

# BGA glider data sheet - Ventus c 15, 16.6 & 17.6 M (Non turbo)

Data source: Manufacturer's Flight & Maintenance Manuals

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Manufacturer: Schempp Hirth, Flugzeugbau GmbH, Postfach 1443, D-73222 Kirchheim/Teck, Germany

Phone: 00 49 7021 7298-0

Fax: 00 49 7021 7298-199

www.schempp-hirth.com

UK Agent: Southern Sailplanes Phone: 0148 871774

Fax:

## Weighing Data:

## Control deflections in mm

	Kg	Pounds
Max weight 15M	525	1157
Max weight 16.6 & 17.6 M	500	1102
Max weight of non lifting components (everything except wings)	241	531
BGA concession non-aerobatic max weight of non lifting components [+5%]	253	558
Max pilot weight (seat load)	110	242
Max baggage compartment load	2	4.4

	Up	Down	Distance - hinge to measuring point
Ailerons (	41 ± 4	32 ± 3	172 Check with flaps at -1
Elevator	40 ± 4	47 ± 4	157
Rudder	Left & right 160±20		340
Flaps -2 -1 L	Up 15 ± 2 0 ± 2 Down 46 ± 2		172 Check with ailerons neutral
Max free play between inner & mid ailerons ± 2. Max free play between mid & outer ailerons ± 1			

	mm	Inches
Forward C of G limit (aft of datum)	200	7.87
Aft C of G limit (aft of datum)	325	12.8
Pilot position (forward of datum)	518	20.4

	Max free play	Weight kg	Moment kg cm
Each elevator	± 3	0.67 - 0.85	2.6 - 3.3
Rudder	Nil	4.43 - 4.97	0 - 2.4
Inner ailerons	± 3 at root	2.31 - 2.95	9.7 - 12.3
Mid ailerons	See above	2.0 - 2.3	1.8 - 3.0
Outer ailerons	See above	1.02 - 1.30	3.2 - 4.1
Tip ailerons 16.6 & 17.6	See above	0.14 - 0.18	0.3 - 0.4

Max fore & aft play at the wing tip 30mm.

Longitudinal datum: Wing root LE

Horizontal datum: Rear fuselage top 1000:44 tail down

Maximum speeds		
	Knots	Kph
VNE	146	270
Rough air	97	180
Manoeuvre	97	180
Aerotow	97	180
Winch / auto tow	81	150
Flaps 0, +1, +2 & L	86	160
U/C extension	97	180

VNE at altitude			
Height (meters)	Height (feet)	Knots	Kph
3 000	9840	144	267
4000	13 100	137	253
5 000	16 400	130	240
6 000	19 680	123	227
7 000	22 960	116	215
8 000	26 240	110	203
9 000	29 520	103	191
10 000	32 800	97	180
12 000	39 360	84	156

Max winch weak link: 667 Kg (Tost blue)

Semi aerobatic without water, cloud flying permitted

The wheel is 100mm aft of datum, the tail skid is 4096mm aft of the main wheel, (tail wheel 4066mm aft of main wheel).

The 2 kg (4.4 lb) nose weights each reduce min cockpit weight by 5 kg (11 lb).

Put a maximum of 1 kg of water in the fin tank for every 30 kg of water in the wings.

Tyre pressure: Up to 330 Kg (727 lb) AUW 3,5 bar (50 psi). Over 330 Kg (727 lb) AUW 4,7 bar (67 psi). Tail wheel 2 bar (28 psi)

The ASI is connected to the static vents under the wings. The nose and rear fuselage statics are connected together for various.

This sheet compiled by: Tim Macfadyen

Last update: 10 April 2009 (minor clarifications)