## Flight test report

Manufacturer Gin Gliders

Trimmer

Address 586-5 Ilsan-Ri, Mohyun-Myun

Yongin City Kyunggi-Do 449-855

Representive none Type of glider Rebel XS

not available

Certification number Date of flight test Place of test

PG 101.2007 27/08/2007 Villeneuve



## Classification C

Test Pilot Seiko Fukuoka Harness Sup'air altiplume

Total weight in flight 62 kg

Claude Thurnheer Advance light 75 kg

		Min weight	Max weight
1. Inflation/Ta		wiiii weigiit	Max weight
	Rising behaviour Special take off technique required	Smooth, easy and constant rising A	
2. Landing	Special landing technique required	No A	No A
3. Speed in st		NO P	A NO A
	Trim speed more than 30 km/h	Yes	Yes A
	Speed range using the controls larger than 10 km/h	Yes	
4.0	Minimum speed	Less than 25 km/h	25 km/h to 30 km/h
4. Control mo	Max. weight in flight up to 80 kg		
	Symmetric control pressure/travel	Increasing, Greater than 55 cm	Increasing, Greater than 55 cm A
	Max. weight in flight 80 kg to 100 kg		
	Symmetric control pressure/travel  Max. weight in flight greater than 100 kg	not available	0 not available (
	Symmetric control pressure/travel	not available	0 not available (
5. Pitch stabil	ity exiting accelerated flight		
	Dive forward angle on exit	Dive forward less than 30°	
6 Pitch stahil	Collapse occurs ity operating controls during accelerated flight	No A	No A
o. i iton stabil	Collapse occurs	No A	No A
7. Roll stabilit	y and damping		
9 Stability in	Oscillations	Reducing A	Reducing A
8. Stability in	gentie spirais Tendency to return to straight flight	Spontaneous exit	Spontaneous exit A
9. Behaviour i	n a steeply banked turn		
	Sink rate after two turns	More than 14 m/s	More than 14 m/s
10. Symmetric	: front collapse Entry	Rocking back less than 45°	Rocking back less than 45° A
	Recovery	Spontaneous in less than 3 s	
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course	Dive foward 0°to 30°, Keeping course A
	Cascade occurs	No A	No A
	With accelerator Entry	Rocking back greater than 45°	Rocking back less than 45° A
	Recovery	Spontaneous in less than 3 s	
	Dive forward angle on exit	Dive foward 30°to 60°, Keeping course	Dive foward 0°to 30°, Keeping course A
44 Folkloon de	Cascade occurs	No A	No A
11. Exiting de	ep stall (parachutal stall) Deep stall achieved	Yes	Yes A
	Recovery	Spontaneous in less than 3 s	
	Dive forward angle on exit	Dive forward 0°to 30°	
	Change of course Cascade occurs	Changing course less than 45°  No  A	
12. High angle	of attack recovery	, r	A INO
3 4 3	Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
	Cascade occurs	No A	No A
13. Recovery	from a developed full stall Dive forward angle on exit	Dive forward 0°to 30°	Dive forward 0°to 30° A
	Collapse	No collapse A	
	Cascade occurs (other than collapse)	No A	
	Rocking back	Less than 45°	
14. Asymmetr	Line tension ic collapse	Most line tight	Most line tight A
	With 50% collapse-Maximum dive forward or roll angle		
	Change of course until re-inflation		Less than 90°, Dive or roll angle 15° to 45°  A
	Re-inflation behaviour Total change of course	Spontaneous re-inflation A Less than 360° A	
	Collapse on the opposite side occurs	No A	
	Twist occurs		No A
	Cascade occurs With 75% collapse-Maximum dive forward or roll angle	No A	No A
	Change of course until re-inflation	90° to 180°, Dive or roll angle 0° to 15°	Less than 90°, Dive or roll angle 45° to 60°
	Re-inflation behaviour	Spontaneous re-inflation	The state of the s
	Total change of course	Less than 360°	
	Collapse on the opposite side occurs Twist occurs	No A	
	Cascade occurs	No A	
	With 50% collapse and accelerator-Maximum dive forward or	r roll angle	
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°	
	Re-inflation behaviour Total change of course	Spontaneous re-inflation Less than 360°  A	
	Collapse on the opposite side occurs	No A	
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	Twist occurs	No	Α	No	Α
	Cascade occurs	No	A	No	A
	With 75% collapse and accelerator-Maximum dive forward o		^	140	
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°	Α	Less than 90°, Dive or roll angle 45° to 60°	С
	Re-inflation behaviour	Spontaneous re-inflation	Α	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
15 Directions	Cascade occurs Il control with a maintained asymmetric collapse	No	Α	No	Α
15. Directiona	•	Yes	Α	Yes	Α
	Able to keep course		A		
	180° turn away from the collapsed side possible in 10 s	Yes		Yes	Α
40 Tulus	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. I rim spee	d spin tendency	NI-		Al-	
47	Spin occurs	No	Α	No	Α
17. Low spee	d spin tendency	Ne	^	Na	٨
40 December	Spin occurs	No	Α	No	Α
18. Recovery	from a developed spin	Olega and a described 200		Otana animaina in tana di an 000	
	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 stal	•				
	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	Recovery through pilot action in less than a	В	Recovery through pilot action in less than a	В
		further 3 s		further 3 s	
	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
21. Big ears in	n accelerated flight				
	Entry procedure	Dedicated controls		Standard technique	Α
	Behaviour during big ears	Stable flight	Α	Stable flight	Α
	Recovery	Recovery through pilot action in less than a	В	Recovery through pilot action in less than a	В
		further 3 s		further 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	Stable flight	Α	Stable flight	Α
22. Behaviou	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]	17 m/s		17 m/s	
23. Alternativ	e means of directional control				
	180° turn achievable in 20 s	Yes	Α	Yes	Α
	Stall or spin occurs	No	Α	No	Α
24. Any other	flight procedure and/or configuration described in the us				
	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 of					
	Comments	no		no	



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