Flight test report

Manufacturer Ozone Gliders Address 2, Queens Drive

LA46LN UK

Representive Jerome Canaud

Type of glider Element M

Certification number
Date of flight test
Place of test

PG 005.2006 14.06.2006 villeneuve



Classification A

Test Pilot Bernhard Stocker
Harness SupAir Evolution

Total weight in flight 75 kg

Claude Thurnheer Gin Genie 3 105 kg

		Min weight	Max weight
1. Inflation/T	ake-off	min worght	max worght
	Rising behaviour Special take off technique required		A Smooth, easy and constant rising A No
2. Landing	Special landing technique required	No	A No
3 Speed in a	Special landing technique required straight flight	No	A NO
J. Speed III s	Trim speed more than 30 km/h	Yes	A Yes
	Speed range using the controls larger than 10 km/h		A Yes
	Minimum speed	Less than 25 km/h	Less than 25 km/h
4. Control m			
	Max. weight in flight up to 80 kg		
	Symmetric control pressure/travel	Increasing, Greater than 55 cm	not available
	Max. weight in flight 80 kg to 100 kg Symmetric control pressure/travel	not available	0 not available
	Max. weight in flight greater than 100 kg	not available	Tiot available
	Symmetric control pressure/travel	not available	0 Increasing, Greater than 65 cm
5. Pitch stab	ility exiting accelerated flight		3, 2 200
	Dive forward angle on exit		A Dive forward less than 30°
	Collapse occurs	No	A No
6. Pitch stab	ility operating controls during accelerated flight	M.	N.
7 Poll stabil	Collapse occurs lity and damping	No	A No
r. IVOII Stabil	Oscillations	Reducing	A Reducing
8. Stability in	n gentle spirals		
	Tendency to return to straight flight	Spontaneous exit	A Spontaneous exit
9. Behaviour	r in a steeply banked turn		
	Sink rate after two turns	12 m/s to 14 m/s	12 m/s to 14 m/s
10. Symmetr	ric front collapse	B 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Entry Recovery	•	A Rocking back less than 45° A Spontaneous in less than 3 s
	Dive forward angle on exit		A Dive foward 0°to 30°, Keeping course
	Cascade occurs		A No
	With accelerator		
	Entry	Rocking back less than 45°	Rocking back less than 45°
	Recovery	Spontaneous in less than 3 s	A Spontaneous in less than 3 s
	Dive forward angle on exit	, I O	A Dive foward 0°to 30°, Keeping course
	Cascade occurs	No	A No
11. Exiting a	leep stall (parachutal stall) Deep stall achieved	Yes	A Yes
	Recovery		A Spontaneous in less than 3 s
	Dive forward angle on exit	•	A Dive forward 0°to 30°
	Change of course		A Changing course less than 45°
	Cascade occurs	No	A No
12. High ang	le of attack recovery		
	Recovery		A Spontaneous in less than 3 s
42 Dansus	Cascade occurs	No	A No
is. Recovery	y from a developed full stall Dive forward angle on exit	Dive forward 0°to 30°	A Dive forward 0°to 30°
	Collapse		A No collapse
	Cascade occurs (other than collapse)	•	A No
	Rocking back		Less than 45°
	Line tension	Most line tight	A Most line tight
14. Asymme	tric collapse		
	With 50% collapse-Maximum dive forward or roll angle	Loss than 00° Divo or roll angle 0° to 45°	A Long than 00° Dive or roll and a 0° to 45°
	Change of course until re-infation Re-inflation behaviour		A Less than 90°, Dive or roll angle 0° to 15° A Spontaneous re-inflation
	Total change of course	· · ·	A Less than 360°
	Collapse on the opposite side occurs		A No
	Twist occurs		A No
	Cascade occurs		A No
	With 75% collapse-Maximum dive forward or roll angle		
	Change of course until re-infation		Less than 90°, Dive or roll angle 15° to 45°
	Re-inflation behaviour	· · · ·	A Spontaneous re-inflation
	Total change of course Collapse on the opposite side occurs		A Less than 360° A No
	Twist occurs		A No
	Cascade occurs		A No
	With 50% collapse and accelerator-Maximum dive forward or		
	Change of course until re-infation	and the second s	Less than 90°, Dive or roll angle 15° to 45°
	Re-inflation behaviour	Spontaneous re-inflation	A Spontaneous re-inflation
	Total change of course		A Less than 360°
	Collapse on the opposite side occurs		A No
	Twist occurs		A No
	Cascade occurs	No	A No

	With 75% collapse and accelerator-Maximum dive forward o	r roll angle			
	Change of course until re-infation	Less than 90°, Dive or roll angle 15° to 45°	Α	Less than 90°, Dive or roll angle 15° to 45°	Α
	Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	A
	Total change of course	Less than 360°	Α	Less than 360°	Α
	Collapse on the opposite side occurs	No	Α	No	Α
	Twist occurs	No	Α	No	Α
	Cascade occurs	No	Α	No	Α
15. Direction	al control with a maintained asymmetric collapse				
	Able to keep course	Yes	Α	Yes	Α
	180° turn away from the collapsed side possible in 10 s	Yes	Α	Yes	Α
	Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	Α	More than 50 % of the symmetric control travel	Α
16. Trim spec	ed spin tendency	,			
	Spin occurs	No	Α	No	Α
17. Low spee	d spin tendency				
·	Spin occurs	No	Α	No	Α
18. Recovery	from a developed spin				
	Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in less than 90°	Α
	Cascade occurs	No	Α	No	Α
19. B-line sta	II .				
	Change of course before release	Change of course less than 45°	Α	Change of course less than 45°	Α
	Behaviour before release	Remains stable with straight span	Α	Remains stable with straight span	Α
	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
	Cascade occurs	No	Α	No	Α
20. Big ears					
	Entry procedure	Dedicated controls	Α	Standard technique	Α
	Behaviour during big ears	Stable flight	Α	Stable flight	Α
	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
21. Big ears i	n accelerated flight				
	Entry procedure	Dedicated controls	Α	Standard technique	Α
	Behaviour during big ears	Stable flight	Α	Stable flight	Α
	Recovery	Spontaneous in less than 3 s	Α		Α
				Spontaneous in less than 3 s	
	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
	Behaviour immediately after releasing the accelerator while				
	maintaining big ears	Stable flight	Α	Stable flight	Α
22. Behaviou	r exiting a steep spiral				
	Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	Α
	Turn angle to recover normal flight	Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α
	Sink rate when evaluating spiral stability [m/s]	13 m/s		14 m/s	
23. Alternativ	re means of directional control	V		V	
	180° turn achievable in 20 s	Yes	Α	Yes	Α
04 4	Stall or spin occurs	No	Α	No	Α
24. Any other	flight procedure and/or configuration described in the us	and an effect to			
	Procedure works as described	not available		not available	0
	Procedure suitable for novice pilots	not available	0		0
0	Cascade occurs	not available	0	not available	0
Comments of	•				
	Comments	no		no	
		no		no	



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