

BGA glider data sheet - Nimbus 2

Data source: Flight Manual Date of issue:1976

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

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Weighing Data:

	Kg	Pounds
Max weight with water (Increased by TN 286/8)	580	1278
Max weight (dry)	470	1036
BGA concession non-aerobatic max weight (dry) [+3%]	484	1067
Max weight of non-lifting components (Increased by TN 286/22)	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)	410	16.1
Pilot position (forward of datum)	570	22.4

Control deflections in mm

	Up	Down	Distance - hinge to measuring point	Max free play
Ailerons (Flaps 0)	51 - 66	26 - 41	140	3 mm total
Elevator	37 - 57	62 - 82	287	3 mm total
Rudder	Left & Right 235-275		450	
Large rudder	Left & Right 205-245		400	
Flaps	Serial Nos to 85, 87 - 103 & 110	Serial Nos 86, 104 - 109 & 111 on		3 mm total
Flaps -7	-7° + 0° - 1°	-7° + 0° - 1°		
-4	-4° + 0° - 1°	-4° + 0° - 1°		
0	0°	0°		
+4	+4° + 0° - 1°			
+6	+6° + 0° - 1°	+6° + 0° - 1°		
+10		+10° + 0° - 1°		
L	+11° ± 2°	+17° ± 2°		
Measure flap deflections at inboard TE (163mm radius)				

Longitudinal datum: Wing root LE root rib 1.

Horizontal datum: Rear fuselage top 1000:45 tail down

Maximum speeds (IAS)

	Knots	Kph
VNE	146	270
Rough air	86	160
Manoeuvre	86	160
Winch / auto tow	65	120

	Knots	Kph
Aerotow	86	160
U/C down	146	270
Brakes open	146	270
Flaps +4, +6, +10 & Landing	86	160

VNE at altitude

Height - feet	Knots	Kph
0 - 9800	146	270
9800 - 19700	113	209
19700 - 32800	89	165

Max winch weak link: Blue 600 Kg (BGA figure Red 750 Kg)

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

Semi aerobatic, cloud flying permitted

The Nimbus 2 has an all moving tailplane, (it is sometimes referred to in error as the Nimbus 2a). The 2b has a conventional tailplane. The 2c has trailing edge airbrakes and higher gross weight, it 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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Revised 12 Nov 2012. Reference to Nimbus 2a corrected.