

BGA glider data sheet -SZD 55-1

Data source: Flight manual

Date of issue: 1990

Manufacturer: PZL Bielsko

UK Agent:

Web site:

Phone:

Fax:

Link to mandatory mods:

Weighing Data:

	Kg	Pounds
Max weight with water	500	1102
Max weight (dry)	350	772
BGA concession non-aerobatic max weight (dry) [+3%]	360	795
Max weight of non lifting components (everything except wings)	248	547
BGA concession non-aerobatic max weight of non lifting components [+5%]	260	574
Max pilot weight (seat load)	110	242

mm Inches

Forward C of G limit (aft of datum)	283	11.15
Aft C of G limit (aft of datum)	441	17.37
Front pilot position (forward)	580	22.85

Control deflections in mm

	Up	Down	Distance - hinge to measuring point	Max free play
Ailerons	68±2	41±2	135	±3*
Elevator	30° ±1	20° ±1	130	±3*
Rudder	Left & right 206 ± 5			
Airbrakes	180 ± 3 at outer end			

*Max free play is measured at the stick with the control surface locked central.

Longitudinal datum: Wing root LE

Horizontal datum: Wing root horizontal (LE & TE at same height above ground)

Aileron mass balance (drive disconnected). Weight at inboard TE / aileron weight ≤ 0.267

Elevator mass balance (drive disconnected). Weight at inboard TE / elevator weight ≤ 0.262

Rudder mass balance (drive disconnected, rudder horizontal ie on its side). Weight at TE ≤ 0

Maximum speeds

VNE at height

Tail tank

	Knots	Kph
VNE	137	255
Rough air	105	195
Manoeuvre	105	195
Aerotow	83	155
Winch / auto tow	78	145
U/C down	105	195
Airbrakes open	137	255

Height (feet)	Knots	Kph
6 500 - 10 000	130	242
10 000 - 15 000	120	223
15 000 - 20 000	110	204
20 000 - 25 000	100	185
25 000 - 30 000	90	167
30 000 - 35 000	80	149
35 000 - 40 000	70	130

Wing water (kg or litres)	Max tail water (kg or litres)
25	1.7
50	3.3
75	4.7
100	6.0
125	7.2
150	8.3
175	9.5

Max winch weak link: 660 Kg (blue)

Tyre pressure: Main 3 Bar (44 psi) Tail wheel 1.5 bar (21 psi)

Semi aerobatic and cloud flying permitted without water

Fin battery weighs 2.2 kg (4.85 pounds) and is 4385mm aft. Fin Water is 4435mm aft.

This sheet compiled by: Tim Macfadyen Date: 3 April 2002