AIR TURQUOISE SA | PARA-TEST.COM

Route du Pré-au-Comte 8 🔺 CH-1844 Villeneuve 🔺 +41 (0)21 965 65 65

Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



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

| | ADVANCE Thun AG | Certification number | F | PG 1344.2018 | |
|---|---------------------------------|--|---|--|--------|
| Address Uttigenstrasse 87 3600 Thun Switzerland | | Flight test | | | |
| Glider model | (i 29 | Classification | E | 3 | |
| Serial number 7 | 75938 | Representative | Ν | lone | |
| | 10 | Place of test | | /illeneuve | |
| | 10 | r lace or test | • | meneave | |
| J | | | | | |
| Test pilot | | Claude Thurnheer | A | Anselm Rauh | |
| Harness | | Icaro - Access M | A | Ava Sport - Acro 1 L | |
| Harness to risers dista | Harness to risers distance (cm) | | 4 | 3 | |
| Distance between risers (cm) | | 46 | 4 | 8 | |
| Total weight in flight (kg) | | 105 | | 28 | |
| | 9/ | . • • | | | |
| 1. Inflation/Take-off | | A | | Consolly and the second | |
| Rising behaviour | | Smooth, easy and constant rising | A | , , | A |
| Special take off technique rec | quired | No | Α | No | Α |
| 2. Landing | | A | ^ | N- | ^ |
| Special landing technique rec | quired | No | Α | No | Α |
| 3. Speed in straight flight | دار | B Yes | ۸ | Vaa | ۸ |
| | Trim speed more than 30 km/h | | A | Yes | A |
| Speed range using the controls larger than 10 km/h | | Yes 25 km/h to 30 km/h | A | Yes | A B |
| Minimum speed 4. Control movement | | 25 KHI/H (O 30 KHI/H | В | 25 km/h to 30 km/h | Б |
| | ln ka | ^ | | | |
| Max. weight in flight up to 80 kg Symmetric control pressure / travel | | not available | 0 | not available | 0 |
| Max. weight in flight 80 kg to 100 kg | | not available | U | not available | Ü |
| Symmetric control pressure / travel | | not available | 0 | not available | 0 |
| Max. weight in flight greater than 100 kg | | not available | Ŭ | not available | Ů |
| Symmetric control pressure / travel | | Increasing / greater than 65 cm | Α | Increasing / greater than 65 cm | Α |
| 5. Pitch stability exiting acc | | A | | The second of th | |
| 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 operating of flight | controls during accelerated | Α | | | |
| Collapse occurs | | No | Α | No | Α |
| 7. Roll stability and damping | | Α | | | |
| Oscillations | | Reducing | Α | Reducing | Α |
| 8. Stability in gentle spirals | | 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 | | Α |
| 10. Symmetric front collaps | e | В | | | |
| Approximately 30 % chord | | | | | |
| Approximately 30 % chord | | | | | |
| Entry | | Rocking back less than 45° | Α | Rocking back less than 45° | 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 | |
| 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 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 | |
| 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 30° to 60° / Keeping course | В |
| Cascade occurs | No | Α | No | Α |
| Folding lines used | No | | No | |
| 11. Exiting deep stall (parachutal stall) | В | | | |
| 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 30° to 60° | В | Dive forward 30° to 60° | В |
| 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 | | | |
| 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 | В | | | |
| Dive forward angle on exit | Dive forward 0° to 30° | Α | Dive forward 30° to 60° | В |
| 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 | | 3 | |
| 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 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 | | 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 | 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 | | No | |
| 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 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 with fully activated accelerator | r | | | |
| 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° | 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 | |
| 15. Directional control with a maintained asymmetric collapse | Α | | | |
| 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 | Α | | | |
| Spin occurs | No | Α | No | Α |
| 17. Low speed spin tendency | Α | | | |
| Spin occurs | No | Α | No | Α |
| 18. Recovery from a developed spin | В | | | |
| Spin rotation angle after release | Stops spinning in 90° to 180° | В | Stops spinning in 90° to 180° | В |
| Cascade occurs | No | Α | No | Α |
| 19. B-line stall | A | | | |
| Change of course before release | Changing course less than 45° | Α | Changing course less than 45° | Α |
| Behaviour before release | Remains stable with straight span | Α | Remains stable with straight span | 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 |
| Cascade occurs | No | Α | No | 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 | 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° | A |
| 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 | 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 |
| 04 Commonts of test pilot | | | | |

24. Comments of test pilot