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Windtech Paragliders

PG_0689.2013

AIR TURQUOISE SA certified by



Flia	ht	test	rer	oort:	EN

Manufacturer

	Minatoon Faragilaoro			1.6_0000:2010	
Address	Francisco Rodríguez, 7 / PO Box 269 33280 33201 GIJON - Asturias Spain	Date of flight test		04. 03. 2013	
Representative	None	Place of test		Villeneuve	
Glider model	Fenix 24	Classification		С	
Trimmer no					
	110				
	•	Thurnheer Claude		Zoller Alain	
	Harness	Sup' Air - XX-Lite		Sup'Air - XX-Lite	
	Total weight in flight (kg)	75		95	
1. Inflation/Take-off		Α			
Rising behaviour		Smooth, easy and constant rising	А	Smooth, easy and constant rising	А
Special take off technique	e required	No	А	No	А
2. Landing		Α			
Special landing technique		No	А	No	А
3. Speed in straight flig		В			
Trim speed more than 30		Yes	A	Yes	A
Speed range using the controls larger than 10 km/h		Yes	A	Yes	A
Minimum speed		Less than 25 km/h	Α	25 km/h to 30 km/h	В
4. Control movement		С			
Max. weight in flight up to			_		
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 grea					
Symmetric control pressu		not available	0	not available	0
5. Pitch stability exiting		A Divertised large them 20%	•	Dive forward loss them 20%	
Dive forward angle on exit		Dive forward less than 30°	A	Dive forward less than 30°	A
Collapse occurs		No	A	No	A
flight	ing controls during accelerated	Α			
Collapse occurs		No	А	No	А
7. Roll stability and dan	nping	Α			
Oscillations		Reducing	А	Reducing	А
8. Stability in gentle spi	rals	Α			
Tendency to return to straight flight		Spontaneous exit	А	Spontaneous exit	А
9. Behaviour in a steep	y banked turn	В			
Sink rate after two turns		More than 14 m/s	В	More than 14 m/s	В
10. Symmetric front col	lapse	С			
Entry		Rocking back less than 45°	А	Rocking back less than 45°	А
-		Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on ex	it / Change of course	Dive forward 30° to 60° / Keeping course	В	Dive forward 0° to 30° / Keeping course	А
Cascade occurs		No	А	No	А
With accelerator					
Entry		Rocking back less than 45°	^	Rocking back greater than 45°	С

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Decevery	Chantanaque in lace than 2 a	۸	Chantanaous in loss than 2 s	۸
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Dive forward angle on exit / Change of course	Dive forward 30° to 60° / Keeping course	B	Dive forward 0° to 30° / Keeping course	A
Cascade occurs	No	A	No	A
11. Exiting deep stall (parachutal stall)	Α			
Deep stall achieved	Yes	А	Yes	A
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
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	c			
Recovery	Spontaneous in 3 s to 5 s	С	Spontaneous in less than 3 s	A
Cascade occurs	No	Α	No	A
13. Recovery from a developed full stall	Α			
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	А
Collapse	No collapse	A	No collapse	A
Cascade occurs (other than collapses)	No	A	No	A
Rocking back	Less than 45°	А	Less than 45°	А
Line tension	Most lines tight	А	Most lines tight	А
14. Asymmetric collapse	С			
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	Less than 90° / Dive or roll angle 0° to 15°	A
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
With 75% collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 45° to 60°	С	90° to 180° / Dive or roll angle 45° to 60°	С
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
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	90° to 180° / Dive or roll angle 15° to 45°	В
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
With 75% collapse and accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 45° to 60°	С	90° to 180° / Dive or roll angle 45° to 60°	С
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	Yes, no turn reversal	С	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
15. Directional control with a maintained asymmetric collapse	Α			
Able to keep course	Yes	А	Yes	А
180° turn away from the collapsed side possible in 10 s	Yes	А	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	A

16. Trim speed spin tendency	Α			
Spin occurs	No	А	No	А
17. Low speed spin tendency	Α			
Spin occurs	No	А	No	А
18. Recovery from a developed spin	Α			
Spin rotation angle after release	Stops spinning in less than 90°	А	Stops spinning in less than 90°	Α
Cascade occurs	No	А	No	А
19. B-line stall	А			
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 with straight span	A
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	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
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	Spontaneous in less than 3 s	A
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	A	Stable flight	A
22. Behaviour exiting a steep spiral	А			
Tendency to return to straight flight	Spontaneous exit	А	Spontaneous exit	Α
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	А
Sink rate when evaluating spiral stability [m/s]	17		17	
23. Alternative means of directional control	А			
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				
Comments	Tested with "Folding Lines" on full speed front & asymetric collapses		Tested with "Folding Lines" on full speed front & asymetric collapses	