

BGA glider data sheet - AC-4c

This glider is a developed version of the ME7 with a retracting undercarriage

Data source: Owners' Manual Date of issue: 13/6/2000

Manufacturer: Avia Stroitel Ltd

UK Agent: Russia Sailplanes Ltd Web site: www.russiasailplanes.co.uk Phone: 01432 851886

Link to mandatory mods:

Weighing Data:

| | Kg | Pounds |
|---|-----|--------|
| Max weight (dry) | 265 | 584 |
| BGA concession non-aerobatic max weight (dry) [+3%] | 273 | 602 |
| Max weight of non lifting components (everything except wings) | | |
| BGA concession non-aerobatic max weight of non lifting components [+5%] | | |
| Max in baggage compartment | 15 | 33 |
| Max pilot weight (seat load) | 110 | 242 |
| | mm | Inches |
| Forward C of G limit (aft of datum) | 13 | 0.51 |
| Aft C of G limit (aft of datum) | 156 | 6.14 |
| Pilot position (forward) | 380 | 14.96 |

Control deflections in mm

| | Up | Down | Distance - hinge to measuring point | Max free play |
|----------|------------------|------|-------------------------------------|---------------|
| Ailerons | 17° | 17° | | |
| Elevator | 23° | 23° | | |
| Rudder | Left & Right 30° | | | |

Longitudinal datum: Wing root LE

Horizontal datum: Rear fuselage top 1000:90 tail down

The three nose weights weigh 3.6 kg (8 lb) each and are 1400 mm forward of datum.

Maximum speeds

| | Knots | Kph |
|-----------|-------|-------|
| VNE** | **119 | **220 |
| Rough air | 87 | 160 |
| Manoeuvre | 84 | 156 |
| Aerotow | 87 | 160 |

| | Knots | Kph |
|------------------|-------|-------|
| Winch / auto tow | 60 | 111 |
| Airbrakes open | 97 | 180 |
| U/C operation | 87 | 161 |
| Aerobatics | **97 | **180 |

| Altitude feet | VNE knots | VNE kph | Vra knots | Vra kph |
|---------------|-----------|---------|-----------|---------|
| 5000 | 110** | 205 | 81 | 148 |
| 10 000 | 104** | 188 | 75 | 137 |
| 15 000 | 94** | 175 | 68 | 126 |
| 20 000 | 87** | 160 | 64 | 116 |
| 25 000 | 80 | 148 | 57 | 106 |

**VNE is presently limited to 87 Knots and aerobatics and cloud flying are presently prohibited by BGA Mod 035/02/2003 on some examples.

Max winch weak link: 500 Kg (White)

Tyre pressure: Main and rear 29 psi (2 Bar).

Semi aerobatic at up to 97 knots, cloud flying permitted.

Span 12.6 meters

This sheet compiled by: Tim Macfadyen Date 15 May 2003