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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Flight test report: EN 926-2:2013 & LTF 91/09

| • | | | | | |
|--|--------------------------------|--|----|--|--------|
| Manufacturer Ozone Gliders | | Certification number | F | PG_1725.2020 | |
| Address 2, Queens Drive LA46LN . UK | | Flight test | 2 | 8.05.2020 | |
| Glider model | Alpina 4 S | Classification | C |) | |
| Serial number | PR2-V-11A-058 | Representative | | lone | |
| | | • | | | |
| Trimmer | no | Place of test | ٧ | /illeneuve | |
| Folding lines used | no | | | | |
| Test pilot | | Philippe Dupont | C | Claude Thurnheer | |
| Harness | | Supair - Altiplume S | Δ | Advance - Success 4 M | |
| | | 44 | | 44 | |
| Harness to risers distance (cm) | | | - | | |
| Distance between risers (cm) | | 0 | - | 44 | |
| Total weight in fligh | it (kg) | 65 | 8 | 85 | |
| 1. Inflation/Take-off | | В | | | |
| Rising behaviour | | Easy rising, some pilot correction is | В | Easy rising, some pilot correction is | В |
| | | required | | required | |
| Special take off technique | required | No | Α | No | Α |
| 2. Landing | | A | | | |
| Special landing technique | | No | Α | No | Α |
| 3. Speed in straight fligh | | B | ^ | Van | _ |
| Trim speed more than 30 km/h | | Yes | A | Yes | A |
| Speed range using the controls larger than 10 km/h | | Yes | A | Yes | A B |
| Minimum speed 4. Control movement | | Less than 25 km/h A | Α | 25 km/h to 30 km/h | В |
| | o 90 kg | A | | | |
| Max. weight in flight up to 80 kg Symmetric control pressure / travel | | Increasing / greater than 55 cm | Α | not available | 0 |
| Max. weight in flight 80 kg to 100 kg | | moreasing / greater than so sin | ,, | not available | Ü |
| Symmetric control pressure / travel | | not available | 0 | Increasing / greater than 60 cm | Α |
| Max. weight in flight greater than 100 kg | | not available | Ü | moreasing / greater than 50 cm | ,, |
| Symmetric control pressure / travel | | not available | 0 | not available | 0 |
| 5. Pitch stability exiting a | | A | | | |
| Dive forward angle on exit | | Dive forward less than 30° | Α | Dive forward less than 30° | Α |
| Collapse occurs | | No | Α | No | Α |
| 6. Pitch stability operatir flight | ng controls during accelerated | Α | | | |
| Collapse occurs | | No | Α | No | Α |
| 7. Roll stability and dam | ping | A | | | |
| Oscillations | | Reducing | Α | Reducing | Α |
| 8. Stability in gentle spira | als | Α | | | |
| Tendency to return to straight flight | | Spontaneous exit | Α | Spontaneous exit | Α |
| 9. Behaviour exiting a fu | lly developed spiral dive | Α | | | |
| Initial response of glider (fi | irst 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 norm | nal flight | Less than 720°, spontaneous recovery | Α | Less than 720°, spontaneous recovery | Α |
| 10. Symmetric front colla | apse | С | | | |
| Approximately 30 % cho | rd | | | | |
| Entry | | Rocking back less than 45° | Α | Rocking back less than 45° | Α |

| Recovery | Spontaneous in less than 3 s | Α | 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° Keeping course | Α |
| Cascade occurs | No | Α | No | Α |
| Folding lines used | No | | No | |
| At least 50% chord | | | | |
| Entry | Rocking back less than 45° | Α | Rocking back less than 45° | Α |
| Recovery | Spontaneous in less than 3 s | Α | 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° / Keeping course | A |
| Cascade occurs | No | Α | No | Α |
| Folding lines used | No | | No | |
| With accelerator | | | | |
| Entry | Rocking back greater than 45° | С | 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 | | No | |
| 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 | |
| | No | Α | NO | Α |
| 12. High angle of attack recovery | A | | On antonio sura in lange than O. a. | |
| Recovery | Spontaneous in less than 3 s | A | Spontaneous in less than 3 s | A |
| Cascade occurs | No | Α | No | Α |
| 13. Recovery from a developed full stall | A | | | |
| Dive forward angle on exit | 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 | С | | | |
| 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 | | No | |
| Large asymmetric collapse | | | | |
| 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 |
| Folding lines used | | | No | |
| Small asymmetric collapse with fully activated accelerator | No | | 140 | |
| • | No | | 110 | |
| 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 |

| 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 | | No | |
| 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 | 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 | Yes, no turn reversal | С |
| Twist occurs | No | Α | No | Α |
| Cascade occurs | No | Α | No | Α |
| Folding lines used | No | | No | |
| 15. Directional control with a maintained asymmetric | Α | | | |
| collapse | | | | |
| 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 | B | _ | Otana and involve to 00% to 400% | _ |
| Spin rotation angle after release | Stops spinning in 90° to 180° | В | Stops spinning in 90° to 180° | В |
| Cascade occurs | No C | Α | No | Α |
| 19. B-line stall | | ۸ | Changing course mare than 45° | <u> </u> |
| Change of course before release Behaviour before release | Changing course less than 45° Remains stable without straight span | A C | Changing course more than 45° Remains stable without straight span | C |
| 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 |
| Cascade occurs | No | Α | | Α |
| 20. Big ears | A | ,, | | , , |
| Entry procedure | Dedicated controls | Α | Dedicated controls | 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 |
| 21. Big ears in accelerated flight | В | | | |
| Entry procedure | Dedicated controls | Α | Dedicated controls | Α |
| Behaviour during big ears | Stable flight | Α | Stable flight | Α |
| Recovery | Recovery through pilot action in less than a further 3 s | В | Spontaneous in 3 s to 5 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 | A | | | |
| 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 | 0 | | | |
| Procedure works as described | 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 |
| | | | | |

