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Flight test repo	ort: EN
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Manufacturer	Onika Paragliders	Certification number		PG_0535.2012	
Address	São Pedro de Alcântara 3980 Magalhães Bastos , Rio de Janeiro Rio - RJ Brazil	Date of flight test		30. 01. 2012	
Representative	None	Place of test		Villeneuve	
Glider model	Yumi 2 S	Classification		D	
Trimmer	no				
	Testailet			Thursheer Cloude	
	lest pliot	Fukuoka Seiko		Thurnheer Claude	
	Harness	Sup'Air - Altiplume S		Gin Gliders - Geni III M	
	Total weight in flight (kg)	65		90	
1. Inflation/Take-off		с			
Rising behaviour		Overshoots, shall be slowed	С	Overshoots, shall be slowed down	С

1. Inflation/Take-off	L L			
Rising behaviour	Overshoots, shall be slowed down to avoid a front collapse	С	Overshoots, shall be slowed down to avoid a front collapse	С
Special take off technique required	No	А	No	А
2. Landing	Α			
Special landing technique required	No	А	No	А
3. Speed in straight flight	В			
Trim speed more than 30 km/h	Yes	А	Yes	А
Speed range using the controls larger than 10 km/h	Yes	Α	Yes	А
Minimum speed	Less than 25 km/h	А	25 km/h to 30 km/h	В
4. Control movement	С			
Max. weight in flight up to 80 kg				
Symmetric control pressure / travel	Increasing / 40 cm to 55 cm	С	not available	0
Max. weight in flight 80 kg to 100 kg				
Symmetric control pressure / travel	not available	0	Increasing / 45 cm to 60 cm	С
Max. weight in flight greater than 100 kg				
Symmetric control pressure / travel	not available	0	not available	0
5. Pitch stability exiting accelerated flight	А			
Dive forward angle on exit	Dive forward less than 30°	Α	Dive forward less than 30°	А
Collapse occurs	No	Α	No	А
6. Pitch stability operating controls during accelerated flight	Α			
Collapse occurs	No	А	No	Α
7. Roll stability and damping	Α			
Oscillations	Reducing	А	Reducing	А
8. Stability in gentle spirals	Α			
Tendency to return to straight flight	Spontaneous exit	А	Spontaneous exit	Α
9. Behaviour in a steeply banked turn	В			
Sink rate after two turns	More than 14 m/s	В	More than 14 m/s	В
10. Symmetric front collapse	D			
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Recovery through pilot action in less than a further 3 s	D	Spontaneous in 3 s to 5 s	В
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Cascade occurs	No	А	No	А
With accelerator				

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Entry	Rocking back less than 45°	A	Rocking back greater than 45°	C
Recovery	Recovery through pilot action in less than a further 3 s	D	Spontaneous in less than 3 s	A
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Cascade occurs	No	А	No	А
11. Exiting deep stall (parachutal stall)	Α			
Deep stall achieved	Yes	А	Yes	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Change of course	Changing course less than 45°	А	Changing course less than 45°	А
Cascade occurs	No	А	No	А
12. High angle of attack recovery	Α			
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Cascade occurs	No	А	No	А
13. Recovery from a developed full stall	С			
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	A
Collapse	No collapse	А	No collapse	A
Cascade occurs (other than collapses)	No	А	No	A
Rocking back	Less than 45°	A	Greater than 45°	С
Line tension	Most lines tight	Α	Most lines tight	A
14. Asymmetric collapse	C			
With 50% collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	A	15° to 45°	A
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	A
Total change of course	Less than 360°	А	Less than 360°	A
Collapse on the opposite side occurs	No	А	No	A
Twist occurs	No	А	No	A
Cascade occurs	No	A	No	A
With 75% collapse		_		_
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 15° to 45°	В	90° to 180° / Dive or roll angle 15° to 45°	В
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	A
Total change of course	Less than 360°	А	Less than 360°	A
Collapse on the opposite side occurs	No	A	No	A
Twist occurs	No	А	No	A
Cascade occurs	No	А	No	A
With 50% collapse and accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	A	Less than 90° / Dive or roll angle 15° to 45°	A
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
Total change of course	Less than 360°	А	Less than 360°	A
Collapse on the opposite side occurs	No	Α	No	Α
Twist occurs	No	A	No	A
Cascade occurs	No	А	No	A
With 75% collapse and accelerator		~		•
Change of course until re-inflation / Maximum dive forward or roll angle	180° to 360° / Dive or roll angle 15° to 45°	С	90° to 180° / 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	Yes, no turn reversal	С	No	A
Twist occurs	No	A	No	A
Cascade occurs	No	A	No	А
15. Directional control with a maintained asymmetric collapse	A			
Able to keep course	Yes	A	Yes	A
180° turn away from the collapsed side possible in 10 s	Yes	A	Yes	А

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	А
16. Trim speed spin tendency	Α			
Spin occurs	No	А	No	А
17. Low speed spin tendency	A			
Spin occurs	No	А	No	А
18. Recovery from a developed spin	С			
Spin rotation angle after release	Stops spinning in 90° to 180°	С	Stops spinning in less than 90°	А
Cascade occurs	No	А	No	А
19. B-line stall	С			
Change of course before release	Changing course less than 45°	А	Changing course less than 45°	А
Behaviour before release	Remains stable with straight span	A	Remains stable without straight span	С
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Cascade occurs	No	А	No	А
20. Big ears	В			
Entry procedure	Dedicated controls	А	Dedicated controls	Α
Behaviour during big ears	Stable flight	А	Stable flight	Α
Recovery	Recovery through pilot action in less than a further 3 s	В	Recovery through pilot action in less than a further 3 s	В
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	Α
21. Big ears in accelerated flight	В			
Entry procedure	Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Stable flight	А	Stable flight	А
Recovery	Recovery through pilot action in less than a further 3 s	В	Recovery through pilot action in less than a further 3 s	В
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	А	Stable flight	А
22. Behaviour exiting a steep spiral	D			
Tendency to return to straight flight	Spontaneous exit	А	Turn remains constant	D
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	A	With pilot action	D
Sink rate when evaluating spiral stability [m/s]	17		23	
23. Alternative means of directional control	A			
180° turn achievable in 20 s	Yes	А	Yes	А
Stall or spin occurs	No	А	No	А
24. Any other flight procedure and/or configuration described in the user's manual	0			
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
25. Comments of test pilot				
23. Comments of test phot				