

## Flight test report: EN 926-2:2013 & LTF 91/09

|              |                                                                                         |                      |              |
|--------------|-----------------------------------------------------------------------------------------|----------------------|--------------|
| Manufacturer | <b>Davinci Products Inc.</b>                                                            | Certification number | PG_1331.2018 |
| Address      | 53 sinchon-gil, Okcheon-myeon, Yangpyeong-gun<br>12505 Gyeonggi-do<br>Republic of Korea | Flight test          | 31.01.2018   |

|                    |                  |                       |            |
|--------------------|------------------|-----------------------|------------|
| Glider model       | <b>CLASSIC L</b> | <b>Classification</b> | <b>B</b>   |
| Serial number      | COL-175003       | Representative        | None       |
| Trimmer            | no               | Place of test         | Villeneuve |
| Folding lines used | no               |                       |            |

|                                        |                  |               |
|----------------------------------------|------------------|---------------|
| <b>Test pilot</b>                      | Claude Thurnheer | Alain Zoller  |
| <b>Harness</b>                         | Niviuk -         | Gin Gliders - |
| <b>Harness to risers distance (cm)</b> | 44               | 43            |
| <b>Distance between risers (cm)</b>    | 44               | 48            |
| <b>Total weight in flight (kg)</b>     | 95               | 120           |

|                                                                        |                                                                |   |                                                                |   |
|------------------------------------------------------------------------|----------------------------------------------------------------|---|----------------------------------------------------------------|---|
| <b>1. Inflation/Take-off</b>                                           | <b>A</b>                                                       |   |                                                                |   |
| Rising behaviour                                                       | Smooth, easy and constant rising                               | A | Smooth, easy and constant rising                               | A |
| Special take off technique required                                    | No                                                             | A | No                                                             | A |
| <b>2. Landing</b>                                                      | <b>A</b>                                                       |   |                                                                |   |
| Special landing technique required                                     | No                                                             | A | No                                                             | A |
| <b>3. Speed in straight flight</b>                                     | <b>A</b>                                                       |   |                                                                |   |
| 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 |
| <b>4. Control movement</b>                                             | <b>A</b>                                                       |   |                                                                |   |
| <b>Max. weight in flight up to 80 kg</b>                               |                                                                |   |                                                                |   |
| Symmetric control pressure / travel                                    | not available                                                  | 0 | not available                                                  | 0 |
| <b>Max. weight in flight 80 kg to 100 kg</b>                           |                                                                |   |                                                                |   |
| Symmetric control pressure / travel                                    | Increasing / greater than 60 cm                                | A | Increasing / greater than 60 cm                                | A |
| <b>Max. weight in flight greater than 100 kg</b>                       |                                                                |   |                                                                |   |
| Symmetric control pressure / travel                                    | not available                                                  | 0 | not available                                                  | 0 |
| <b>5. Pitch stability exiting accelerated flight</b>                   | <b>A</b>                                                       |   |                                                                |   |
| Dive forward angle on exit                                             | Dive forward less than 30°                                     | A | Dive forward less than 30°                                     | A |
| Collapse occurs                                                        | No                                                             | A | No                                                             | A |
| <b>6. Pitch stability operating controls during accelerated flight</b> | <b>A</b>                                                       |   |                                                                |   |
| Collapse occurs                                                        | No                                                             | A | No                                                             | A |
| <b>7. Roll stability and damping</b>                                   | <b>A</b>                                                       |   |                                                                |   |
| Oscillations                                                           | Reducing                                                       | A | Reducing                                                       | A |
| <b>8. Stability in gentle spirals</b>                                  | <b>A</b>                                                       |   |                                                                |   |
| Tendency to return to straight flight                                  | Spontaneous exit                                               | A | Spontaneous exit                                               | A |
| <b>9. Behaviour exiting a fully developed spiral dive</b>              | <b>A</b>                                                       |   |                                                                |   |
| Initial response of glider (first 180°)                                | Immediate reduction of rate of turn                            | A | Immediate reduction of rate of turn                            | A |
| Tendency to return to straight flight                                  | Spontaneous exit (g force decreasing, rate of turn decreasing) | A | Spontaneous exit (g force decreasing, rate of turn decreasing) | A |
| Turn angle to recover normal flight                                    | Less than 720°, spontaneous recovery                           | A | Less than 720°, spontaneous recovery                           | A |
| <b>10. Symmetric front collapse</b>                                    | <b>A</b>                                                       |   |                                                                |   |
| <b>Approximately 30 % chord</b>                                        |                                                                |   |                                                                |   |
| Recovery                                                               | Rocking back less than 45°                                     | A | Rocking back less than 45°                                     | A |
|                                                                        | 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 |
| Cascade occurs                                                           | No                                                                             | A | No                                                                             | A |
| Folding lines used                                                       | No                                                                             |   | No                                                                             |   |
| <b>At least 50% chord</b>                                                |                                                                                |   |                                                                                |   |
| 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                            | Dive forward 0° to 30° / Keeping course                                        | A | Dive forward 0° to 30° / Keeping course                                        | A |
| Cascade occurs                                                           | No                                                                             | A | No                                                                             | A |
| Folding lines used                                                       | No                                                                             |   | No                                                                             |   |
| <b>With accelerator</b>                                                  |                                                                                |   |                                                                                |   |
| 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                            | Dive forward 0° to 30° / Keeping course                                        | A | Dive forward 0° to 30° / Keeping course                                        | A |
| Cascade occurs                                                           | No                                                                             | A | No                                                                             | A |
| Folding lines used                                                       | No                                                                             |   | No                                                                             |   |
| <b>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 0° to 30°                                                         | A |
| Change of course                                                         | Changing course less than 45°                                                  | A | Changing course less than 45°                                                  | A |
| Cascade occurs                                                           | No                                                                             | A | No                                                                             | A |
| <b>12. High angle of attack recovery</b>                                 |                                                                                |   |                                                                                |   |
| Recovery                                                                 | Spontaneous in less than 3 s                                                   | A | Spontaneous in less than 3 s                                                   | A |
| Cascade occurs                                                           | No                                                                             | A | No                                                                             | A |
| <b>13. Recovery from a developed full stall</b>                          |                                                                                |   |                                                                                |   |
| Dive forward angle on exit                                               | Dive forward 0° to 30°                                                         | A | 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                                                               | A | Most lines tight                                                               | A |
| <b>14. Asymmetric collapse</b>                                           |                                                                                |   |                                                                                |   |
| <b>Small asymmetric collapse</b>                                         |                                                                                |   |                                                                                |   |
| 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 (or only a small number of collapsed cells with a spontaneous re-inflation) | A | No (or only a small number of collapsed cells with a spontaneous re-inflation) | A |
| Twist occurs                                                             | No                                                                             | A | No                                                                             | A |
| Cascade occurs                                                           | No                                                                             | A | No                                                                             | A |
| Folding lines used                                                       | No                                                                             |   | No                                                                             |   |
| <b>Large asymmetric collapse</b>                                         |                                                                                |   |                                                                                |   |
| 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 (or only a small number of collapsed cells with a spontaneous re-inflation) | A | No (or only a small number of collapsed cells with a spontaneous re-inflation) | A |
| Twist occurs                                                             | No                                                                             | A | No                                                                             | A |
| Cascade occurs                                                           | No                                                                             | A | No                                                                             | A |
| Folding lines used                                                       | No                                                                             |   | No                                                                             |   |
| <b>Small asymmetric collapse with fully activated accelerator</b>        |                                                                                |   |                                                                                |   |
| 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 (or only a small number of collapsed cells with a spontaneous re-inflation) | A | No (or only a small number of collapsed cells with a spontaneous re-inflation) | A |
| Twist occurs                                                                              | No                                                                             | A | No                                                                             | A |
| Cascade occurs                                                                            | No                                                                             | A | No                                                                             | A |
| Folding lines used                                                                        | No                                                                             |   | No                                                                             |   |
| <b>Large asymmetric collapse with fully activated accelerator</b>                         |                                                                                |   |                                                                                |   |
| 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 (or only a small number of collapsed cells with a spontaneous re-inflation) | A | No (or only a small number of collapsed cells with a spontaneous re-inflation) | A |
| Twist occurs                                                                              | No                                                                             | A | No                                                                             | A |
| Cascade occurs                                                                            | No                                                                             | A | No                                                                             | A |
| Folding lines used                                                                        | No                                                                             |   | No                                                                             |   |
| <b>15. Directional control with a maintained asymmetric collapse</b>                      |                                                                                |   |                                                                                |   |
| 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 |
| <b>16. Trim speed spin tendency</b>                                                       |                                                                                |   |                                                                                |   |
| Spin occurs                                                                               | No                                                                             | A | No                                                                             | A |
| <b>17. Low speed spin tendency</b>                                                        |                                                                                |   |                                                                                |   |
| Spin occurs                                                                               | No                                                                             | A | No                                                                             | A |
| <b>18. Recovery from a developed spin</b>                                                 |                                                                                |   |                                                                                |   |
| Spin rotation angle after release                                                         | Stops spinning in 90° to 180°                                                  | B | Stops spinning in 90° to 180°                                                  | B |
| Cascade occurs                                                                            | No                                                                             | A | No                                                                             | A |
| <b>19. B-line stall</b>                                                                   |                                                                                |   |                                                                                |   |
| 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 |
| <b>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 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 |
| <b>21. Big ears in accelerated flight</b>                                                 |                                                                                |   |                                                                                |   |
| Entry procedure                                                                           | Dedicated controls                                                             | A | Standard technique                                                             | A |
| Behaviour during big ears                                                                 | Stable flight                                                                  | A | Stable flight                                                                  | 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 |
| Behaviour immediately after releasing the accelerator while maintaining big ears          | Stable flight                                                                  | A | Stable flight                                                                  | A |
| <b>22. Alternative means of directional control</b>                                       |                                                                                |   |                                                                                |   |
| 180° turn achievable in 20 s                                                              | Yes                                                                            | A | Yes                                                                            | A |
| Stall or spin occurs                                                                      | No                                                                             | A | No                                                                             | A |
| <b>23. Any other flight procedure and/or configuration described in the user's manual</b> |                                                                                |   |                                                                                |   |
| 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 |
| <b>24. Comments of test pilot</b>                                                         |                                                                                |   |                                                                                |   |