AIR TURQUOISE SA | PARA-TEST.COM

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



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

| | OFT: EN 920-2:2013 | Certification number | - | 00 1410 2019 | | |
|--|---------------------------------|--|---|--|---|--|
| Manufacturer BGD GmbH Address Am Gewerbepark 2 9413 St-Gertraud Austria | | Flight test | | PG_1410.2018 27.03.2018 | | |
| | | | | | | |
| Serial number | BG0605095A | Representative | Ν | lone | | |
| Trimmer | no | Place of test | | Villeneuve | | |
| | | race or test | v | illerieuve | | |
| Folding lines used | no | | | | | |
| Test pilot | | Claude Thurnheer | A | lain Zoller | | |
| Harness | | Niviuk - Hamak M | C | Gin Gliders - Gingo 2 L | | |
| Harness to risers d | listance (cm) | 44 | | 43 | | |
| Distance between risers (cm) Total weight in flight (kg) | | 44 88 | | 48 113 | | |
| | | | | | | |
| 1. Inflation/Take-off | | В | | | | |
| Rising behaviour | | Smooth, easy and constant rising | Α | Easy rising, some pilot correction is required | В | |
| Special take off technique | e required | No | Α | No | Α | |
| 2. Landing | | Α | | | | |
| Special landing technique | e required | No | Α | No | Α | |
| 3. Speed in straight flight | | Α | | | | |
| Trim speed more than 30 km/h | | Yes | Α | Yes | A | |
| Speed range using the controls larger than 10 km/h | | Yes | Α | Yes | A | |
| Minimum speed | | Less than 25 km/h | Α | Less than 25 km/h | Α | |
| 4. Control movement | | Α | | | | |
| Max. weight in flight up | = | | | | | |
| Symmetric control pressure / travel | | not available | 0 | not available | 0 | |
| Max. weight in flight 80 kg to 100 kg | | | | | | |
| Symmetric control pressure / travel | | Increasing / greater than 60 cm | Α | not available | 0 | |
| Max. weight in flight gre | = | | | | | |
| Symmetric control pressu | | not available | 0 | Increasing / greater than 65 cm | Α | |
| 5. Pitch stability exiting accelerated flight | | Α | | | | |
| Dive forward angle on exit | | Dive forward less than 30° | Α | Dive forward less than 30° | Α | |
| Collapse occurs | | No | Α | No | F | |
| 6. Pitch stability operati flight | ing controls during accelerated | Α | | | | |
| Collapse occurs | | No | Α | No | Α | |
| 7. Roll stability and dam | nping | Α | | | | |
| Oscillations | | Reducing | Α | Reducing | A | |
| 8. Stability in gentle spi | rals | Α | | | | |
| Tendency to return to straight flight | | Spontaneous exit | Α | Spontaneous exit | Α | |
| 9. Behaviour exiting a fu | ully developed spiral dive | Α | | | | |
| Initial response of glider (| first 180°) | Immediate reduction of rate of turn | Α | Immediate reduction of rate of turn | A | |
| Tendency to return to stra | aight flight | Spontaneous exit (g force decreasing, rate of turn decreasing) | Α | Spontaneous exit (g force decreasing, rate of turn decreasing) | Δ | |
| Turn angle to recover nor | mal flight | Less than 720°, spontaneous recovery | Α | Less than 720°, spontaneous recovery | Δ | |
| 10. Symmetric front coll | lapse | В | | | | |
| Approximately 30 % cho | ord | | | | | |
| Entry | | Rocking back less than 45° | Α | Rocking back less than 45° | A | |
| | | | | | | |

| Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward of 'to 30' Koeping A No A | | | | | |
|--|---|-------------------------------------|--------------|------------------------------------|-----|
| Cosscade occurs | Recovery | Spontaneous in less than 3 s | Α | Spontaneous in less than 3 s | Α |
| Foliang lines used | Dive forward angle on exit Change of course | | Α | | Α |
| A test 50% chord Entry | Cascade occurs | No | Α | No | Α |
| Entity | Folding lines used | No | | No | |
| Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Classed and socurs A No | At least 50% chord | | | | |
| Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Classed and socurs A No | Entry | Rocking back less than 45° | Α | Rocking back less than 45° | Α |
| Dive forward angle on exit / Change of course Dive forward 0" to 30" / Keeping Course | • | • | Α | - | Α |
| Folding lines used No No No No With accelerator | • | Dive forward 0° to 30° / Keeping | | Dive forward 0° to 30° / Keeping | |
| Mith accelerator Entry | Cascade occurs | No | Α | No | Α |
| Recovery | Folding lines used | No | | No | |
| Recovery Cascade occurs No No A No A No A No A No A No A Recovery Cascade occurs No No A Recovery A | With accelerator | | | | |
| Recovery Cascade occurs No No A No A No A No A No A No A Recovery Cascade occurs No No A Recovery A | Entry | Rocking back less than 45° | Α | Rocking back less than 45° | Α |
| Dive forward angle on exit / Change of course | • | <u>.</u> | В | • | Α |
| Part | • | Dive forward 0° to 30° / Keeping | | Dive forward 0° to 30° / Keeping | |
| Folding lines used No No No No No No No N | Cascade occurs | | Δ | | Δ |
| Deep stall achieved | | | , , | | ,, |
| Peep stall achieved | | - | | 110 | |
| Recovery | | | Λ | Van | ۸ |
| Dive forward angle on exit Dive forward 0" to 30" A Change of course Changing course less than 45" A Changing course less than 3 s A Changing course | | | | | |
| Change of course No | | | | | |
| Cascade occurs No A No A No A | Dive forward angle on exit | Dive forward 0° to 30° | Α | Dive forward 0° to 30° | Α |
| Recovery Rec | Change of course | Changing course less than 45° | Α | Changing course less than 45° | Α |
| Recovery Soportaneous in less than 3 s | Cascade occurs | No | Α | No | Α |
| Cascade occurs No No No No No No No N | 12. High angle of attack recovery | Α | | | |
| Dive forward angle on exit Dive forward 30° to 60° B Dive forward 30° to 60° B Collapse No collapse No collapse A No collapse A No collapse A No collapse A Rocking back Less than 45° A Less than 45° A Less than 45° A Line tension Most lines tight A Less than 45° A Less 45° A A Less 45° A A A A A A A A A | Recovery | Spontaneous in less than 3 s | Α | Spontaneous in less than 3 s | Α |
| Dive forward angle on exit Collapse No collapse No collapse No collapse No collapse A Less than 45° A Less than 45° A Less than 45° A Most lines tight A Less than 45° A Most lines tight A Less than 90° / Dive or roll angle 0° to 15° No for 515° Re-inflation behaviour Twist occurs No No No A No A No A No A No A No Cascade occurs No No Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Total change of course Change of course Less than 360° A Spontaneous re-inflation A 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 | Cascade occurs | No | Α | No | Α |
| Dive forward angle on exit Dive forward 30° to 60° B Dive forward 30° to 60° B Collapse Collapse No collapse A Less than 45° | 13. Recovery from a developed full stall | В | | | |
| Collapse No collapse A No collapse A No collapse A Cascade occurs (other than collapses) No A Cascade occurs (other than collapses) A Cascade occurs (other than collapse B Change of ocurse until re-inflation / Maximum dive forward or roll angle of course until re-inflation / Maximum dive forward or roll angle of course until re-inflation / Maximum dive forward or roll angle or total change of course A Collapse on the opposite side occurs (other than collapsed cells with a spontaneous re-inflation) A Cascade occurs (other than collapsed cells with a spontaneous re-inflation) A 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 No (or only a small number of roll angle of course until re-inflation / Maximum dive forward or roll angle angle of course until re-inflation / Maximum dive forward or roll angle angle (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of roll angle angle (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 Cascade occurs (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 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 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 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 | Dive forward angle on exit | Dive forward 30° to 60° | В | Dive forward 30° to 60° | В |
| Cascade occurs (other than collapses) Rocking back Less than 45° A Less than 45° A Less than 45° A Line tension Most lines tight A Most lines tight A Line tension Most lines tight A Most lines tight A Line tension Most lines tight A Most lines tight A Less than 45° A Less than 45° A Less than 45° A Less than 90° / Dive or roll angle of course until re-inflation / Maximum dive forward or roll angle of tourse Less than 90° / Dive or roll angle of tourse Less than 360° A Less than 360° / Dive or roll angle of tourse Less than 360° A Less than 360° / Dive or roll angle of tourse Less than 360° A Less than 360° A Less than 360° A Less than 360° A Less than 360° A Less than 360° A Less than 360° A No (or only a small number of collapsed cells with a spontaneous reinflation) A Rocking back Less than 360° A No A No A Rocking back Less than 360° A No No No No No Large asymmetric collapse Diversity | | No collapse | Α | No collapse | Α |
| Rocking back Less than 45° A Less than 45° A Less than 45° A | | | | | |
| Line tension Most lines tight A Most lines tight A Most lines tight A | | | | | |
| Small asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle of course Less than 90° / Dive or roll angle of to 15° Dive or poly a small number of collapsed cells with a spontaneous re-inflation of the opposite side occurs No | | | | | |
| Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle of langle Less than 90° / Dive or roll angle of to 15° A Less than 90° / Dive or roll angle of to 15° A Spontaneous re-inflation A Spontaneous re-inflation A Less than 360° A 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 and the spontaneous re-inflation a | | | , , , | Woot mes agric | , , |
| Change of course until re-inflation / Maximum dive forward or roll angle of to 15° by | · | В | | | |
| roll angle Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation A Spontaneous re-inflation A Spontaneous re-inflation A Less than 360° A Less than 360° A 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) Twist occurs No Cascade occurs No A No A No Cascade occurs No A No Cascade occurs No Charge asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation A Spontaneous re-inflation A Spontaneous re-inflation A Collapse on the opposite side occurs No Conscade occurs No Cascade occurs No No Cascade occurs No Cascade occurs No No Cascade occurs No No No Cascade occurs No No No No No No No Cascade occurs No Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or roll angle 15° to 45° | • | Lasa da sa con / Disas annellas als | | Lacathan 00% / Discardant lacath | |
| 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) Twist occurs No Cascade occurs No No A No A No Cascade occurs No No A Folding lines used Change of course until re-inflation / Maximum dive forward or roll angle on the opposite side occurs Re-inflation behaviour Total change of course Collapse on the opposite side occurs No No Cor only a small number of collapsed cells with a spontaneous reinflation No No Less than 360° A No No No No Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle angle 15° to 45° Re-inflation behaviour Total change of course Collapse on the opposite side occurs No No No No No No No No No N | roll angle | 0° to 15° | | 0° to 15° | |
| Collapse on the opposite side occurs No (or only a small number of collapsed cells with a spontaneous reinflation) Twist occurs No No A No No A No No A No No A No | | • | | ' | |
| Twist occurs No No A No | Total change of course | Less than 360° | Α | | Α |
| Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs No (or only a small number of collapse dells with a spontaneous re-inflation) Twist occurs No (or only a small number of collapsed cells with a spontaneous re-inflation) Twist occurs No (or only a small number of collapsed cells with a spontaneous re-inflation) Twist occurs No (or only a small number of collapsed cells with a spontaneous re-inflation) Twist occurs No (or only a small number of collapsed cells with a spontaneous re-inflation) Twist 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 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 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 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 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 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 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 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 No (or only a small number of re-inflation) | Collapse on the opposite side occurs | collapsed cells with a spontaneous | Α | collapsed cells with a spontaneous | Α |
| Folding lines used Large asymmetric collapse Charge of course until re-inflation / Maximum dive forward or roll angle of langle of course until re-inflation / Maximum dive forward or roll angle roll angle of course until re-inflation behaviour Re-inflation behaviour Total change of course Collapse on the opposite side occurs Collapse on the opposite side occurs No (or only a small number of collapsed cells with a spontaneous re-inflation) Twist occurs No No No A No Cascade occurs No No No Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or roll angle 15° to 45° No Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 15° to 45° | Twist occurs | No | Α | No | Α |
| Large asymmetric collapseChange of course until re-inflation / Maximum dive forward or roll angle angle90° to 180° / Dive or roll angle 15° to 45°B90° to 180° / Dive or roll angle 15° to 45°BRe-inflation behaviourSpontaneous re-inflationASpontaneous re-inflationATotal change of courseLess than 360°ALess than 360°ACollapse on the opposite side occursNo (or only a small number of collapsed cells with a spontaneous re-inflation)ANo (or only a small number of collapsed cells with a spontaneous re-inflation)ATwist occursNoANoANoACascade occursNoANoANoAFolding lines usedNoNoNoNoALess than 90° / Dive or roll angle 15° to 45°ALess than 90° / Dive or roll angle 15° to 45°ALess than 90° / Dive or roll angle 15° to 45°ALess than 90° / Dive or roll angle 15° to 45°A | Cascade occurs | No | Α | No | Α |
| Change of course until re-inflation / Maximum dive forward or roll angle roll angle roll angle roll angle serion provided angle roll | Folding lines used | No | | No | |
| roll angle Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation A Spontaneous re-inflation A Spontaneous re-inflation A Less than 360° A 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) Twist occurs No No A No Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or roll angle To to 45° A Less than 360° A Less than 360° A No Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or roll angle 15° to 45° A Less than 90° / Dive or roll angle 15° to 45° | Large asymmetric collapse | | | | |
| Total change of course Collapse on the opposite side occurs No (or only a small number of collapsed cells with a spontaneous reinflation) Twist occurs No No No No A No (or only a small number of collapsed cells with a spontaneous reinflation) Twist occurs No No A No A No A No A No A No A Cascade occurs No No No No Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or roll angle Total change of course No (or only a small number of collapsed cells with a spontaneous reinflation) A No No A Less than 360° A No (or only a small number of collapsed cells with a spontaneous reinflation) A No A Less than 90° / Dive or roll angle 15° to 45° | • . | | В | | В |
| Collapse on the opposite side occurs No (or only a small number of collapsed cells with a spontaneous reinflation) Twist occurs No No A No (or only a small number of collapsed cells with a spontaneous reinflation) A No A No A No A No A No A No A Cascade occurs No No No No Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or roll angle Test than 90° / Dive or roll angle A Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle 15° to 45° | Re-inflation behaviour | Spontaneous re-inflation | Α | Spontaneous re-inflation | Α |
| collapsed cells with a spontaneous reinflation) Twist occurs No No A No A No A No A Folding lines used No Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or roll angle Collapsed cells with a spontaneous reinflation) A No A No No No Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle 15° to 45° A Collapsed cells with a spontaneous reinflation) A No A Less than 90° / Dive or roll angle 15° to 45° | Total change of course | Less than 360° | Α | Less than 360° | Α |
| Cascade occurs No No No No No No Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or roll angle Change of course until re-inflation / Maximum dive forward or roll angle Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle 15° to 45° | Collapse on the opposite side occurs | collapsed cells with a spontaneous | Α | collapsed cells with a spontaneous | Α |
| Folding lines used No No No Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or roll angle Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle 15° to 45° | Twist occurs | No | Α | No | Α |
| Folding lines used No No No Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or roll angle Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle 15° to 45° | Cascade occurs | No | Α | No | Α |
| Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or roll angle Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle A 15° to 45° | Folding lines used | No | | No | |
| Change of course until re-inflation / Maximum dive forward or roll angle Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle A 15° to 45° | - | - | | - | |
| | Change of course until re-inflation / Maximum dive forward or | | Α | | Α |
| | - | Spontaneous re-inflation | Α | Spontaneous re-inflation | Α |

| Total change of course | Less than 360° | Α | Less than 360° | Α |
|--|---|---|---|---|
| Collapse on the opposite side occurs | No (or only a small number of collapsed cells with a spontaneous reinflation) | Α | No (or only a small number of collapsed cells with a spontaneous reinflation) | Α |
| Twist occurs | No | Α | No | Α |
| Cascade occurs | No | Α | No | Α |
| Folding lines used | No | | No | |
| Large asymmetric collapse with fully activated 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 | Α | Spontaneous re-inflation | Α |
| Total change of course | Less than 360° | Α | Less than 360° | Α |
| Collapse on the opposite side occurs | No (or only a small number of collapsed cells with a spontaneous reinflation) | Α | No (or only a small number of collapsed cells with a spontaneous reinflation) | Α |
| Twist occurs | No | Α | No | Α |
| Cascade occurs | No | Α | No | Α |
| Folding lines used | No | | No | |
| 15. Directional control with a maintained asymmetric | A | | | |
| collapse | | | | |
| Able to keep course | Yes | Α | Yes | Α |
| 180° turn away from the collapsed side possible in 10 s | Yes | Α | Yes | Α |
| Amount of control range between turn and stall or spin | More than 50 % of the symmetric control travel | Α | More than 50 % of the symmetric control travel | Α |
| 16. Trim speed spin tendency | Α | | | |
| Spin occurs | No | Α | No | Α |
| 17. Low speed spin tendency | Α | | | |
| Spin occurs | No | Α | No | Α |
| 18. Recovery from a developed spin | В | | | |
| Spin rotation angle after release | Stops spinning in 90° to 180° | В | Stops spinning in less than 90° | Α |
| Cascade occurs | No | Α | No | Α |
| 19. B-line stall | Α | | | |
| Change of course before release | Changing course less than 45° | Α | Changing course less than 45° | Α |
| Behaviour before release | Remains stable with straight span | Α | Remains stable with straight span | Α |
| Recovery | Spontaneous in less than 3 s | Α | Spontaneous in less than 3 s | Α |
| Dive forward angle on exit | Dive forward 0° to 30° | Α | Dive forward 0° to 30° | Α |
| Cascade occurs | No | Α | No | Α |
| 20. Big ears | A | | | |
| Entry procedure | Dedicated controls | Α | Standard technique | Α |
| Behaviour during big ears | Stable flight | Α | Stable flight | Α |
| Recovery | Spontaneous in less than 3 s | Α | Spontaneous in less than 3 s | Α |
| Dive forward angle on exit | Dive forward 0° to 30° | Α | Dive forward 0° to 30° | Α |
| 21. Big ears in accelerated flight | Α | | | |
| Entry procedure | Dedicated controls | Α | Dedicated controls | Α |
| Behaviour during big ears | Stable flight | Α | Stable flight | Α |
| Recovery | Spontaneous in less than 3 s | Α | Spontaneous in less than 3 s | Α |
| Dive forward angle on exit | Dive forward 0° to 30° | Α | Dive forward 0° to 30° | Α |
| Behaviour immediately after releasing the accelerator while maintaining big ears | Stable flight | Α | Stable flight | Α |
| 22. Alternative means of directional control | A | | | |
| 180° turn achievable in 20 s | Yes | Α | Yes | Α |
| Stall or spin occurs | No | Α | No | Α |
| 23. Any other flight procedure and/or configuration described in the user's manual | 0 | | | |
| 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 |
| 04 0 | | | | |

24. Comments of test pilot