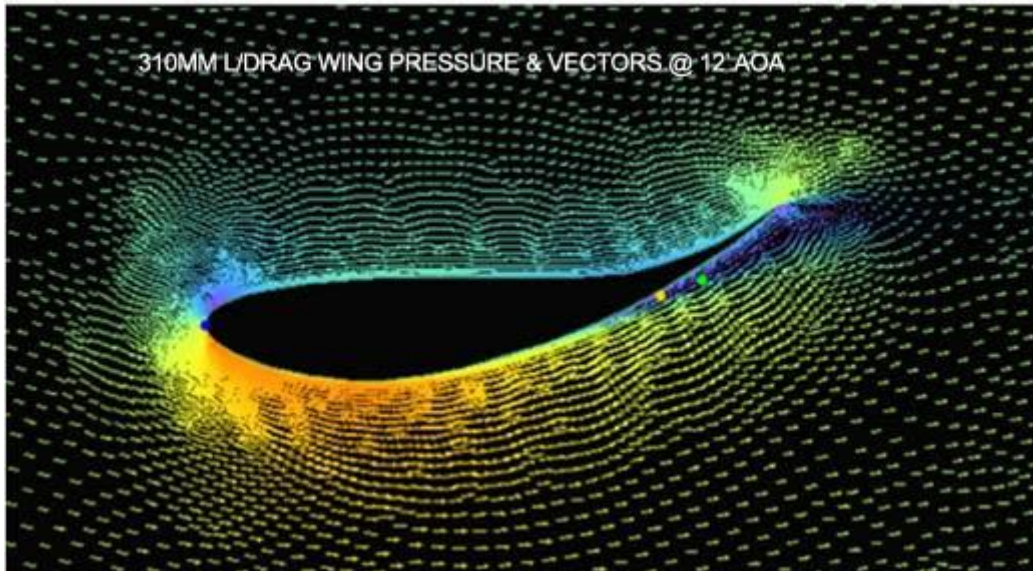
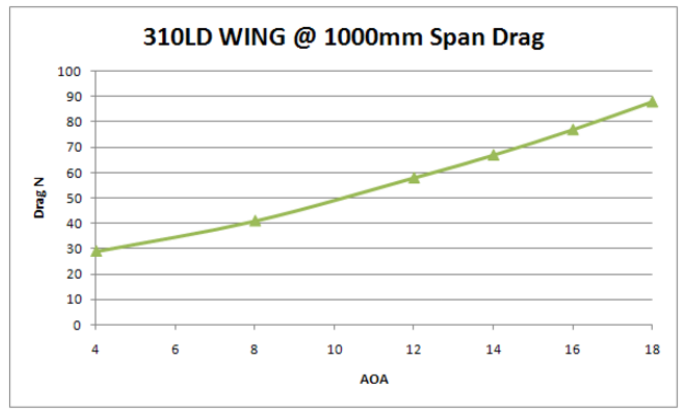
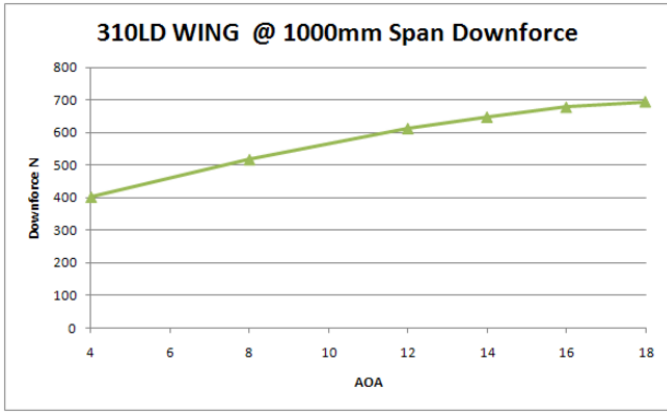
## UNIVERSAL 310MM CHORD LOW DRAG CARBON REAR WING

The data given below was produced by Easy CFD\_G software, all other widths have been calculated only using the wing width approximation formula. The wing profile was designed to give a range of down force levels from moderate to reasonably high, depending on the deployed angle of attack and chosen span, with very good efficiency in terms of down force to drag ratio.

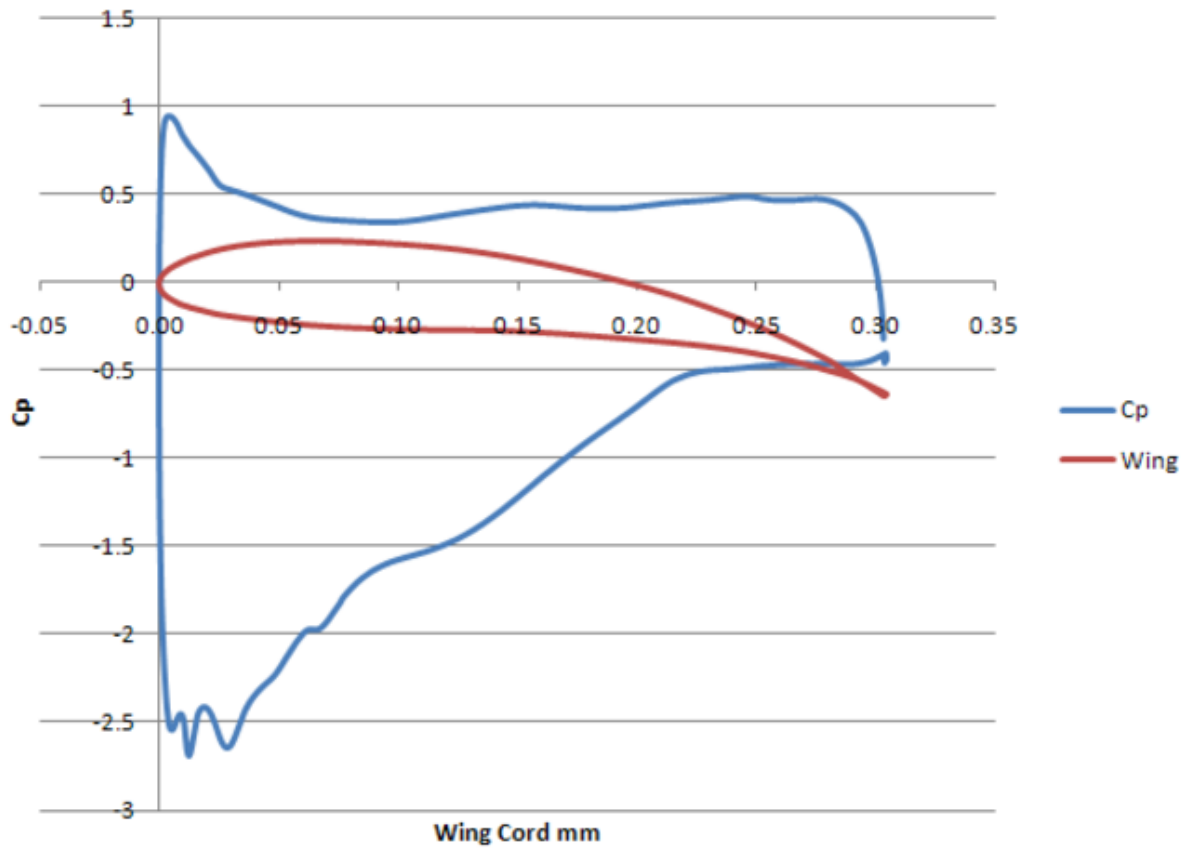
Calculated forces at different spans and angles, taking into account efficiencies at different spans  
Air speed 44.7m/s (100mph) freestream.

**\* Data marked in red show that the wing has either stalled or was close to stalling and has been omitted from the graphs \***

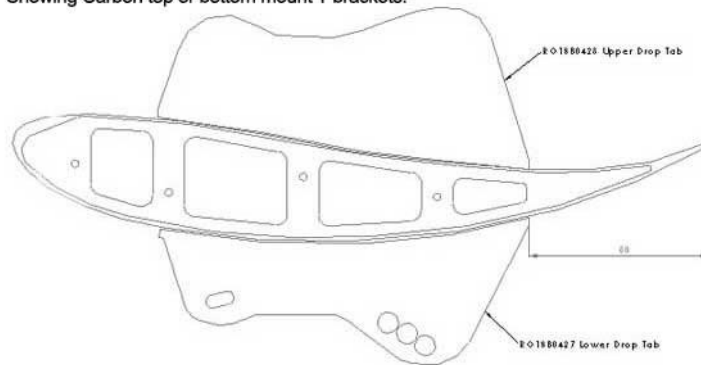
	1000mm Wingspan				1245mm Wingspan			
AoA	Downforce (N)	Drag (N)	L/D	BHP Absorbed	Downforce (N)	Drag (N)	L/D	BHP Absorbed
4	403	29	11.5	1.7	502	36	11.5	2.2
8	518	41	8.9	2.4	645	51	8.9	3.0
12	613	58	7.6	3.5	763	72	7.6	4.3
14	648	67	7.0	4.0	807	83	7.0	5.0
16	678	77	6.5	4.6	844	96	6.5	5.7
18	695	88	6.1	5.2	865	110	6.1	6.5
	1400mm Wingspan				1700mm Wingspan			
AoA	Downforce (N)	Drag (N)	L/D	BHP Absorbed	Downforce (N)	Drag (N)	L/D	BHP Absorbed
4	564	41	11.5	2.4	685	49	11.5	2.9
8	725	57	8.9	3.4	881	70	8.9	4.2
12	858	81	7.6	4.8	1042	99	7.6	5.9
14	907	94	7.0	5.6	1102	114	7.0	6.8
16	949	108	6.5	6.4	1153	131	6.5	7.8
18	973	123	6.1	7.3	1182	150	6.1	8.9



## 310mm Low Drag (C1) R01SB0421 Pressure Plot @ 12 deg AoA



310mm Low Drag wing cross section drawing  
Showing Carbon top or bottom mount T brackets.

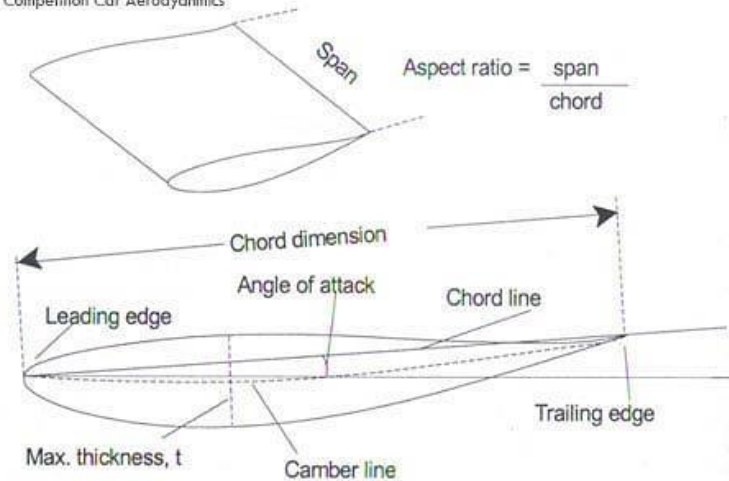


310MM Low Drag Chord wing cross section showing internal longitudinal supports.



Figure 5-1 Wing terminology.

Image courtesy of Simon McBeath  
Competition Car Aerodynamics



## ORDERING INFORMATION

These autoclaved carbon fibre wings feature internal longitudinal stringers and alloy end spars with 4x M4 threaded inserts for mounting between supports or for affixing end plates. The wing comes supplied with support tabs, rivets and adhesive for post or pillar mounting. Alternatively the end plates can be removed & the wing mounted between wing uprights.

Also specify any special end-mount fixing details when ordering.

You may also like to order the optional 5mm or 10mm high gurney flaps. These can improve the lift / drag performance and reduce the onset of stall at higher angles of attack. These can be bonded on with adhesive or in some cases a high strength double-sided tape with suitable surface preparation. These can be purchased at a later date if required. Replacement end plates are also available separately.