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| SKYWALK ARAK S Type designation Type test reference no | - | A THE THE |
|---|---|--|
| Holder of certification Manufacturer | Skywalk GmbH & Co. KG Skywalk GmbH & Co. KG | |
| Classification Winch towing Number of seats min / max | Yes 1 / 1 | |
| Accelerator Trimmers | | BEHAVIOUR AT MAX WEIGHT |
| Test pilots | FLIGHT (75KG) | IN FLIGHT (100KG) |
| | CET. | 1 a table |
| | | |
| | Beni Stocker No release | Sebastian Mackrodt No release |
| <u>/</u> | Smooth, easy and constant rising | A Smooth, easy and constant rising No |
| | A | A |
| Special landing technique required Speeds in straight flight | No | No |
| Trim speed more than 30 km/h Speed range using the controls larger than 10 | Yes Yes | Yes Yes |
| km/h Minimum speed | Less than 25 km/h | Less than 25 km/h |
| Symmetric control pressure | - | A Increasing |
| Symmetric control travel Pitch stability exiting accelerated flight | Greater than 55 cm | Greater than 60 cm |
| Dive forward angle on exit Collapse occurs | | Dive forward less than 30° No |
| <u>Pitch stability operating controls during</u> accelerated flight | Α | Α |
| Collapse occurs | | No |
| <u>Roll stability and damping</u> Oscillations | Reducing | ¦ A Reducing |
| Stability in gentle spirals Tendency to return to straight flight | A Spontaneous exit | A Spontaneous exit |
| Behaviour exiting a fully developed spiral dive | | Α |
| | Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate turn decreasing) | Immediate reduction of rate of turn of Spontaneous exit (g force decreasing rate of turn decreasing) |
| Turn angle to recover normal flight | 57 | Less than 720°, spontaneous recover |
| Entry | Rocking back less than 45° Spontaneous in less than 3 s | Rocking back less than 45° Spontaneous in less than 3 s |
| Dive forward angle on exit Change of course | Dive forward 0° to 30° Entering a turn of less than 90° | Dive forward 0° to 30° Keeping course |
| Cascade occurs Folding lines used | no | No no |
| - | Rocking back less than 45° | B Rocking back less than 45° |
| Dive forward angle on exit | Spontaneous in 3 s to 5 s Dive forward 30° to 60° Entering a turn of less than 90° | Spontaneous in 3 s to 5 s Dive forward 0° to 30° Entering a turn of less than 90° |
| Cascade occurs Folding lines used | | No no |
| | B Rocking back less than 45° | A Rocking back less than 45° |
| Recovery Dive forward angle on exit | Spontaneous in 3 s to 5 s Dive forward 30° to 60° | Spontaneous in less than 3 s Dive forward 0° to 30° |
| Change of course Cascade occurs Folding lines used | | Entering a turn of less than 90° No no |
| 7* | Α | A |
| Deep stall achieved Recovery Dive forward angle on exit | Spontaneous in less than 3 s | Yes Spontaneous in less than 3 s Dive forward 0° to 30° |
| Change of course Cascade occurs | Changing course less than 45° No | Changing course less than 45° No |
| <i></i> | A Spontaneous in less than 3 s | A Spontaneous in less than 3 s |
| Cascade occurs | No | No |
| Dive forward angle on exit | A Dive forward 0° to 30° No collapse | A Dive forward 0° to 30° No collapse |
| Cascade occurs (other than collapses) Rocking back | No Less than 45° | No Less than 45° |
| | Most lines tight | Most lines tight |
| Change of course until re-inflation Maximum dive forward or roll angle | Dive or roll angle 15° to 45° | Less than 90° Dive or roll angle 0° to 15° |
| Total change of course | Spontaneous re-inflation Less than 360° No (or only a small number of collapsed ce | Spontaneous re-inflation Less than 360° ells No (or only a small number of |
| Twist occurs | with a spontaneous re inflation) | collapsed cells with a spontaneous re inflation) No |
| Cascade occurs Folding lines used | | No no |
| Large asymmetric collapse Change of course until re-inflation | A Less than 90° | A Less than 90° |
| Maximum dive forward or roll angle Re-inflation behaviour Total change of course | Spontaneous re-inflation | Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° |
| - | No (or only a small number of collapsed ce with a spontaneous re inflation) | ells No (or only a small number of collapsed cells with a spontaneous re |
| Twist occurs Cascade occurs | | inflation) No No |
| Folding lines used Small asymmetric collapse accelerated | no | no |
| Change of course until re-inflation Maximum dive forward or roll angle | Less than 90° | Less than 90° Dive or roll angle 15° to 45° |
| Total change of course | Spontaneous re-inflation Less than 360° No (or only a small number of collapsed ce | Spontaneous re-inflation Less than 360° |
| | with a spontaneous re inflation) | collapsed cells with a spontaneous re inflation) |
| Cascade occurs Folding lines used | No | No no |
| Large asymmetric collapse accelerated Change of course until re-inflation | B 90° to 180° | B 90° to 180° |
| Maximum dive forward or roll angle Re-inflation behaviour | Dive or roll angle 15° to 45° Spontaneous re-inflation | Dive or roll angle 15° to 45° Spontaneous re-inflation |
| Total change of course Collapse on the opposite side occurs | Less than 360° No (or only a small number of collapsed ce with a spontaneous re inflation) | collapsed cells with a spontaneous re |
| Twist occurs Cascade occurs | | inflation) No No |
| Folding lines used | | no |
| asymmetric collapse Able to keep course | | A Yes |
| 180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or | Yes More than 50 % of the symmetric control | Yes More than 50 % of the symmetric |
| spin | travel | control travel |
| Spin occurs | No | No |
| <u>Low speed spin tendency</u> Spin occurs | A No | A No |
| / | A Stops spinning in less than 90° | A Stops spinning in less than 90° |
| Spin rotation angle after release Cascade occurs | No | Stops spinning in less than 90° No |
| Change of course before release | | A Changing course less than 45° |
| | Remains stable with straight span Spontaneous in less than 3 s Dive forward 30° to 60° | Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° |
| Cascade occurs | No | No |
| | B Dedicated controls Stable flight | B Dedicated controls Stable flight |
| | Spontaneous in 3 s to 5 s | Stable flight Spontaneous in 3 s to 5 s Dive forward 0° to 30° |
| | A Dedicated controls | A Dedicated controls |
| Behaviour during big ears | Spontaneous in 3 s to 5 s | Dedicated controls Stable flight Spontaneous in 3 s to 5 s |
| - | • | Dive forward 0° to 30° |
| Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears | Stable flight | Stable flight |
| Behaviour immediately after releasing the accelerator while maintaining big ears | Stable flight | Stable flight |