

# BGA glider data sheet - SHK 1

Data source: Flight Manual

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Manufacturer: Schempp Hirth, Flugzeugbau GmbH, Postfach 1443, D-73222 Kirchheim/Teck, Germany

Phone: 00 49 7021 7298-0

[www.schempp-hirth.com](http://www.schempp-hirth.com)

UK Agent: Southern Sailplanes

Phone: 01488 71774

Email office@southernsailplanes.com

## Weighing Data:

	Kg	Pounds
Max weight (dry)	370	816
BGA concession non-aerobatic max weight (dry) [+3%]	381	840
Max weight of non-lifting components (everything except wings)	212	467
BGA concession non-aerobatic max weight of non-lifting components [+5%]	222	491
Max pilot weight (seat load)	110	242

mm      Inches

Forward C of G limit (aft of datum)	330	13.0
Aft C of G limit (aft of datum)	466*	18.35*
Pilot position (forward of datum)	370	14.6

## Control deflections in mm

	Up	Down	Distance - hinge to measuring point	Max free play
Ailerons	123 ±5	40 ±5	240	
Elevator	110 ±10	90 ±10	616	
Trim	6	6	100	
Rudder	Left 120 ±10	Right 120 ±10	616	

\*Note the aft C of G limit was changed from 490mm (19.3 inches) by Manual revision 4 (15.11.1966)

Longitudinal datum: Wing root LE

Horizontal datum: Rear fuselage top 1000:80 tail down

## Maximum speeds

	Handbook figures (EAS)		Placard figures (IAS)	
	Knots	Kph	Knots	Kph
VNE	108	200	113	210
Rough air	75	140	79	146
Aerotow	75	140	79	146
Winch / auto tow	54	100	56	104

Max winch weak link: 700 Kg (Tost blue)

Tyre pressure: 49 psi, 3,5 bar

Semi aerobatic, cloud flying permitted

## Notes: -

This sheet compiled by: Tim Macfadyen

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Last update 8 Oct 2021 Elevator deflections corrected as per Manual revision No 5 (15.11.1966)