

BGA glider data sheet - Swallow

Data source: Flight Manual

Date of issue:

Manufacturer: Slingsby

Weighing Data:

	Kg	Pounds
Max weight (dry)	318	700
BGA concession non-aerobatic max weight (dry) [+3%]	327	721
Max pilot weight (seat load)		

mm inches

Forward C of G limit (aft of datum)	488	19.2
Aft C of G limit (aft of datum)	589	23.2
Front pilot position (forward)	300	11.8

Control deflections in mm

	Up	Down	Measuring point
Ailerons	105 ± 5	52 ± 5	TE inboard
Aileron droop 5 ± 2			
Elevator	105 ± 5	160 min	TE inboard port elevator
Trim	40 min	40 min	TE inboard
Rudder	Left 320 min	Right 320 min	Extreme TE

Brakes to lie fully closed when locked. Top brake to be 150mm min above wing when fully open. Stops in wing may be up to 15 mm clear of dive brake lever when brakes are open.

With dive brakes closed, lever on rib 1 must be 6 - 12 mm over top dead centre and stopped on the fibre block.

Cable tensions - Ailerons & elevator 30 - 40 lbs (13.6 - 18.1 kg)

Longitudinal datum: Wing root LE

Horizontal datum: Fuselage back 3 degrees 5 minutes tail down" That is 54:1000 tail down.

Maximum speeds

	Knots	Kph
VNE	110	204
Rough air	69	128
Manoeuvre		

	Knots	Kph
Aerotow	69	128
Winch / auto tow	64	119
Airbrakes open	110	204

Max winch weak link: 1000 lb (BGA figure 500 Kg Tost white)

Tyre pressure: 40 - 45 psi (2.8 - 3.2 Bar)

Semi aerobatic - Cloud flying permitted

Notes: -

Span 13.72 meters (45 feet)

This sheet compiled by: Tim Macfadyen Date: 30 April 2003

Updated with elevator deflection measuring point defined 7 May 2014

Horizontal datum definition clarified 10 Oct 2016