AIR TURQUOISE SA | PARA-TEST.COM

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Flight test report: EN 926-2:2013+A1:2021*

| Manufacturer | Swing Flugsportgeräte GmbH | Certification number | F | PG_2185.2023 | |
|--|---|---|---|----------------------------------|---|
| Address | An der Leiten 4 82290 Landsberied Germany | Flight test | 1 | 3.04.2023 | |
| Glider model | LIBRA RS XS | Classification | C | | |
| Serial number | 99407 | Representative | | lone | |
| | | | | | |
| | no | Place of test | v | /illeneuve | |
| Folding lines used | yes | | | | |
| Test pilot | | Philippe Dupont | C | Claude Thurnheer | |
| Harness | | Woody Valley - Wani Light 2 S | Woody Valley - Wani Light 2 N | | |
| Harness to risers di | stance (cm) | 41 | 43 | | |
| Distance between risers (cm) | | 40 | 44 | | |
| Total weight in fligh | | 65 | | 0 | |
| | n (ny) | 00 | 0 | | |
| 1. Inflation/Take-off | | С | | | |
| Rising behaviour | | Overshoots, shall be slowed down | С | Overshoots, shall be slowed down | С |
| - | | to avoid a front collapse | | to avoid a front collapse | |
| Special take off technique | required | No | А | No | A |
| 2. Landing | | Α | | | |
| Special landing technique required | | No | Α | No | A |
| 3. Speed in straight fligh | | В | | | |
| Trim speed more than 30 km/h | | Yes | Α | Yes | A |
| Speed range using the controls larger than 10 km/h | | Yes | A | Yes | A |
| Minimum speed | | 25 km/h to 30 km/h | В | 25 km/h to 30 km/h | В |
| 4. Control movement | | C | | | |
| Max. weight in flight up f | | | _ | | _ |
| Symmetric control pressure / travel | | Increasing / 40 cm to 55 cm | С | Increasing / 40 cm to 55 cm | С |
| Max. weight in flight 80 k | | | | | |
| Symmetric control pressur | | not available | 0 | not available | 0 |
| Max. weight in flight grea | | | | | |
| Symmetric control pressur | | not available | 0 | not available | 0 |
| 5. Pitch stability exiting | • | A | | | |
| Dive forward angle on exit | | Dive forward less than 30° | A | Dive forward less than 30° | A |
| Collapse occurs | | No | А | No | A |
| flight | ng controls during accelerated | Α | | | |
| Collapse occurs | | No | А | No | А |
| 7. Roll stability and dam | ping | Α | | | |
| Oscillations | | Reducing | А | Reducing | А |
| 8. Stability in gentle spir | als | Α | | | |
| Tendency to return to stra | ight flight | Spontaneous exit | А | Spontaneous exit | А |
| 9. Behaviour exiting a fu | lly developed spiral dive | В | | | |
| Initial response of glider (first 180°) | | Immediate reduction of rate of turn | А | No immediate reaction | В |
| Tendency to return to stra | ight flight | Spontaneous exit (g force | A Spontaneous exit (g force | | A |
| Turn angle to recover normal flight | | decreasing, rate of turn decreasing) Less than 720°, spontaneous | decreasing, rate of turn decreasin A 720° to 1 080°, spontaneous | | В |
| rum angle to recover non | | | | | |

*This standard is NOT covered by accreditation D-IS-19457-01 Test Report generated automatically by AIR TURQUOISE SA, valid without signature Rev 07 | 04.03.2022 // ISO | 91.22 // Page 1 of 4

| Approximately 30 % chord | | | | |
|--|---|---|---|---|
| Entry | Rocking back less than 45° | А | Rocking back less than 45° | А |
| 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 | A | Dive forward 0° to 30° Keeping | A |
| | course | | course | |
| Cascade occurs | No | А | No | А |
| Folding lines used | Yes | С | Yes | С |
| 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 less than 3 s | А |
| 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 | Yes | С | Yes | С |
| With accelerator | | | | |
| Entry | Rocking back greater than 45° | С | Rocking back greater than 45° | С |
| 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° / Entering a turn of less than 90° | A | Dive forward 0° to 30° / Keeping course | A |
| Cascade occurs | No | А | No | А |
| Folding lines used | Yes | С | Yes | С |
| 11. Exiting deep stall (parachutal stall) | Α | | | |
| Deep stall achieved | No | А | No | А |
| Recovery | not available | 0 | not available | 0 |
| Dive forward angle on exit | not available | 0 | not available | 0 |
| Change of course | not available | 0 | not available | 0 |
| Cascade occurs | not available | 0 | not available | 0 |
| 12. High angle of attack recovery | Α | | | |
| Recovery | Spontaneous in less than 3 s | А | Spontaneous in less than 3 s | А |
| Cascade occurs | No | А | No | А |
| 13. Recovery from a developed full stall | С | | | |
| Dive forward angle on exit | Dive forward 0° to 30° | А | Dive forward 0° to 30° | А |
| Collapse | No collapse | А | No collapse | А |
| Cascade occurs (other than collapses) | No | А | No | А |
| Rocking back | Less than 45° | А | Greater than 45° | С |
| Line tension | Most lines tight | А | Most lines tight | А |
| 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° | 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 | Yes | С | Yes | С |
| 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 45° to 60° | С |
| 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 | Yes, no turn reversal | С | 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 | Yes | С | Yes | С |
| Small asymmetric collapse with fully activated accelerator | | | | |

| Change of course until re-inflation / Maximum dive forward or | 90° to 180° / Dive or roll angle | В | Less than 90° / Dive or roll angle | А |
|---|---|--|--|--|
| roll angle | 15° to 45° | | 15° to 45° | |
| Re-inflation behaviour | Spontaneous re-inflation | A | Spontaneous re-inflation | A |
| Total change of course | Less than 360° | А | 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 | А | No | А |
| Cascade occurs | No | А | No | А |
| Folding lines used | Yes | С | Yes | С |
| 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 45° to 60° | С |
| Re-inflation behaviour | Spontaneous re-inflation | Α | Spontaneous re-inflation | А |
| Total change of course | Less than 360° | Α | Less than 360° | А |
| Collapse on the opposite side occurs | Yes, no turn reversal | С | 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 | Yes | С | Yes | С |
| 15. Directional control with a maintained asymmetric | Α | | | |
| collapse | N N | | ×. | |
| 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 | A | More than 50 % of the symmetric control travel | A |
| 16. Trim speed spin tendency | A | | | |
| Spin occurs | No | A | No | A |
| 17. Low speed spin tendency | A | ^ | Nie | ^ |
| Spin occurs | No | A | No | А |
| 10. Deservent from a developed onin | P | | | |
| 18. Recovery from a developed spin | B Stopp onigning in 00° to 180° | Б | Stone onigning in 00° to 100° | Р |
| Spin rotation angle after release | Stops spinning in 90° to 180° | B | Stops spinning in 90° to 180° | B |
| Spin rotation angle after release Cascade occurs | Stops spinning in 90° to 180° No | B A | Stops spinning in 90° to 180° No | B A |
| Spin rotation angle after release Cascade occurs 19. B-line stall | Stops spinning in 90° to 180° No 0 | A | No | A |
| Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release | Stops spinning in 90° to 180° No 0 not available | A 0 | No not available | A 0 |
| Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release | Stops spinning in 90° to 180° No 0 not available not available | A 0 0 | No not available not available | A 0 0 |
| Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery | Stops spinning in 90° to 180° No 0 not available not available not available | A 0 0 | No not available not available not available | A 0 0 |
| Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit | Stops spinning in 90° to 180° No 0 not available not available not available not available | A 0 0 0 | No not available not available not available not available | A 0 0 0 0 |
| Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs | Stops spinning in 90° to 180° No 0 not available not available not available not available not available | A 0 0 | No not available not available not available | A 0 0 |
| Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit | Stops spinning in 90° to 180° No 0 not available not available not available not available | A 0 0 0 | No not available not available not available not available | A 0 0 0 0 |
| Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears | Stops spinning in 90° to 180° No 0 not available not available not available not available not available C No dedicated controls and non- | A 0 0 0 0 | No not available not available not available not available not available No dedicated controls and non- | A 0 0 0 0 |
| Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears Entry procedure | Stops spinning in 90° to 180° No 0 not available not available not available not available not available C No dedicated controls and non- standard technique | A 0 0 0 0 0 0 0 0 | No not available not available not available not available not available not available No dedicated controls and non- standard technique | A 0 0 0 0 0 0 0 |
| Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears Entry procedure Behaviour during big ears | Stops spinning in 90° to 180° No 0 not available not available not available not available not available C No dedicated controls and non- standard technique Stable flight | A 0 0 0 0 0 0 0 0 | No not available not available not available not available not available not available No dedicated controls and non- standard technique Stable flight | A 0 0 0 0 0 0 0 0 0 |
| Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears Entry procedure Behaviour during big ears Recovery | Stops spinning in 90° to 180° No 0 not available not available not available not available not available C No dedicated controls and non- standard technique Stable flight Spontaneous in less than 3 s | A 0 0 0 0 0 0 0 0 0 0 | No not available not available not available not available not available not available No dedicated controls and non- standard technique Stable flight Spontaneous in less than 3 s | A 0 0 0 0 0 0 0 0 0 0 0 |
| Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit | Stops spinning in 90° to 180° No 0 not available not available not available not available not available C No dedicated controls and non- standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° | A 0 0 0 0 0 0 0 0 0 0 | No not available not available not available not available not available not available No dedicated controls and non- standard technique Stable flight Spontaneous in less than 3 s | A 0 0 0 0 0 0 0 0 0 0 0 |
| Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight | Stops spinning in 90° to 180° No 0 not available not available not available not available not available C No dedicated controls and non- standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° C No dedicated controls and non- | A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | No not available not available not available not available not available not available No dedicated controls and non- standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° No dedicated controls and non- | A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure | Stops spinning in 90° to 180° No 0 not available not available not available not available not available C No dedicated controls and non- standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° C No dedicated controls and non- standard technique | A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | No not available not available not available not available not available not available No dedicated controls and non- standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° No dedicated controls and non- standard technique | A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears | Stops spinning in 90° to 180° No 0 not available not available not available not available not available C No dedicated controls and non- standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° C No dedicated controls and non- standard technique Stable flight Spontaneous in less than 3 s | A O O O O O O O O O O O O O O O O O O O | No not available No dedicated controls and non- standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° No dedicated controls and non- standard technique Stable flight | A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
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| Spin rotation angle after releaseCascade occurs19. B-line stallChange of course before releaseBehaviour before releaseRecoveryDive forward angle on exitCascade occurs20. Big earsEntry procedureBehaviour during big earsRecoveryDive forward angle on exit21. Big ears in accelerated flightEntry procedureBehaviour during big earsRecoveryDive forward angle on exit21. Big ears in accelerated flightEntry procedureBehaviour during big earsRecoveryDive forward angle on exit24. Alternative means of directional control | Stops spinning in 90° to 180° No 0 not available not available not available not available not available C No dedicated controls and non- standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° C No dedicated controls and non- standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° C | A O O O O O O O O O O O O O O O O O O O | No not available No dedicated controls and non- standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° No dedicated controls and non- standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight | A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
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| Spin rotation angle after releaseCascade occurs19. B-line stallChange of course before releaseBehaviour before releaseRecoveryDive forward angle on exitCascade occurs20. Big earsEntry procedureBehaviour during big earsRecoveryDive forward angle on exit21. Big ears in accelerated flightEntry procedureBehaviour during big earsRecoveryDive forward angle on exit21. Big ears in accelerated flightEntry procedureBehaviour during big earsRecoveryDive forward angle on exit21. Big ears in accelerated flightEntry procedureBehaviour during big earsRecoveryDive forward angle on exitBehaviour during big earsRecoveryDive forward angle on exitBehaviour immediately after releasing the accelerator while maintaining big ears22. Alternative means of directional control180° turn achievable in 20 s Stall or spin occurs | Stops spinning in 90° to 180° No 0 not available not available not available not available not available C No dedicated controls and non- standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° C No dedicated controls and non- standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° C No dedicated controls and non- standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight | A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | No not available No dedicated controls and non- standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° No dedicated controls and non- standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight | A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| Spin rotation angle after releaseCascade occurs19. B-line stallChange of course before releaseBehaviour before releaseRecoveryDive forward angle on exitCascade occurs20. Big earsEntry procedureBehaviour during big earsRecoveryDive forward angle on exit21. Big ears in accelerated flightEntry procedureBehaviour during big earsRecoveryDive forward angle on exit21. Big ears in accelerated flightEntry procedureBehaviour during big earsRecoveryDive forward angle on exit21. Big ears in accelerated flightEntry procedureBehaviour during big earsRecoveryDive forward angle on exitBehaviour during big earsRecoveryDive forward angle on exitBehaviour immediately after releasing the accelerator while maintaining big ears22. Alternative means of directional control180° turn achievable in 20 sStall or spin occurs23. Any other flight procedure and/or configuration described in the user's manual | Stops spinning in 90° to 180° No 0 not available not available not available not available not available C No dedicated controls and non- standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° C No dedicated controls and non- standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight | A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | No not available No dedicated controls and non- standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° No dedicated controls and non- standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight Yes No | A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |

| Cascade occurs | No | A No | А |
|----------------------------|----|------|---|
| 24. Comments of test pilot | | | |

Big ears with breaks in the hands.

Special technique for big ears man?uvres