Flight test report

Manufacturer Aerodyne Technologies

Address 167 chemin de Verdun, Pas de l'echelle

74100 Etrembieres

Representive Michel Blanc
Type of glider Joy S
Trimmer Joy available

 Certification number
 PG 078.2007

 Date of flight test
 30/05/2007

 Place of test
 Villeneuve



Classification B

Test Pilot Seiko Fukuoka Harness Sup'air altiplume

Total weight in flight 65 kg

Claude Thurnheer Sky Axel II M 85 kg

		Min weight	Max weight	
1. Inflation/Ta		.		
	Rising behaviour Special take off technique required	Smooth, easy and constant rising A		A A
2. Landing	Special landing technique required	No A	No	Α
3. Speed in s	Special landing technique required	NO F	NO NO	А
o. opeca iii o	Trim speed more than 30 km/h	Yes	Yes	Α
	Speed range using the controls larger than 10 km/h	Yes	Yes	Α
	Minimum speed	Less than 25 km/h	Less than 25 km/h	Α
4. Control mo				
	Max. weight in flight up to 80 kg			
	Symmetric control pressure/travel	Increasing, Greater than 55 cm	not available	0
	Max. weight in flight 80 kg to 100 kg	and available	O la arancia a Canada than 60 am	Α
	Symmetric control pressure/travel Max. weight in flight greater than 100 kg	not available	Increasing, Greater than 60 cm	А
	Symmetric control pressure/travel	not available	not available	0
5. Pitch stabi	lity exiting accelerated flight			
	Dive forward angle on exit	Dive forward less than 30°	Dive forward less than 30°	Α
	Collapse occurs	No A	No No	Α
6. Pitch stabi	lity operating controls during accelerated flight			
7 Dell - (- t. '''	Collapse occurs	No A	No	Α
r. Koli stabili	ty and damping Oscillations	Reducing A	Reducing	Α
B. Stability in	gentle spirals	reducing P	reducing	
o. Otubility iii	Tendency to return to straight flight	Spontaneous exit	Spontaneous exit	Α
9. Behaviour	in a steeply banked turn			
	Sink rate after two turns	More than 14 m/s	More than 14 m/s	В
10. Symmetri	c front collapse			
	Entry	Rocking back less than 45°	3	Α
	Recovery	Spontaneous in less than 3 s		A
	Dive forward angle on exit Cascade occurs	Dive foward 0°to 30°, Keeping course No A	3	A
	With accelerator	NO F	NO	Α
	Entry	Rocking back less than 45°	Rocking back less than 45°	Α
	Recovery	Spontaneous in less than 3 s		Α
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course		Α
	Cascade occurs	No A	No	Α
11. Exiting de	ep stall (parachutal stall)			
	Deep stall achieved	Yes		A
	Recovery	Spontaneous in less than 3 s		A
	Dive forward angle on exit Change of course	Dive forward 0°to 30° Changing course less than 45°		A A
	Cascade occurs	No A		A
12. High angl	e of attack recovery			
	Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s	Α
	Cascade occurs	No A	No	Α
13. Recovery	from a developed full stall			
	Dive forward angle on exit	Dive forward 0°to 30°		Α
	Collapse	No collapse A		A
	Cascade occurs (other than collapse) Rocking back	No A Less than 45° A		A A
	Line tension	Most line tight		A
14. Asymmet			Those and ugite	
,	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°		Α
	Re-inflation behaviour	Spontaneous re-inflation A		Α
	Total change of course	Less than 360°		Α
	Collapse on the opposite side occurs	No A		A
	Twist occurs	No A		A
	Cascade occurs With 75% collapse-Maximum dive forward or roll angle	No A	No	Α
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°	Less than 90°, Dive or roll angle 15° to 45°	Α
	Re-inflation behaviour	Spontaneous re-inflation	· · · · · · · · · · · · · · · · · · ·	Α
	Total change of course	Less than 360°		Α
	Collapse on the opposite side occurs	No A		Α
	Twist occurs	No		Α
	Cascade occurs	No A	No	Α
	With 50% collapse and accelerator-Maximum dive forward of		Land then 00% Diverse will exact 20% to 45%	
	Change of course until re-inflation Re-inflation behaviour	Less than 90°, Dive or roll angle 15° to 45° Spontaneous re-inflation		A A
	Total change of course	Spontaneous re-inflation Less than 360° A		A
	Collapse on the opposite side occurs	No A		A
	,			

	Total comme	N-	^	N.	^
	Twist occurs	No		No	A
	Cascade occurs	No	Α	No	Α
	With 75% collapse and accelerator-Maximum dive forward of		۸	Langethan 00° Diverse vallengle 45° to 45°	^
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°	Α	Less than 90°, Dive or roll angle 15° to 45°	A
	Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
	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	onal 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 sp	peed spin tendency				
	Spin occurs	No	Α	No	Α
17. Low sp	peed spin tendency				
	Spin occurs	No	Α	No	Α
18. Recove	ery 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 s	stall				
	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 ear	rs				
	Entry procedure	Dedicated controls	Α	Dedicated controls	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 ear	rs in accelerated flight				
_	Entry procedure	Dedicated controls	Α	Dedicated controls	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	Stable flight	Α	Stable flight	Α
22. Behavi	iour 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]	16 m/s		17 m/s	
23. Alterna	ative means of directional control				
	180° turn achievable in 20 s	Yes	Α	Yes	Α
	Stall or spin occurs	No	Α	No	Α
24. Any otl	her flight procedure and/or configuration described in the us	- · · ·			
, 00.	Procedure works as described	not available	0	not available	0
	Procedure suitable for novice pilots	not available	0	not available	0
	Cascade occurs	not available	0	not available	0
Comments	s of test pilot		Ū		U
	Comments	no		no	



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