

## BGA glider data sheet – Cobra 15 - SZD 36A

Data source: Manufacturers' Handbooks

Date of issue: 1972

Manufacturer: PZL (Poland) Present agent Henryk Mynarski, Glider Factory, Jeżów, Poland

### Weighing Data:

	Kg	Pounds
Max weight (dry)	385	849
BGA concession non-aerobatic max weight (dry) [+3%]	396	874
Max weight of non-lifting components (everything except wings)	247	545
BGA concession non-aerobatic max weight of non-lifting components [+5%]	259	572
Max pilot weight (seat load)	128	282

mm

Forward C of G limit (aft of datum)	265	
Aft C of G limit (aft of datum)	409	
Front pilot position (forward)	620	

### Control deflections

	Up	Down	Max control total free play
Ailerons	34°±2°	16°±1°	2 <sup>mm</sup> at TE root
Elevator (all moving TP)	14°±1°	7°±1°	2 <sup>mm</sup> at front of mass balance
Geared tab*	9°±1°	12°±1°	1 <sup>mm</sup> at TE
Airbrakes	145 ± 10 <sup>mm</sup>	175 ± 10 <sup>mm</sup>	1,5 <sup>mm</sup> fore & aft
Rudder	35° Left & right		2 <sup>mm</sup> at TE bottom

Free plays are measured with the stick (or cockpit controls) locked central. The tab is measured with the elevator locked.

\*The tab is 5° down with the elevator neutral.

Longitudinal datum: Wing root LE

Horizontal datum: Rigging points on fuselage level

### Maximum speeds

	Knots	Kph
VNE	100	185
Rough air	76	140
Manoeuver	76	140

	Knots	Kph
Aerotow	76	140
Winch / auto tow	59	110

Max winch weak link: 750 Kg (Red)

Tyre pressure: 36 psi (2,5 Bar)

Cloud flying and night flying prohibited. The Cobras were originally fully aerobatic but were reduced to non-aerobatic but with spinning permitted and G limits of (+4 -1.5G) on reaching 16 years old by manufacturers' instructions BE-005/36/81 and BE-007/36/2010 and EASA Major change approval No 10031789.

The life is increased from 2000 hours to 4000 hours if the required inspections are carried out.

Wing span 15 meters

This sheet compiled by: Tim Macfadyen Date: 4 April 2003

Updated 3 April 2015 with BE-007/36/2010 & EASA Major change approval No 10031789 which reduce speeds and aerobatic category.

Last update 13 October 2016. C of G limits and aerobatic category corrected as per the TCDS and current Flight Manual.