Flight test report

Manufacturer Ozone Gliders Address 2, Queens Drive

LA46LN

UK

Representive Jerome Canaud Type of glider Element S

Certification number PG 004.2006 Date of flight test 14.06.2006 Villeneuve Place of test



Classification A

Test Pilot Bernhard Stocker Harness SupAir Evolution

Total weight in flight 67 kg

Claude Thurnheer Gin Genie 3 90 kg

		Min weight		Max weight	
1. Inflation/Ta	ake-off				
	Rising behaviour	Smooth, easy and constant rising	Α	Smooth, easy and constant rising	A
	Special take off technique required	No	Α	No	A
2. Landing					
	Special landing technique required	No	Α	No	ŀ
3. Speed in s	straight flight	V		V	
	Trim speed more than 30 km/h			Yes Yes	F
	Speed range using the controls larger than 10 km/h		A A	Less than 25 km/h	ŀ
4. Control mo	Minimum speed	Less than 25 km/n	А	Less than 25 km/n	,
. Control in	Max. weight in flight up to 80 kg				
	Symmetric control pressure/travel	Increasing, Greater than 55 cm	Α	not available	
	Max. weight in flight 80 kg to 100 kg			The available	
	Symmetric control pressure/travel	not available	0	Increasing, Greater than 60 cm	A
	Max. weight in flight greater than 100 kg			.	
	Symmetric control pressure/travel	not available	0	not available	
i. Pitch stabi	ility exiting accelerated flight				
	Dive forward angle on exit	Dive forward less than 30°	Α	Dive forward less than 30°	A
	Collapse occurs	No	Α	No	A
6. Pitch stabi	ility operating controls during accelerated flight				
	Collapse occurs	No	Α	No	ŀ
'. Roll stabili	ity and damping			5	
04-1-111	Oscillations	Reducing	Α	Reducing	ŀ
. Stability in	n gentle spirals	Chantana qua avit	^	Spantaneous svit	
Dahardarı	Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	ŀ
. Benaviour	in a steeply banked turn Sink rate after two turns	12 m/s to 14 m/s	Α	12 m/s to 14 m/s	
O Cummatri		12 m/s to 14 m/s	А	12 m/s to 14 m/s	ŀ
u. Symmetri	ic front collapse Entry	Rocking back less than 45°	Α	Rocking back less than 45°	,
	Recovery		A	Spontaneous in less than 3 s	,
	Dive forward angle on exit	•	A	Dive foward 0°to 30°, Keeping course	,
	Cascade occurs		Α	No	,
	With accelerator		,,		•
	Entry	Rocking back less than 45°	Α	Rocking back less than 45°	A
	Recovery		Α	Spontaneous in less than 3 s	A
	Dive forward angle on exit	· ·	Α	Dive foward 0°to 30°, Keeping course	1
	Cascade occurs		Α	No	A
1. Exiting de	eep stall (parachutal stall)				
	Deep stall achieved	Yes	Α	Yes	A
	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	F
	Dive forward angle on exit	Dive forward 0°to 30°	Α	Dive forward 0°to 30°	A
	Change of course	0 0	Α	Changing course less than 45°	A
	Cascade occurs	No	Α	No	A
2. High ang	le of attack recovery				
	Recovery	· · ·		Spontaneous in less than 3 s	- 1
2 Danassan	Cascade occurs	No	Α	No	ŀ
3. Recovery	/ from a developed full stall	Dive forward 0°to 30°	٨	Dive forward 0°to 30°	,
	Dive forward angle on exit				/
	Collapse	•		No collapse No	,
	Cascade occurs (other than collapse) Rocking back		A	Less than 45°	,
	Line tension			Most line tight	,
4. Asymmet	tric collapse	Wood line tight		Wood into tight	
4. Acymmic	With 50% collapse-Maximum dive forward or roll angle				
	Change of course until re-infation	Less than 90°, Dive or roll angle 0° to 15°	Α	Less than 90°, Dive or roll angle 0° to 15°	,
	Re-inflation behaviour	and the second of the second o		Spontaneous re-inflation	,
	Total change of course	· ·	Α	Less than 360°	,
	Collapse on the opposite side occurs			No	,
	Twist occurs			No	
	Cascade occurs			No	1
	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°	Α	Less than 90°, Dive or roll angle 15° to 45°	
	Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	
	Total change of course		Α	Less than 360°	
	Collapse on the opposite side occurs			No	
	Twist occurs			No	
	Cascade occurs		Α	No	
	With 50% collapse and accelerator-Maximum dive forward or	· · · · · · · · · · · · · · · · · · ·			
	Change of course until re-infation	,		Less than 90°, Dive or roll angle 15° to 45°	
	Re-inflation behaviour	Spontaneous re-inflation		Spontaneous re-inflation	
	Total change of course		Α	Less than 360°	
	Collapse on the opposite side occurs	No	Α	No	F
	· · · · · · · · · · · · · · · · · · ·	No No	A A		

	With 750/ collapse and accelerator Maximum dive forward a	r roll angle			
	With 75% collapse and accelerator-Maximum dive forward o Change of course until re-infation	r roll angle 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	A	Spontaneous re-inflation	A
	Total change of course	Less than 360°	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	nal control with a maintained asymmetric collapse	110	,,		,,
	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 spe	eed spin tendency			,	
	Spin occurs	No	Α	No	Α
17. Low spe	ed spin tendency				
	Spin occurs	No	Α	No	Α
18. Recover	y 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 st	all				
	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	in 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	Spontaneous in less than 3 s	Α
	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. Behavio	ur 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]	14 m/s		13 m/s	
23. Alternati	ive means of directional control	V		W	
	180° turn achievable in 20 s	Yes	Α	Yes	A
	Stall or spin occurs	No	Α	No	Α
24. Any othe	er flight procedure and/or configuration described in the us		_		
	Procedure works as described	not available	0		0
	Procedure suitable for novice pilots	not available	0	not available	0
	Cascade occurs	not available	0	not available	0
Comments of	•	NO		M.	
	Comments	NO		No	



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