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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

|  |  |   |                                 | _                |                                  |   |
|--|--|---|---------------------------------|------------------|----------------------------------|---|
| Manufacturer Ozone Gliders LTD   |  |   | Certification                   |                  | PG_2259.2023                     |   |
| Address  | 16 Barnes Green<br>EH54 8PP Livingston |   | number Flight te                | est              | 20.03.2023                       |   |
|  | United Kingdom                         |   |                                 |                  |                                  |   |
| Glider model   | Geo 7 XS                               |   | Classification                  |                  | В                                |   |
| Serial number  | PR12-Y-05A-493                         |   | Representative                  |                  | None                             |   |
| Trimmer  | no                                     |   | Place of test                   |                  | Villeneuve                       |   |
| Folding lines used   | no                                     |   |                                 |                  |                                  |   |
|  |  |   |                                 |                  |                                  |   |
| Test pilot   |  | Light pilot under Air Turquoise supervision |                                 | Claude Thurnheer |                                  |   |
| Harness  | Harness                                |   | Woody Valley srl Wani Light 2 M |                  | Woody Valley srl Wani Light 2 M  |   |
| Harness to risers di   | istance                                | 43  |                                 |                  | 43                               |   |
| (cm) Distance between  | een risers                             | 40  |                                 |                  | 40                               |   |
| (cm) Total weight in   | n flight (kg)                          | 55  |                                 |                  | 70                               |   |
| 1. Inflation/Take-off  |  | Α   |                                 |                  |                                  |   |
| Rising behaviour   |  | Smooth, easy and constant rising A          |                                 | Α                | Smooth, easy and constant rising | Α |
| Special take off technique   | required                               | No  |                                 | Α                | No                               | Α |
| 2. Landing   |  | Α   |                                 |                  |                                  |   |
| Special landing technique  | required                               | No  |                                 | Α                | No                               | Α |
| 3. Speed in straight fligh   | <b>1</b>                               | A   |                                 |                  |                                  |   |
| Trim speed more than 30  |  | Yes   |                                 | Α                | Yes                              | Α |
| The speed mere and to  | ,                                      |   |                                 |                  |                                  |   |
| Speed range using the co   | ntrols larger than 10 km/h             | Yes   |                                 | Α                | Yes                              | Α |
| Minimum speed  |  | Less than 25 km/h                           |                                 | Α                | Less than 25 km/h                | Α |
| 4. Control movement  |  | Α   |                                 |                  |                                  |   |
| Max. weight in flight up   | to 80 kg                               |   |                                 |                  |                                  |   |
| Symmetric control pressure / travel  |  | Increasing / greater than                   | 1 55 cm                         | Α                | Increasing / greater than 55 cm  | Α |
| May weight in flight 80 l  | ka to 100 ka                           |   |                                 |                  |                                  |   |
| Max. weight in flight 80 kg to 100 kg  Symmetric control pressure / travel       |  | not available                               |                                 | 0                | not available                    | 0 |
| Cymmetric control pressur  | ic / travel                            |   |                                 |                  |                                  |   |
| Max. weight in flight gre  | ater than 100 kg                       |   |                                 |                  |                                  |   |
| Symmetric control pressure / travel  |  | not available                               |                                 | 0                | not available                    | 0 |
| 5. Pitch stability exiting   | accelerated flight                     | Α   |                                 |                  |                                  |   |
| Dive forward angle on exit   |  | Dive forward less than 3                    | 0°                              | Α                | Dive forward less than 30°       | Α |
|  |  |   |                                 |                  |                                  |   |
| Collapse occurs  |  | No  |                                 | Α                | No                               | Α |
| 6. Pitch stability operating controls during accelerated flight                  |  | Α   |                                 |                  |                                  |   |
| Collapse occurs  6. Pitch stability operating controls during accelerated flight |  | No  |                                 | Α                | No                               | Α |
| Collapse occurs  |  |   |                                 |                  |                                  |   |
| 7. Roll stability and damping  |  | A<br>De destan                              |                                 |                  | Public                           |   |
| Oscillations   |  | Reducing                                    |                                 | Α                | Reducing                         | Α |
| 8. Stability in gentle spir  | als                                    | Α   |                                 |                  |                                  |   |
| Tendency to return to straight flight  |  | Spontaneous exit                            |                                 | Α                | Spontaneous exit                 | Α |
|  |  |   |                                 |                  |                                  |   |

| 9. Behaviour exiting a fully developed spiral dive                   | A  |   |  |   |
|--|--|---|--|---|
| Initial response of glider (first 180°)                              | Immediate reduction of rate of turn                            | Α | Immediate reduction of rate of turn                            | Α |
| Tendency to return to straight flight                                | Spontaneous exit (g force decreasing, rate of turn decreasing) | Α | Spontaneous exit (g force decreasing, rate of turn decreasing) | Α |
| Turn angle to recover normal flight                                  | Less than 720°, spontaneous recovery                           | Α | Less than 720°, spontaneous recovery                           | Α |
| 10. Symmetric front collapse Approximately 30 % chord                | A  |   |  |   |
| 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   | No   | Α | No   | Α |
| At least 50% chord<br>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                                   | A |
| Dive forward angle on exit / Change of course                        | Dive forward 0° to 30° / Keeping course                        | Α | Dive forward 0° to 30° / Keeping course                        | A |
| Cascade occurs   | No   | Α | No   | A |
| Folding lines used   | No   | Α | No   | Α |
| With accelerator   |  |   |  |   |
| 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   | No   | Α | No   | Α |
| 11. Exiting deep stall (parachutal stall)                            | A  |   |  |   |
| 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                                    | A  | ^ | Sportonogua in less than 2 a                                   | ٨ |
| Recovery   | Spontaneous in less than 3 s                                   | A | Spontaneous in less than 3 s                                   | A |
| Cascade occurs   | No   | А | No   | Α |
| 13. Recovery from a developed full stall  Dive forward angle on exit | A Dive forward 0° to 30°                                       | Α | Dive forward 0° to 30°   | Α |
| Collapse   | No collapse  | Α | No collapse  | Α |
| Cascade occurs (other than collapses)                                | No   | Α | No   | Α |
|  |  |   |  |   |

| Rocking back   | Less than 45°   | Α | Less than 45°   | Α |
|--|---|---|---|---|
| Line tension   | Most lines tight  | Α | Most lines tight  | Α |
| 14. Asymmetric collapse  | В   |   |   |   |
| Small asymmetric collapse  |   |   |   |   |
| Change of course until re-inflation / Maximum dive forward or roll angle | Less than 90° / Dive or roll angle 0° to 15°                                  | Α | Less than 90° / Dive or roll angle 0° to 15°                                  | Α |
| Re-inflation behaviour   | Spontaneous re-inflation  | Α | 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   | No  | Α | No  | Α |
| Large asymmetric collapse  |   |   |   |   |
| Change of course until re-inflation / Maximum dive forward or roll angle | Less than 90° / Dive or roll angle 15° to 45°                                 | Α | 90° to 180° / Dive or roll angle 15° to 45°                                   | В |
| Re-inflation behaviour   | Spontaneous re-inflation  | Α | 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   | No  | Α | No  | Α |
| 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 0° to 15°                                  | Α | Less than 90° / Dive or roll angle 15° to 45°                                 | Α |
| Re-inflation behaviour   | Spontaneous re-inflation  | Α | 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   | No  | Α | No  | Α |
| 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 15° to 45°                                   | В |
| Re-inflation behaviour   | Spontaneous re-inflation  | Α | 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 |

| 15.0   Directional control with maintained asymmetric collisions   Able to keep course   745     | Folding lines used   | No   | Α | No   | Α |
|--|--|--|---|--|---|
| Able to keep course         Yes         A Yes         A           150" turn away from the collapsed side possible in 10 a         Yes         A Yes         A           Amount of control range between turn and stall or spin         More than 50 % of the symmetric control travel         A         No.         A No.         No.         A           15. Trim speed spin tendency         A         No.         No. </td <td></td> <td>A</td> <td></td> <td></td> <td></td>   |  | A  |   |  |   |
| Amount of control range between turn and stall or spin  16. Frim speed spin tendency  No   |  | Yes  | Α | Yes  | Α |
| 16. Trian speed spin tendency Spin occurs No No A  | 180° turn away from the collapsed side possible in 10 s                            | Yes  | Α | Yes  | Α |
| Spin occurs  No A No A No A No A  17. Low speed spin tendency Spin coccurs  No A No A No A  18. Recovery from a developed spin A Cascade occurs  No A Supp spinning in less than 90° A Supp spinning in less than 90° A  19. B-line stall Change of course before release Changing course less than 40° A Changing course less than 45° A Changing course described controls A Changing course less than 45° A Changing course | 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 |
| Spin occurs No No A No A No A No A No A Spin occurs No No A No A No A No A Spin occurs No No A Spin occurs No A No A No A No A No A Spin occurs No A No A Spin occurs No A Spin occurs No A Spin occurs No A No A Spin occurs No A No A No A Spin occurs No A Spin occurs No A No   | 16. Trim speed spin tendency   | A  |   |  |   |
| Spin occurs  No A No A No A  18. Recovery from a developed spin A Spin rotation angle after release Stops spinning in less than 50" A Stops spinning in less than 50" A  19. B-line stall A Change of course before release Changing course less than 45" A Changing course less than 45" A  Behaviour before release Remains stable with straight span 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 of to 30" A No A N  | Spin occurs  | No   | Α | No   | Α |
| Spin rotation angle after release  Stops spinning in less than 90"  A Stops spinning in less than 90"  A No  A No  A No  A No  A  19. B-line stall  Change of course before release  Changing course less than 45"  A Remains stable with straight span  A Recovery  Spontaneous in less than 3 s  A Spontaneous in less than 3 s  A Dive forward on 500"  A Dive forward angle on exit  Cascade occurs  No  A No  A No  A No  A No  A No  A Dedicated controls  A Behaviour during big ears  Recovery  Spontaneous in less than 3 s  A Spontaneous in less than 3 s  A Spontaneous in less than 3 s  A Dive forward on 500"  A Stable flight  A Stable flight  A Dive forward on 500"  A Dive forward on |  |  | Α | No   | Α |
| Cascade occurs  No A  A  19. B-line stall A  Changing course less than 45° A  Behaviour before release  Remains stable with straight span A  Recovery Spontaneous in less than 3 s A  Dive forward one stable with straight span A  Cascade occurs No A  Dive forward one stable with straight span A  Cascade occurs No A  Dive forward one stable with straight span A  Cascade occurs No A  Dedicated controls A  Cascade occurs A  A  Dedicated controls A  Dedicated controls A  Behaviour during big ears Stable flight A  Cathering occurs of the stable with straight span A  Cascade occurs A  Dedicated controls A  Dedicated controls A  Dedicated controls A  Deve forward one to stable stab | 18. Recovery from a developed spin   | A  |   |  |   |
| A Change of course before release Change of course before release Remains stable with straight span Recovery Spontaneous in less than 3 s A Recovery Spontaneous in less than 3 s A Dive forward angle on exit Dive forward or to 30° A No A No A No A No A Dedicated controls A Recovery Spontaneous in less than 3 s A Dedicated controls A Dedicated controls A Recovery Spontaneous in less than 3 s A Dedicated controls A Dedicated controls A Stable flight A Stable fl | Spin rotation angle after release  | Stops spinning in less than 90°                | Α | Stops spinning in less than 90°                | Α |
| Change of course before release  Change of course before release  Remains stable with straight span  A Recovery  Spontaneous in less than 3 s  A Spontaneous in less than 3 s  A Dive forward on to 30°  A Dedicated controls  A Dedicated controls  A Dedicated controls  A Stable flight  A Stable flight  A Dive forward on to 30°  A Stable flight  A Dive forward on to 30°  A Dive forward on | Cascade occurs   | No   | Α | No   | Α |
| 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 A Dive forward 0° to 30° A Dedicated controls A Dedicated controls A Dedicated controls A Dive forward 10° to 30° A Dedicated controls A Dedicated controls A Dive forward 0° to 30° A Dive forward 0° to 30° A Dedicated controls A Dive forward 0° to 30° A D |  |  |   | 0  |   |
| Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward 0° to 30° A No A Cascade occurs No A No A No A No A Spontaneous in less than 3 s A Dedicated controls A Dedicated controls A Dedicated controls A Dedicated controls A Stable flight A Stable flight A Stable flight A Dive forward 0° to 30° | Change of course before release  | Changing course less than 45°                  | Α | Changing course less than 45°                  | Α |
| Dive forward angle on exit  Dive forward 0° to 30°  A Dive forward 0° to 30°  A No  A No  A No  20. Big ears  A Entry procedure  Dedicated controls  A Dive forward 0° to 30°  A Dedicated controls  A Dive forward 0° to 30°  A Dedicated controls  A Dedicat | Behaviour before release   | Remains stable with straight span              | Α | Remains stable with straight span              | Α |
| Cascade occurs  No  No  A  No  A  No  A  No  A  No  A  No  A  A  20. Big ears  Entry procedure  Dedicated controls  A  Dedicated controls  A  Dedicated controls  A  Dedicated controls  A  Stable flight  A  Stable flight  A  Dive forward angle on exit  Dive forward 0° to 30°  Dedicated controls  A  Dive forward 0° to 30°  A  Dedicated controls  A  Stable flight  A  Dive forward 0° to 30°  A  Dive forward | Recovery   | Spontaneous in less than 3 s                   | Α | Spontaneous in less than 3 s                   | Α |
| 20. Big ears Entry procedure Dedicated controls A Dedicated controls A Stable flight A Dive forward unique on exit Dive forward on to 30° A Dedicated controls A Dedicated controls A Stable flight A Dive forward on to 30° A Dive forward on to 3 | Dive forward angle on exit   | Dive forward 0° to 30°                         | Α | Dive forward 0° to 30°                         | Α |
| Entry procedure  Dedicated controls  A Dedicated controls  A Stable flight  A Dive forward on to 30°  A Dive forward 0° to 30°  A Dive forward 0° to 30°  A Dedicated controls  A Dedicated controls | Cascade occurs   | No   | Α | No   | Α |
| Behaviour during big ears  Stable flight A Stable flight A Stable flight A Spontaneous in less than 3 s A Dive forward 0° to 30° A Dedicated controls A Dive forward 0° to 30° A Dive forward 0° to  | _  |  |   |  |   |
| Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward 0° to 30° A Dedicated controls A Dedicated controls A Dedicated controls A Stable flight A Dive forward 0° to 30° A Dive fo | Entry procedure  | Dedicated controls                             | Α | Dedicated controls                             | Α |
| Dive forward angle on exit  Dive forward 0° to 30°  A Dive forward 0° to 30°  A Dive forward 0° to 30°  A Dedicated controls  A Stable flight  A Stable flight  A Stable flight  A Dive forward angle on exit  Dive forward 0° to 30°  A | Behaviour during big ears  | Stable flight                                  | Α | Stable flight                                  | Α |
| 21. Big ears in accelerated flight Entry procedure Dedicated controls A Stable flight A Stable flight A Spontaneous in less than 3 s A Dive forward angle on exit Dive forward 0° to 30° A Dive forward or to 30° A Dive forward 0° to 30° A Stable flight A Dive forward 0° to 30° A Dive fo | Recovery   | Spontaneous in less than 3 s                   | Α | Spontaneous in less than 3 s                   | Α |
| Entry procedure  Dedicated controls A Dedicated controls A Stable flight A Sta | Dive forward angle on exit   | Dive forward 0° to 30°                         | Α | Dive forward 0° to 30°                         | Α |
| Behaviour during big ears  Stable flight  A Spontaneous in less than 3 s  A Spontaneous in less than 3 s  A Spontaneous in less than 3 s  A Dive forward on to 30 s  A Stable flight  A Pres  A Pres  A Pres  A Pres  A Pres  A Pres  A No A not available  O not available  |  |  |   |  |   |
| Recovery  Spontaneous in less than 3 s  A Spontaneous in less than 3 s  A Dive forward 0° to 30°  A Stable flight  | Entry procedure  | Dedicated controls                             | Α | Dedicated controls                             | Α |
| Dive forward angle on exit  Dive forward 0° to 30°  A Dive forward 0° to 30°  A Dive forward 0° to 30°  A Behaviour immediately after releasing the accelerator while maintaining big ears  22. Alternative means of directional control  180° turn achievable in 20 s  Yes  A Yes  A Stable flight  A Stable flight  A Stable flight  A Stable flight  A Pres  A Pres  A Pres  A Pres  A Pres  Procedure works as described  A not available  D not available  | Behaviour during big ears  | Stable flight                                  | Α | Stable flight                                  | Α |
| Behaviour immediately after releasing the accelerator while maintaining big ears  22. Alternative means of directional control 180° turn achievable in 20 s  No A  Stall or spin occurs  No A  180° turn achievable in 20 s  No A  The stable flight  A  Yes A  A  Stable flight  A  Yes A  Procedure and/or configuration described in the user's manual  Procedure works as described  Not available  Not available  O  O  O  O  O  O  O  O  O  O  O  O  O   | Recovery   | Spontaneous in less than 3 s                   | Α | Spontaneous in less than 3 s                   | Α |
| while maintaining big ears  22. Alternative means of directional control A  180° turn achievable in 20 s Yes A  Stall or spin occurs No A  not available  0  23. Any other flight procedure and/or configuration described in the user's manual Procedure works as described  not available 0   | Dive forward angle on exit   | Dive forward 0° to 30°                         | Α | Dive forward 0° to 30°                         | Α |
| 180° turn achievable in 20 s  Yes  A Yes  A Stall or spin occurs  No  No  A not available  0  23. Any other flight procedure and/or configuration described in the user's manual  Procedure works as described  not available  0 not available  0 not available  0 not available  0  |  | Stable flight                                  | Α | Stable flight                                  | Α |
| Stall or spin occurs  No A not available  0  23. Any other flight procedure and/or configuration described in the user's manual  Procedure works as described  not available  0 not available  0 not available  0 not available  0   |  |  | ^ | Voc  | ٨ |
| 23. Any other flight procedure and/or configuration described in the user's manual  Procedure works as described not available 0 not available 0 not available 0  Procedure suitable for novice pilots not available 0 not available 0   | 180° turn achievable in 20 s   | । एउ   | А | 169  | А |
| configuration 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  O not available 0  | Stall or spin occurs   | No   | Α | not available                                  | 0 |
| Procedure suitable for novice pilots not available 0 not available 0   | 23. Any other flight procedure and/or configuration described in the user's manual | 0  |   |  |   |
| Trecount culture for horse pilote  | Procedure works as described   | not available                                  | 0 | not available                                  | 0 |
| Cascade occurs 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 |