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test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



## Flight test report: EN 926-2:2013+A1:2021\* and NfL 2-565-20

ManufacturerOzone Power Ldt.Address16 Barnes Green EH54 8PP Livingston United KingdomGlider modelRoadster 4 28			Certification num Flight test Classification	ber	PG_2453.2024 18.09.2024 B	
Serial number Trimmer Folding lines used	PR12-Z-27B-035 no no		Representative Place of test		None Villeneuve	
Test pilot		Claude Thurnheer			Anselm Rauh	
Harness Harness to risers distance [cm] Distance between risers [cm]		Advance Thun AG Success 4 M 43 44			Advance Thun AG Success 4 L 43 48	
Total weight in flight [kg]		95			120	
1. Inflation/Take-off Rising behaviour		A Smooth, easy and constant rising		A	Smooth, easy and constant rising	A
Special take off technique required		No		A	No	A
<b>2. Landing</b> Special landing technique required		<b>A</b> No		A	No	A
<b>3. Speed in straight flight</b> Trim speed more than 30 km/h		B Yes A		A	Yes	A
Speed range using the controls larger than 10 km/h		Yes A		A	Yes	A
Minimum speed		Less than 25 km/h		A	25 km/h to 30 km/h	В
4. Control movement Max. weight in flight up to 80 kg Symmetric control pressure / travel		A not available		0	not available	0
Max. weight in flight 80 kg to 100 kg Symmetric control pressure / travel		Increasing / greater than 60 cm		A	not available	0
Max. weight in flight greater than 100 kg Symmetric control pressure / travel		not available		0	Increasing / greater than 65 cm	A
5. Pitch stability exiting accelerated flight Dive forward angle on exit		0 not available		0	not available	0
Collapse occurs		not available		0	not available	0
6. Pitch stability operating controls during accelerated flight		0				
Collapse occurs		not available 0		0	not available	0
7. Roll stability and damping Oscillations		<b>A</b> Reducing		A	Reducing	A
<ul><li>8. Stability in gentle spirals</li><li>Tendency to return to straight flight</li></ul>		A		A	Spontaneous exit	A

\*This standard is NOT covered by accreditation D-IS-19457-01

The validation of this test report is given by the signature of the test manager on inspection certificate 91.20 Rev 07 | 04.03.2022 // ISO | 91.22 // Page 1 of 5

Initial response of glider (first 180°)         Immediate reduction of rate of turn         A         Immediate reduction of rate of turn         A           Tendency to return to straight flight         Scontaneous exit (for decreasing, rate of turn)         A         Scontaneous recovery         A         Less than 720°, spontaneous recovery         A           10. Symmetric front collapse Approximately 30 % chord         A         Less than 720°, spontaneous recovery         A         Less than 720°, spontaneous recovery         A           Entry         Recovery         Recovery         A         Scontaneous in less than 3 s         A         Scontaneous in less than 3 s         A           Dive forward angle on exit Change of course         No         No         A         No         A           Cascade occurs         No         No         A         No         A           Folding lines used         No         No         A         A           Recovery         Scontaneous in less than 3 s         A         Scontaneous in less than 3 s         A           Recovery         Scontaneous in less than 3 s         A         No change of course         A           Recovery         Scontaneous in less than 3 s         A         No change of the soft / Keeping course         A           Recovery         No ch
Interaction of pressure of the
In Symmetric front collapse Approximately 30 % chord       A         Entry       Rocking back kess than 45°       A       Rocking back kess than 45°       A         Recovery       Spontameous in kess than 3 s       A       Spontameous in kess than 3 s       A       Spontameous in kess than 3 s       A         Dive forward angle on exit Change of course       Dive forward 0° to 30° / Keeping course       A       No       A         Cascade occurs       No       No       A       No       A         Folding lines used       No       No       A       Spontameous in kess than 3 s       A         Recovery       Spontameous in kess than 45°       A       Rocking back kess than 45°       A       No       A         At least 50% chord       Recovery       Spontameous in kess than 3 s       A       Spontameous in kess than 3 s       A         Dive forward angle on exit / Change of course       Dive forward 0° to 30° / Keeping course       A       A         Cascade occurs       No       A       No       A         Folding lines used       No       No       A       No       A         Recovery       not available       ont available       O       not available       Dive forward 0° to 30° / Keeping course       A
Approximately 30 % chord       Recovery       Rocking back less than 45°       A Rocking back less than 45°       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 Change of course       No       A No       A         Cascade occurs       No       A No       A         Folding lines used       No       A No       A         At least 50% chord       Forking back less than 45°       A Rocking back less than 45°       A Rocking back less than 45°         Entry       Rocking back less than 45°       A Rocking back less than 45°       A Rocking back less than 45°       A         Entry       Rocking back less than 45°       A Rocking back less than 45°       A Rocking back less than 45°       A         Entry       Rocking back less than 45°       A Rocking back less than 45°       A Rocking back less than 45°       A         Entry       Rocking back less than 45°       A Rocking back less than 45°       A Rocking back less than 45°       A         Recovery       Rocking back less than 45°       A Rocking back less than 45°       A       Rocking back less than 45°       A         Folding lines used       No       No       No       No       No       A
Recovery       Sportaneous in less than 3 s       A       Sportaneous 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         Folding lines used       No       A       No       A         At least 50% chord       Entry       Rocking back less than 45°       A       Recovery       A         Dive forward angle on exit / Change of course       Dive forward 0° to 30° / Keeping course       A       Recovery       A         Recovery       Spontaneous in less than 3 s       A       Spontaneous in less than 3 s       A       Recovery       A         Dive forward angle on exit / Change of course       Dive forward 0° to 30° / Keeping course       A       No       A         Cascade occurs       No       No       A       No       A         Folding lines used       No       No       A       No       A         Recovery       not available       In available       In available       In available       In available         Cascade occurs       not available       In available       In available       In available       In available
Dive forward angle on exit Change of course       Dive forward 0° to 30° / Keeping course       A         Dive forward 0° to 30° / Keeping course       No       A         Cascade occurs       No       A         Folding lines used       No       A         At least 50% chord       Rocking back less than 45°       A         Entry       Rocking back less than 45°       A         Recovery       Spontaneous in less than 3 s       A         Dive forward angle on exit / Change of course       Dive forward 0° to 30° / Keeping course       A         Cascade occurs       No       A       Spontaneous in less than 3 s       A         Cascade occurs       No       A       No       A         Cascade occurs       No       A       No       A         Folding lines used       No       A       No       A         Folding lines used       No       A       No       A         Cascade occurs       not available       0       not available       0         Recovery       not available       0       not available       0         Dive forward angle on exit / Change of course       not available       0       not available       0         Cascade occurs       not availa
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Folding lines used       No       A       No       A         At least 50% chord       Rocking back less than 45°       A       Rocking back less than 45°       A         Recovery       Spontaneous in less than 3 s       A       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         Folding lines used       No       A       No       A         Folding lines used       No       A       No       A         Folding lines used       No       A       No       A         Forty       not available       No       not available       D         Polve forward angle on exit / Change of course       not available       No       not available       D         Cascade occurs       not available       No tavailable       No       No       D       D         Polve forward angle on exit / Change of course       not available       No       not available       D       D         Cascade occurs       not available       Not available       No       not available       D <t< td=""></t<>
At least 50% chord       Fatry       Rocking back less than 45°       A       Rocking back less than 45°       A         Recovery       Spontaneous in less than 3 s       A       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         Folding lines used       No       A       No       A         With accelerator       unt available       0       not available       0         Entry       not available       0       not available       0         Dive forward angle on exit / Change of course       not available       0       not available       0         Entry       not available       not available       0       not available       0       0         Dive forward angle on exit / Change of course       not available       0       not available       0       0         Cascade occurs       not available       not available       0       not available       0         Folding lines used       Not available       Not available       0       not available       0         Folding lines used
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Folding lines used       No       A       No       A         Folding lines used       No       A       No       A         With accelerator       Image: constraint of the state of
With acceleratorEntrynot available0not available0Recoverynot available0not available0Dive forward angle on exit / Change of coursenot available0not available0Cascade occursnot available0not available0Folding lines usedNot available0Not available0 <b>11. Exiting deep stall (parachutal stall)</b> Deep stall achievedA YesYesA Spontaneous in less than 3 sARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sA
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NectoreryDive forward angle on exit / Change of coursenot available0not available0Cascade occursnot available0not available0Folding lines usedNot available0Not available0 <b>11. Exiting deep stall (parachutal stall)</b> Deep stall achieved <b>A</b> YesYesARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sA
Cascade occursnot available0not available0Folding lines usedNot available0Not available0 <b>11. Exiting deep stall (parachutal stall)</b> Deep stall achieved <b>A</b> YesA YesA YesYesA A Spontaneous in less than 3 sA A Spontaneous in less than 3 sA A Spontaneous in less than 3 sA
Folding lines usedNot available0Not available0 <b>11. Exiting deep stall (parachutal stall)</b> Deep stall achieved <b>A</b> YesYesAYesARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sASpontaneous in less than 3 sA
Instituting deep stall (parachutal stall)       A         Deep stall achieved       Yes       A       Yes       A         Recovery       Spontaneous in less than 3 s       A       Spontaneous in less than 3 s       A
Deep stall achieved     Yes     A     Yes     A       Recovery     Spontaneous in less than 3 s     A     Spontaneous in less than 3 s     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
Change of course     Changing course less than 45°     A     Changing course less than 45°     A
Cascade occurs No A No A
12. High angle of attack recovery     A       Recovery     Spontaneous in less than 3 s     A
Cascade occurs     No     A     No     A
13. Recovery from a developed full stall     B       Dive forward angle on exit     Dive forward 0° to 30°     A Dive forward 30° to 60°     B
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°	А
Line tension	Most lines tight		Most lines tight	A
14. Asymmetric collapse Small asymmetric collapse	В			
Sman asymmetric compse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	A A	Less than 90° / Dive or roll angle 15° to 45°	A
Re-inflation behaviour	Spontaneous re-inflation		•	A
Total change of course	Less than 360°		Less than 360°	A
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No		No	А
Cascade occurs	No	A	No	A
Folding lines used	No	A	No	А
Large asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	$90^\circ$ to $180^\circ$ / Dive or roll angle $15^\circ$ to $45^\circ$	в	$90^\circ$ to $180^\circ$ / Dive or roll angle $15^\circ$ to $45^\circ$	В
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	А
Total change of course	Less than 360°	A	Less than 360°	A
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	A	No	A
Cascade occurs	No	A	No	A
Folding lines used	No	A	No	A
Small asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	not available	0	not available	0
Re-inflation behaviour	not available	0	not available	0
Total change of course	not available	0	not available	0
Collapse on the opposite side occurs	not available	0	not available	0
Twist occurs	not available	0	not available	0
Cascade occurs	not available	0	not available	0
Folding lines used	Not available	0	Not available	0
Large asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	not available	0	not available	0
Re-inflation behaviour	not available	0	not available	0
Total change of course	not available	0	not available	0
Collapse on the opposite side occurs	not available	0	not available	0
Twist occurs	not available	0	not available	0
Cascade occurs	not available	0	not available	0

Folding lines used	Not available		Not available	0
15. Directional control with a maintained asymmetric collapse	A			
Able to keep course	Yes	A	Yes	A
180° turn away from the collapsed side possible in 10 s	Yes	A	Yes	A
Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel		More than 50 % of the symmetric control travel	А
16. Trim speed spin tendency	A			
Spin occurs	No	A	No	A
17. Low speed spin tendency	Α			
Spin occurs	No	A	No	A
18. Recovery from a developed spin	В			
Spin rotation angle after release	Stops spinning in 90° to 180°		Stops spinning in 90° to 180°	В
Cascade occurs	No	A	No	A
19. B-line stall	Α			
Change of course before release	Changing course less than 45°	А	Changing course less than 45°	А
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	А
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Cascade occurs	No	A	No	A
20. Big ears	A			
Entry procedure	Dedicated controls	A	Dedicated controls	А
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
21. Big ears in accelerated flight	0			
Entry procedure	not available	0	not available	0
Behaviour during big ears	not available	0	not available	0
Recovery	not available	0	not available	0
Dive forward angle on exit	not available	0	not available	0
Behaviour immediately after releasing the accelerator while maintaining big ears	not available	0	not available	0
22. Alternative means of directional control	Α			
180° turn achievable in 20 s	Yes	A	Yes	A
Stall or spin occurs	No		No	A
23. Any other flight procedure and/or configuration described in the user's manual	Α			
Procedure works as described	Yes		Yes	А
Procedure suitable for novice pilots	Yes		Yes	A
Cascade occurs	No		No	A

24. Comments of test pilot

23 : Tips stearing

The validation of this test report is given by the signature of the test manager on inspection certificate 91.20 Rev 07 | 04.03.2022 // ISO | 91.22 // Page 5 of 5