

BGA glider data sheet - Pilatus B4-PC11 (& -A & -AF)

Data source: Manufacturer's Manual

Date of issue: Dec 1974

Manufacturer: Pilatus Aircraft Ltd, Stans, Switzerland.

Manufactured under licence by Nippy in Japan since 1978 as the NP-100 Albatross.

Weighing Data:

Control deflections in mm

	Kg	Pounds
Max weight	350	772
BGA concession non-aerobatic max weight [+3%]	360	795
Max pilot weight (seat load)	114	252

	Up	Down	Measuring point
Ailerons	120 ± 5	58 ± 5	TE inboard end
Elevator PC11	100 ± 5	70 ± 5	TE centre
Elevator PC11A & AF	100 ± 5	85 ± 5	TE centre
Rudder	Left & right 230 ± 10		TE bottom
Airbrakes. 7.25 to 8.25 pounds force required to unlock the mechanism on each wing.			

	mm	Inches
Forward C of G limit (aft of datum)	280	11.0
Aft C of G limit (aft of datum)	420	16.5
Pilot position (forward of datum) Min weight pilot sat fully forward	610	24
Pilot position (forward of datum) Max weight pilot sat fully back	531	20.9

Longitudinal datum: Wing root LE

Horizontal datum: Rear fuselage top 1000:80 tail down

The fixed main wheel is 147mm (5.79") aft of datum. Distance between wheels is 3368mm (132.6").

The retractable main wheel is 164mm (6.46") aft of datum. Distance between wheels is 3351mm (131.9").

Maximum speeds

	Knots	Kph
VNE	130	240
Rough air	88	163
Manoeuvre	88	163

	Knots	Kph
Aerotow	88	163
Winch / auto tow	70	130
Airbrakes open	130	240

Max winch weak link: 550 kg (Tost white) BGA concession 600 Kg (Tost blue)

Tyre pressure: Main 27 psi (1.9 bar) Tail 25 psi (2.5 bar)

Pilatus B4-PC11- Semi aerobatic, cloud flying permitted.

Pilatus B4-PC11-A - Fully aerobatic (+ 7.00, -4.79 g). Cleared for inverted flying, rolling manoeuvres and outside loops. Structurally as B4-PC11 but with toe straps, 5-point harness and increase down elevator travel.

Pilatus B4-PC11-AF - Fully aerobatic. Cleared as "A" model and for flick manoeuvres.

As B4-PC11-A model but with rear fuselage strengthening to cater for flick manoeuvres.

Strengthening may be factory fitted internally or external, fitted as a modification.

Span 15 meters

This sheet compiled by: Tim Macfadyen Last updated 3 Aug 2008

Distances from wheel to datum and pilot positions corrected as per Manual revisions 01473 & 01574E