para-test.com

Sky Paragliders a.s.

Okružní 39

PG_0391.2010

10. 12. 2010

AIR TURQUOISE SA certified by



Flight test report: EN

Manufacturer

Address

Address	73911 Frýdlant nad Ostravic Czech Republic	í í		10. 12. 2010	
Representative	None	Place of test		Villeneuve	
Glider model	Fides 3 XL	Classification		Α	
Trimmer	no				
	•	Berruex Gilles		Zoller Alain	
	Harness	Sup'Air - Access M		Gin Gliders - Gingo 2 L	
	Total weight in flight (kg)	102		130	
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	e required	No	А	No	А
3. Speed in straight flight	ht	Α			
Trim speed more than 30	km/h	Yes	А	Yes	А
Speed range using the co	ontrols larger than 10 km/h	Yes	А	Yes	А
Minimum speed		Less than 25 km/h	А	Less than 25 km/h	А
4. Control movement		Α			
Max. weight in flight up to	9 80 kg				
Symmetric control pressu	ire / travel	not available	0	not available	0
Max. weight in flight 80 kg	g to 100 kg				
Symmetric control pressu	ire / travel	not available	0	not available	0
Max. weight in flight great	ter than 100 kg				
Symmetric control pressu	ire / travel	Increasing / greater than 65 cm	А	Increasing / greater than 65 cm	А
5. Pitch stability exiting	accelerated flight	Α			
Dive forward angle on exi	it	Dive forward less than 30°	А	Dive forward less than 30°	А
Collapse occurs		No	А	No	А
6. Pitch stability operati flight	ing controls during accelerated	Α			
Collapse occurs		No	А	No	А
7. Roll stability and dam	nping	Α			
Oscillations		Reducing	А	Reducing	А
8. Stability in gentle spin	rals	Α			
Tendency to return to stra	aight flight	Spontaneous exit	А	Spontaneous exit	А
9. Behaviour in a steepl	y banked turn	Α			
Sink rate after two turns		12 m/s to 14 m/s	А	12 m/s to 14 m/s	А
10. Symmetric front coll	lapse	Α			
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 0° to 30° / Keeping

Rocking back less than 45°

Spontaneous in less than 3 s

course

No

Certification number

Date of flight test

Dive forward angle on exit / Change of course Cascade occurs *With accelerator* Entry Recovery А

A

А

А

Dive forward 0° to 30° / Keeping

Rocking back less than 45°

Spontaneous in less than 3 s

А

A No

А

А

course

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	А	No	А
Rocking back	Less than 45°	А	Less than 45°	А
Line tension	Most lines tight	А	Most lines tight	А
14. Asymmetric collapse	Α			
With 50% collapse				
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 0° to 15° $$	А
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
With 75% collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15° $$	A	Less than 90° / Dive or roll angle 15° to 45°	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 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 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° to 45°	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	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	A	No	A
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

bin occursNoANoALow speed spin tendencyANoAbin occursNoANoASteps oper spin a developed spinAStops spinning in less than 90°AStops spinning in less than 90°Abin rotation angle after releaseStops spinning in less than 90°AStops spinning in less than 90°Abin rotation angle after releaseNoANoAbascade occursNoANoAbaline stallAChanging course less than 45°Ahange of course before releaseChanging course less than 45°Aenarge of course before releaseSpontaneous in less than 3 sAenarge of course before releaseSpontaneous in less than 3 sAenarge of course before releaseNoASpontaneous in less than 3 senarge of course before releaseSpontaneous in less than 3 sAenarge of course before releaseNoASpontaneous in less than 3 senarge of course before releaseSpontaneous in less than 3 sAenarge of course before releaseNoASpontaneous in less than 3 senarge of course before releaseNoANoenarge of course before releaseSpontaneous in less than 3 sAenarge of course before releaseSpontaneous in less than 3 sAenarge of course before releaseSpontaneous in less than 3 sAenarge of course before releaseSpontaneous in less than 3 sA<
NoANoAA. Recovery from a developed spinAAbin rotation angle after releaseStops spinning in less than 90°Abin rotation angle after releaseNoAStops spinning in less than 90°Ab. B-line stallANoANoAb. B-line stallAChanging course less than 45°AChanging course less than 45°Ab. B-line stallARemains stable with straight spanARemains stable with straight spanAb. Brower of course before releaseSpontaneous in less than 3 sASpontaneous in less than 3 sAb. Big earsADive forward 0° to 30°ADive forward 0° to 30°Ab. Big earsADedicated controlsAStable flightA
A Recovery from a developed spinAbin rotation angle after releaseStops spinning in less than 90°AStops spinning in less than 90°Abin rotation angle after releaseNoANoAb B-line stallAANoAbanage of course before releaseChanging course less than 45°AChanging course less than 45°AcoverySpontaneous in less than 3 sARemains stable with straight span spanARemains stable with straight span spanAecoverySpontaneous in less than 3 sASpontaneous in less than 3 sAAve forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°Aascade occursNoANoAAb Big earsAADedicated controlsAStable flightAastable gearsStable flightAStable flightAStable flightA
bin rotation angle after releaseStops spinning in less than 90°AStops spinning in less than 90°Aascade occursNoANoA b. B-line stallA anange of course before releaseChanging course less than 45°AChanging course less than 45°Aehaviour before releaseRemains stable with straight spanARemains stable with straight spanASpontaneous in less than 3 sAecoverySpontaneous in less than 3 sASpontaneous in less than 3 sAAve forward angle on exit ascade occursDive forward 0° to 30°ADive forward 0° to 30°A b. Big earsAA ANoA b. Big ears Dedicated controlsAStable flightA
Ascade occursNoANoAA. B-line stallAhange of course before releaseChanging course less than 45°AChanging course less than 45°Ahange of course before releaseChanging course less than 45°AChanging course less than 45°Ahaviour before releaseRemains stable with straight spanARemains stable with straight span spanAecoverySpontaneous in less than 3 sASpontaneous in less than 3 sAve forward angle on exit ascade occursDive forward 0° to 30°ADive forward 0° to 30°Abig ears haviour during big earsAADedicated controlsADedicated controlsAbig big ears haviour during big earsStable flightAStable flightAStable flightA
A. B-line stallAnange of course before releaseChanging course less than 45°AChanging course less than 45°Aenaviour before releaseRemains stable with straight spanARemains stable with straight spanAecoverySpontaneous in less than 3 sASpontaneous in less than 3 sAve forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°Aascade occursNoANoAbig earsADedicated controlsADedicated controlsAenaviour during big earsStable flightAStable flightA
name of course before releaseChanging course less than 45°AChanging course less than 45°Aenviour before releaseRemains stable with straight spanARemains stable with straight spanAecoverySpontaneous in less than 3 sASpontaneous in less than 3 sAve forward angle on exit ascade occursDive forward 0° to 30°ADive forward 0° to 30°Abig earsAANoAbig earsADedicated controlsADedicated controlsAbig earsStable flightAStable flightAStable flightA
A serviceRemains stable with straight spanA serviceRemains stable with straight spanA serviceA serviceSpontaneous in less than 3 sA spontaneous in less than 3 sA serviceA secoreDive forward 0° to 30°A secoreDive forward 0° to 30°A secoreA secoreA secoreNoA NoA secoreA secoreA secoreA secoreDedicated controlsA secoreA stable flightA stable flight
spanecoverySpontaneous in less than 3 sASpontaneous in less than 3 sAve forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°Aascade occursNoANoA big earsA Dedicated controlsADedicated controlsAabaviour during big earsStable flightAStable flightA
ve forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°Aascade occursNoANoABig earsADedicated controlsADedicated controlsAhtry procedureDedicated controlsADedicated controlsADedicated controlsAehaviour during big earsStable flightAStable flightAStable flightA
Ascade occursNoANoABig earsAAatry procedureDedicated controlsADedicated controlsAbehaviour during big earsStable flightAStable flightA
A Dedicated controls A Dedicated controls A haviour during big ears Stable flight A Stable flight A
http://procedureDedicated controlsADedicated controlsAehaviour during big earsStable flightAStable flightA
shaviour during big ears Stable flight A Stable flight A
ecovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A
ve forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A
. Big ears in accelerated flight A
try procedure Dedicated controls A Dedicated controls A
ehaviour during big ears Stable flight A Stable flight A
ecovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A
ve forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A
haviour immediately after releasing the accelerator while Stable flight A Stable flight A a stable flight A stable flight A
Behaviour exiting a steep spiral A
endency to return to straight flight Spontaneous exit A Spontaneous exit A
Irn angle to recover normal flight Less than 720°, spontaneous A Less than 720°, spontaneous A recovery A
nk rate when evaluating spiral stability [m/s] 16 16
Alternative means of directional control A
10° turn achievable in 20 s Yes A Yes A
all or spin occurs No A No A
Any other flight procedure and/or configuration 0 scribed in the user's manual
ocedure works as described not available 0 not available 0
ocedure suitable for novice pilots not available 0 not available 0
ascade occurs not available 0 not available 0
. Comments of test pilot
omments