

BGA glider data sheet - Kestrel 19 (T.59 C, D & F)

Data source: Pilots Notes/Operators Handbook Date of issue: 1973

Manufacturer: Slingsby Phone: 01751 432474 Fax: 01751 431173

Link to mandatory Mods:

Weighing Data:

	Kg	Pounds	
Max weight with water	Series 1, 2 & 3 Series 4	472 565	1040 1245
Max weight (dry)	Series 1, 2 & 3 Series 4	449 494	990 1090
BGA concession non-aerobatic max weight(dry)[+3%]	Series 1,2, 3	462	1020
BGA concession non-aerobatic max weight (dry) [+3%]	Series 4	509	1123
Max pilot weight (seat load)			
Max water (tank size)	73	160	

Control deflections in mm (or degrees where marked °)

	Up	Down	Measuring point	Max free play
Elevator	16.5° ±1.5°	16.5° ±1.5°	Inboard end	1 Total
Airbrakes	113±5		At tip	
Rudder	Left & right 160±20		Bottom TE	6 Total
Anti balance tab	17° ±1.5°	16° ±1.5°		
Series 1 trim set full forward, force to hold stick full back 14.5 lb min Series 1 trim set full back, force to hold stick full forward 14.5 lb min Series 2 trim set full back, force to hold stick full forward 7 lb ± ½ lb Series 2 trim set full forward, force to hold stick full back 8.5 lb ± ½ lb				
	Flaps		Ailerons	
Flaps -2	-8°±1°		-8°±1°	
Flaps 0	0°±1° 8°±1° up 4°±1° down with full aileron		0°+1°-2° 20°±2°up 10°±2° down	
Flaps +2	12°±1°		10°±1°	
Landing flap & +2	35°±2°			
	mm	Inches		
Forward C of G limit (aft of datum)	292	11.5		
Aft C of G limit Series 1	375	14.76		
Aft C of G limit Series 2 (with tab)	402	15.83		
Pilot position (forward of datum)	437	17.2		
			Flaps 3 Total	Ailerons 1,5 Total

T.59 D is CAA certified. T.59 C & F are BGA certified. The T.59 C has a carbon spar.

Series 2 Kestrel 19s have an anti-balance tab on the elevator (Mod 13). C of G limits and max speeds with flaps down change.

The main wheel is 2.5 inches behind datum. The tail wheel is 163 inches behind the main wheel.

Longitudinal datum: Wing root LE 500mm from the fuselage centre

Horizontal datum: Rear fuselage top 2.5 degrees tail down

Maximum speeds

	Knots	Kph		Knots	Kph	
VNE (Flaps -2 or -1)	135	250	Flaps 0 & +1	Series 1	108	200
Rough air	105	195	Flaps 0 & +1	Series 2, 3 & 4	100	185
Aerotow	81	150	Flaps + 2	Series 1	81	150
Winch / auto tow	70	130	Flaps + 2	Series 2, 3 & 4	70	130
Gear down	105	195	½ Landing flap		70	130
Airbrakes open	135	250	Landing Flap		65	120

Max winch weak link: 1000 lb (450 Kg) BGA figure 600 Kg (blue)

Tyre pressure: Main wheel 40 - 45 PSI Tail wheel 22 PSI

Aerobatics prohibited. Cloud flying permitted

This sheet compiled by: Tim Macfadyen Last update: 8 September 2007 (Series 3 & 4 data included)