

Flight test report: EN 926-2:2013

| Manufacturer AddressUP International GmbH Regreschahnetr, 7 82467 Garmischap AdfressCertification numberPG_0912.2015AddressKreuzeckbahnetr, 7 82467 Garmischar GermanyDate of flight test16. 12. 2015Glider modelSummit XC3 XSClassificationBSerial numberXC17XS-3-1-149-4354RepresentativeNoneTrimmernoPlace of testVilleneuveTost pilotrepresentativeSup' Air - Altplume MHarnessFlugsau - XX-LiteSup' Air - Altplume MHarness to risers distance (cm)4043Distance between risers (cm)4044Total weight in flight (kg)60791. InflationTake-offASmooth, easy and constant rising ANo2. LandingANoA2. Japedia take off technique requiredNoANo3. Speed in taring fil flightBUses tan 25 km/hA2. Speed in taring the control streprism 10 km/hYesANo3. Speed ring using the control streprism 10 km/hYesAIncreasing / greater than 55 cmAMax. weight in flight up to 80 kgIncreasing / greater than 55 cmAIncreasing / greater than 55 cmAMax. weight in flight up to 80 kgIncreasing / greater than 55 cmAIncreasing / greater than 55 cmAMax. weight in flight up to 80 kgIncreasing / greater than 55 cmAIncreasing / greater than 55 cmAMax. weight in flight up to 80 kgIncreasing / gre | i light tost i cj | JOIL. EN 520-2.2010 | | | | |
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| Tendency to return to straight flightSpontaneous exitASpontaneous exitA9. Behaviour exiting a fully developed spiral diveAInitial response of glider (first 180°)Immediate reduction of rate of turnAImmediate reduction of rate of turnATendency to return to straight flightSpontaneous exit (g force decreasing, rate of turn decreasing)ASpontaneous exit (g force decreasing, rate of turn decreasing)ATurn angle to recover normal flightLess than 720°, spontaneousALess than 720°, spontaneousA | 8. Stability in gentle spi | irals | • | | | |
| Initial response of glider (first 180°)Immediate reduction of rate of turnAImmediate reduction of rate of turnATendency to return to straight flightSpontaneous exit (g force decreasing, rate of turn decreasing)ASpontaneous exit (g force decreasing, rate of turn decreasing)ASpontaneous exit (g force decreasing, rate of turn decreasing)ATurn angle to recover normal flightLess than 720°, spontaneousALess than 720°, spontaneousA | | | Spontaneous exit | А | Spontaneous exit | А |
| turnTendency to return to straight flightSpontaneous exit (g force decreasing, rate of turn decreasing)ASpontaneous exit (g force decreasing, rate of turn decreasing)ATurn angle to recover normal flightLess than 720°, spontaneousALess than 720°, spontaneousA | 9. Behaviour exiting a f | ully developed spiral dive | Α | | | |
| decreasing, rate of turn decreasing) decreasing, rate of turn decreasing) decreasing, rate of turn decreasing) Turn angle to recover normal flight Less than 720°, spontaneous A Less than 720°, spontaneous A | Initial response of glider | (first 180°) | | A | Immediate reduction of rate of turn | А |
| Turn angle to recover normal flight Less than 720°, spontaneous A Less than 720°, spontaneous A | Tendency to return to str | aight flight | Spontaneous exit (g force decreasing, rate of turn | A | | A |
| | Turn angle to recover no | rmal flight | • | A | • | А |

10. Symmetric front collapse

в

| Approximately 30 % chord | | | | |
|--|---|---|---|---|
| Entry | Rocking back less than 45° | А | Rocking back less than 45° | А |
| Recovery | Spontaneous in 3 s to 5 s | в | Spontaneous in less than 3 s | А |
| Dive forward angle on exit Change of course | Dive forward 0° to 30° Keeping course | А | Dive forward 30° to 60° Keeping course | В |
| Cascade occurs | No | А | No | А |
| Folding lines used | No | A | No | A |
| r olding intes used | NO | ~ | NO | ~ |
| At least 50% chord | | | | |
| Entry | Rocking back less than 45° | А | Rocking back less than 45° | А |
| Recovery | Spontaneous in less than 3 s | А | Spontaneous in 3 s to 5 s | В |
| 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 | А | No | А |
| Folding lines used | No | А | No | А |
| With accelerator | | | | |
| Entry | Rocking back less than 45° | А | Rocking back less than 45° | А |
| Recovery | Spontaneous in 3 s to 5 s | В | Spontaneous in 3 s to 5 s | В |
| Dive forward angle on exit / Change of course | Dive forward 0° to 30° / Keeping | A | Dive forward 0° to 30° / Keeping | A |
| Dive forward angle on exit / Change of Course | course | ~ | course | ~ |
| Cascade occurs | No | А | No | А |
| Folding lines used | No | А | No | А |
| 11. Exiting deep stall (parachutal stall) | Α | | | |
| Deep stall achieved | Yes | А | Yes | А |
| Recovery | Spontaneous in less than 3 s | А | Spontaneous in less than 3 s | А |
| Dive forward angle on exit | Dive forward 0° to 30° | А | Dive forward 0° to 30° | А |
| Change of course | Changing course less than 45° | А | Changing course less than 45° | А |
| Cascade occurs | No | Α | No | А |
| 12. High angle of attack recovery | Α | | | |
| Recovery | Spontaneous in less than 3 s | Α | Spontaneous in less than 3 s | A |
| Cascade occurs | No | A | No | A |
| 13. Recovery from a developed full stall | Α | _ | | |
| Dive forward angle on exit | Dive forward 0° to 30° | Α | Dive forward 0° to 30° | A |
| 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° | A |
| Line tension | Most lines tight | Α | Most lines tight | A |
| 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° $$ | A | Less than 90° / Dive or roll angle 15° to 45° | A |
| Re-inflation behaviour | Spontaneous re-inflation | А | Spontaneous re-inflation | А |
| Total change of course | Less than 360° | А | Less than 360° | А |
| 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 | А | No | А |
| Cascade occurs | No | A | No | A |
| Folding lines used | No | A | No | A |
| Larga asymmetric colleges | | | | |
| Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or | 90° to 180° / Dive or roll angle | В | 90° to 180° / Dive or roll angle 15° | в |
| roll angle | 15° to 45° | - | to 45° | |
| Re-inflation behaviour | Spontaneous re-inflation | А | Spontaneous re-inflation | А |
| Total change of course | Less than 360° | A | Less than 360° | Α |
| | | | | |

| 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 | А | No | А |
| Cascade occurs | No | A | No | A |
| Folding lines used | No | A | No | A |
| i olding lines used | NO | 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° $$ | A | Less than 90° / Dive or roll angle 15° to 45° | A |
| Re-inflation behaviour | Spontaneous re-inflation | А | Spontaneous re-inflation | А |
| Total change of course | Less than 360° | А | Less than 360° | А |
| 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 | А | No | А |
| Cascade occurs | No | А | No | А |
| Folding lines used | No | А | No | А |
| | | | | |
| 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 | А | Spontaneous re-inflation | А |
| Total change of course | Less than 360° | А | Less than 360° | А |
| 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 | А | No | А |
| Cascade occurs | No | А | No | А |
| Folding lines used | No | А | No | А |
| 15. Directional control with a maintained asymmetric | A | | | |
| collapse | | | | |
| Able to keep course | Yes | А | Yes | А |
| 180° turn away from the collapsed side possible in 10 s | Yes | А | Yes | А |
| Amount of control range between turn and stall or spin | More than 50 % of the | А | More than 50 % of the symmetric | А |
| | symmetric control travel | | control travel | |
| 16. Trim speed spin tendency | Α | | | |
| Spin occurs | No | A | No | A |
| 17. Low speed spin tendency | Α | | | |
| Spin occurs | No | А | No | А |
| 18. Recovery from a developed spin | Α | | | |
| Spin rotation angle after release | Stops spinning in less than 90° | А | Stops spinning in less than 90° | А |
| Cascade occurs | No | А | No | А |
| 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 | А |
| Recovery | Spontaneous in less than 3 s | А | Spontaneous in less than 3 s | А |
| Dive forward angle on exit | Dive forward 0° to 30° | А | Dive forward 0° to 30° | А |
| Cascade occurs | No | А | No | А |
| 20. Big ears | B | | | |
| Entry procedure | Dedicated controls | А | Dedicated controls | А |
| Behaviour during big ears | Stable flight | A | Stable flight | A |
| | e e e e e e e e e e e e e e e e e e e | В | - | В |
| Recovery | Recovery through pilot action in less than a further 3 s | D | Spontaneous in 3 s to 5 s | D |
| Dive forward angle on exit | Dive forward 0° to 30° | А | Dive forward 0° to 30° | А |
| 21. Big ears in accelerated flight | В | | | |
| Entry procedure | Dedicated controls | А | Dedicated controls | А |
| Behaviour during big ears | Stable flight | А | Stable flight | А |
| Recovery | Recovery through pilot action in | В | Spontaneous in 3 s to 5 s | А |
| | less than a further 3 s | | | |
| | | | | |

| Dive forward angle on exit | Dive forward 0° to 30° | A Dive forward 0° to 30° A | |
|--|------------------------|----------------------------|---|
| Behaviour immediately after releasing the accelerator while maintaining big ears | Stable flight | A Stable flight A | L |
| 22. Alternative means of directional control | Α | | |
| 180° turn achievable in 20 s | Yes | A Yes A | |
| Stall or spin occurs | No | A No A | |
| 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 | |
| | | | |

24. Comments of test pilot

Comments