

BGA glider data sheet - **Grasshopper T. Mk 1**

Also known as the **Slingsby T.38 Primary**

Data source: BGA & HQ Air Cadets Manual ACP 173 section 2 & Grasshopper T Mk. I Sailplane manual A.P. 4472A (Amendment AL.4)

Manufacturer: Slingsby Sailplanes

Weighing Data:

	Kg	Pounds
Max weight	249	550
Max pilot weight (seat load)	109	240
Min pilot weight	27	60

mm Inches

Forward C of G limit (aft of datum)	318	12.5
Aft C of G limit (aft of datum)	483	19.0
Pilot position (forward)	318	12.5
Forward ballast forward of datum	1092	43
Aft ballast aft of datum	1473	58

Longitudinal datum: Wing root LE

Control deflections in mm

	Up minimum	Down minimum	Measuring point
Ailerons	175	175	Root TE
Elevator	159	159	TE
Rudder	Left & right 275		TE

Horizontal datum: Bottom of keel horizontal.

Pilots weight v ballast

Pilots weight (lb)	60 - 79	80 - 99	100 - 119	120 - 139	140 - 149	150 - 159	160 - 240
Weights (lbs)	40	30	20	10	0	10	20
	Front brackets					Rear brackets	

Maximum speeds

	Knots	Kph
VNE	70	130
Winch/auto tow	39	72

	Knots	Kph
Aerotow	46	85

Max winch weak link: 500 Kg (White)

Non aerobatic, cloud flying not permitted

11.886 meters span