Flight test report

Certification number

Date of flight test

Manufacturer Airwave
Address Gewerbepark 6

Type of glider Sport 4 XL

Trimmer

Address Gewerbepark 6
6142 Mieders
Austria

Representive Bruce Goldsmith

not available

ders Place of test

PG 127.2008 29/01/2008 Villeneuve



Classification B

Test PilotClaude ThurnheerAlain ZollerHarnessSol Slider LAirwave GT LTotal weight in flight115 kg140 kg

| | | Min weight | Max weight | | | | |
|--|--|--|--|--------|--|--|--|
| 1. Inflation/T | ake-off | | | | | | |
| | Rising behaviour | Smooth, easy and constant rising | Smooth, easy and constant rising | 4 | | | |
| | Special take off technique required | No A | No A | 4 | | | |
| 2. Landing | | | l | 4 | | | |
| Special landing technique required No A No | | | | | | | |
| 3. Speed in s | straight flight Trim speed more than 30 km/h | Yes | Yes | Α | | | |
| | Speed range using the controls larger than 10 km/h | Yes | | Α . | | | |
| | Minimum speed | Less than 25 km/h | | Α . | | | |
| 4. Control m | | 2000 tildir 20 tillyll | 2000 than 20 km/m | Ì | | | |
| | 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 | | | | | | |
| | Symmetric control pressure/travel | not available | 0 not available | 0 | | | |
| | Max. weight in flight greater than 100 kg | | | | | | |
| E Ditab atab | Symmetric control pressure/travel | Increasing, Greater than 65 cm | Increasing, Greater than 65 cm | 4 | | | |
| 5. Pitch Stab | ility exiting accelerated flight Dive forward angle on exit | Dive forward less than 30° | Dive forward less than 30° | 4 | | | |
| | Collapse occurs | No A | | Α . | | | |
| 6 Pitch stah | ility operating controls during accelerated flight | 7 | 7 | ì | | | |
| o. i itoli otab | Collapse occurs | No A | No A | 4 | | | |
| 7. Roll stabil | ity and damping | | | | | | |
| | Oscillations | Reducing | Reducing / | 4 | | | |
| 8. Stability in | n gentle spirals | | | | | | |
| | Tendency to return to straight flight | Spontaneous exit | Spontaneous exit | 4 | | | |
| 9. Behaviour | in a steeply banked turn | | | | | | |
| | Sink rate after two turns | More than 14 m/s | More than 14 m/s | 3 | | | |
| 10. Symmetr | ic front collapse | Rocking back less than 45° | Desire heat less than 450 | | | | |
| | Entry | Rocking back less than 45° Spontaneous in less than 3 s | | Α Α | | | |
| | Recovery Dive forward angle on exit | Dive foward 0°to 30°, Keeping course | | Α . | | | |
| | Cascade occurs | No A | | Α . | | | |
| | With accelerator | , | , | | | | |
| | Entry | Rocking back less than 45° | Rocking back less than 45° | 4 | | | |
| | Recovery | Spontaneous in less than 3 s | | Α. | | | |
| | Dive forward angle on exit | Dive foward 0°to 30°, Keeping course | | 4 | | | |
| | Cascade occurs | No A | | 4 | | | |
| 11. Exiting d | eep stall (parachutal stall) | | | | | | |
| | Deep stall achieved | Yes | | 4 | | | |
| | Recovery | Spontaneous in less than 3 s | | 4 | | | |
| | Dive forward angle on exit | Dive forward 0°to 30° | | Α. | | | |
| | Change of course | Changing course less than 45° No | | Α. | | | |
| 12 High and | Cascade occurs le of attack recovery | NO / | X NO , | 4 | | | |
| 12. Tilgii alig | Recovery | Spontaneous in less than 3 s | Spontaneous in less than 3 s | 4 | | | |
| | Cascade occurs | No A | | Α. | | | |
| 13. Recovery | from a developed full stall | | | | | | |
| Ī | Dive forward angle on exit | Dive forward 0°to 30° | Dive forward 0°to 30° | 4 | | | |
| | Collapse | No collapse | No collapse | 4 | | | |
| | Cascade occurs (other than collapse) | No A | | 4 | | | |
| | Rocking back | Less than 45° | | 4 | | | |
| 1.4 Acres | Line tension | Most line tight | Most line tight | 4 | | | |
| 14. Asymme | tric collapse With 50% collapse-Maximum dive forward or roll angle | | | | | | |
| | Change of course until re-inflation | Less than 90°, Dive or roll angle 15° to 45° | Less than 90°, Dive or roll angle 0° to 15° | 4 | | | |
| | Re-inflation behaviour | Spontaneous re-inflation | | À | | | |
| | Total change of course | Less than 360° | | À | | | |
| | Collapse on the opposite side occurs | No A | | Α. | | | |
| | Twist occurs | No A | | Α. | | | |
| | Cascade occurs | No A | No A | 4 | | | |
| | With 75% collapse-Maximum dive forward or roll angle | | | | | | |
| | Change of course until re-inflation | Less than 90°, Dive or roll angle 15° to 45° | | 4 | | | |
| | Re-inflation behaviour | Spontaneous re-inflation | | 4 | | | |
| | Total change of course | Less than 360° | | Α. | | | |
| | Collapse on the opposite side occurs | No A | | 4 | | | |
| | Twist occurs | No Ala | | 4 | | | |
| | Cascade occurs | No A | No A | 4 | | | |
| | With 50% collapse and accelerator-Maximum dive forward of Change of course until re-inflation | · · · · · · · · · · · · · · · · · · · | Less than 90°, Dive or roll angle 15° to 45° | 4 | | | |
| | Re-inflation behaviour | Less than 90°, Dive or roll angle 15° to 45° Spontaneous re-inflation | | 4 | | | |
| | Total change of course | Less than 360° | | Α . | | | |
| | Collapse on the opposite side occurs | | | Α . | | | |
| | , , ,pp | | , | | | | |

| | Twist occurs | No | ۸ | No | ۸ |
|----------------|---|---|--------|---|--------|
| | Cascade occurs | No. | | No | A A |
| | With 75% collapse and accelerator-Maximum dive forward or | | А | INO | A |
| | Change of course until re-inflation | Less than 90°, Dive or roll angle 15° to 45° | Α | 90° to 180°, Dive or roll angle 15° to 45° | В |
| | Re-inflation behaviour | Spontaneous re-inflation | A | Spontaneous re-inflation | A |
| | Total change of course | Less than 360° | A | Less than 360° | A |
| | | No | A | No | A |
| | Collapse on the opposite side occurs Twist occurs | | A | No | |
| | | No No | A | | A |
| 15 Direction | Cascade occurs al control with a maintained asymmetric collapse | NO | А | No | Α |
| 15. Directiona | Able to keep course | Yes | Α | Yes | Α |
| | 180° turn away from the collapsed side possible in 10 s | Yes | A | Yes | A |
| | | | | | |
| 4C Tuins an ac | 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 spee | d spin tendency | Na | ^ | No | ^ |
| 17 Law anao | Spin occurs d spin tendency | No | Α | INO | Α |
| 17. Low spee | Spin occurs | No | Α | No | Α |
| 19 Bassyany | from a developed spin | NO | А | INO | А |
| 18. Recovery | | Ctons enjuring in less than 00% | ^ | Ctons oninging in less than 00% | ^ |
| | Spin rotation angle after release | Stops spinning in less than 90° | | Stops spinning in less than 90° | A |
| 40. D. Um1-1 | Cascade occurs | No | Α | No | Α |
| 19. B-line sta | | Ohanna of annua land their AFO | | Observe of severe less than 450 | |
| | Change of course before release | Change of course less than 45° | A | Change of course less than 45° | A |
| | Behaviour before release | Remains stable with straight span | A | Remains stable with straight span | A |
| | Recovery | Spontaneous in less than 3 s | Α | Spontaneous in less than 3 s | A |
| | Dive forward angle on exit | Dive forward 0° to 30° | Α | Dive forward 0° to 30° | Α |
| 00 0' | Cascade occurs | No | Α | No | Α |
| 20. Big ears | Esternandor | De Parte de controle | | De d'acte de controle | |
| | Entry procedure | Dedicated controls | Α | Dedicated controls | A |
| | Behaviour during big ears | Stable flight | Α | Stable flight | A |
| | Recovery | Spontaneous in less than 3 s Dive forward 0° to 30° | A | Spontaneous in less than 3 s Dive forward 0° to 30° | Α |
| 04 Din | Dive forward angle on exit | Dive forward 0° to 30° | Α | Dive forward 0° to 30° | Α |
| 21. Big ears i | n accelerated flight | De Parte de controle | | De d'acte de controle | |
| | Entry procedure | Dedicated controls | Α | Dedicated controls | A |
| | Behaviour during big ears | Stable flight | A | Stable flight | A |
| | Recovery | Spontaneous in 3 s to 5 s | Α | Spontaneous in 3 s to 5 s | A |
| | Dive forward angle on exit | Dive forward 0° to 30° | A | Dive forward 0° to 30° | Α |
| | Behaviour immediately after releasing the accelerator while | Stable flight | Α | Stable flight | Α |
| 22 Daharia | maintaining big ears | | | | |
| ZZ. Benaviou | r exiting a steep spiral | Coortonoous suit | ٨ | Constanting suit | ^ |
| | Tendency to return to straight flight Turn angle to recover normal flight | Spontaneous exit Less than 720°, spontaneous recovery | A A | Spontaneous exit Less than 720°, spontaneous recovery | A A |
| | | | А | | А |
| OO Alternative | Sink rate when evaluating spiral stability [m/s] | 16 m/s | | 24 m/s | |
| 23. Alternativ | e means of directional control | V | ٨ | V | ۸ |
| | 180° turn achievable in 20 s | Yes | Α | Yes | Α |
| 04 4 | Stall or spin occurs | No | Α | No | Α |
| 24. Any other | flight procedure and/or configuration described in the us | | | | |
| | Procedure works as described | not available | 0 | | 0 |
| | Procedure suitable for novice pilots | not available | 0 | not available | 0 |
| | Cascade occurs | not available | 0 | not available | 0 |
| Comments of | • | | | | |
| | Comments | no | | no | |
| | | | | | |



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