

# REVERIE

## AERODYNAMICS

### TECHNICAL DATA

#### COMPARISON OF DOWNFORCE VS DRAG BETWEEN WING TYPES

All data shown is based on a wing length of 1000mm and test speed 100mph. Generally lift over drag improves as span increases, but a good balance 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 x Drag (N) x Speed (m/s)) ÷ 1500

Conversion for Mph to m/s 1 mph = 0.447 m/s



110MM CHORD

AOA	Downforce (N)	Drag (N)	L/D	BHP Absorbed
5	174	19	9.5	1.1
10	224	28	8.0	1.7
15	269	40	6.7	2.4
20	295	52	5.7	3.1



150MM CHORD

Downforce (N)	Drag (N)	L/D	BHP Absorbed
205	26	7.9	1.5
281	38	7.4	2.3
344	77	6.4	3.2
386	102	5.4	4.3



225MM CHORD

AOA	Downforce (N)	Drag (N)	L/D	BHP Absorbed
4	399	59	6.7	3.5
8	437	73	6.0	4.4
12	530	95	5.6	5.7
16	572	115	5.0	6.9



300MM CHORD

Downforce (N)	Drag (N)	L/D	BHP Absorbed
437	51	8.6	3.0
526	71	7.4	4.2
609	94	6.5	5.6
681	121	5.6	7.2



225MM CHORD WITH 110MM FLAP

AOA	Downforce (N)	Drag (N)	L/D	BHP Absorbed
16	809	184	4.4	11.0
18	850	201	4.2	12.0
20	894	221	4.1	13.2
22	930	240	3.9	14.3



225MM CHORD WITH 150MM FLAP

Downforce (N)	Drag (N)	L/D	BHP Absorbed
878	200	4.4	11.9
920	220	4.2	13.1
966	242	4.0	14.4
1013	264	3.8	15.7



300MM CHORD WITH 110MM FLAP

AOA	Downforce (N)	Drag (N)	L/D	BHP Absorbed
12	828	142	5.8	8.5
14	885	164	5.4	9.8
16	936	178	5.3	10.6
18	979	203	4.8	12.1



300MM CHORD WITH 150MM FLAP

AOA	Downforce (N)	Drag (N)	L/D	BHP Absorbed
9.5	831	145	5.7	8.7
13.5	908	179	5.1	10.7
17.5	1019	223	4.6	13.3
21.5	1139	273	4.2	16.3

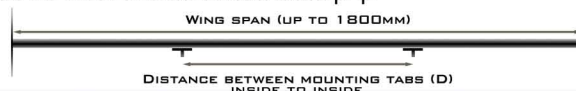
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## AERODYNAMICS

### SINGLE ELEMENT UNIVERSAL WINGS

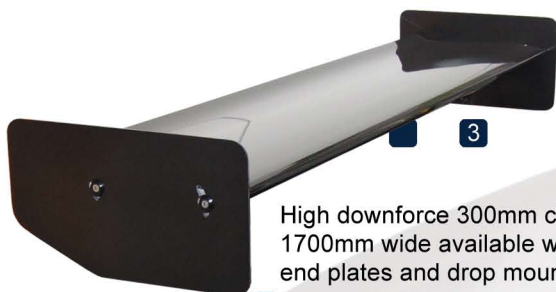
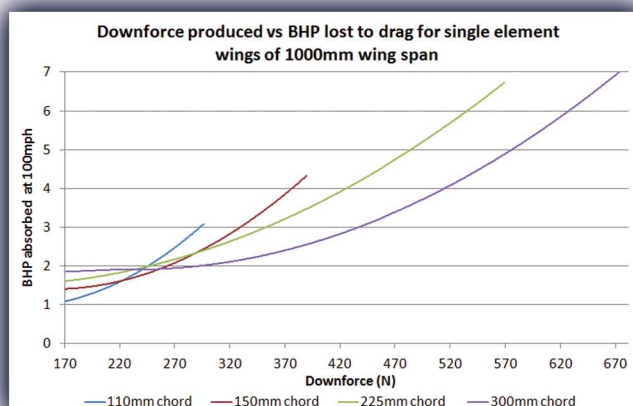
For CFD data including wind tunnel test results for our wings please visit [www.reverie.ltd.uk/techdata.php](http://www.reverie.ltd.uk/techdata.php)

When ordering please specify, wing span, required distance between drop tabs (D) or end mount



1720mm curved radius  
available up to 1800mm wide,  
with 110, 150 or 225mm chord  
length, end or drop tab mounted

- |                                    |           |
|------------------------------------|-----------|
| 1 225mm chord with drop tabs       | R01SB0162 |
| 225mm chord end mounted            | R01SB0357 |
| 150mm chord with drop tabs         | R01SB0200 |
| 110mm chord with drop tabs         | R01SB0206 |
| 2 225mm chord drop end 1220mm wide | R01SB0310 |



High downforce 300mm chord up to  
1700mm wide available with or without  
end plates and drop mounting tabs

- |   |           |
|---|-----------|
| 3 300mm with end plates and mounting tabs | R01SB0347 |
| 300mm no end plates or mounting tabs      | R01SB0271 |



Straight wing drop or end mounted  
110, 150 or 225mm chord available  
up to 1800mm wide

- |                                  |           |
|----------------------------------|-----------|
| 225mm chord for end mounts       | R01SB0358 |
| 225mm chord with drop tab mounts | R01SB0163 |
| 150mm chord                      | R01SB0201 |
| 110mm chord                      | R01SB0207 |



300MM HIGH DOWNFORCE WING ON LOTUS 2-ELEVEN



225MM DROP END CURVED WING ON EXIGE S2

### WING ACCESSORIES



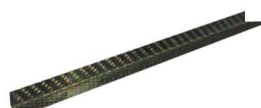
Wing mount tab mounts, available for  
top mount 110/150mm chord, top  
mount 225mm chord and base  
mount 300mm chord rear wings

- |                                    |           |
|------------------------------------|-----------|
| 5 Tabs for 300mm chord rear wings  | R01SB0267 |
| 6 Tabs for 150mm chord front wings | R01SB0326 |
| 6 Tabs for 225mm chord front wings | R01SB0363 |



Universal 200mm alloy  
adjustable wing mounts  
for flat surfaces

R01SB0264



Rear wing gurney flaps  
for straight or curved wings

- |                    |      |           |
|--------------------|------|-----------|
| Straight 10 x 5mm  | 90°  | R01SU0149 |
| Straight 10 x 10mm | 90°  | R01SU0150 |
| Straight 15 x 5mm  | 110° | R01SU0086 |
| Straight 15 x 10mm | 110° | R01SU0087 |
| Curved 10 x 5mm    | 90°  | R01SU0151 |
| Curved 10 x 10mm   | 90°  | R01SU0152 |



wing end plates bespoke  
end plate service  
available please enquire  
when ordering

- |       |           |
|-------|-----------|
| 300mm | R01SB0268 |
| 225mm | R01SB0257 |



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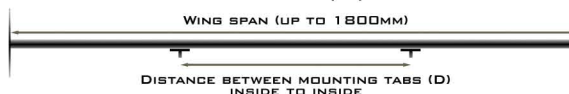


AERODYNAMICS

### DUAL ELEMENT UNIVERSAL WINGS

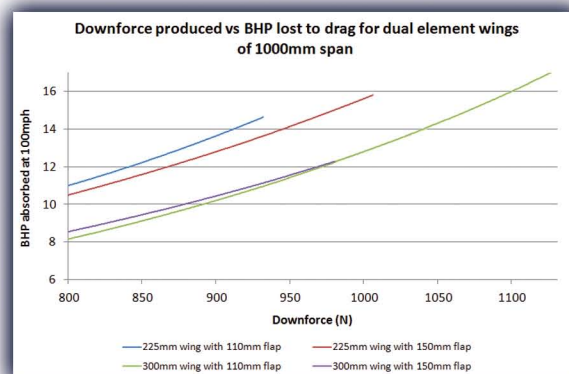
For CFD data including wind tunnel test results for our wings please visit [www.reverie.ltd.uk/techdata.php](http://www.reverie.ltd.uk/techdata.php)

When ordering please specify wing span, required distance between drop tabs (D) or end mount.



225mm chord main wing with either a 110mm or 150mm non adjustable flap. Maximum span of 1800mm. Plan view radius of 1720mm

1 225mm main with 110mm flap R01SB0210  
225mm main with 150mm flap R01SB0208



ADJUSTABLE CENTRE SUPPORT

225mm chord main wing with either 110mm or 150mm adjustable flap. Produces 1858N of downforce at 100mph when angle of attack is 22° with span of 1800mm. Maximum span 1800mm

2 225mm chord main with 110mm flap R01SB0211  
225mm chord main with 150mm flap R01SB0209



ADJUSTABLE CENTRE SUPPORT

300mm chord main wing with either 110mm or 150mm adjustable flap. Produces 1936N of downforce at 100mph when angle of attack is 21.5° with span of 1700mm. Maximum span 1700mm

3 300mm chord main wing with 110mm flap R01SB0273  
300mm chord main wing with 150mm flap R01SB0272

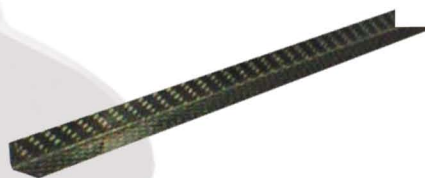
### REAR WING ACCESSORIES



Wing drop tab mounts, for 300mm chord rear wings  
R01SB0267



Universal 200mm alloy adjustable wing mounts for flat surfaces  
R01SB0264



Rear wing gurney flaps for straight or curved wings

Straight 10 x 5mm	90°	R01SU0149
Straight 10 x 10mm	90°	R01SU0150
Straight 15 x 5mm	110°	R01SU0086
Straight 15 x 10mm	110°	R01SU0087
Curved 10 x 5mm	90°	R01SU0151
Curved 10 x 10mm	90°	R01SU0152

Sales 0044 1206 866663  
[www.reverie.ltd.uk](http://www.reverie.ltd.uk)

