

BGA glider data sheet - Cirrus (Open) & VTC Cirrus

Data source: Flight Manual

Date of issue: Feb 1968 (including amendment 7)

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

Phone: 00 49 7021 7298-0

www.schempp-hirth.com

UK Agent: Southern Sailplanes

Phone: 0148 871774

Weighing Data:

	Kg	Pounds
Max weight with water	460	1014
Max weight dry	400	882
BGA concession non-aerobatic max weight (dry) [+3%]	412	908
Max water	100	220
Max pilot weight (seat load)	110	242
Max weight of non-lifting components (everything except wings)	250	551
BGA concession non-aerobatic max weight of non-lifting components [+5%]	262	579

Control deflections in mm

	Up	Down	Distance - hinge to measuring point	Max free play
Ailerons	85 -100	31 -46	204	±4 mm
Elevator	86 -106	45 -60	163	±3 mm
Rudder	Left 190-220	Right 280-350	507	
Max free play between the two elevators 3mm measured at inboard trailing edge.				

mm Inches

Forward C of G limit (aft of datum)	223	8.8
Aft C of G limit (aft of datum)	400	15.7
Pilot position (forward of datum)	500	19.7

Control surfaces	Max weights Kg	Max hinge moments KgCm
Rudder with tail chute	7.2	38
Rudder with chute & additional mass balance	8.7	38
One elevator without mass balance	0.9	4.5
One elevator + approx. 200 grams of mass balance	1.3	2.2-2.9
One elevator + approx. 300 grams of mass balance	1.55	2.2-2.9

Longitudinal datum: Wing root LE root rib.

Horizontal datum: Rear fuselage top 1000:38 tail down

Maximum speeds

	Knots	Kph
VNE	119	220
Rough air	119	220
Manoeuvre		

	Knots	Kph
Airbrakes open	108	200
Aerotow	75	140
Winch / auto tow	59	110

Max winch weak link: 850 Kg (Tost brown)

Tyre pressure: 50 psi main, 36 psi tail wheel

Semi aerobatic, cloud flying permitted. Water to be dumped before landing.

Span 17.74 meters German type certificate (LBA) number 265

This sheet compiled by Tim Macfadyen 12 April 2005

Last update 11 Sept 2019 Aft C of G limit corrected to 223mm instead of 225mm