Flight test report

Classification B

 Manufacturer
 Ozone Gliders

 Address
 2, Queens Drive

 LA46LN
 UK

 Representive
 none

 Type of glider
 UltraLite 19

 Trimmer
 not available

Certification number Date of flight test Place of test PG 121.2008 24/01/2008 Villeneuve



Test Pilot Seiko Fukuoka Harness altiplume supair

Total weight in flight 57 kg

Claude Thurnheer Gin Genie III M 45cm 90 kg

		Min weight		Max weight	
1. Inflation/Tal					
	Rising behaviour	Smooth, easy and constant rising	А	Smooth, easy and constant rising	A
	Special take off technique required	No	A	No	A
2. Landing					
	Special landing technique required	No	А	No	A
3. Speed in str		Ma a		Ma a	
	Trim speed more than 30 km/h	Yes	A	Yes	A
	Speed range using the controls larger than 10 km/h	Yes Less than 25 km/h	A	Yes Less than 25 km/h	A
4. Control mov	Minimum speed	Less than 25 km/n	A	Less than 25 km/h	A
4. Control mov	Max. weight in flight up to 80 kg				
	Symmetric control pressure/travel	Increasing, Greater than 55 cm	А	not available	(
	Max. weight in flight 80 kg to 100 kg	increasing, creater than 55 cm	~	not available	
	Symmetric control pressure/travel	not available	0	Increasing, Greater than 60 cm	A
	Max. weight in flight greater than 100 kg	not available	Ŭ	indicasing, creater than of oni	
	Symmetric control pressure/travel	not available	0	not available	(
5. Pitch stabili	ity exiting accelerated flight		-		
	Dive forward angle on exit	Dive forward less than 30°	А	Dive forward less than 30°	A
	Collapse occurs	No	А	No	A
6. Pitch stabili	ity operating controls during accelerated flight				
	Collapse occurs	No	А	No	A
7. Roll stabilit	y and damping				
	Oscillations	Reducing	А	Reducing	A
8. Stability in g					
	Tendency to return to straight flight	Spontaneous exit	А	Spontaneous exit	A
9. Behaviour i	n a steeply banked turn				
	Sink rate after two turns	More than 14 m/s	В	More than 14 m/s	B
10. Symmetric	front collapse				
	Entry	Rocking back less than 45°	A	Rocking back less than 45°	A
	Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course	A	Dive foward 0°to 30°, Keeping course	A
	Cascade occurs	No	A	No	A
	With accelerator	Dealize healt less than 45%	٨	Rocking back less than 45°	
	Entry	Rocking back less than 45°	A A	Spontaneous in less than 3 s	A
	Recovery Dive forward angle on exit	Spontaneous in less than 3 s Dive foward 0°to 30°, Keeping course	A	Dive foward 0°to 30°, Keeping course	A
	Cascade occurs	No	Â	No	A
11 Exiting de	ep stall (parachutal stall)	No	~		<i>_</i>
The Exiting dec	Deep stall achieved	Yes	А	Yes	A
	Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
	Dive forward angle on exit	Dive forward 0°to 30°	A	Dive forward 0°to 30°	A
	Change of course	Changing course less than 45°	А	Changing course less than 45°	A
	Cascade occurs	No	А	No	A
12. High angle	e of attack recovery				
	Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	A
	Cascade occurs	No	А	No	A
13. Recovery f	from a developed full stall				
	Dive forward angle on exit	Dive forward 0°to 30°	Α	Dive forward 30° to 60°	В
	Collapse	No collapse	Α	No collapse	A
	Cascade occurs (other than collapse)	No	A	No	A
	Rocking back	Less than 45°	A	Less than 45°	A
	Line tension	Most line tight	A	Most line tight	A
14. Asymmetri	IC COllapse				
	With 50% collapse-Maximum dive forward or roll angle		,	Less than 00% Dive an address in 45% to 45%	
	With 50% collapse-Maximum dive forward or roll angle Change of course until re-inflation	Less than 90°, Dive or roll angle 0° to 15°	A	Less than 90°, Dive or roll angle 15° to 45°	A
	With 50% collapse-Maximum dive forward or roll angle Change of course until re-inflation Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	A
	With 50% collapse-Maximum dive forward or roll angle Change of course until re-inflation Re-inflation behaviour Total change of course	Spontaneous re-inflation Less than 360°	A A	Spontaneous re-inflation Less than 360°	A A
	With 50% collapse-Maximum dive forward or roll angle Change of course until re-inflation Re-inflation behaviour Total change of course Collapse on the opposite side occurs	Spontaneous re-inflation Less than 360° No	A A A	Spontaneous re-inflation Less than 360° No	A A A
	With 50% collapse-Maximum dive forward or roll angle Change of course until re-inflation Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs	Spontaneous re-inflation Less than 360° No No	A A A A	Spontaneous re-inflation Less than 360° No No	A A A
	With 50% collapse-Maximum dive forward or roll angle Change of course until re-inflation Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs	Spontaneous re-inflation Less than 360° No	A A A	Spontaneous re-inflation Less than 360° No No	A A A
	With 50% collapse-Maximum dive forward or roll angle Change of course until re-inflation Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs With 75% collapse-Maximum dive forward or roll angle	Spontaneous re-inflation Less than 360° No No No	A A A A	Spontaneous re-inflation Less than 360° No No	А А А А
	With 50% collapse-Maximum dive forward or roll angle Change of course until re-inflation Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs With 75% collapse-Maximum dive forward or roll angle Change of course until re-inflation	Spontaneous re-inflation Less than 360° No No No 90° to 180°, Dive or roll angle 15° to 45°	A A A A B	Spontaneous re-inflation Less than 360° No No Less than 90°, Dive or roll angle 15° to 45°	A A A A
	With 50% collapse-Maximum dive forward or roll angle Change of course until re-inflation Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs With 75% collapse-Maximum dive forward or roll angle Change of course until re-inflation Re-inflation behaviour	Spontaneous re-inflation Less than 360° No No 90° to 180°, Dive or roll angle 15° to 45° Spontaneous re-inflation	A A A A B A	Spontaneous re-inflation Less than 360° No No Less than 90°, Dive or roll angle 15° to 45° Spontaneous re-inflation	A A A A A
	With 50% collapse-Maximum dive forward or roll angle Change of course until re-inflation Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs With 75% collapse-Maximum dive forward or roll angle Change of course until re-inflation Re-inflation behaviour Total change of course	Spontaneous re-inflation Less than 360° No No 90° to 180°, Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360°	A A A A B A	Spontaneous re-inflation Less than 360° No No No Less than 90°, Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360°	А А А А А А
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	With 50% collapse-Maximum dive forward or roll angle Change of course until re-inflation Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs With 75% collapse-Maximum dive forward or roll angle Change of course until re-inflation Re-inflation behaviour Total change of course Collapse on the opposite side occurs With 75% collapse docurse Collapse on the opposite side occurs Total change of course Collapse on the opposite side occurs Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs With 50% collapse and accelerator-Maximum dive forward	Spontaneous re-inflation Less than 360° No No 90° to 180°, Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No No No or roll angle	A A A A A A A A A	Spontaneous re-inflation Less than 360° No No No Less than 90°, Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No No No	A A A A A A A A A A A A A A A A A A A
	With 50% collapse-Maximum dive forward or roll angle Change of course until re-inflation Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs With 75% collapse-Maximum dive forward or roll angle Change of course entil re-inflation Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs	Spontaneous re-inflation Less than 360° No No 90° to 180°, Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No No	A A A A A A A A	Spontaneous re-inflation Less than 360° No No Less than 90°, Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No No No Less than 90°, Dive or roll angle 15° to 45°	A A A A A A A A A A A A A A A A A A A
	With 50% collapse-Maximum dive forward or roll angle Change of course until re-inflation Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs With 75% collapse-Maximum dive forward or roll angle Change of course until re-inflation Re-inflation behaviour Total change of course Collapse on the opposite side occurs Total change of course Collapse on the opposite side occurs Twist occurs With 50% collapse and accelerator-Maximum dive forward Change of course until re-inflation	Spontaneous re-inflation Less than 360° No No 90° to 180°, Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No No No No Or <i>roll angle</i> Less than 90°, Dive or roll angle 0° to 15°	A A A A A A A A	Spontaneous re-inflation Less than 360° No No No Less than 90°, Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No No No	A A A A A A A A A A A A A A A A A A A

	Turist secure	Na	٨	Ne	^
	Twist occurs	No	A	No No	A
	Cascade occurs		А	NO	А
	With 75% collapse and accelerator-Maximum dive forward or Change of course until re-inflation	90° to 180°, Dive or roll angle 15° to 45°	в	Less than 90°, Dive or roll angle 15° to 45°	А
	Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
		Less than 360°		•	
	Total change of course		A	Less than 360°	A
	Collapse on the opposite side occurs	No	A	No	A
	Twist occurs	No	A	No	A
	Cascade occurs	No	A	No	A
15. Direction	al control with a maintained asymmetric collapse	Ma a		Ma a	
	Able to keep course	Yes	A	Yes	A
	180° turn away from the collapsed side possible in 10 s	Yes	A	Yes	A
40 T-1	Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	A	More than 50 % of the symmetric control travel	A
16. Irim spee	ed spin tendency	N.		NI-	
47 1	Spin occurs	No	Α	No	Α
17. Low spee	d spin tendency	Na		Na	•
	Spin occurs	No	A	No	A
18. Recovery	from a developed spin	Otono oninning in loss than 00%	•	Stone enimping in lass than 00%	
	Spin rotation angle after release	Stops spinning in less than 90°	A	Stops spinning in less than 90°	A
	Cascade occurs	No	A	No	Α
19. B-line sta		0			
	Change of course before release	Change of course less than 45°	A	Change of course less than 45°	A
	Behaviour before release	Remains stable with straight span	A	Remains stable with straight span	A
	Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
	Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
00 D'	Cascade occurs	No	A	No	A
20. Big ears	Fater and the	Dedicated controls	^	Ctop doud to sharing a	А
	Entry procedure Behaviour during big ears	Stable flight	A A	Standard technique Stable flight	A
	0 0	•	A	Spontaneous in less than 3 s	A
	Recovery Dive forward angle on exit	Spontaneous in less than 3 s Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
21 Big opro i	n accelerated flight	Dive forward 0 to 30	A	Dive forward 0 to 50	A
ZI. DIY ears I	Entry procedure	Dedicated controls	А	Standard technique	^
	Behaviour during big ears	Stable flight	A	Stable flight	A A
	Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
	Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
	Behaviour immediately after releasing the accelerator while		A	Stable flight	A
	maintaining big ears	Stable light	A	Stable light	A
22 Bohaviou					
ZZ. Denaviou	r exiting a steep spiral Tendency to return to straight flight	Spontanoous avit	А	Spontaneous exit	٨
	Turn angle to recover normal flight	Spontaneous exit Less than 720°, spontaneous recovery	A	Spontaneous exit Less than 720°, spontaneous recovery	A A
		14 m/s	A	19 m/s	A
22 Altornatio	Sink rate when evaluating spiral stability [m/s]	1411/5		1311/5	
23. Alternativ	180° turn achievable in 20 s	Yes	А	Yes	А
		No		No	
24 Any other	Stall or spin occurs r flight procedure and/or configuration described in the use		A		A
24. Any other	Procedure works as described	not available	0	not available	0
	Procedure works as described Procedure suitable for novice pilots	not available	0	not available	0
	Cascade occurs	not available	0	not available	0
Comments of			0		- 0
Somments 0	Comments	no		no	
	Commenta				



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