

BGA glider data sheet - Nimbus 2c

Data source: Flight Manual & BGA data

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

	Kg	Pounds
Max weight with water	650	1433
Max weight (dry)	475	1047
BGA concession non-aerobatic max weight (dry) [+3%]	489	1079
Max weight of non lifting components (Excluding pilot and shute)	250	551
BGA concession non-aerobatic max weight of non lifting components [+5%]	262	579
Max pilot weight (seat load)	110	242

mm Inches

Forward C of G limit (aft of datum)	290	11.4
Aft C of G limit (aft of datum)	420	16.5
Pilot position (forward of datum)	570	22.4

Longitudinal datum: Wing root LE root rib 1.

Horizontal datum: Rear fuselage top 1000:45 tail down

Control deflections in mm

	Up	Down	Distance - hinge to measuring point	Max free play
Ailerons (Flaps 0)	51 - 66	28 - 36	140	3 mm total
Elevator	44 - 54	44 - 54	162	
Flaps	23 - 31	58 - 74	225	3 mm total
Rudder	Left & Right 235 - 275		450	

Maximum speeds (IAS)

	Knots	Kph
VNE	146	270
Rough air	97	180
Manoeuvre	97	180
Winch / auto tow	81	150

	Knots	Kph
Flaps +6, +10 & L	97	180
Aerotow	97	180
U/C down	146	270
Brakes open	146	270

Controls Weights

	Weight Kg	Balance cm Kg
Rudder		
Elevator		
Flap		
Aileron		

Max winch weak link: Blue 630 Kg (BGA figure Red 750 Kg)

Tyre pressure: 50 psi (3.5 Bar) Tail 22 psi (1.5 Bar)

Semi aerobatic, cloud flying permitted

Notes: -

The Nimbus 2a has an all moving tailplane. The 2b has a conventional tailplane and higher gross weight. The 2c has trailing edge airbrakes and is available with (lighter) carbon fibre wings. All are 20.3 M span.

This sheet compiled by: Tim Macfadyen/Doug Jones

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