AIR TURQUOISE SA | PARA-TEST.COM

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Flight test report: EN 926-2:2013 & NfL 2-565-20

Manufacturer Ozone Gliders		Certification number		PG_1930.2022		
ddress 2, Queens Drive LA46LN . UK		Flight test	2	23.02.2022		
Glider model Zeno 2 S		Classification)		
Serial number PR3-X-01E-014 Trimmer no		Representative Place of test		Russ Ogden		
				/illeneuve		
		Flace of test	V	villerleuve		
Folding lines used	yes					
Test pilot		Claude Thurnheer	A	Alexandre Jofresa		
Harness		Supair - Altiplume S		Dudek - ZeroGravity		
Harness to risers distance (cm)		44		43		
• • •		44	44			
Distance between risers (cm)			-			
Total weight in flight (kg)		75		90		
1. Inflation/Take-off		С				
Rising behaviour		Overshoots, shall be slowed down to avoid a front collapse	С	Overshoots, shall be slowed down to avoid a front collapse	С	
Special take off technique	e required	No	Α	No	Α	
2. Landing		Α				
Special landing technique required		No	Α	No	Α	
3. Speed in straight flight		В				
Trim speed more than 30 km/h		Yes	Α	Yes	Α	
Speed range using the controls larger than 10 km/h		Yes	Α	Yes	Α	
Minimum speed		25 km/h to 30 km/h	В	25 km/h to 30 km/h	В	
4. Control movement		С				
Max. weight in flight up	-		_		_	
Symmetric control pressure / travel		Increasing / 40 cm to 55 cm	С	not available	0	
Max. weight in flight 80	-		•		_	
Symmetric control pressu		not available	0	Increasing / 45 cm to 60 cm	С	
Max. weight in flight greater than 100 kg		or at accellable	^		•	
Symmetric control pressure / travel		not available	0	not available	0	
5. Pitch stability exiting accelerated flight		A	۸	Divertend less than 20°	۸	
Dive forward angle on exit		Dive forward less than 30° No	Α	Dive forward less than 30° No	A	
Collapse occurs 6. Pitch stability operatiflight	ng controls during accelerated	A	A	NU	Α	
Collapse occurs		No	Α	No	Α	
7. Roll stability and dam	ping	A				
Oscillations		Reducing	Α	Reducing	Α	
8. Stability in gentle spir	rals	A				
Tendency to return to stra		Spontaneous exit	Α	Spontaneous exit	Α	
9. Behaviour exiting a fu	ılly developed spiral dive	D				
Initial response of glider (first 180°)		No immediate reaction	В	No immediate reaction	В	
Tendency to return to stra	aight flight	Turn remains constant (g force constant, rate of turn constant)	D	Spontaneous exit (g force decreasing, rate of turn decreasing)	Α	
Turn angle to recover nor	mal flight	With pilot action	D	1080° to 1440°, spontaneous recovery	С	
10. Symmetric front coll		D				
Approximately 30 % cho	ora	Dealing healthers there 450		Danking hank land their 450		
Entry		Rocking back less than 45°	Α	Rocking back less than 45°	Α	

Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit Change of course	Dive forward 0° to 30° Keeping course	Α	Dive forward 0° to 30° Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	Yes	D	Yes	D
At least 50% chord				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Recovery through pilot action in less than a further 3 s	D	Spontaneous in less than 3 s	Α
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	Yes	D	Yes	D
With accelerator				
Entry	Rocking back greater than 45°	С	Rocking back greater than 45°	С
Recovery	Recovery through pilot action in less than a further 3 s	D	Spontaneous in 3 s to 5 s	В
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Entering a turn of 90° to 180°	С
Cascade occurs	No	Α	No	Α
Folding lines used	Yes	D	Yes	D
11. Exiting deep stall (parachutal stall)	Α			
Deep stall achieved	Yes	Α	Yes	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Change of course	Changing course less than 45°	Α	Changing course less than 45°	Α
Cascade occurs	No	Α	No	Α
12. High angle of attack recovery	Α			
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Cascade occurs	No	Α	No	Α
13. Recovery from a developed full stall	C			
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Dive forward angle on exit Collapse	Dive forward 0° to 30° No collapse	Α	No collapse	Α
Dive forward angle on exit Collapse Cascade occurs (other than collapses)	Dive forward 0° to 30° No collapse No	A A	No collapse No	A A
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back	Dive forward 0° to 30° No collapse No Greater than 45°	A A C	No collapse No Greater than 45°	A A C
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension	Dive forward 0° to 30° No collapse No Greater than 45° Most lines tight	A A	No collapse No	A A
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse	Dive forward 0° to 30° No collapse No Greater than 45°	A A C	No collapse No Greater than 45°	A A C
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or	Dive forward 0° to 30° No collapse No Greater than 45° Most lines tight D Less than 90° / Dive or roll angle	A A C A	No collapse No Greater than 45° Most lines tight Less than 90° / Dive or roll angle	A A C
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse	Dive forward 0° to 30° No collapse No Greater than 45° Most lines tight D Less than 90° / Dive or roll angle 15° to 45° Inflates in less than 3 s from start of	A C A	No collapse No Greater than 45° Most lines tight	A A C A
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour	Dive forward 0° to 30° No collapse No Greater than 45° Most lines tight D Less than 90° / Dive or roll angle 15° to 45°	A C A	No collapse No Greater than 45° Most lines tight Less than 90° / Dive or roll angle 15° to 45°	A A C A
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Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs	Dive forward 0° to 30° No collapse No Greater than 45° Most lines tight D Less than 90° / Dive or roll angle 15° to 45° Inflates in less than 3 s from start of pilot action Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	A A C A A A	No collapse No Greater than 45° Most lines tight Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	A A A A A
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Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or	Dive forward 0° to 30° No collapse No Greater than 45° Most lines tight D Less than 90° / Dive or roll angle 15° to 45° Inflates in less than 3 s from start of pilot action Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No Yes	A C A C A A A D B	No collapse No Greater than 45° Most lines tight Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No Yes 90° to 180° / Dive or roll angle	A A A A A D
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle	Dive forward 0° to 30° No collapse No Greater than 45° Most lines tight D Less than 90° / Dive or roll angle 15° to 45° Inflates in less than 3 s from start of pilot action Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No Yes 90° to 180° / Dive or roll angle 15° to 45° Inflates in less than 3 s from start of	A C A C A A A D B	No collapse No Greater than 45° Most lines tight Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No Yes 90° to 180° / Dive or roll angle 15° to 45°	A A A A A D B
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Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs	Dive forward 0° to 30° No collapse No Greater than 45° Most lines tight D Less than 90° / Dive or roll angle 15° to 45° Inflates in less than 3 s from start of pilot action Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No Yes 90° to 180° / Dive or roll angle 15° to 45° Inflates in less than 3 s from start of pilot action Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation)	A A C A A A D B C A A	No collapse No Greater than 45° Most lines tight Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No Yes 90° to 180° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation)	A A A A A A A A A A A A A A A A A A A

Small asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	Α	Less than 90° / Dive or roll angle 15° to 45°	Α
Re-inflation behaviour	Inflates in less than 3 s from start of pilot action	С	Spontaneous re-inflation	Α
Total change of course	Less than 360°	Α	Less than 360°	Α
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	Yes	D	Yes	D
Large asymmetric collapse with fully activated accelerator				
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	Inflates in less than 3 s from start of pilot action	С	Inflates in less than 3 s from start of pilot action	С
Total change of course	Less than 360°	Α	Less than 360°	Α
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	Yes	D	Yes	D
15. Directional control with a maintained asymmetric collapse	A			
Able to keep course	Yes	Α	Yes	Α
180° turn away from the collapsed side possible in 10 s	Yes	Α	Yes	Α
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	Α
16. Trim speed spin tendency	A			
Spin occurs	No	Α	No	Α
17. Low speed spin tendency	A			
Spin occurs	No	Α	No	Α
18. Recovery from a developed spin	D Stone enimping in 190° to 260°	_	Ctons oninning in 190° to 260°	D
Spin rotation angle after release	Stops spinning in 180° to 360°	D A	Stops spinning in 180° to 360°	D
Cascade occurs 19. B-line stall	No 0	^	No	Α
Change of course before release	not available	0	not available	0
Behaviour before release	not available	0	not available	0
Recovery	not available	0	not available	0
Dive forward angle on exit	not available	0	not available	0
Cascade occurs	not available	0	not available	0
20. Big ears	С			
Entry procedure	Standard technique	Α	No dedicated controls and non- standard technique	С
Behaviour during big ears	Stable flight	Α	Stable flight	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
21. Big ears in accelerated flight	Α			
Entry procedure	Standard technique	Α	Standard technique	Α
Behaviour during big ears	Stable flight	Α	Stable flight	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	Α	Stable flight	Α
22. Alternative means of directional control	Α			
180° turn achievable in 20 s	Yes	Α	Yes	Α
Stall or spin occurs	No	Α	No	Α
23. Any other flight procedure and/or configuration described in the user's manual	A			

Procedure works as described	Yes	Α	Yes	Α
Procedure suitable for novice pilots	Yes	Α	Yes	Α
Cascade occurs	No	Α	No	Α

24. Comments of test pilot

Big ears done by B3

Big ears done by B3