

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

|                    |  |                       |              |
|--------------------|--|-----------------------|--------------|
| Manufacturer       | <b>Triple Seven paragliders</b>                      | Certification number  | PG_2250.2023 |
| Address            | Ulica Ane Ziharlove 10<br>1000 Ljubljana<br>Slovenia | Flight test           | 31.05.2023   |
| Glider model       | <b>M-light ML</b>                                    | <b>Classification</b> | <b>A</b>     |
| Serial number      | MA-ML-R-0098   | Representative        | None         |
| Trimmer            | no   | Place of test         | Villeneuve   |
| Folding lines used | no   |                       |              |

|  |                  |                  |
|--|------------------|------------------|
| <b>Test pilot</b>                      | Claude Thurnheer | Anselm Rauh      |
| <b>Harness</b>                         | Niviuk Konvers M | Niviuk Konvers M |
| <b>Harness to risers distance (cm)</b> | 44               | 44               |
| <b>Distance between risers (cm)</b>    | 44               | 48               |
| <b>Total weight in flight (kg)</b>     | 90               | 115              |

|  |                                  |   |                                  |   |
|--|----------------------------------|---|----------------------------------|---|
| <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 | not available                    | 0 |
| <b>Max. weight in flight greater than 100 kg</b>                       |                                  |   |                                  |   |
| Symmetric control pressure / travel                                    | not available                    | 0 | Increasing / greater than 65 cm  | A |
| <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 |

\*This standard is NOT covered by accreditation D-IS-19457-01

|   |  |          |  |   |
|---|--|----------|--|---|
| <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>                           |  |          |  |   |
| 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   | A        | No   | A |
| <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   | A        | No   | A |
| <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   | A        | No   | A |
| <b>11. Exiting deep stall (parachutal stall)</b>          |  | <b>A</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>                  |  | <b>A</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>           |  | <b>A</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>A</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 0° to 15°                                   | 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   | A        | No   | A |
| <b>Large 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 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   | A        | No   | A |
| <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 0° to 15°                                   | 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   | A        | No   | A |
| <b>Large 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   | A | No   | A |
| <b>15. Directional control with a maintained asymmetric collapse</b>                      | <b>A</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>   | <b>A</b>                                       |   |  |   |
| Spin occurs   | No   | A | No   | A |
| <b>17. Low speed spin tendency</b>  | <b>A</b>                                       |   |  |   |
| Spin occurs   | No   | A | No   | A |
| <b>18. Recovery from a developed spin</b>   | <b>A</b>                                       |   |  |   |
| Spin rotation angle after release   | Stops spinning in less than 90°                | A | Stops spinning in less than 90°                | A |
| Cascade occurs  | No   | A | No   | A |
| <b>19. B-line stall</b>   | <b>A</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>   | <b>A</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>   | <b>A</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 |
| Behaviour immediately after releasing the accelerator while maintaining big ears          | Stable flight                                  | A | Stable flight                                  | A |
| <b>22. Alternative means of directional control</b>                                       | <b>A</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> | <b>0</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 |

**24. Comments of test pilot**

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