

## BGA glider data sheet - Zugvogel III, IIIA & IIIB

Data source: Manufacturer's handbook

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Manufacturer: Scheibe-Flugzeugbau GmbH, August Pfaltz-Str. 23, Dachau/Obb., Germany

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<b>Weighing Data:</b>	Kg	Lb
Max weight	365	805
Max weight of non-lifting components	215	474
Max pilot weight (seat load)	100	220

<b>Control deflections in mm</b>				
	Up	Down	Distance hinge to measuring point	Max free play
Ailerons	112/ 122	36/46	250	
Elevator	115/ 155	115/ 155	400	
Trim				
Rudder	Left & right 320/380		715	

	mm	Ins
Forward C of G limit (aft of datum)	343	13.5
Aft C of G limit (aft of datum)	513	20.2
Pilot position (forward)		

Longitudinal datum: Wing LE 550mm (21.6 inches) from the fuselage centre line.

Horizontal datum: Line through TE and tangent to wing under-surface 550mm (21.6 inches) from the fuselage centre line.

### Maximum speeds

	Knots	Kph
VNE	108	200
Airbrakes out	108	200
Rough air	75	140

	Knots	Kph
Aerotow	75	140
Winch / auto tow	54	100

Max winch weak link: 600 Kg (Tost blue) Tyre pressure: Main 35 psi (2.4 Bar)

Original certification was to German BVS category 2, (+4, -2G) non aerobatic (no spinning), cloud flying permitted.

The Zugvogel III has a skid and droppable wheels. The IIIA has a conventional fixed wheel. It is believed that the IIIB has a slightly more streamlined fuselage and that all the above data therefore applies to all models.

It is believed that all Zugvogels were made with Aerodux glue and therefore will not suffer from the glue deterioration as happens with Kaurite glued gliders.

The natural frequency (oscillating one wing tip with the other free) is 154 Hz.

Span 17 Meters

This sheet compiled by: Tim Macfadyen

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