para-test.com

Escape Gliders

PG_0663.2013

AIR TURQUOISE SA certified by



Flight test report: EN

Manufacturer

Recovery

| Manufacturei | Locape Onders | Certification number | | 10_0003.2013 | |
|---|---|---|---|---|--------|
| Address | 489, route de Grasse 06140 Vence France | Date of flight test | | 19. 01. 2013 | |
| Representative | Alloix Pierre-Yves | Place of test | | Villeneuve | |
| Glider model | S31 L | Classification | | C | |
| Trimmer | no | | | - | |
| | 10 | | | | |
| | | | | | |
| | Test pilot | Thurnheer Claude | | Zoller Alain | |
| | Harness | Gin Gliders - Gingo 2 L | | Gin Gliders - Gingo 2 L | |
| | Total weight in flight (kg) | 100 | | 125 | |
| 1. Inflation/Take-off | | Α | | | |
| Rising behaviour | | Smooth, easy and constant rising | А | Smooth, easy and constant rising | А |
| Special take off techniqu | le required | No | А | No | А |
| 2. Landing | | Α | | | |
| Special landing techniqu | | No | А | No | А |
| 3. Speed in straight flig | | Α | | | |
| Trim speed more than 3 | | Yes | Α | Yes | А |
| | controls larger than 10 km/h | Yes | А | Yes | А |
| Minimum speed | | Less than 25 km/h | А | Less than 25 km/h | A |
| 4. Control movement | | Α | | | |
| Max. weight in flight up t | | | • | | |
| Symmetric control pressure / travel | | not available | 0 | not available | 0 |
| Max. weight in flight 80 kg to 100 kg | | | • | | • |
| Symmetric control pressure / travel | | not available | 0 | not available | 0 |
| Max. weight in flight greater than 100 kg | | | • | | • |
| Symmetric control pressure / travel | | Increasing / greater than 65 cm | A | Increasing / greater than 65 cm | A |
| 5. Pitch stability exiting accelerated flight | | A Dive forward less than 30° | А | Dive forward less than 30° | ۸ |
| Dive forward angle on exit | | No | A | No | A A |
| Collapse occurs 6. Pitch stability operating controls during accelerated | | A | A | NO | A |
| flight | ting controls during accelerated | ~ | | | |
| Collapse occurs | | No | А | No | А |
| 7. Roll stability and damping | | Α | | | |
| Oscillations | | Reducing | А | Reducing | А |
| 8. Stability in gentle spirals | | Α | | | |
| Tendency to return to straight flight | | Spontaneous exit | А | Spontaneous exit | А |
| 9. Behaviour in a steeply banked turn | | В | | | |
| Sink rate after two turns | | More than 14 m/s | В | More than 14 m/s | В |
| 10. Symmetric front co | llapse | В | | | |
| Entry | | Rocking back less than 45° | А | Rocking back less than 45° | А |
| 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 | А | No | А |
| With accelerator | | | | | |
| Entry | | Rocking back less than 45° | A | Rocking back less than 45° | A |
| | | | 0 | | |

Certification number

Spontaneous in 3 s to 5 s B Spontaneous in 3 s to 5 s

В

| 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 | А | No | А |
| 11. Exiting deep stall (parachutal stall) | Α | | | |
| Deep stall achieved | Yes | А | Yes | А |
| Recovery | Spontaneous in less than 3 s | А | Spontaneous in less than 3 s | А |
| Dive forward angle on exit | Dive forward 0° to 30° | А | Dive forward 0° to 30° | А |
| Change of course | Changing course less than 45° | А | Changing course less than 45° | А |
| Cascade occurs | No | А | No | А |
| 12. High angle of attack recovery | Α | | | |
| Recovery | Spontaneous in less than 3 s | А | Spontaneous in less than 3 s | А |
| Cascade occurs | No | А | No | А |
| 13. Recovery from a developed full stall | Α | | | |
| Dive forward angle on exit | Dive forward 0° to 30° | А | Dive forward 0° to 30° | А |
| Collapse | No collapse | А | No collapse | А |
| Cascade occurs (other than collapses) | No | А | No | А |
| Rocking back | Less than 45° | А | Less than 45° | А |
| Line tension | Most lines tight | А | Most lines tight | А |
| 14. Asymmetric collapse | В | | | |
| With 50% collapse | | | | |
| 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 | А | Spontaneous re-inflation | А |
| Total change of course | Less than 360° | А | Less than 360° | А |
| Collapse on the opposite side occurs | No | А | No | А |
| Twist occurs | No | А | No | А |
| Cascade occurs | No | А | No | А |
| With 75% collapse | | | | |
| Change of course until re-inflation / Maximum dive forward or roll angle | 90° to 180° / Dive or roll angle 15° to 45° | В | 90° to 180° / Dive or roll angle 15° to 45° | В |
| Re-inflation behaviour | Spontaneous re-inflation | А | Spontaneous re-inflation | А |
| Total change of course | Less than 360° | А | Less than 360° | А |
| Collapse on the opposite side occurs | No | А | No | А |
| Twist occurs | No | А | No | А |
| Cascade occurs | No | А | No | А |
| With 50% collapse and accelerator | | | | |
| 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 | А | Spontaneous re-inflation | А |
| Total change of course | Less than 360° | А | Less than 360° | А |
| Collapse on the opposite side occurs | No | А | No | А |
| Twist occurs | No | А | No | А |
| Cascade occurs | No | А | No | А |
| With 75% collapse and accelerator | | | | |
| Change of course until re-inflation / Maximum dive forward or roll angle | 90° to 180° / Dive or roll angle 15° to 45° | В | 90° to 180° / Dive or roll angle 15° to 45° | В |
| Re-inflation behaviour | Spontaneous re-inflation | А | Spontaneous re-inflation | А |
| Total change of course | Less than 360° | А | Less than 360° | А |
| Collapse on the opposite side occurs | No | А | No | А |
| Twist occurs | No | А | No | А |
| Cascade occurs | No | А | No | А |
| 15. Directional control with a maintained asymmetric collapse | A | | | |
| Able to keep course | Yes | А | Yes | А |
| 180° turn away from the collapsed side possible in 10 s | Yes | А | Yes | А |
| 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 |

| Spin occursNoANoA17. Low speed spin tedneryASpin occursNoANoA18. Recovery from a developed spinAStops spinning in less than 0°AStops spinning in less than 0°A19. Totation angle after releaseStops spinning in less than 15°ANoANoA19. B-line stallAChanging course less than 45°ANoARecourse less releaseChanging course less than 45°ARemains stable with straight spinARemains stable with straight spinARemains stable with straight spinARecourse less releaseSpin tancours in less than 3ASpin tancours in less than 3ANoAARecoverySpontaneous in less than 3ASpontaneous in less than 3ASpin tancours in less than 3 </th <th>16. Trim speed spin tendency</th> <th>Α</th> <th></th> <th></th> <th></th> | 16. Trim speed spin tendency | Α | | | |
|---|--|---|---|-----------------------------------|---|
| Spin occursNoANoANoA18. Recovery from a developed spinAStops spinning in less than 90°AStops spinning in less than 90°ASpin rotation angle after releaseNoANoA19. E-line stallA | Spin occurs | No | А | No | А |
| 18. Recovery from a developed spin A 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 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 No A 20. Big ears A Entry procedure Dedicated controls A Spontaneous in less than 3 s A 21. Big ears in accelerated flight C Entry procedure Dedicated controls A Dive forward 0° to 30° A 21. Big ears in accelerated flight C C Entry procedure Dedicated controls A Behaviour during big ears Stable flight A Dive forward 0° to 30° A </td <td>17. Low speed spin tendency</td> <td>Α</td> <td></td> <td></td> <td></td> | 17. Low speed spin tendency | Α | | | |
| Spin rotation angle after releaseStops spinning in less than 90°AStops spinning in less than 90°ACascade occursNoANoA19. B-line stallAChanging course less than 45°AChange of course before releaseChanging course less than 45°AChanging course less than 45°ABehaviour before releaseRemains stable with straight spanARemains stable with straight spanARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ANoA20. Big aersAEntry procedureDedicated controlsAStable flightABehaviour during big earsStable flightASpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°AStable flightASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ASpontaneous in less than 3 sADive forward angle on exitDedicated controlsADive forward 0° to 30°ADive forward 0° to 30°A21. Big ars in accelerated flightCDedicated controlsASpontaneous in less than 3 sADive forward angle on exitDedicated controlsASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°A <tr< td=""><td>Spin occurs</td><td>No</td><td>А</td><td>No</td><td>А</td></tr<> | Spin occurs | No | А | No | А |
| Cascade occursNoANoA19. Bline stallAChange of course before releaseChanging course less than 45"ABehaviour before releaseRemains stable with straight spanARemains stable with straight spanARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sAOive forward or to 30"ANoANoA20. Big earsATorre forward 0" to 30"ANoAEntry procedureDedicated controlsASpontaneous in less than 3 sABehaviour during big earsStable flightAStable flightA21. Big ears in accelerated flightCUre forward 0" to 30"A21. Big ears in accelerated flightCUre forward 0" to 30"A21. Big ears in accelerated flightCUre forward 0" to 30"A21. Big ears in accelerated flightCUre forward 0" to 30"ADive forward angle on exitDedicated controlsADive forward 0" to 30"ABehaviour during big earsStable flightASpontaneous in less than 3 sABehaviour during big earsStable flightADive forward 0" to 30"ADive forward 10 to soADive forward 0" to 30"AABehaviour during big earsStable flightASpontaneous in less than 3 sADive forward 10 to soADive forward 0" to 30"AABehaviour during big ears <td< td=""><td>18. Recovery from a developed spin</td><td>А</td><td></td><td></td><td></td></td<> | 18. Recovery from a developed spin | А | | | |
| 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 20. Big ars A Cheinge fight A No A Behaviour during big ears A Dive forward 0 to 30° A Dive forward 0 to 30° A Behaviour during big ears Stable flight A Stable flight A Stable flight A 21. Big ears in accelerated flight C Entry procedure Dedicated controls A Dive forward 0 to 30° A 21. Big ears in accelerated flight C C Entry procedure Dedicated controls A Behaviour during big ears A 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°< | Spin rotation angle after release | Stops spinning in less than 90 $^\circ$ | Α | Stops spinning in less than 90° | А |
| Change of course before releaseChanging course less than 45° ApanAChanging course less than 45° AARemains stable with straight spanARecoverySpontaneous in less than 3 s Dive forward angle on exitSpontaneous in less than 3 s Dive forward 0 ° to 30°ASpontaneous in less than 3 s AASpontaneous in less than 3 s AANoACascade occursADive forward 0 ° to 30°ANoANoA20. Big earsADive forward 0 ° to 30°AStable flightAStable flightARecoverySpontaneous in less than 3 s Dive forward 0 ° to 30°ASpontaneous in less than 3 sASpontaneous in less than 3 sA21. Big ears in accelerated flightCEEEEEEEntry procedureDedicated controlsADive forward 0 ° to 30°ADive forward 0 ° to 30°ABehaviour during big earsStable flightAUse forward 0 ° to 30°ADive forward 0 ° to 30°ADive forward angle on exitDive forward 0 ° to 30°ADive forward 0 ° to 30°ADive forward 0 ° to 30°ABehaviour during big earsStable flightASpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitStable flightA <td< td=""><td>Cascade occurs</td><td>No</td><td>А</td><td>No</td><td>А</td></td<> | Cascade occurs | No | А | No | А |
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| spanNote the set with | Change of course before release | Changing course less than 45° | А | Changing course less than 45° | А |
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| Cascade occursNoANoA20. Big earsAEntry procedureDedicated controlsADedicated controlsABehaviour during big earsStable flightAStable flightABecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0" to 30"ADive forward 0" to 30"A21. Big ears in accelerated flightCUter forward 0" to 30"ABehaviour during big earsStable flightAUnstable flightCEntry procedureDedicated controlsADedicated controlsABehaviour during big earsStable flightAUnstable flightCRecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0" to 30"ADive forward 0" to 30"ABehaviour uimmediately after releasing the accelerator while maintaining big earsAStable flightAStable flightA22. Behaviour exiting a steep spiralAAAStable flightAStable flightATurn angle to recover normal flightLess than 720", spontaneous recoveryALess than 720", spontaneous recoveryA23. Alternative means of directional controlAHHAState when evaluating spiral stability [m/s]18II24. Any other flight procedure and/or configuration cascibed in the user's manualO | Recovery | Spontaneous in less than 3 s | А | Spontaneous in less than 3 s | А |
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| Behaviour during big earsStable flightAStable flightARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward or to 30°ADive forward 0° to 30°ADive forward 0° to 30°A21. Big ears in accelerated flightCEntry procedureDedicated controlsADedicated controlsABehaviour during big earsStable flightAUnstable flightCRecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward on to 30°ADive forward 0° to 30°ADive forward 0° to 30°ABehaviour immediately after releasing the accelerator while maintaining big earsSpontaneous in less than 3 sASpontaneous in less than 3 sA22. Behaviour exiting a steep spiralASpontaneous exitASpontaneous exitATurn angle to recover normal flightSpontaneous exitASpontaneous exitA180° turn achievable in 20 sYesAYesA23. Alternative means of directional controlAYesANoA24. Any other flight procedure and/or configuration described in the user's manualNoANoAProcedure works as describednot availablenot available0not available0Procedure works as describednot availableNoAIstableflightDiveProcedure suitable for novice pilotsnot avail | 20. Big ears | Α | | | |
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| Dive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°A21. Big ears in accelerated flightCEntry procedureDedicated controlsADedicated controlsABehaviour during big earsStable flightAUnstable flightCRecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ABehaviour immediately after releasing the accelerator whileStable flightAStable flightA22. Behaviour exiting a steep spiralASpontaneous in less than 3 sASpontaneous exitATendency to return to straight flightSpontaneous exitASpontaneous exitATurn angle to recover normal flightLess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryASink rate when evaluating spiral stability [m/s]181919181923. Alternative means of directional controlANoANoAAny other flight procedure and/or configuration described in the user's manualOOnot available0Procedure works as describednot availablenot available0not available0Procedure suitable for novice pilotsnot available0not available0Contens of test pilotCnot available0not available0 | Behaviour during big ears | Stable flight | Α | Stable flight | А |
| 21. Big ears in accelerated flightCEntry procedureDedicated controlsADedicated controlsABehaviour during big earsStable flightAUnstable flightCRecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ABehaviour immediately after releasing the accelerator while maintaining big earsAStable flightAStable flightA22. Behaviour exiting a steep spiral rendency to return to straight flightSpontaneous exitASpontaneous exitATendency to return to straight flightSpontaneous exitASpontaneous exitATurn angle to recover normal flightLess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryA23. Alternative means of directional control turn achievable in 20 sAYesAYesA24. Any other flight procedure and/or configuration described in the user's manualOnot available0not available0Procedure works as describednot availablenot available0not available0000Coscade occursnot available0not available0not available00025. Comments of test pliotUsersnot available0not available000 | Recovery | Spontaneous in less than 3 s | А | Spontaneous in less than 3 s | А |
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| Dive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ABehaviour immediately after releasing the accelerator while maintaining big earsStable flightAStable flightA22. Behaviour exiting a steep spiralAAStable flightATendency to return to straight flightSpontaneous exitASpontaneous exitATurn angle to recover normal flightLess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryA23. Alternative means of directional controlA19A23. Alternative means of directional controlAYesA180° turn achievable in 20 sYesAYesAStall or spin occursNoANoA24. Any other flight procedure and/or configuration described in the user's manualOnot available0Procedure works as describednot available0not available0Procedure suitable for novice pilotsnot available0not available0Cascade occursnot available0not available025. Comments of test pilotItst pilotItst pilotItst pilotItst pilot | Behaviour during big ears | Stable flight | А | Unstable flight | С |
| Behaviour inmediately after releasing the accelerator while maintaining big earsStable flightAStable flightA22. Behaviour exiting a steep spiral Tendency to return to straight flightASpontaneous exitASpontaneous exitATurn angle to recover normal flight Turn angle to recover normal flightLess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryA23. Alternative means of directional control 180° turn achievable in 20 sAYesAYesAStall or spin occursNoANoAStalleleleA24. Any other flight procedure and/or configuration described in the user's manualOor tavailable0not available0Procedure works as describednot available0not available0or tavailable0Cascade occursnot available0not available0not available025. Comments of test pilotEst pilotEst pilot0Ist pilot0 | Recovery | Spontaneous in less than 3 s | А | Spontaneous in less than 3 s | А |
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