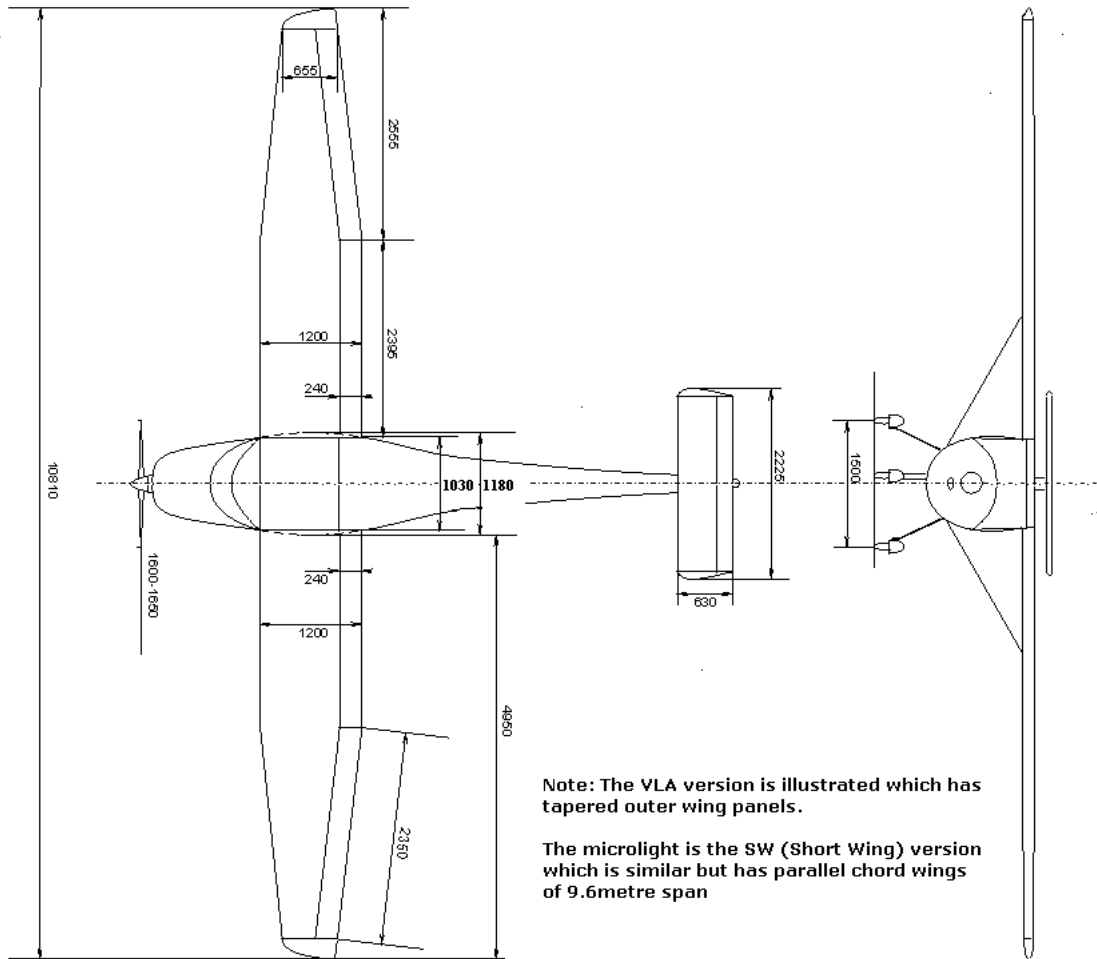
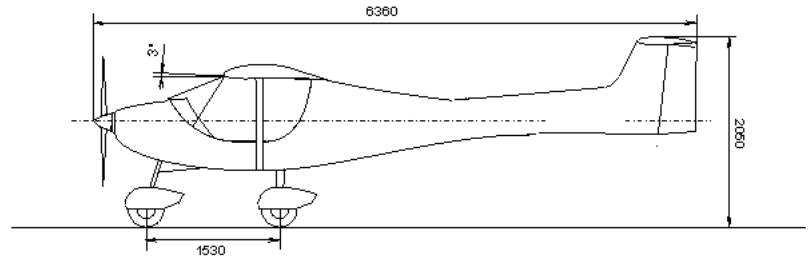




Fantasy Air Allegro 2007



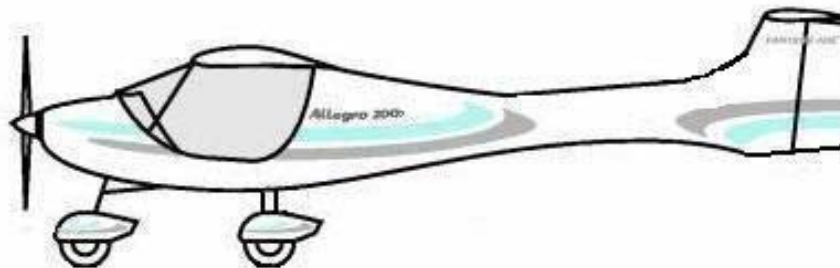
Allegro 2008 UK Specification Dimensions and Weights

Wing	SM 701 aerofoil, (Tapering wing tips on LSA/VLA version)
Engine	Jabiru 2200, Rotax 912 80hp or Rotax 912S 100hp
Fuel Tank Capacity	64 litres
Propeller	GA-Prop or Woodcomp Carbon composite ground adjustable
Dimensions	
Wing span	9.6m on SW model or 10.8m on LSA/VLA model
Overall Length	6.1m
Overall Height	2.1m
Wing Area	11.4m ²
Gliding ratio	1:12
Weights	
Max Take Off Weight	450kg
Typical Empty Weight (Depending on equipment)	262kg with Jabiru 2200 267kg with Rotax 912 265kg with Rotax 912 S 275kg with Rotax 912 S 2007 - LSA/VLA version (All weights subject to UK approval)
Load factors	+4,0g -2,0g

	Allegro Performance	80HP	100HP
Vso to Vne	Speed range is 35 - 120 knots which is wide for this type of aircraft	120 knots Vne	
Top Speed	The 100hp reaches Vne at only 5400RPM (cruise pitch prop) demonstrating the efficiency of the low-drag airframe and Woodcomp propeller	110 knots	120 knots
Cruise Speed	Cruise speed varies from a fast cruise at 110 knots to economical cruise at 80 knots. Low noise with comfortable seating and visibility make long trips easy.	95 knots	100 knots
Stall Speed Gross wt	Flap - 4.5 Like high performance gliders, the Allegro has negative flap for cruise efficiency	44 knots	
	Flap +15	40 knots	
	Flap +48 Large and powerful flaps allow excellent short field landings making this a STOL aircraft	35 knots	
Rate of Climb	(At gross wt) Low weight and minimum drag give a good climb rate. Solo climb rate for the 100hp is over 1,300 fpm	900 fpm	1000 fpm
Sink Rate	Engine idle, at 70 mph the Allegro has a gentle sink rate of 400 fpm taking 8 minutes to descend from 3,000 feet. With full flaps, the rate is over 700 fpm and it can sideslip at 1,400 fpm	400 - 1400 fpm	
Glide ratio	Glide ratio indicates the drag efficiency of the airframe and affects all performance parameters. Careful streamlining is everywhere including the smooth composite fuselage, painted wings and low-drag cooling design. The wing design also contributes to the excellent glide ratio. From 3,000 feet, the Allegro can glide nearly 7 miles!	12 : 1	

Take Off	The 100hp engine combined with the large flaps make this a true STOL aircraft	150m	120m
	(To clear 50ft / 15m)	350m	250m
Landing	Good visibility all round, powerful flaps, hydraulic brakes and tough composite landing gear make the Allegro easy to land	120m	
	(To clear 50ft / 15m)	220m	
Fuel Burn @ Cruise Speed	80hp - 16.5 ltrs/hr / 3.6 gal/hr 5200 rpm	102 knots	112 knots
	100hp - 21.5 ltrs/hr / 4.7 gal/hr		
	80hp - 14 ltrs/hr / 3.0gal/hr 4800 rpm	93 knots	100 knots
	100hp - 18 ltrs/hr / 4.0 gal/hr		
	80hp - 12 ltrs/hr / 2.6 gal/hr 4400 rpm	87 knots	95 knots
	100hp - 15.5 ltrs/hr / 3.4 gal/hr		
	80hp - 10 ltrs/hr / 2.2 gal/hr 4000 rpm	80 knots	87 knots
	100hp - 13 ltrs/hr / 2.8 gal/hr		
	80hp - 9 ltrs/hr / 2.0gal/hr 3600 rpm	67 knots	73 knots
	100hp - 10.5 ltrs/hr / 2.3 gal/hr		
Range	Standard tank capacity is 63 litres / 13 gallons - all figures nil wind, no reserve at fast cruise of 95 knots	400 miles	350 miles
	Optional wing tanks (VLA version only) increase this to 103 litres / 22 gallons which offer remarkable range at economical cruise speed. Figures at 75 knots – Still air NO reserve	900 miles	800 miles
Endurance	Standard tank at minimum power cruise of 60 knots - all figures maximum and are with NO reserve	7 hrs	5.5 hrs
	Optional wing tanks (VLA version only)	11 hrs	9.5 hrs

Note: Performance figures are based on actual tests in 2005 on Allegro 2000 Light Sport Aircraft version in the USA. The new 2008 model UK LSA/VLA versions are likely to better these results, particularly fuel burn and duration due to the better aerodynamic shape of the 2008 model



FANTASYAIR UK

The Penthouse, Bosworth Hall,
Husbands Bosworth, Leicestershire.
LE17 6LZ

+44(0)1858 880533 (Office) +44(0)1858 881335(Fax) +44(0)7790 045959(Mobile)
Web: www.fantasyairuk.com Email: sales@fantasyairuk.com