



Deutscher Hängegleiterverband e.V. im DAeC

DHV-Technikreferat

LBA-anerkannte Prüfstelle für Hängegleiter und Gleitsegel

GS TESTFLUG LTF 2009 GIN_FUSE

Test No 026501-GSTF09-617-Sesi

Test date 01.04.2014

Location Achensee / Rofan

Type GIN_Fuse

Test type GS Testflug LTF 2009

Test order Auftrag GS Musterprüfung GIN_Fuse (GIN Gliders INC.)

Customer GIN Gliders INC.

Test standard LTF NFL II-91/09

Test standard 2 EN 926-2:2005

Expert Mackrodt

Result positive

Billing to: 100%

Technical peculiarities

Datum / Unterschrift (Sebastian Mackrodt)

RESULTS

PG test flight (general)

Take off weight [kg] 110

Weight limit for certification [kg] 110

Number of pilots 1

test pilot Sebastian Mackrodt

Harness type Acro T

Harness category Biplace

Minimum speed [km/h] 22

Trim speed [km/h] 33

Accelerated speed [km/h] 40

Accelerator used? No

Trimms -

en : Klassifizierung

en : Klassifizierung C

EN : ERGEBNISDETAILS NACH LTF 2009

1 Inflation/take-off

A

Rising behaviour Smooth, easy and constant rising

Special take off technique required No

2 Landing

A

Special landing technique required No

3 Speeds in straight flight

A

Trim speed more than 30 km/h Yes

Speed range using the controls larger than 10 km/h Yes

Minimum speed Less than 25 km/h

4 Control movement **A****Symmetric control pressure** Increasing**Symmetric control travel** Greater than 65 cm**5 Pitch stability exiting accelerated flight**

Not carried out because the glider is not equipped with an accelerator

6 Pitch stability operating controls during accelerated flight

Not carried out because the glider is not equipped with an accelerator

7 Roll stability and damping **A****Oscillations** Reducing**8 Stability in gentle spirals** **A****Tendency to return to straight flight** Spontaneous exit**9 Behaviour in a steeply banked turn** **A****Sink rate after two turns** Up to 12 m/s**10.1 Symmetric front collapse** **A****Entry** Rocking back less than 45°**Recovery** Spontaneous in less than 3 s**Dive forward angle on exit** Dive forward 0° to 30°**Change of course** Keeping course**Cascade occurs** No**10.2 Symmetric front collapse in accelerated flight**

Not carried out because the glider is not equipped with an accelerator

11 Exiting deep stall (parachutal stall) **A****Deep stall achieved** Yes**Recovery** Spontaneous in less than 3 s**Dive forward angle on exit** Dive forward 0° to 30°**Change of course** Changing course less than 45°**Cascade occurs** No**12 High angle of attack recovery** **A****Recovery** Spontaneous in less than 3 s**Cascade occurs** No**13 Recovery from a developed full stall** **A****Dive forward angle on exit** Dive forward 0° to 30°**Collapse** No collapse**Cascade occurs (other than collapses)** No**Rocking back** Less than 45°**Line tension** Most lines tight**14.1 Asymmetric collapse 45-50%** **A****Change of course until re-inflation** Less than 90°**Maximum dive forward or roll angle** Dive or roll angle 0° to 15°**Re-inflation behaviour** Spontaneous re-inflation**Total change of course** Less than 360°**Collapse on the opposite side occurs** No**Twist occurs** No

Cascade occurs No

14.2 Asymmetric collapse 70-75% **C**

Change of course until re-inflation Greater than 360°

Maximum dive forward or roll angle Dive or roll angle 15° to 45°

Re-inflation behaviour Inflates in less than 3 s from start of pilot action

Total change of course Greater than 360°

Collapse on the opposite side occurs No

Twist occurs No

Cascade occurs No

14.3 Asymmetric collapse 45-50% in accelerated flight

Not carried out because the glider is not equipped with an accelerator

14.4 Asymmetric collapse 70-75% in accelerated flight

Not carried out because the glider is not equipped with an accelerator

15 Directional control with a maintained asymmetric collapse **A**

Able to keep course Yes

180° turn away from the collapsed side possible in 10 s Yes

Amount of control range between turn and stall or spin More than 50 % of the symmetric control travel

16 Trim speed spin tendency **A**

Spin occurs No

17 Low speed spin tendency **A**

Spin occurs No

18 Recovery from a developed spin **A**

Spin rotation angle after release Stops spinning in less than 90°

Cascade occurs No

19 B-line stall **A**

Change of course before release Changing course less than 45°

Behaviour before release Remains stable with straight span

Recovery Spontaneous in less than 3 s

Dive forward angle on exit Dive forward 0° to 30°

Cascade occurs No

20 Big ears **B**

Entry procedure Dedicated controls

Behaviour during big ears Stable flight

Recovery Recovery through pilot action in less than a further 3 s

Dive forward angle on exit Dive forward 0° to 30°

21 Big ears in accelerated flight

Not carried out because the glider is not equipped with an accelerator

22 Behaviour exiting a steep spiral **A**

Tendency to return to straight flight Spontaneous exit

Turn angle to recover normal flight Less than 720°, spontaneous recovery

Sink rate when evaluating spiral stability [m/s] 14

23 Alternative means of directional control**A****180° turn achievable in 20 s** Yes**Stall or spin occurs** No**24 Any other flight procedure and/or configuration described in the user's manual**

No other flight procedure or configuration described in the user's manual

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Sprachmodul [default_constants](#)
Sprachmodul [default_dhv](#)
Sprachmodul [default_tmo](#)
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