



## Flight test report: EN 926-2:2013

|                                        |                                                     |                        |                      |
|----------------------------------------|-----------------------------------------------------|------------------------|----------------------|
| Manufacturer                           | <b>777 jadrlna padala d.o.o.</b>                    | Certification number   | PG_0916.2015         |
| Address                                | Ulica Ane Zihelove 10<br>1000 Ljubljana<br>Slovenia | Date of flight test    | 04. 02. 2015         |
| Glider model                           | <b>Rook 2 MS</b>                                    | <b>Classification</b>  | <b>B</b>             |
| Serial number                          | R02-MS-A-0011-27015                                 | Representative         | Valic brothers       |
| Trimmer                                | no                                                  | Place of test          | Villeneuve           |
| <b>Test pilot</b>                      |                                                     | Thurnheer Claude       | Zoller Alain         |
| <b>Harness</b>                         |                                                     | Sup' Air - Altiplume S | Supair - Altiplume L |
| <b>Harness to risers distance (cm)</b> |                                                     | 43                     | 44                   |
| <b>Distance between risers (cm)</b>    |                                                     | 44                     | 44                   |
| <b>Total weight in flight (kg)</b>     |                                                     | 80                     | 100                  |

|                                                                        |                                                                |   |                                                                |   |
|------------------------------------------------------------------------|----------------------------------------------------------------|---|----------------------------------------------------------------|---|
| <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 |

**10. Symmetric front collapse****B****Approximately 30 % 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 | 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 |

**At least 50% chord**

|                                               |                                         |   |                                         |   |
|-----------------------------------------------|-----------------------------------------|---|-----------------------------------------|---|
| Entry                                         | Rocking back less than 45°              | A | Rocking back less than 45°              | A |
| Recovery                                      | Spontaneous in 3 s to 5 s               | B | 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 |

**With accelerator**

|                                               |                                         |   |                                                            |   |
|-----------------------------------------------|-----------------------------------------|---|------------------------------------------------------------|---|
| 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° / Entering a turn of less than 90° | B |
| Cascade occurs                                | No                                      | A | No                                                         | A |
| Folding lines used                            | No                                      | A | No                                                         | A |

**11. Exiting deep stall (parachutal stall)****A**

|                            |                               |   |                               |   |
|----------------------------|-------------------------------|---|-------------------------------|---|
| 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 |

**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****B****Small asymmetric collapse**

|                                                                          |                                                                               |   |                                                                               |   |
|--------------------------------------------------------------------------|-------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------|---|
| 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 reinflation) | A | No (or only a small number of collapsed cells with a spontaneous reinflation) | A |
| Twist occurs                                                             | No                                                                            | A | No                                                                            | A |
| Cascade occurs                                                           | No                                                                            | A | No                                                                            | A |
| Folding lines used                                                       | No                                                                            | A | No                                                                            | A |

**Large asymmetric collapse**

|                                                                          |                                             |   |                                             |   |
|--------------------------------------------------------------------------|---------------------------------------------|---|---------------------------------------------|---|
| 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                                                                             | 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 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>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                                                                             | A | No                                                                             | A |
| <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 less than 90°                                                | A | Stops spinning in less than 90°                                                | A |
| 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 | 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 |
| <b>24. Comments of test pilot</b>                                                         | <input type="checkbox"/> |   |               |   |
| Comments                                                                                  |                          |   |               |   |