

BGA glider data sheet - T.31 (Tandem Tutor, Kirby Cadet Mk III)

Data source: Air Cadet Publication, ATC publication, A.P.2983A & Slingsbys' drawing DRG 31B-301

Manufacturer: Slingsby

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Weighing Data:

	Kg	Pounds
Max weight (dry)	377	830
Max pilot weight (seat load)	109	240

mm inches

Forward C of G limit (aft of datum)	381	15.0
Aft C of G limit (aft of datum)	533	21.0
Front pilot forward of datum	419	16.5
Rear pilot position aft of datum	571	22.5

Control deflections in mm

	Up	Down	
Ailerons	186-192	80-110	Zero TE droop
Elevator	162 min	162 min	
Rudder	Left 255-315	Right 255-315	
Spoilers	Fully open 102-114		

Aileron cable tensions are 25-30 lb measured on either vertical cable by the rear windscreen.

Elevator cable tension is 35-40 lb measured in the rear cockpit on the cable running aft out of the control torque tube.

Longitudinal datum: Wing root LE

Horizontal datum: Top longeron horizontal

Maximum speeds

	Knots	Kph
VNE T.31	69	128
VNE Kirby Cadet Mk III	70	130
Rough air	52	96

	Knots	Kph
Manoeuvre	52	96
Aerotow	52	96
Winch / auto tow	48	89

Max winch weak link: 1000 lb (BGA figure 500 Kg Tost white)

Tyre pressure: 30-35 psi

Non aerobatic - Cloud flying not permitted

Notes: -

Span 13.2 meters

This sheet compiled by: Dave Bullock & Tim Macfadyen Date: 6 May 2003

Updated 5 April 2014 Control deflections changed to inches instead of degrees