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Ozone Gliders

PG_0406.2011

AIR TURQUOISE SA certified by



Flight test report: EN

Manufacturer

Manufacturer	Ozone Onders	Certification number		10_0400.2011	
Address	2, Queens Drive LA46LN . UK	Date of flight test		01. 04. 2011	
Representative	Ogden Russell	Place of test		Villeneuve	
Glider model	Speedster 24	Classification		С	
Trimmer	yes: closed				
	Test pilot	Dupont Philippe		Thurnheer Claude	
	Harness	Sup'Air - Altiplume S		Niviuk Gliders - Hamak M	
	Total weight in flight (kg)	65		95	
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	А
3. Speed in straight flight	t	В			
Trim speed more than 30 k	km/h	Yes	А	Yes	А
Speed range using the cor	ntrols larger than 10 km/h	Yes	А	Yes	А
Minimum speed		Less than 25 km/h	А	25 km/h to 30 km/h	В
4. Control movement		В			
Max. weight in flight up to	80 kg				
Symmetric control pressure	e / travel	Increasing / greater than 55 cm	А	not available	0
Max. weight in flight 80 kg to 100 kg					
Symmetric control pressure / travel		not available	0	Approximately constant / greater than 60 cm	В
Max. weight in flight greate	ar than 100 kg				
Symmetric control pressure		not available	0	not available	0
5. Pitch stability exiting a		A	U		U
Dive forward angle on exit		Dive forward less than 30°	А	Dive forward less than 30°	А
Collapse occurs		No	A	No	A
	ng controls during accelerated	A			
flight	0				
Collapse occurs		No	А	No	А
7. Roll stability and damping		Α			
Oscillations		Reducing	А	Reducing	А
8. Stability in gentle spira		Α			
		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	apse	В			
Entry		Rocking back less than 45°	A	Rocking back less than 45°	A
Recovery		Spontaneous in 3 s to 5 s	В	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

Certification number

Descusion	On anten a sur in O a ta E a	-		•
Recovery	Spontaneous in 3 s to 5 s	B	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	A	No	A
11. Exiting deep stall (parachutal stall)	Α			
Deep stall achieved	Yes	А	Yes	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°	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	Α
12. High angle of attack recovery	Α			
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Cascade occurs	No	A	No	A
13. Recovery from a developed full stall	В			
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 30° to 60°	В
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	C			
With 50% collapse				
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	Α
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	90° to 180° / Dive or roll angle 15° to 45°	В	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 75% collapse and accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 60° to 90°	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	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

Spin occursNoANoA17. Low spect spin tedneryASpin occursNoANoA18. Recovery from a developed spinAStops spinning in less than 0°ASpin totation angle after releaseStops spinning in less than 5°ANoA19. B-line stallAChanging course less than 45°ANoA19. B-line stallAChanging course less than 45°ARemains stable with straight spanARemains stable with straight spanABehaviour before releaseSpontaneous in less than 5°ASpontaneous in less than 3°ABehaviour before releaseSpontaneous in less than 3°ASpontaneous in less than 3°ADive forward 0° to 30°ASpontaneous in less than 3°ASpontaneous in less than 3°A20. Big earsASpontaneous in less than 3°ASpontaneous in less than 3°ABehaviour during big earsSpontaneous in less than 3°ASpontaneous in less than 3°ABehaviour during big earsSpontaneous in less than 3°ASpontaneous in less than 3°ABehaviour during big earsBelicited controlsASuble flightABehaviour during big ears <th>16. Trim speed spin tendency</th> <th>Α</th> <th></th> <th></th> <th></th>	16. Trim speed spin tendency	Α			
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Cascade occurs No A No A 25. Comments of test pilot Image: Comment of test pilot	Procedure works as described	Yes	А	Yes	А
25. Comments of test pilot	Procedure suitable for novice pilots	Yes	А	Yes	А
	Cascade occurs	No	А	No	А
Comments	25. Comments of test pilot				
	Comments				