

REVERIE MGHTER - FASTER - STRONGER

UNIVERSAL PARTS BROCHURE

ABOUT US

Established in 2000 in Colchester, Essex, UK by former Lotus engineer Simon Farren, Reverie started by designing and producing niche track day and aftermarket Carbon Fibre performance parts, primarily for Lotus models. Growing quickly, in 2001 Reverie started offering composite engineering and manufacturing services to small car manufacturers, motorsport manufacturing companies and race teams. Caterham Cars commissioned Reverie to design, manufacture and supply a complete induction silencer system for their R500 with K-Series engine. Between 2003 and 2005, Reverie was proudly involved in winning a large motorsport composite project for Foggy PETRONAS Racing, involving the manufacture of 150 full panel sets for the FP1 homologation special motorbike. All delivery times and quality targets were met for both the OEM manufacturing company and the FP1 race team. After gaining ISO9001 certification in 2014, Reverie was selected to manufacture Carbon Fibre OEM key fobs for McLaren (MP4/12 P1) to very high clear coated paint specifications. This large contract involved manufacturing over 24,000 units.

WHY CHOOSE REVERIE?

An established world-wide market leader with passionate, professional and highly skilled staff who offer composites design, manufacturing and repair skills. A technical sales team with real practical knowledge of road/race and track applications and fitments of our Product ranges be it aerodynamics or powertrain enhancing to help you select the best solution and support you to fit our products. We have a one-stop shop - Composite cutting, laminating, curing, CNC machining, painting, polishing and inspection. We proudly supply LMP1/WRC Motorsport teams and manufacturers, not F1 including for example Cosworth Electronics, Gibson Technology, Lazer lamps, M-Sport. Because we do not supply F1 means we are not seasonal and will therefore not increase or inflate our prices or hold up your Reverie parts order. With full ISO 9001 quality status, as a customer you can be assured of the very best customer service, continuing service and product improvements and highest quality products and services, we need, like, internally monitor / report and respect your valued feedback.

View terms and conditions

WHY THE AUTOCLAVED PROCESS?

We predominantly use pre-impregnated epoxy thermoset composite materials to ensure that high fibre contents can be achieved consistently. We also CNC cut, then meticulously hand lay, vacuum bag and autoclave all the layers to further ensure low void contents and trapped volatiles to maximise interlaminar shear properties by forcing the various layers in the fibre/resin matrix together. This process as used widely in F1 results in high quality lightweight, cosmetic grade parts achievable time and time again, with low void content and surface pin-holing.



MD, Simon J. Farren



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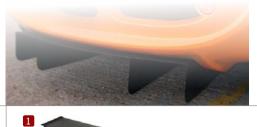
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Bodywork Parts Bonnet/Wheel Arch Louvres Intake Scoops NACA Ducts Rear Diffusers Wings (Front/Rear) Wings Technical Information Front Wings Bottom Mounted Single Element Bottom Mounted Single Element Top Mounted Single Element Top Mounted 2 Element Wing Accessories



» REAR DIFFUSERS

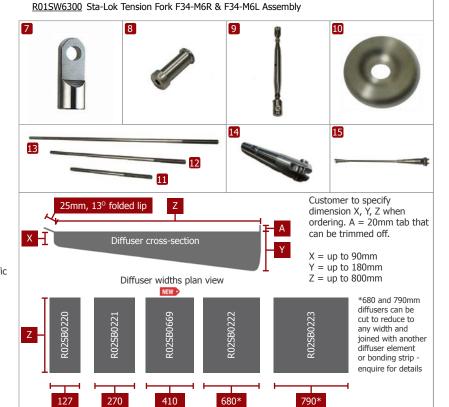


>> CLICK TO VIEW DIFFUSER SIZE GUIDE

UNIVERSAL DIFFUSER ELEMENTS

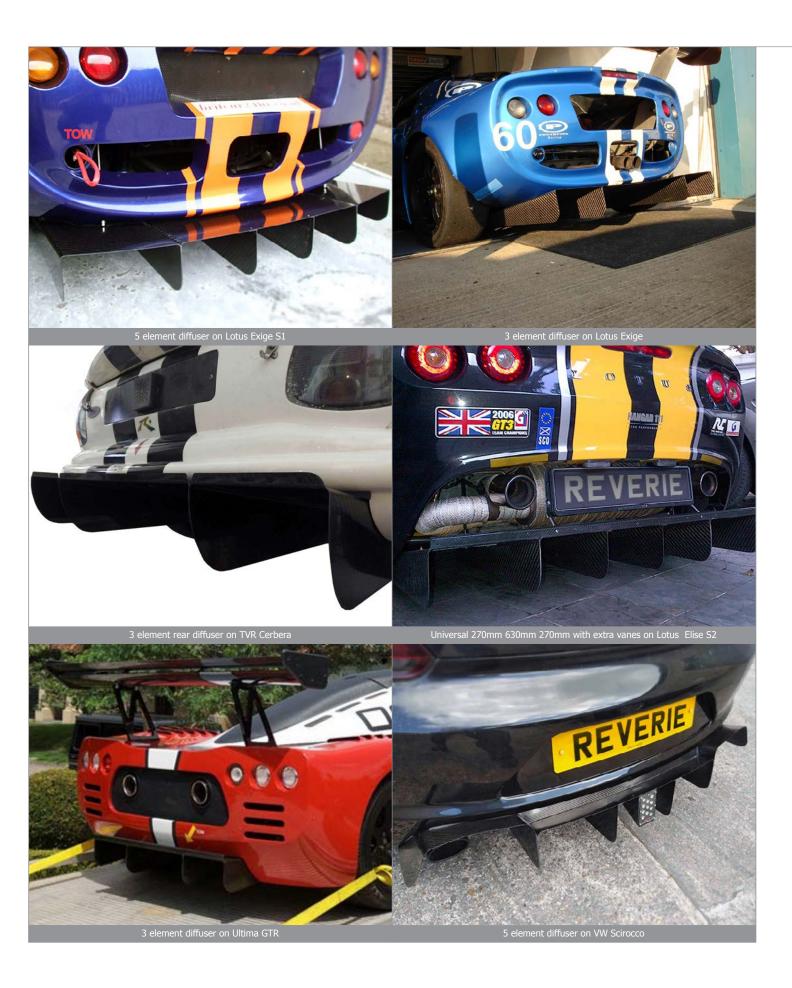
We produce universal rear diffuser tunnels in various widths that can be joined together to form a rear diffuser with a 10° ramp angle fixing along the front mounting edge which can be retained, or cut to fit almost any vehicle. Ideally, our diffusers should be mounted between 6° and 12° to the floor. We also offer a range of adjustable stainless steel stays to allow mounting the rear of the diffuser and tuning its angle. Universal diffuser elements are 800mm long and available as 127mm, 270mm, 410mm, 630mm or 790mm wide, we also offer separate diffuser vanes that can be bonded on to increase the number of elements on the diffuser. We produce a Group C style element that also allows for multiple elements to be bonded together, that is 305mm wide and 1470mm long. Length and shape of vanes available to any profile or depth please specify when ordering.

Part No.	UNIVERSAL REAR DIFFUSERS
1 R01SB0220	127mm Wide Tunnel
2 R01SB0221	270mm Wide Tunnel
3 R01SB0222	630mm Wide Tunnel
NEW > R01SB0669	410mm Wide Tunnel
4 R01SB0223	790mm Wide Tunnel
5 <u>R01SB022</u> 4	Addtional 700mm Vane
6 R01SB0311	Group C Style 305 x 1470mm Tunnel
	ACCESSORIES
7 <u>R01SW630</u>	6 Alloy M5 Eye Post - for Rear Diffuser Hangers
7 <u>R01SW666</u>	8 Sta-Lok S/Steel M6 Eye Post LH (209-03-M6L)
8 <u>R01SW629</u>	Z Sta-Lok S/Steel M6 Eye Post RH (209-03-M6R)
9 <u>R01SW630</u>	1 Sta-Lok Double Headed Pin D37-06 (6.3mm & 1/4" Forks)
10 <u>R01SW629</u>	6 Sta-Lok ST-31-M6 Fork & Fork S/Steel Turnbuckle
11 <u>R01SB604</u> 4	Sta-Lok S/Steel Base Fixed Disc - 6mm Hole (209-03-M6)
R01SW630	2 Sta-Lok S/Steel Rod System 150mm Rod x 50mm Thread
12 <u>R01SW630</u>	5 Sta-Lok S/Steel Rod System 250mm Rod x 100mm Thread
13 <u>R01SW630</u>	3 Sta-Lok S/Steel Rod System 250mm Rod x 50mm Thread
14 <u>R01SW630</u>	4 Sta-Lok S/Steel Rod System 350mm Rod x 50mm Thread
14 <u>R01SW631</u>	9 Sta-Lok S/Steel Tension Fork (F34-M6L) - LH
<u>15 R01SW632</u>	0 Sta-Lok S/Steel Tension Fork (F34-M6R) - RH
D01CW620	0 Sta Lak Tangian Fark F24 MED & F24 MEL Accomply



2 3 4 5 6 *see overleaf for images of rear diffusers on cars. Note, model specific diffusers are listed in the model specific brochure





» WINGS (FRONT/REAR)

>> CLICK TO VIEW TECH DATA >> CLICK TO VIEW REAR WING FAQ

>> CLICK TO VIEW WING SELECTION GUIDE

WINGS (FRONT/REAR)

We produce various styled front and rear wings in high quality, autoclaved Carbon Fibre to generate grip-enhancing down force and to tune the aero balance of a vehicle. Multiple wing profiles are available optimised using CFD software.

The wings range from simple low drag single element wings to much larger high down force dual element wings. Dual element wings can be more efficient at generating down force than larger chord single element wings, which is why we don't offer a profile with a chord of more than 310mm.

We have also launched a new triple element wing, see page 11

Most of our wings are supplied with end plates to give more down-force by reducing the tip losses of the high and low pressure air mixing.



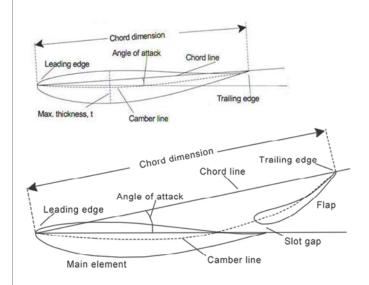




WINGS (FRONT/REAR) > TECHNICAL INFORMATION »

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

>> CLICK TO VIEW MORE CALCULATION EXPLANATIONS

>> CEICK TO VIEW HORE CAECOLA	1101		10113			
110mm CHORD						
	AoA	D/FORCE (N)	DRAG (N)	L/D	BHP ABSORBED	
	4	171	10.8	15.8	0.6	4
	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	CHOR	D	
	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	
	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	
		310) + 110	mm CH	ORD	
	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	6
	14.8	1251.0	111.0	11.3	6.6	1
	15.3	1279.0	119.0	10.7	7.1	
	15.9	1321.0	127.0	10.4	7.6	

All our wing profiles are available without mounting tabs or end plates allowing you to customise for virtually any application. The width can be specified when ordering (max. width displayed below) as well as finish (polished, sand-for-paint or painted *extra cost)

Part No.	WING PROFILES (NO MOUNTING TABS OR END PLATES)
<u>R01SB0679</u>	130mm Chord x W2100mm KEV >
R01SB0640	150mm Chord x W2100mm
<u>R01SB0358</u>	225mm Chord x W1800mm (Straight)
R01SB0357	225mm Chord x W1800mm (Curved)
R01SB0422	310mm Chord Low Downforce x W2100mm
R01SB0430	310mm Chord High Downforce x W2100mm









/	AoA	
	11.3	
	12.7	
	14.0	
	15.4	
	16.0	
	16.7	

				-	
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 + 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 + 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	
107	1410.0	220.0	6.2	12.0	

1410.0 229.0

6.2

13.6

» WINGS (FRONT/REAR) > FRONT WINGS

>> CLICK TO VIEW TECH DATA >> CLICK TO VIEW REAR WING FAQ >> CLICK TO VIEW WING SELECTION GUIDE

FRONT WINGS

Our lightweight high-downforce Carbon Fibre front wings are designed by aerodynamics writer and designer Simon McBeath and can fit a range of different cars. Available in either 150, 225 or 310LDmm chord, our front wings can be adjustably mounted from above allowing you to fine tune the angle of attack.

Not supplied are wing mounts, only wing mount support tabs which we can pack loose for you to fit in the desired position or alternatively we can drill to the required mounting width. We can also trim the width of the wing to your application. Please contact us first before ordering.



» WINGS (FRONT/REAR) > SINGLE ELEMENT BOTTOM MOUNTED REAR WINGS

>> CLICK TO VIEW REAR WING FAQ

>> CLICK TO VIEW WING SELECTION GUIDE >> CLICK TO VIEW TECH DATA

SINGLE ELEMENT BOTTOM MOUNTED

See <u>page 14</u> for end plates

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Wings can be trimmed to any width, specify when ordering

Distance between mount tabs to be specified when ordering



	Part No.	110mm CHORD		
	<u>R01SB0207</u>	W1.8m Max. Straight Clam/Boot/Roof Mounted		
	<u>R01SB0440</u>	W2.1m Max. Straight Clar	n/Boot/Roof Mounted	
	R01SB0206	W1.8m Max. Curved Clam	n/Boot/Roof Mounted	
		150mm CHORD		
	<u>R01SB0201</u>	W1.8m Max. Straight Clar	n/Boot/Roof Mounted	
	R01SB0437	W2.1m Max. Straight Clar	n/Boot/Roof Mounted	
	<u>R01SB0200</u>	W1.8m Max. Curved Clam	/Boot/Roof Mounted	
		225mm CHORD STRAI	GHT	
	<u>R01SB0358</u>	W1.8m Max. Straight End	Mounted, No Drop Mount Tabs	
	R01SB0163	W1.8m Max. Straight Clar	n/Boot/Roof Mounted	
		225mm CHORD CURVE	D	
1	<u>R01SB0310</u>	W1.24m Max. Drop-End S	Style Clam/Boot/Roof Mounted	
2	R01SB0162	W1.8m Max. Clam/Boot/R	Roof Mounted	
	<u>R01SB0357</u>	W1.8m Max. End Mountee	d, No Drop Mount Tabs	
		310mm CHORD HIGH	DOWNFORCE	
	<u>R01SB0430</u>	W2.1m Max. Straight, No	Drop Tabs	
	R01SB0429	W2.1m Max. Straight w/D	Prop Tabs & End Plates	
	R01SB0683	W1.5m Max. Curved w/Dr	rop Tabs NEW >	
		310mm CHORD LOW D	RAG	
3	R01SB0422	W2.1m Max. Straight No I	Drop Tabs	
	R01SB0421	-		

225 curved drop-end wing on a Exige S2



For wing accessories, see page 14







» WINGS (FRONT/REAR) > ACCESSORIES

ACCESSORIES > REAR WINGS









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Download latest prices, technical data, drawings and digital versions of our brochures for free. Advanced search function available to show all parts that are compatible with your car.

AUTHORISED DEALER STAMP

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