## para-test.com paragliding by air turquoise

Sky Paragliders a.s.

PG\_0621.2012

## AIR TURQUOISE SA certified by



## Flight test report: EN

Manufacturer

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	Address	Okružní 39 73911 Frýdlant nad Ostravicí Czech Republic	Date of flight test		02. 10. 2012	
	Representative	None	Place of test		Villeneuve	
	Glider model	Fides4 L	Classification		Α	
	Trimmer	no				
		Test pilot	Thurnheer Claude		Zoller Alain	
		Harness	Gin Gliders - Gingo 2 L		Sky Paragliders - Skywish	
		Total weight in flight (kg)	88		112	
	1. Inflation/Take-off		Α			
	Rising behaviour		Smooth, easy and constant rising	А	Smooth, easy and constant rising	А
	Special take off technique required		No	А	No	А
	2. Landing		Α			
	Special landing technique required		No	А	No	A
	3. Speed in straight flight		Α			
	Trim speed more than 30 ki		Yes		Yes	A
	Speed range using the cont	rols larger than 10 km/h	Yes	A	Yes	A
	Minimum speed		Less than 25 km/h	A	Less than 25 km/h	A
	4. Control movement	0.40	Α			
	Max. weight in flight up to 80 kg		not available	0	not available	0
	Symmetric control pressure / travel Max. weight in flight 80 kg to 100 kg			0	not available	0
	Symmetric control pressure		Increasing / greater than 60 cm	А	not available	0
	Max. weight in flight greater					U
	Symmetric control pressure		not available	0	Increasing / greater than 65 cm	А
	5. Pitch stability exiting accelerated flight		Α		0.0	
	Dive forward angle on exit	•	Dive forward less than 30°	А	Dive forward less than 30°	А
	Collapse occurs		No	А	No	А
6. Pitch stability operating controls during accelerated flight		Α				
	Collapse occurs		No	А	No	А
	7. Roll stability and damp	ing	Α			
	Oscillations		Reducing	А	Reducing	А
	8. Stability in gentle spira		Α			
	Tendency to return to straig	•	Spontaneous exit	А	Spontaneous exit	A
	9. Behaviour in a steeply	banked turn	A	•		
	Sink rate after two turns		12 m/s to 14 m/s	A	12 m/s to 14 m/s	A
	10. Symmetric front collar	JSe	A Dealing back loss than 45°	^	Decking back loss than 45°	^
Entry Recovery		Rocking back less than 45° Spontaneous in less than 3 s	A A	Rocking back less than 45° Spontaneous in less than 3 s	A A	
	Dive forward angle on exit /	Change of course	Dive forward 0° to 30° / Keeping	A	Dive forward 0° to 30° / Keeping	A
	Cascade occurs		course No	A	course No	A
	With accelerator			~		~
	Entry		Rocking back less than 45°	А	Rocking back less than 45°	А
	Recovery		Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
	,			••	- r	

Certification number

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	Α			
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Collapse	No collapse	А	No collapse	А
Cascade occurs (other than collapses)	No	A	No	A
Rocking back	Less than 45°	A	Less than 45°	A
Line tension	Most lines tight	A	Most lines tight	A
14. Asymmetric collapse	A			
With 50% collapse	2			
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to $15^{\circ}$	A	Less than 90° / Dive or roll angle 0° to 15° $$	А
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
With 75% collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	A	Less than 90° / Dive or roll angle $15^{\circ}$ to $45^{\circ}$	A
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
With 50% collapse and accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to $15^{\circ}$	А	Less than 90° / Dive or roll angle 0° to 15° $$	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 and accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle $15^{\circ}$ to $45^{\circ}$	A	Less than 90° / Dive or roll angle $15^{\circ}$ to $45^{\circ}$	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
15. Directional control with a maintained asymmetric	Α			
collapse				
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

A   A     Spin occurs   No   A   No   A     Spin occurs   A   Stops spinning in less than 90°   A   Stops spinning in less than 90°   A     Spin rotation angle after release   Stops spinning in less than 90°   A   Stops spinning in less than 90°   A     Spin rotation angle after release   No   A   No   A     Change of course before release   Changing course less than 45°   A   Changing course less than 3 s   A   Changing course less than 3 s   A   Changing course less than 3 s   A   Changing course less than 45°   A   Changing course less than 45°   A   Changing course less than 3 s   A   Dive forward 0° to 30°   A   Dive forward 0° to 30°   A </th <th>16. Trim speed spin tendency</th> <th>Α</th> <th></th> <th></th> <th></th>	16. Trim speed spin tendency	Α			
Spin occursNoANoANoA18. Recovery from a developed spinA18. Recovery from a developed spinACascade occursNoANoACascade occursNoANoA19. B-line stallANoARemains stable with straight spanARecovery thefore releaseChanging course less than 45°ARemains stable with straight spanABehaviour before releaseSpontaneous in less than 3 sASpontaneous in less than 3 sADive forward of to 30°ADive forward 0° to 30°ADive forward 0° to 30°ADive forward ungle on exitDive forward 0° to 30°ADive forward 0° to 30°ASpontaneous in less than 3 sADive forward ungle gersStable flightAStable flightAStable flightARecoverySpontaneous in less than 3 sADive forward 0° to 30°ADive forward 0° to 30°ADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ADive forward 0° to 30°A21. Big gers in accelerated flightAStable flightAStable flightARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward 0 for 30°ADive forward 0 for 30°ADive forward 0 for 30°A21. Big gers in accelerated flightAStable flightAStable flightARec	Spin occurs	No	А	No	А
B. Recovery from a developed spin   A     Spin rotation angle after release   Stops spinning in less than 90°   A   Stops spinning in less than 90°   A     Spin rotation angle after release   No   A   No   A     DBLine stall   A   Changing course less than 45°   A   Changing course less than 45°   A     Behaviour before release   Changing course less than 45°   A   Remains stable with straight span   A     Behaviour before release   Spontaneous in less than 3 s   A   Spontaneous in less than 3 s   A     Behaviour dung le on exit   Dive forward 0° to 30°   A   Dive forward 0° to 30°   A   Dive forward 0° to 30°   A     Cascade occurs   No   A   No   A   No   A     Stable flight   A   Stable flight   A   Stable flight   A     Stable flight   A   Stable flight   A   Stable flight   A     Behaviour during big ears   Stable flight   A   Stable flight   A     Behaviour during big ears   Stable flight   A   Stable flight   A     Behaviour during big ears <td< td=""><td>17. Low speed spin tendency</td><td>Α</td><td></td><td></td><td></td></td<>	17. Low speed spin tendency	Α			
Spin rotation angle after releaseStops spinning in less than 90°AStops spinning in less than 90°A13. B-line stallAChange of course before releaseChanging course less than 45°AChanging course less than 45°ABehaviour before releaseRemains stable with straight spanARemains stable with straight spanARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ANoACascade occursANoANoA20. Big earsAEntertion 10°ASpontaneous in less than 3 sABehaviour during big earsStable flightAStable flightARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°A21. Big ears in accelerated flightAStable flightAStable flightABehaviour during big earsStable flightAStable flight<	Spin occurs	No	А	No	А
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A   A   A   A     Change of course before release   Changing course less than 45"   A   Changing course less than 45"   A     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   Spontaneous in less than 3 s   A     20. Big cars   A   Dive forward 0" to 30"   A   No   A     20. Big cars   A   Entry procedure   Dedicated controls   A   Spontaneous in less than 3 s   A     Recovery   Spontaneous in less than 3 s   A   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   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   Dive forward 0" to 30"   A     Behaviour during big ears   Stable flight   A   Stable flight   A   Stable flight   A     Recovery   Spontaneous exit   A <td< td=""><td>Spin rotation angle after release</td><td>Stops spinning in less than 90<math>^\circ</math></td><td>А</td><td>Stops spinning in less than 90°</td><td>А</td></td<>	Spin rotation angle after release	Stops spinning in less than 90 $^\circ$	А	Stops spinning in less than 90°	А
Change of course before releaseChanging course less than 45° Remains stable with straight spanAChanging course less than 45° AABehaviour before releaseRemains stable with straight spanARemains stable with straight spanARemains stable with straight spanARecoverySpontaneous in less than 3 s Dive forward 0° to 30°ADive forward 0° to 30° AANoACascade occursNoANoANoACascade occursADedicated controlsADedicated controlsABehaviour during big earsStable flightAStable flightABecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°A21. Big ears in accelerated flightAStable flightAStable flightABehaviour during big earsStable flightAStable flightAStable flightABehaviour during big earsStable flightAStable flightAStable flightADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°AADive forward gig earsStable flightAStable flightAStable flightAStable flightAStable flightAStable flightASt	Cascade occurs	No	А	No	А
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Behaviour during big earsStable flightAStable flightARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°A21. Big ears in accelerated flightAEEEntry procedureDedicated controlsADedicated controlsABehaviour during big earsStable flightAStable flightARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ABehaviour during big earsSpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ABehaviour immediately after releasing the accelerator whileStable flightAStable flightA22. Behaviour exiting a steep spiralALess than 720°, spontaneous exitALess than 720°, spontaneous recoveryASink rate when evaluating spiral stability [m/s]16142223. Alternative means of directional controlAYesAA24. Any other flight procedure and/or configuration described in the user's manualOnot available0Procedure works as describednot availablenot available0not available0Procedure works as describednot availablenot availabl	20. Big ears	Α			
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Dive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°A21. Big ears in accelerated flightAEntry procedureDedicated controlsADedicated controlsABehaviour during big earsStable flightAStable flightARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ABehaviour immediately after releasing the accelerator whileStable flightAStable flightABehaviour immediately after releasing the accelerator whileAStable flightAStable flightAC22. Behaviour exiting a steep spiralASpontaneous exitASpontaneous exitASpontaneous exitAC11 and angle to recover normal flightLess than 720°, spontaneous exitASpontaneous exitALess than 720°, spontaneous exitAC13 Alternative means of directional controlAYesANoAC23 Alternative means of directional controlAYesANoAC34 Altor spin occursNoANoANoAC44 Controls and beseribednot available0not available0not available0C55 Comments of test pilotcoursenot available0not available0not available0C55 Comments of test pilotC55 Comments of test pilotC50 Comments of test pilot <td>Behaviour during big ears</td> <td>Stable flight</td> <td>Α</td> <td>Stable flight</td> <td>А</td>	Behaviour during big ears	Stable flight	Α	Stable flight	А
21. Big ears in accelerated flight   A     Entry procedure   Dedicated controls   A   Dedicated controls   A     Entry procedure   Dedicated controls   A   Stable flight   A     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     Behaviour immediately after releasing the accelerator while maintaining big ears   Stable flight   A   Stable flight   A     22. Behaviour exiting a steep spiral   A   A   Stable flight   A     Turn angle to recover normal flight   Spontaneous exit   A   Spontaneous exit   A     23. Alternative means of directional control   A   Less than 720°, spontaneous recovery   A   Iteless than 720°, spontaneous recovery   A     24. Any other flight procedure and/or configuration described in the user's manual   O   14   A     24. Any other flight procedure and/or configuration described in the user's manual   O   not available   O   not available   0	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	А
Entry procedureDedicated controlsADedicated controlsABehaviour during big earsStable flightAStable flightARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward on exitDive forward 0° to 30°ADive forward 0° to 30°ABehaviour immediately after releasing the accelerator whileStable flightAStable flightA22. Behaviour exiting a steep spiralAStable flightAStable flightATendency to return to straight flightSpontaneous exitASpontaneous exitALess than 720°, spontaneous exitATurn angle to recover normal flightLess than 720°, spontaneous exitALess than 720°, spontaneous exitALess than 720°, spontaneous exitA23. Alternative means of directional controlAYesAYesAStable or spin cocursNoANoANoA24. Any other flight procedure and/or configuration described in the user's manualOnot availableOnot availableOProcedure works as describednot availablenot available0not availableOnot availableOCascade occursnot available0not availableOnot availableONoA25. Comments of test pilotStable flightStable flightOnot availableONoA26. Comments of test pilotStable spinalStable fligh	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	А
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