



Deutscher Hängegleiterverband e.V. im DAeC
DHV-Technikreferat
LBA-anerkannte Prüfstelle für Hängegleiter und Gleitsegel

GS TESTFLUG LTF 2009 GIN GLIDERS FUSE

Test No 026503-GSTF09-619-Beni
Test date 10.04.2014
Location Gardasee / Mt Baldo
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 Stocker
Result positive
Billing to: 100%
Technical peculiarities

Datum / Unterschrift (Beni Stocker)

RESULTS

PG test flight (general)

Take off weight [kg] 160
Weight limit for certification [kg] 160
Number of pilots 2
test pilot Beni Stocker
Harness type SUP` AIR DUO
Harness category Biplace
Minimum speed [km/h] 24
Trim speed [km/h] 35
Accelerated speed [km/h] 0
Accelerator used? No
Trimms slow

en : Klassifizierung

en : Klassifizierung B

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 12 m/s to 14 m/s

10.1 Symmetric front collapse **B**

Entry Rocking back less than 45°
Recovery Spontaneous in 3 s to 5 s
Dive forward angle on exit Dive forward 0° to 30°
Change of course Entering a turn of less than 90°
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 **B**

Dive forward angle on exit Dive forward 30° to 60°
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 15° to 45°
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% **B**

Change of course until re-inflation 90° to 180°

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

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

14.3 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

Sprachmodul [default](#)
Sprachmodul [default_constants](#)
Sprachmodul [default_dhv](#)
Sprachmodul [default_tmo](#)
Sprachmodul [erg_flusi](#)
Sprachmodul [tmo_pruefungen](#)
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