

BGA glider data sheet - ELFE S4d

Data source: Flight manual Dated Feb 1976

Designer: A Neukom, Neuhausen, Switzerland

Constructors: Some supplied as kits. At least one was built by The Youth Training Establishment at Oerlinghaussen, Germany

Weighing Data:

	Kg
Max weight	350
BGA concession non-aerobatic max weight dry (+3%)	360,5
Max weight of non-lifting components (everything except wings)	203
BGA concession non-aerobatic max weight of non-lifting components [+5%]	213
Max pilot weight (seat load)	110

mm

Forward C of G limit (aft of datum)	280
Aft C of G limit (aft of datum)	390
Pilot position (forward)	600

Control deflections in mm

	Up	Down	Distance - hinge to measuring point	Max moment Kg cm
Ailerons	75±5	48±5	175	20
TP (all moving)	63±5	63±5	460	74
Rudder	220±15 Both ways		420	22

Longitudinal datum: Wing root LE Horizontal datum: 1000:66 Rear fuselage top, tail down

Maximum speeds

	Knots	Kph
VNE	113	210
Rough air	81	150
Manoeuvre	81	150

	Knots	Kph
Aerotow	75	140
Winch / auto tow	59	110

Height	VNE Kph
3000M	210
4000M	200
5000M	190

Height	VNE Kph
6000M	180
7000M	170

Max winch weak link: Tost White 500 Kg ± 30 Kg

Tyre pressure: 36 psi (2,5Bar)

Semi aerobatic, cloud flying not permitted

Span: 15 meters Wood and glass fibre construction with aluminium main spars

Category: OSTIV Utility (+ 5.3G -2.G up to Max manoeuvre, +4 -1.5 at VNE with brakes shut)

Swiss type certificate No. S 39-05 ersetzt Nr. 10.139-11 dated 18.12.1968