Flight test report

Manufacturer Gin Gliders

Address 586-5 Ilsan-Ri, Mohyun-Myun

Yongin City Kyunggi-Do 449-855

Representive None
Type of glider Bolero 3 XS
Trimmer not available

 Certification number
 PG 018.2006

 Date of flight test
 08/11/2006

 Place of test
 Villeneuve



Claude Thurnheer sup air light 75 kg

Classification B

Test Pilot Seiko Fukuoka Harness sky para reverse

Total weight in flight 57 kg

		Min woight	Max weight
1. Inflation/Ta		Min weight	Max weight
	Rising behaviour	Smooth, easy and constant rising	Smooth, easy and constant rising A
	Special take off technique required		A No A
2. Landing			
3. Speed in s	Special landing technique required	No /	A No A
s. speed in s	Trim speed more than 30 km/h	Yes	A Yes A
	Speed range using the controls larger than 10 km/h		Yes A
	Minimum speed		Less than 25 km/h
4. Control mo			
	Max. weight in flight up to 80 kg	In control of Control of the control	A language of the control of the con
	Symmetric control pressure/travel Max. weight in flight 80 kg to 100 kg	Increasing, Greater than 55 cm	A Increasing, Greater than 60 cm A
	Symmetric control pressure/travel	not available	0 not available 0
	Max. weight in flight greater than 100 kg		
	Symmetric control pressure/travel	not available	0 not available 0
5. Pitch stabi	lity exiting accelerated flight	Director and least their 000	Directory and least their 200
	Dive forward angle on exit Collapse occurs		A Dive forward less than 30° A A No A
6. Pitch stabi	lity operating controls during accelerated flight	7	A 110
	Collapse occurs	No /	A No A
7. Roll stabili	ty and damping		
	Oscillations	Reducing	A Reducing A
8. Stability in	gentle spirals Tendency to return to straight flight	Spantaneous evit	A Spontaneous exit A
9. Behaviour	in a steeply banked turn	Spontaneous exit	A Spontaneous exit A
o. Benavioa	Sink rate after two turns	More than 14 m/s	B More than 14 m/s B
10. Symmetri	ic front collapse		
	Entry		Rocking back less than 45° A
	Recovery		Spontaneous in less than 3 s A
	Dive forward angle on exit Cascade occurs		A Dive foward 0°to 30°, Keeping course A A No A
	With accelerator	7	A 140
	Entry	Rocking back less than 45°	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
44 Fulkina d	Cascade occurs	No ,	A No A
i i. Exiting de	eep stall (parachutal stall) Deep stall achieved	Yes	A Yes A
	Recovery		A Spontaneous in less than 3 s
	Dive forward angle on exit	Dive forward 0°to 30°	Dive forward 0°to 30° A
	Change of course		Changing course less than 45° A
40 Himb anni	Cascade occurs	No /	No A
12. High ang	le of attack recovery Recovery	Spontaneous in less than 3 s	A Spontaneous in less than 3 s
	Cascade occurs		A No A
13. Recovery	from a developed full stall		
_	Dive forward angle on exit		Dive forward 30°to 60° B
	Collapse		A No collapse A
	Cascade occurs (other than collapse) Rocking back		A No A Less than 45° A
	Line tension		A Most line tight A
14. Asymmet			A
•	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
	Re-inflation behaviour		A Spontaneous re-inflation A
	Total change of course Collapse on the opposite side occurs		A Less than 360° A A No A
	Twist occurs		A No A
	Cascade occurs		A No A
	With 75% collapse-Maximum dive forward or roll angle		
	Change of course until re-inflation		Less than 90°, Dive or roll angle 0° to 15° A
	Re-inflation behaviour	· ·	A Spontaneous re-inflation A
	Total change of course Collapse on the opposite side occurs		A Less than 360° A A No A
	Twist occurs		A No A
	Cascade occurs		A No A
	With 50% collapse and accelerator-Maximum dive forward or		
	Change of course until re-inflation		Less than 90°, Dive or roll angle 0° to 15° A
	Re-inflation behaviour	•	A Spontaneous re-inflation A
	Total change of course Collapse on the opposite side occurs		A Less than 360° A A No A
	Collapse on the opposite side occurs	INO	T NO

	Twist occurs	No	Α	No	Α
	Cascade occurs	No		No	Α
	With 75% collapse and accelerator-Maximum dive forward of		•		•
	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°	Α
	Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
	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	INO		NO	
io. Direction	Able to keep course	Yes	Α	Yes	Α
	180° turn away from the collapsed side possible in 10 s	Yes	A	Yes	A
	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 Trim cno	ed spin tendency	More than 50 % of the symmetric control traver		wore than 50 % of the symmetric control traver	
io. Illiii spe	Spin occurs	No	۸	No	Α
17 Low spor	ed spin tendency	INO		110	
ir. Low spec	Spin occurs	No	Δ	No	Α
18 Pecover	y from a developed spin	INO	Α.		^
io. Recovery	Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in less than 90°	Α
	Cascade occurs	No	A	No	A
19. B-line sta	0.000.00	INU	А	NO	А
19. D-IIIle Sta	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	A	Remains stable with straight span	A
	Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
		Dive forward 0° to 30°	A	Dive forward 0° to 30°	
	Dive forward angle on exit Cascade occurs	No	A	No.	A A
20. Big ears	Cascade occurs	NO	А	NO	А
Zu. Dig ears	Entry procedure	Dedicated controls	Α	Standard technique	Α
	Behaviour during big ears	Stable flight	A	Stable flight	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
21 Dia coro	in accelerated flight	Dive forward 0 to 30	А	Dive lorward 0 to 30	А
Z1. Big ears	•	Dadianted controls	Α	Standard technique	۸
	Entry procedure	Dedicated controls Stable flight		Standard technique	A A
	Behaviour during big ears		A A	Stable flight Spontaneous in less than 3 s	
	Recovery	Spontaneous in 3 s to 5 s	A	Dive forward 0° to 30°	A
	Dive forward angle on exit	Dive forward 0° to 30°	А	Dive lorward 0° to 30°	Α
	Behaviour immediately after releasing the accelerator while	Orable Cate		Otable Wals	
22 Dahardar	maintaining big ears	Stable flight	Α	Stable flight	Α
22. Benaviou	ur exiting a steep spiral	0		On and an array sort	
	Tendency to return to straight flight	Spontaneous exit	A	Spontaneous exit	A
	Turn angle to recover normal flight	Less than 720°, spontaneous recovery	Α	Less than 720°,spontaneous recovery	Α
00 44	Sink rate when evaluating spiral stability [m/s]	16 m/s		17 m/s	
23. Alternati	ve means of directional control	V		W	
	180° turn achievable in 20 s	Yes	Α	Yes	Α
04 4	Stall or spin occurs	No	Α	No	Α
24. Any othe	er flight procedure and/or configuration described in the us	and any Makela			
	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	



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