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test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

Tendency to return to straight flight



Flight test report: EN 926-2:2013+A1:2021* and NfL 2-565-20

| Manufacturer Supair s.a.s. Address Parc Altais / 34 rue Ad 74650 Chavanod | | drastée | Certification numb | ber | PG_2302.2023 13.02.2024 | |
|--|---|---|---|---|--------------------------------------|---|
| Glider model Serial number Trimmer Folding lines used | France EONA 4 S SA-ENA4-S-P6-2401 no no | | Classification Representative Place of test | | A Gregoire LOMBARDI Villeneuve | |
| Test pilot | | Philippe Dupont | | Claude Thurnheer | | |
| Harness Harness to risers distance [cm] Distance between risers [cm] Total weight in flight [kg] | | Woody Valley srl Wani Light 2 M 43 40 65 | | Advance Thun AG Success 4 M 43 44 85 | | |
| 1. Inflation/Take-off Rising behaviour | | A Smooth, easy and con | estant rising | Α | Smooth, easy and constant rising | Α |
| Special take off technique | required | No | | Α | No | Α |
| Landing Special landing technique required | | A No | | Α | No | Α |
| 3. Speed in straight flight Trim speed more than 30 km/h | | A Yes | | Α | Yes | Α |
| Speed range using the controls larger than 10 km/h | | Yes | | Α | Yes | Α |
| Minimum speed | | Less than 25 km/h A | | Less than 25 km/h | Α | |
| 4. Control movement | | A | | | | |
| Max. weight in flight up to 80 kg Symmetric control pressure / travel | | Increasing / greater the | an 55 cm | Α | not available | 0 |
| Max. weight in flight 80 kg to 100 kg Symmetric control pressure / travel | | not available | | 0 | Increasing / greater than 60 cm | Α |
| Max. weight in flight greater than 100 kg Symmetric control pressure / travel | | not available | | 0 | not available | 0 |
| 5. Pitch stability exiting Dive forward angle on exit | | A Dive forward less than | 130° | Α | Dive forward less than 30° | Α |
| Collapse occurs | | No | | Α | No | Α |
| 6. Pitch stability operating controls during | | A | | | | |
| accelerated flight Collapse occurs | | No | | Α | No | Α |
| 7. Roll stability and damping | | A | | | Detector | |
| Oscillations | | Reducing | | Α | Reducing | Α |
| 8. Stability in gentle spirals | | Α | | | | |

Spontaneous exit

Spontaneous exit

| Initial response of glober (first 180") Tondoncy to return to straight light Socrameous ent to force decreasing, rate of burn A content of the content of | 9. Behaviour exiting a fully developed spiral dive | A | | | |
|--|--|---|---|---|---|
| decreasing) Least than 7201, sportaneous recovery A Reco | Initial response of glider (first 180°) | | Α | Immediate reduction of rate of turn | Α |
| Approximately 30 % chord Entry Recovery Special basis lies than 40° A Recovery Special basis lies than 40° A Special basis lies than 3 s A Special basis lies than 3 s A Special basis lies than 3 s A No A No A Recovery Booking basis lies than 40° A No A Recovery Booking basis lies than 40° A No A Recovery Booking basis lies than 40° A No A No A No A No A Recovery Booking basis lies than 40° A No A N | Tendency to return to straight flight | | Α | | Α |
| Approximately 30 % chord Entry Rocking back less than 45" A Rocking back less than 45" A Rocking back less than 45" A Spontaneous in less than 3 s A Dive forward angle on exit Change of course Dive forward 0"to 30" / Keeping course A No A No A No A Folding lines used No A No A No A Rocking back less than 45" A Rocking back less than | Turn angle to recover normal flight | Less than 720°, spontaneous recovery | Α | Less than 720°, spontaneous recovery | Α |
| Recovery Spontaneous in less than 3 s | 10. Symmetric front collapse Approximately 30 % chord | A | | | |
| Dive forward angle on exit Change of course Dive forward 0° to 30° / Keeping course A No A No A | Entry | Rocking back less than 45° | Α | Rocking back less than 45° | Α |
| Cascade occurs No A No Cascade occurs No No No A No | Recovery | Spontaneous in less than 3 s | Α | Spontaneous in less than 3 s | Α |
| Folding lines used No A No | Dive forward angle on exit Change of course | Dive forward 0° to 30° / Keeping course | Α | Dive forward 0° to 30° / Keeping course | Α |
| At least 50% chord Entry Rocking back less than 45° A Rocking back less than 45° A Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward angle on exit / Change of course No A No A No A Rocking back less than 45° A No A No A No A No A Rocking back less than 45° A No A N | Cascade occurs | No | Α | No | Α |
| Entry Rocking back less than 45° A Rocking back less than 45° A Rocking back less than 45° A Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward or 10 30° / Keeping course A Cascade occurs No A No A No A No A No A No A Recovery Entry Rocking back less than 45° A Rocking | Folding lines used | No | Α | No | Α |
| Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward on the sum of | At least 50% chord | Dealing healt less than 459 | ^ | Dooling book loss than 45° | ^ |
| Dive forward angle on exit / Change of course Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A No A No A No A No A No A No A With accelerator Entry Rocking back less than 45° A Rocking back less than 45° A Rocking back less than 45° A Spontaneous in less than 3 s A Dive forward angle on exit / Change of course Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A No A Spontaneous in less than 3 s A No Cascade occurs A No A | • | • | | | |
| Cascade occurs No No A No A No A No A No A With accelerator Entry Rocking back less than 45° A Recovery Spontaneous in less than 3 s A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Cascade occurs No A No A Dive forward 0° to 30° / Keeping course A Cascade occurs No A No A Dive forward 0° to 30° / Keeping course A Cascade occurs No A No A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Cascade occurs No A No A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / A Dive forward 0° | • | | | | |
| Folding lines used No No A No A No A No A No A With accelerator Entry Rocking back less than 45° A Rocking back less than 45° A Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A No A N | • | | | | |
| With accelerator Entry Rocking back less than 45° A Rocking back less than 45° A Rocking back less than 45° A 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 course A Dive forward 0° to 30° / Keeping course A No A N | | | | | |
| Entry Rocking back less than 45° A Rocking back less than 45° A Rocking back less than 45° A Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° A Div | • | NO | А | No | А |
| Recovery Spontaneous in less than 3 s A Dive forward on to 30° / Keeping course A Dive forward on to 30° / Keeping course A No A Spontaneous in less than 3 s A Dive forward on to 30° A Dive forward on to 30° A Dive forward on to 30° A Changing course less than 45° A Changing course less than 45° A No | | | | | |
| Dive forward angle on exit / Change of course Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A No A Dive forward 0° to 30° A No | Entry | - | А | - | Α |
| Cascade occurs No A No A No A No A No A No A 11. Exiting deep stall (parachutal stall) Deep stall achieved Yes A Recovery Spontaneous in less than 3 s A Dive forward angle on exit Dive forward 0° to 30° A Changing course less than 45° A Cascade occurs No A Cascade occurs No A Dive forward 0° to 30° A | Recovery | Spontaneous in less than 3 s | Α | Spontaneous in less than 3 s | Α |
| Folding lines used No A No A No A No A No A 11. Exiting deep stall (parachutal stall) A Deep stall achieved Yes A Yes A Yes A Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward angle on exit Dive forward 0° to 30° A Change of course Changing course less than 45° A Cascade occurs No A No A No A Spontaneous in less than 45° A Changing course less than 45° A Cascade occurs No A No A No A Spontaneous in less than 3 s A Spontaneous in less than 45° A Spontaneous in less than 3 s A Spontaneous in less | Dive forward angle on exit / Change of course | Dive forward 0° to 30° / Keeping course | Α | Dive forward 0° to 30° / Keeping course | Α |
| 11. Exiting deep stall (parachutal stall) Deep stall achieved Yes A Yes A Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward on to 3000 A Dive forward on to 3000 A Dive forward on to 3000 A Changing course less than 4500 A Changing course less than 4500 A No 12. High angle of attack recovery Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Spontaneous in less than 3 s A No A No A No A Spontaneous in less than 3 s A No Cascade occurs No A | Cascade occurs | No | Α | No | Α |
| Deep stall achieved Yes A Yes A Yes A Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A Change of course Change of course Changing course less than 45° A Changing course less than 45° A Changing course less than 45° A No 12. High angle of attack recovery Recovery No Spontaneous in less than 3 s A No 13. Recovery from a developed full stall Dive forward 0° to 30° A Dive forward 0° to 30° A Dive forward 0° to 30° A No collapse A No collapse | Folding lines used | No | Α | No | Α |
| Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward on to 30 on the forward | 11. Exiting deep stall (parachutal stall) | | ۸ | Vec | Λ |
| Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A Changing course less than 45° A No A 12. High angle of attack recovery Recovery A Spontaneous in less than 3 s A Spontaneous in less than 3 s A No Collapse | | | | | |
| Change of course Changing course less than 45° A Changing course less than 45° A Cascade occurs No A No A No A No A Spontaneous in less than 3 s A Spontaneous in less than 3 s A No | | | | | |
| Cascade occurs No A 12. High angle of attack recovery Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Cascade occurs No A No A No A Dive forward 0° to 30° A No collapse A No collapse A No collapse A | | | | | |
| 12. High angle of attack recovery Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A No A No A No A Dive forward 0° to 30° A No collapse A No collapse A No collapse | | | | | |
| Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Cascade occurs No A No A 13. Recovery from a developed full stall A Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A Collapse A No collapse A No collapse A | Cascade occurs | | Α | No | Α |
| Cascade occurs No A No A No A 13. Recovery from a developed full stall Dive forward 0° to 30° A Dive forward 0° to 30° A No collapse A No collapse A No collapse A | 12. High angle of attack recovery Recovery | | Α | Spontaneous in less than 3 s | Α |
| Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A Collapse A No collapse A | Cascade occurs | No | Α | No | Α |
| Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A Collapse A No collapse A | 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 |
| Cascade occurs (other than collapses) No A No A | 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 | A | | | |
| 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 | 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 |
| 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 | Less than 90° / Dive or roll angle 15° to 45° | 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 |
|--|--|---|--|---|
| 15. Directional control with a maintained asymmetric collapse | A | | | |
| Able to keep course | Yes | Α | Yes | Α |
| 180° turn away from the collapsed side possible in 10 s | Yes | Α | Yes | А |
| 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 Spin occurs | A No | Α | No | Α |
| 18. Recovery from a developed spin | A | | | |
| Spin rotation angle after release | Stops spinning in less than 90° | Α | Stops spinning in less than 90° | Α |
| 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 | Α | | | |
| 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 | A | 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 | Α | | | |
| 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 |
| Behaviour immediately after releasing the accelerator while maintaining big ears | Stable flight | Α | Stable flight | Α |
| 22. Alternative means of directional control | A | | <u> </u> | _ |
| 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 |
| | | | | |