

BGA glider data sheet - ELFE S2 & S3

Data source; Flight manual Date of issue:

Manufacturer: A Neukom, Neuhausen, Switzerland

Link to mandatory mods:

Weighing Data:

	S2 (Kg)	S3 (Kg)
Max weight (dry)	350	325
BGA concession non-aerobatic max weight (dry) [+3%]	361	335
Max pilot weight (seat load)	110	110
	S2 (mm)	S3 (mm)
Forward C of G limit (aft of datum)	250	250
Aft C of G limit (aft of datum)	390	360
Pilot position (forward of datum)	671	600

Control deflections in degrees

	Up	Down
Ailerons	25°	16°
Elevator	23°	20°
Rudder	Left 30°	Right 30°

Longitudinal datum: Wing root LE (Rib 1).

Horizontal datum: Rear fuselage top 1000:75 tail down (bottom of baggage tray horizontal).

Design loads: S2 +4 to -2G S3 +5.3 to -2.65 G

Maximum speeds

	Knots		Kph	
	S3	S2	S3	S2
VNE	108	97	200	180
Rough air	75	65	140	120
Aerotow	75	65	140	120

	Knots		Kph	
	S3	S2	S3	S2
Winch / auto tow	54	54	100	100
Airbrakes open	108	97	200	180
U/C down	108	97	200	180

Max winch weak link: 540 Kg (White)

Tyre pressure: 36 psi, 2,5 Bar

~~Non~~/semi/fully aerobic, cloud flying permitted by BGA

Notes: -

Unusual composite construction. The wings have wooden spars and glass/balsa/glass skins.

The centre section is held to the fuselage with bolts in tension. It is absolutely vital that of the threads of these bolts are in first class condition.

The rotating trailing edge brakes suck open badly. It is recommended to fit springs to help close them. Details are available from Tim Macfadyen.

This sheet compiled by: Tim Macfadyen

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