



Flight test report: EN

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| Manufacturer | Dudek Paragliders S.J. | Certification number | PG_0565.2012 |
| Address | ul. Centralna 2U 86-031 Osielsko Poland | Date of flight test | 04. 05. 2012 |
| Representative | None | Place of test | Villeneuve |
| Glider model | Colt 28.5 | Classification | C |
| Trimmer | no | | |

Test pilot Thurnheer Claude Berruex Gilles
Harness Niviuk Gliders - Hamak M Gin Gliders - Gingo 2 L
Total weight in flight (kg) 90 120

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| 1. Inflation/Take-off | A | | | |
| Rising behaviour | Smooth, easy and constant rising | A | Smooth, easy and constant rising | A |
| Special take off technique required | No | A | No | A |
| 2. Landing | A | | | |
| Special landing technique required | No | A | No | A |
| 3. Speed in straight flight | A | | | |
| Trim speed more than 30 km/h | Yes | A | Yes | A |
| Speed range using the controls larger than 10 km/h | Yes | A | Yes | A |
| Minimum speed | Less than 25 km/h | A | Less than 25 km/h | A |
| 4. Control movement | C | | | |
| <i>Max. weight in flight up to 80 kg</i> | | | | |
| Symmetric control pressure / travel | not available | 0 | not available | 0 |
| <i>Max. weight in flight 80 kg to 100 kg</i> | | | | |
| Symmetric control pressure / travel | Increasing / 45 cm to 60 cm | C | not available | 0 |
| <i>Max. weight in flight greater than 100 kg</i> | | | | |
| Symmetric control pressure / travel | not available | 0 | Increasing / 50 cm to 65 cm | C |
| 5. Pitch stability exiting accelerated flight | A | | | |
| Dive forward angle on exit | Dive forward less than 30° | A | Dive forward less than 30° | A |
| Collapse occurs | No | A | No | A |
| 6. Pitch stability operating controls during accelerated flight | A | | | |
| Collapse occurs | No | A | No | A |
| 7. Roll stability and damping | A | | | |
| Oscillations | Reducing | A | Reducing | A |
| 8. Stability in gentle spirals | A | | | |
| Tendency to return to straight flight | Spontaneous exit | A | Spontaneous exit | A |
| 9. Behaviour in a steeply banked turn | B | | | |
| Sink rate after two turns | More than 14 m/s | B | More than 14 m/s | B |
| 10. Symmetric front collapse | C | | | |
| Entry | Rocking back less than 45° | A | Rocking back less than 45° | A |
| Recovery | Spontaneous in 3 s to 5 s | B | Spontaneous in 3 s to 5 s | B |
| Dive forward angle on exit / Change of course | Dive forward 0° to 30° / Keeping course | A | Dive forward 30° to 60° / Keeping course | B |
| Cascade occurs | No | A | No | A |
| <i>With accelerator</i> | | | | |
| Entry | Rocking back less than 45° | A | Rocking back greater than 45° | C |
| Recovery | Spontaneous in 3 s to 5 s | B | Spontaneous in 3 s to 5 s | B |

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|--|--|---|--|---|
| Dive forward angle on exit / Change of course | Dive forward 0° to 30° / Keeping course | A | Dive forward 30° to 60° / Keeping course | B |
| Cascade occurs | No | A | No | A |
| 11. Exiting deep stall (parachutal stall) | B | | | |
| Deep stall achieved | 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 30° to 60° | B |
| Change of course | Changing course less than 45° | A | Changing course less than 45° | A |
| Cascade occurs | No | A | No | A |
| 12. High angle of attack recovery | A | | | |
| 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 | B | | | |
| Dive forward angle on exit | Dive forward 0° to 30° | A | Dive forward 30° to 60° | B |
| 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 | A | Most lines tight | A |
| 14. Asymmetric collapse | C | | | |
| <i>With 50% collapse</i> | | | | |
| 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 0° to 15° | A |
| Re-inflation behaviour | Spontaneous re-inflation | A | Spontaneous re-inflation | A |
| Total change of course | Less than 360° | A | Less than 360° | A |
| Collapse on the opposite side occurs | No | A | No | A |
| Twist occurs | No | A | No | A |
| Cascade occurs | No | A | No | A |
| <i>With 75% collapse</i> | | | | |
| Change of course until re-inflation / Maximum dive forward or roll angle | 90° to 180° / Dive or roll angle 15° to 45° | B | 90° to 180° / Dive or roll angle 15° to 45° | B |
| Re-inflation behaviour | Spontaneous re-inflation | A | Spontaneous re-inflation | A |
| Total change of course | Less than 360° | A | Less than 360° | A |
| Collapse on the opposite side occurs | No | A | No | A |
| Twist occurs | No | A | No | A |
| Cascade occurs | No | A | No | A |
| <i>With 50% collapse and accelerator</i> | | | | |
| 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 | A | Spontaneous re-inflation | A |
| Total change of course | Less than 360° | A | Less than 360° | A |
| Collapse on the opposite side occurs | No | A | No | A |
| Twist occurs | No | A | No | A |
| Cascade occurs | No | A | No | A |
| <i>With 75% collapse and accelerator</i> | | | | |
| Change of course until re-inflation / Maximum dive forward or roll angle | 90° to 180° / Dive or roll angle 45° to 60° | C | 180° to 360° / Dive or roll angle 45° to 60° | C |
| Re-inflation behaviour | Spontaneous re-inflation | A | Spontaneous re-inflation | A |
| Total change of course | Less than 360° | A | Less than 360° | A |
| Collapse on the opposite side occurs | No | A | Yes, no turn reversal | C |
| Twist occurs | No | A | No | A |
| Cascade occurs | No | A | No | A |
| 15. Directional control with a maintained asymmetric collapse | A | | | |
| 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 |

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| 16. Trim speed spin tendency | A | | | |
| Spin occurs | No | A | No | A |
| 17. Low speed spin tendency | A | | | |
| Spin occurs | No | A | No | A |
| 18. Recovery from a developed spin | C | | | |
| Spin rotation angle after release | Stops spinning in 90° to 180° | C | Stops spinning in less than 90° | A |
| Cascade occurs | No | A | No | A |
| 19. B-line stall | A | | | |
| Change of course before release | Changing course less than 45° | A | Changing 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 | 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 |
| Cascade occurs | No | A | No | A |
| 20. Big ears | B | | | |
| Entry procedure | Dedicated controls | A | Dedicated controls | A |
| Behaviour during big ears | Stable flight | A | Stable flight | A |
| Recovery | Spontaneous in 3 s to 5 s | B | Spontaneous in less than 3 s | A |
| Dive forward angle on exit | Dive forward 0° to 30° | A | Dive forward 0° to 30° | A |
| 21. Big ears in accelerated flight | A | | | |
| Entry procedure | Dedicated controls | A | Dedicated controls | A |
| Behaviour during big ears | Stable flight | A | Stable flight | A |
| Recovery | Spontaneous in 3 s to 5 s | A | Spontaneous in 3 s to 5 s | A |
| 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 |
| 22. Behaviour exiting a steep spiral | A | | | |
| Tendency to return to straight flight | Spontaneous exit | A | Spontaneous exit | A |
| Turn angle to recover normal flight | Less than 720°, spontaneous recovery | A | Less than 720°, spontaneous recovery | A |
| Sink rate when evaluating spiral stability [m/s] | 17 | | 16 | |
| 23. Alternative means of directional control | A | | | |
| 180° turn achievable in 20 s | Yes | A | Yes | A |
| Stall or spin occurs | No | A | No | A |
| 24. 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 |
| 25. Comments of test pilot | | | | |
| Comments | | | | |