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Sky Paragliders a.s.

Okružní 39

PG_0450.2011

10.06.2011

AIR TURQUOISE SA certified by



Flight test report: EN

Manufacturer

Address

	Address	Okružní 39 73911 Frýdlant nad Ostravici Czech Republic	Date of flight test		10. 06. 2011	
	Representative	None	Place of test		Villeneuve	
	Glider model	Antea 2 XL	Classification		С	
	Trimmer	no				
		Test pilot	Berruex Gilles		Zoller Alain	
		Harness	Gin Gliders - Gingo 2 L		Gin Gliders - Gingo 2 L	
		Total weight in flight (kg)	105		145	
	1. Inflation/Take-off		Α			
	Rising behaviour		Smooth, easy and constant rising	А	Smooth, easy and constant rising	А
	Special take off technique r	equired	No	А	No	А
	2. Landing		Α			
	Special landing technique r	equired	No	А	No	А
	3. Speed in straight flight		В			
	Trim speed more than 30 ki	m/h	Yes	А	Yes	А
	Speed range using the cont	trols larger than 10 km/h	Yes	А	Yes	А
	Minimum speed		25 km/h to 30 km/h	В	25 km/h to 30 km/h	В
	4. Control movement		Α			
	Max. weight in flight up to 8	0 kg				
Symmetric control pressure / travel		not available	0	not available	0	
	Max. weight in flight 80 kg to 100 kg					
	Symmetric control pressure / travel		not available	0	not available	0
	Max. weight in flight greater					
	Symmetric control pressure		Increasing / greater than 65 cm	A	Increasing / greater than 65 cm	A
	5. Pitch stability exiting a	ccelerated flight	A			
Dive forward angle on exit		Dive forward less than 30° No	A	Dive forward less than 30°	A	
	Collapse occurs	Pliapse occurs Pitch stability operating controls during accelerated		A	No	A
	6. Pitch stability operating	g controls during accelerated	Α			
	Collapse occurs		No	А	No	А
	7. Roll stability and damp	ing	Α			
	Oscillations		Reducing	А	Reducing	А
	8. Stability in gentle spira	ls	Α			
	Tendency to return to straig	ht flight	Spontaneous exit	А	Spontaneous exit	А
	9. Behaviour in a steeply	banked turn	В			
	Sink rate after two turns		12 m/s to 14 m/s	А	More than 14 m/s	В
	10. Symmetric front colla	ose	В			
	Entry		Rocking back less than 45°	А	Rocking back less than 45°	А
	Recovery		Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
	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					
	Entry		Rocking back less than 45°	A	Rocking back less than 45°	A

Spontaneous in less than 3 s

А

Certification number

Date of flight test

Entry Recovery

А

Spontaneous in less than 3 s

Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 30° to 60° / Keeping course	В
Cascade occurs	No	А	No	А
11. Exiting deep stall (parachutal stall)	A			
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	A	No	Α
12. High angle of attack recovery	A			
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Cascade occurs	No	A	No	A
13. Recovery from a developed full stall	B			,,
Dive forward angle on exit	 Dive forward 0° to 30° 	А	Dive forward 30° to 60°	В
Collapse	No collapse	A	No collapse	A
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	C	~	Most incs light	~
With 50% collapse	0			
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15°	A	Less than 90° / Dive or roll angle 15° to 45°	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	A	No	A
Twist occurs	No	A	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 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	90° to 180° / Dive or roll angle 15° to 45°	В	Less than 90° / Dive or roll angle 15° to 45°	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	A	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 45° to 60°	С	90° to 180° / Dive or roll angle 60° to 90°	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	A	No	A
Cascade occurs	No	А	No	А
15. Directional control with a maintained asymmetric	A			
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	Α	More than 50 % of the symmetric control travel	A

16. Trim speed spin tendency A			
Spin occurs No	А	No	А
17. Low speed spin tendency A			
Spin occurs No	А	No	А
18. Recovery from a developed spin A			
Spin rotation angle after release Stops spinning in	less than 90° A	Stops spinning in less than 90°	А
Cascade occurs No	А	No	А
19. B-line stall A			
Change of course before release Changing course	less than 45° A	Changing course less than 45°	А
Behaviour before release Remains stable v span	vith straight A	Remains stable with straight span	A
Recovery Spontaneous in l	ess than 3 s A	Spontaneous in less than 3 s	А
Dive forward angle on exit Dive forward 0° to	o 30° A	Dive forward 0° to 30°	А
Cascade occurs No	А	No	А
20. Big ears A			
Entry procedure Standard techniq	ue A	Standard technique	А
Behaviour during big ears Stable flight	А	Stable flight	А
Recovery Spontaneous in l	ess than 3 s A	Spontaneous in less than 3 s	А
Dive forward angle on exit Dive forward 0° to	o 30° A	Dive forward 0° to 30°	А
21. Big ears in accelerated flight A			
Entry procedure Standard techniq	ue A	Standard technique	А
Behaviour during big ears Stable flight	А	Stable flight	А
Recovery Spontaneous in l	ess than 3 s A	Spontaneous in less than 3 s	А
Dive forward angle on exit Dive forward 0° to	o 30° A	Dive forward 0° to 30°	А
Behaviour immediately after releasing the accelerator while Stable flight maintaining big ears	А	Stable flight	A
22. Behaviour exiting a steep spiral A			
Tendency to return to straight flight Spontaneous exit	t A	Spontaneous exit	А
Turn angle to recover normal flight Less than 720°, s recovery		Less than 720°, spontaneous recovery	A
Sink rate when evaluating spiral stability [m/s] 15		20	
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 0 described in the user's manual			
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			