

BGA glider data sheet - ASW 24 & 24B

Data source Flight & Maintenance manuals

Date of issue: 1989 (Revised 1992)

Manufacturer: Schleicher

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Weighing Data:

| | Kg | Pounds |
|---|------|--------|
| Max weight with water | 500 | 1102 |
| Max weight dry | 365 | 805 |
| BGA concession non-aerobatic max weight (dry) [+3%] | 378 | 829 |
| Max weight of non lifting components (everything except wings) | 245* | 540* |
| BGA concession non-aerobatic max weight of non lifting components [+5%] | 257* | 567* |
| Max pilot weight (seat load) | 115 | 253 |
| ASW 24 upper luggage compartment | 15 | 33 |
| ASW 24 lower luggage compartment | 10 | 22 |
| ASW 24B luggage compartment | 15 | 33 |
| | Mm | Inches |
| Forward C of G limit (aft of datum) | 240 | 9.45 |
| Aft C of G limit (aft of datum) | 370 | 14.57 |
| Pilot position (forward) | 540 | 21.26 |

Control deflections in mm

| | Up | Down | Distance - hinge to measuring point | Max free play |
|--|--------------------------|-------------|-------------------------------------|---------------|
| Ailerons | 32.5 ± 4 | 24.5 ± 4 | 90 | 3.5 total |
| Aileron Zero setting 2.5 ± 2 mm down | | | | |
| Elevator | 26 ± 2.5 | 26 ± 2.5 | 75 | 2.0 total |
| Rudder | Left & Right 150 ± 10 | | 280 | 2.0 total |
| Control surface mass & mass balance limits | | | | |
| | Kg | | Kg cm | |
| Ailerons | 2.70 – 3.50 | | 0.82 – 1.46 | |
| Elevator (each) | 0.64 – 0.79 | | 1.40 – 1.80 | |
| Elevator actuator | 0.34 – 0.42 | | 1.40 – 2.00 | |
| Rudder | 3.20 - 4.50 | | 0 - 2.70 | |

* The Max weight of non-lifting components is 230 kg (507 lb) and the BGA concession is not applicable if TN 2 has not been carried out.

Longitudinal datum: Wing root LE (not the fairing).

Horizontal datum: Rear fuselage top 1000 : 49 rear down (2550 – 3550 mm aft of datum)

Maximum speeds

| | Knots | Kph |
|------------------|-------|-----|
| VNE | 151 | 280 |
| Rough air | 111 | 205 |
| Manoeuvre | 111 | 205 |
| Winch / auto tow | 75 | 140 |

| | Knots | Kph |
|-----------------|-------|-----|
| Aerotow | 97 | 180 |
| U/C down | 111 | 205 |
| Airbrakes out | 151 | 280 |
| Yellow Δ on ASI | 51.5 | 95 |

| Height feet | Height meters | VNE knots | VNE Kph |
|-----------------|---------------|-----------|---------|
| 10 000 - 16 400 | 3 - 5 000 | 135 | 250 |
| 16 400 - 23 000 | 5 - 7 000 | 121 | 225 |
| 23 000 - 29 500 | 7 - 9 000 | 108 | 200 |
| 29 500 - 36 000 | 9 - 11 000 | 94 | 175 |
| 36 000 - 43 000 | 11 - 13 000 | 81 | 150 |

Max winch weak link: 660 daN (Blue).

Tyre pressure: Main 36 psi (2.5 bar). Tail 36 psi (2.5 bar).

Semi aerobatic (without water). Non aerobatic with winglets. Cloud flying is permitted without water.

Each 1 Kg nose weight reduces min cockpit weight by Kg (lb).

The Hydraulic brake fluid is Aeroshell 4, or SAE J 1703 mineral fluid. It is very corrosive.

Span 15 meters

This sheet compiled by Tim Macfadyen / David Reilly

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