

BGA glider data sheet - Discus a, b & cs

Data source: Flight Manual

Date of issue: Dec 1984

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

	Kg	Pounds
Max weight (with water)	525	1157
Max weight dry		
BGA concession non-aerobatic max weight (dry) [+3%]		
Max weight of non lifting components (everything except wings) a & b models S/N 245 & on	240	529
	255	562
BGA concession non-aerobatic max weight of non lifting components [+5%] a & b models S/N 245 & on	252	556
	268	590
Max pilot weight (seat load)	110	242

mm Inches

Forward C of G limit (aft of datum)	260	10.24
Aft C of G limit (aft of datum)	400	15.75
Pilot position (forward of datum)	450	17.72

Control deflections in mm

	Up	Down	Distance - hinge to measuring point	Max free play
Ailerons	65±5	35±5	162	±3
Elevator	47±4	47±4	157	±3
Rudder	Left 160 ±20	Right 160 ±20	340	

	Weight kg	Moment kg cm
Ailerons	3,71 - 4,21	1,7 - 3,7
Elevator	0,67 - 0,85	2,6 - 3,3
Rudder	4,43 - 4,97	0 - 4,9

Longitudinal datum: Wing root LE

Horizontal datum: Rear fuselage top 1000:31 tail down, Discus a & 1000:44, Discus b

Max fore & aft play at the wing tip 30mm total.

For every 28 litres of water in the wings put 1 litre in the fin tank.

Each nose weights weighs 2.2 kg and reduces min pilot weight by 5 kg.

Maximum speeds

	Knots	Kph
VNE	135	250
Rough air	108	200
Manoeuvre	108	200
Aerotow	97	180
Winch / auto tow	81	150

VNE at altitude

Height (meters)	Height (feet)	Knots	Kph
4 - 5 000	13 - 16400	131	243
Up to 6 000	Up to 19680	124	230
Up to 7 000	Up to 22960	117	217
Up to 8 000	Up to 26240	111	205
Up to 9 000	Up to 29520	104	193
Up to 10 000	Up to 32800	98	182
Up to 12 000	Up to 39360	85	158

Max winch weak link: 600 Kg (Blue)

Tyre pressure: Up to 360 Kg (794 lb) AUW 50 psi, 3,5 bar. Higher weights, 64 psi, 4,5 bar, tail wheel 2 Bar.

Semi aerobic, cloud flying permitted

This sheet compiled by: Tim Macfadyen Date: 8 Nov 2002

Last update 1 Jan 2015 TN 360-27 added – Max weight of non-lifting components increased.