Glasflügel Sailplanes

Issue: 06 Date: 17 October 2025



# TYPE-CERTIFICATE DATA SHEET

NO. EASA.A.241

for

Glasflügel Sailplanes

# **Type Certificate Holder**

Glasfaser Flugzeug-Service GmbH

Hofener Weg 72582 Grabenstetten Germany

For models: BS 1

TCDS No.: EASA.A.241

H 301 "Libelle"

H 301 B

H 301 serial No. 1 Standard Libelle

Standard Libelle 201 B Standard Libelle 203

Kestrel

Glasflügel 604

Club Libelle 205

Hornet

Hornet C

Mosquito

Mosquito B

Glasflügel 304



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#### SECTION A: BS 1

#### A.I. General

1. Type/Model/Variant

1.1 Type Glasflügel Sailplanes

1.2 Model BS<sub>1</sub>

2. Airworthiness Category Sailplane Utility "U"

3. Manufacturer Fa. Glasflügel

Ing. Eugen Hänle 7311 Schlattstall

Germany

4. Type Certification Application Date 25 June 1962

5. State of Design Authority Germany

6. State of Design Authority Type Certificate Date 04 February 1999

7. EASA Type Certification Date 10 July 2008

#### A.II. **EASA Certification Basis**

1. Reference Date for determining

the applicable requirements Defined by LBA letter 3-

238/Tgb-Nr. 1892/62, dated

June 28th 1962

2. Airworthiness Requirements

Design Specification (BVS,

book 1 to 3)

**Airworthiness Requiremets** for Sailplanes (LFS), issue 1966, chapter "Flight"

**Preliminary Airworthiness** Requirements for Towing

issue October 1955

**Preliminary Standards for** Structural Substantiation of Sailplane Components

consisting of Glass Fibre Reinforced Plastics, issue

1965

3. Special Conditions None

4. Exemptions LFS § 13(2)

LFS § 18(2)

LFS § 34(1)

5. Equivalent Safety Findings None

6. Environmental Protection None



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#### **Technical Characteristics and Operational Limitations** A.III.

1. Type Design Definition List of Drawings BS1

> Amendment to the Definition of the Type BS, LBA-approved

January 04th 1999

2. Description Single Seater, shoulder

winged sailplane, all

composite construction, flaps, Schempp-Hirth type air-brake on the upper and lower wing surface, braking parachute. Springmounted retractable landing gear, all moving T-tail.

3. Equipment Min. Equipment:

- 1 Air speed indicator (up to 210 km/h)
- 1 Altimeter
- 1 4-Point safety harness (symmetrical)
- 1 Parachute or back cushion per person (thickness approx. 10 cm / 3.94 in. when compressed)

Additional Equipment refer to Flight and Maintenance

Manual

Wing Span 18 m

4. Dimensions 5. Launching Hooks

> Special Hook "SH 72", LBA Datasheet No. 60.230/3

> Nose tow hook "E72", LBA Datasheet No. 60.230/1

Nose tow hook "E75", LBA Datasheet No. 60.230/1

Nose tow hook "E85", LBA Datasheet No. 60.230/1

6. Weak links

max. 900 daN For winch launching For aero towing max. 600 daN

7. Air Speeds

Manoeuvring Speed v<sub>A</sub> 200 km/h 200 km/h Never Exceed Speed V<sub>NE</sub>

Maximum permitted speeds

With flaps at -4, 0, +2 200 km/h With flaps at +5 150 km/h With extendet Speedbreaks 200 km/h



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Winch launching  $v_W$  130 km/h Aero Towing  $v_T$  170 km/h

8. Approved Operations Capability Approved for VFR-flying in

daytime

9. Maximum Masses

Max. Mass 460 kg Max. Mass of Non-Lifting Parts 270 kg

10. Centre of Gravity Range

Forward Limit

Rearward Limit

420 mm aft of datum point

11. Datum Wing leading edge at wing

root rip

12. Control surface deflections Refer to Maintenance Manual

13. Levelling Means Wedge 1000:88 on top

fuselage to be horizontal

1

14. Minimum Flight Crew115. Maximum Passenger Seating Capacity0

## A.IV. Operating and Service Instructions

# 1. Flight Manual

- Glider Flight Manual BS 1, issue June 1998, LBA approved

#### 2. Maintenance Manual

- Maintenance manual BS 1, issue June 1998
- Manuals for the Tost Releases, latest approved version
- Operating Instructions for the braking parachute for sailplanes, issue November 1968

#### A.V. Notes

- Manufacturing is confined to industrial production. The certification is limited to S/N 6, 10, 11, 13, 14, and 20
- 2. All parts exposed to sun radiation except the areas for markings and registration must have a white colour surface
- 3. Before final registration compliance has to be shown with the "Amendment to the type definition of the BS1" during a full scale inspection.
- 4. Full inspection according to A.V.3 as well as major repair of the type are only allowed to:

Glasfaser Flugzeug-Service GmbH

Hofener Weg

72582 Grabenstetten

Germany

5. In addition to A.IV.2.: Service Bulletin 1-2005 of Company Glasfaser-Flugzeug-Service GmbH; Accepted repair methods according to EU-VO 1702/2003, Part 21, subpart M.



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#### SECTION B: H 301 "LIBELLE"

#### B.I. General

1. Type/Model

1.1 Type Glasflügel Sailplanes

H301 "Libelle" 1.2 Model

Sailplane - Utility "U" 2. Airworthiness Category

3. Manufacturer Fa. Glasflügel Ing. Eugen Hänle

7311 Schlattstall

Germany

4. Type Certification Application Date 23 September 1963

5. State of Design Authority Germany

6. State of Design Authority Type Certificate Date 19. August 1965

7. EASA Type Certification Date 10 July 2008

#### B.II. **EASA Certification Basis**

1. Reference Date for determining the applicable requirements Defined by LBA letter 3 -

251/Tgb.-Nr- 3676/63, dated

October 01st 1963

2. Airworthiness Requirements

Design Specification (BVS, book 1 to 3) in combination

with

 British Civil Airworthiness Requirements (BCAR) Section E "Gliders", Subsection 2

"Flight"

Standards for Structural Substantiation of Sailplane Components consisting of Glass Fibre Reinforced Plastics, issue 1965

None

None

None

None

5. Equivalent Safety Findings 6. Environmental Protection

3. Special Conditions

4. Exemptions



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# **B.III.** <u>Technical Characteristics and Operational Limitations</u>

1. Type Design Definition

3. Equipment

2. Description

4. Dimensions

5. Launching Hooks:

Drawings, list of drawings, manufacturing instructions for H 301 DVL/PfL-checked, August 03<sup>rd</sup> 1965

Single seater, mid-wing sailplane, all composite construction, flaps, air brake. Normal tail unit, springmounted retractable landing gear

Min. Equipment:

- 1 Air speed indicator (up to 250 km/h)
- 1 Altimeter
- 1 4-Point safety harness (symmetrical)
- 1 Parachute or back cushion (thickness approx. 10cm/3.94 in when compressed)

Additional Equipment refer to Flight and Maintenance Manual

Wing Span 15 m

- 1) Special hook "SH72", LBA Datasheet No. 60.230/3
- 2) Nose tow hook "E72", LBA Datasheet No. 60.230/1
- 3) Nose tow hook "E75", LBA Datasheet No. 60.230/1
- 4) Nose tow hook "E85", LBA Datasheet No. 60.230/1

Note:

Tow hook 2,3,4 optional Tow hook 4 see B.V.6

6. Weak links

For winch launching max. 670 daN For Aero towing max. 450 daN

7. Air Speeds

 $\begin{array}{ccc} \text{Manoeuvring Speed $v_A$} & 175 \text{ km/h} \\ \text{Never Exceed Speed $v_{NE}$} & 200 \text{ km/h} \\ \text{Maximum permitted speeds} & & & \\ & \text{With flaps at -4, 0,} & 200 \text{ km/h} \\ & \text{With flaps at +4} & 140 \text{ km/h} \\ \end{array}$ 



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 $\begin{array}{lll} \text{With flaps at +3} & 155 \text{ km/h} \\ \text{With flaps at +2} & 170 \text{ km/h} \\ \text{With flaps at +1} & 185 \text{ km/h} \\ \text{In rough air} & 175 \text{ km/h} \\ \text{Winch launching } v_W & 120 \text{ km/h} \\ \text{Aero Towing } v_T & 140 \text{ km/h} \\ \end{array}$ 

8. Approved Operations Capability Approved for VFR-flying in

daytime

9. Maximum Masses

Max. Mass 300kg
Max. Mass of Non-Lifting Part 200kg

10. Centre of Gravity Range

Forward Limit 215 mm aft of datum point Rearward Limit 354 mm aft of datum point

11. Datum Wing leading edge y=425 mm

from the centerline

12. Control surface deflections Refer to Maintenance Manual

13. Levelling Means Wedge 100:7 on rear top

fuselage to be horizontal

14. Minimum Flight Crew15. Maximum Passenger Seating Capacity0

#### **B.IV.** Operating and Service Instructions

# 1. Flight Manual

- Glider Flight Manual H301 "Libelle", issue May 1965, DVL/PfL-checked
- Replacement pages to the Glider Flight Manual H301 "Libelle" initiated by Service Bulletins
- Limitation placard
- Trim sheet

#### 2. Maintenance Manual

- Service Manual H301 "Libelle"
- Repair instruction U.Hänle, Fiberglas-Flugzeug-Flick-Fibel
- Manual for the Tost Releases, latest approved version
- Operating Instructions for the braking parachute for sailplanes, issue November 1968 (if installed)



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# **B.V.** Notes

- 1. Manufacturing is confined to industrial production
- 2. All parts exposed to sun radiation exept the areas for markings and registration must have a white coloured surface.
- 3. Qualified for cloud flying according to the Flight Manual
- 4. The Certification belongs to S/N 2 up to 41 with te requirement that the modification for the fuselage No.8 has been performed.
- 5. The use of a braking parachute for sailplanes is allowed, if modification No. 14 of company Glasflügel, Ing. Eugen Hänle, DVL/PfL.checked has been preformed. This modification can only be performed at the manufacturer.
- 6. The installation of a nose tow hook "E85" is allowed according to the Service Bulletin No. 35 of company Streifeneder, LBA-approved.
- 7. In addition to B.IV.2.2. : Service Bulletin 1-2005 of Company Glasfaser Flugzeug-Service GmbH; Accepted repair methods according to EU-VO 1702/2003, Part 21, subpart M.
- 8. The increase of MTOM of max. 5% is possible according to the measures and procedures described in SB 301-42 of Company Glasfaser Flugzeug-Service GmbH, H. Streifeneder.



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#### SECTION C: H 301 B

#### C.I. General

1. Type/Model/Variant

1.1 Type Glasflügel Sailplanes

1.2 Model H301 B

2. Airworthiness Category Sailplane – Utility "U"

3. Manufacturer Fa. Glasflügel

Ing. Eugen Hänle 7311 Schlattstall

Germany

4. Type Certification Application Date 15 August 1968

5. State of Design Authority Germany

6. State of Design Authority Type Certificate Date 16 September 1968

7. EASA Type Certification Date 10 July 2008

#### C.II. <u>EASA Certification Basis</u>

1. Reference Date for determining the applicable requirements Defined by LBA letter I 30 –

251/68, dated August 19<sup>th</sup>

1968

2. Airworthiness Requirements

 Design Specification (BVS, book 1 to 3) in combination

with

British Civil Airworthiness
 Requirements (BCAR) Section

E "Gliders", Subsection 2

"Flight"

Standards for Structural
 Substantiation of Sailplane
 Components consisting of
 Glass Fibre Reinforced

Plastics, issue 1965

3. Special Conditions None

4. Exemptions None

5. Equivalent Safety Findings None

6. Environmental Protection None



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# C.III. Technical Characteristics and Operational Limitations

1. Type Design Definition

2. Description

3. Equipment

- 4. Dimensions
- 5. Launching Hooks

- Drawings, list of drawings, manufacturing instructions for H 301 DVL/PfL-checked, August 03<sup>rd</sup> 1965
- List of modifications incooperated into the variant H301 B (note, dated September 17<sup>th</sup> 1968)

Single seater, mid-wing sailplane, all composite construction, flaps, air brake, braking parachute in the rudder. Normal tail unit, spring mounted retractable landing gear.

# Min. Equipment:

- 1 Air speed indicator (up to 265 km/h)
- 1 Altimeter
- 1 4-Point safety harness (symmetrical)
- 1 Parachute or back cushion per person (thickness approx.. 10cm/3.94 in when compressed)

Additional Equipment refer to Flight and Maintenance Manual

Wing Span 15 m

- 1) Special hook "SH72", LBA Datasheet No. 60. 230/3
- 2) Nose tow hook "E72", LBA Datasheet No. 60.230/1
- 3) Nose tow hook "E75", LBA Datasheet No. 60.230/1
- 4) Nose tow hook "E85", LBA Datasheet No. 60.230/1

Note:

Tow hook 2,3,4 optional Tow hook 4 see C.V.5



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#### 6. Weak links

For winch launching max. 670 daN 450 daN For aero towing max.

#### 7. Air Speeds

Manoeuvring Speed v<sub>A</sub> 150 km/h Never Exceed Speed V<sub>NE</sub> 200 km/h

Maximum permitted speeds

With flaps at -4, 0, 200 km/h With flaps at +4 140 km/h With flaps at +3 155 km/h With flaps at +2 170 km/h With flaps at +1 185 km/h Winch launching vw 120 km/h Aero Towing v<sub>T</sub> 140 km/h

8. Approved Operations Capability Approved for VFR-flying in

daytime

9. Maximum Masses

Max. Mass 300kg 200kg Max. Mass of Non-Lifting Part

10. Centre of Gravity Range

**Forward Limit** 215 mm aft of datum point **Rearward Limit** 354 mm aft of datum point

11. Datum Wing leading edge y=425 mm

from the centerline

12. Control surface deflections Refer to Maintenance Manual

13. Levelling Means Wedge 100:7 on rear top

fuselage to be horizontal

14. Minimum Flight Crew 1 0

15. Maximum Passenger Seating Capacity

#### C.IV. **Operating and Service Instructions**

# 1. Flight Manual

- Glider Flight Manual H301 "Libelle", issue May 1965, DVL/PfL-checked, with page 11a
- Replacement pages to the Glider Flight Manual H301 "Libelle" initiated by Service **Bulletins**
- Limitation placard
- Trim sheet

#### 2. Maintenance Manual

- Service Manual H301 "Libelle" with data sheet for modified control surface deflections.
- Repair instruction U.Hänle, Fiberglas-Flugzeug-Flick-Fibel
- Manual for the Tost Releases, latest approved version
- Operating Instructions for the braking parachute for sailplanes, issue November 1968 (if installed)



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#### C.V. Notes

1. Manufacturing is confined to industrial production

- 2. All parts exposed to sun radiation exept the areas for markings and registration must have a white coloured surface.
- 3. Qualified for cloud flying according to the Flight Manual
- 4. The Certification is valid beginning with S/N 42
- 5. The installation of a nose tow hook "E85" is allowed according to the Service Bulletin No. 35 of company Streifeneder, LBA-approved.
- In Addition to C.IV.2.2: Service Bulletin 1-2005 of Company Glasfaser Flugzeug-Service GmbH; Accepted repair methods according to EU-VO 1702/2003, Part 21, subpart M
- 7. The increase of MTOW of max. 5% is possible according to the measures and procedures described in SB 301-42 of Company Glasfaser Flugzeug-Service GmbH, H. Streifeneder.



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#### SECTION D: H 301 SERIAL NO.1

#### D.I. General

1. Type/Model/Variant

1.1 TypeGlasflügel Sailplanes1.2 ModelH301 serial No. 1

2. Airworthiness Category Sailplane – Utility "U"

3. Manufacturer Fa. Glasflügel

Ing. Eugen Hänle 7311 Schlattstall

Germany

4. Type Certification Application Date5. State of Design Authority6 Germany

6. State of Design Authority Type Certificate Date 07 April 1967

7. EASA Type Certification Date 10 July 2008

#### D.II. <u>EASA Certification Basis</u>

1. Reference Date for determining the applicable requirements Defined by LBA letter I 30 –

251/67, dated April 07<sup>th</sup> 1967 2. Airworthiness Requirements

Design Specification (BVS, book 1 to 3) in combination

with

British Civil Airworthiness
 Requirements (BCAR) Section
 E "Gliders", Subsection 2

"Flight"

Standards for Structural
 Substantiation of Sailplane
 Components consisting of
 Glass Fibre Reinforced
 Plastics issue 1965

3. Special Conditions None

4. Exemptions None

5. Equivalent Safety Findings

6. Environmental Protection

None

# D.III. <u>Technical Characteristics and Operational Limitations</u>

1. Type Design Definition

Collection of blue prints of the Type, DVL/PfL-checked,

dated March 22<sup>nd</sup> 1967



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TCDS No.:EASA.A.241 Issue: 06

2. Description

3. Equipment

- 4. Dimensions
- 5. Launching Hooks

6. Weak links:

For aero towing

7. Air Speeds

Single seater, mid-wing sailplane, all composite construction, flaps, air brake, braking parachute in the rudder. Normal tail unit, spring mounted retractable landing gear.

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#### Min. Equipment:

- 1 Air speed indicator (up to 250 km/h)
- 1 Altimeter
- 1 4-Point safety harness (symmetrical)
- 1 Parachute or back cushion (thickness approx... 10cm/3.94 in when compressed)

Additional Equipment refer to Flight and Maintenance Manual

Wing Span 15 m

- 1) Special hook "SH72", LBA Datasheet N. 60.230/3
- 2) Nose tow hook "E72", LBA Datasheet No. 60.230/1
- 3) Nose tow hook "E75", LBA Datasheet No. 60.230/1
- 4) Nose tow hook "E85", LBA Datasheet No. 60.230/1

#### Note:

175 km/h

200 km/h

Tow hook 2,3,4 optional Tow hook 4 see D.V.6

	max. 450 daN

Never Exceed Speed v<sub>NE</sub> Maximum permitted speeds

Manoeuvring Speed v<sub>A</sub>

With flaps at 0,-3 200 km/h With flaps at +4 140 km/h With flaps at +3 155 km/h With flaps at +2 170 km/h With flaps at +1 185 km/h In rough air v<sub>RA</sub> 175 km/h Aero Towing v<sub>T</sub> 140 km/h

8. Approved Operations Capability

Approved for VFR-flying in daytime



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9. Maximum Masses

Max. Mass 300kg
Max. Mass of Non-Lifting Part 200kg

10. Centre of Gravity Range

Forward Limit 255 mm aft of datum point Rearward Limit 395 mm aft of datum point

The above mentioned data belongs to the c.g. during flight.

11. Datum Wing leading edge y=425 mm

from the centerline

12. Control surface deflections Refer to Maintenance Manual

13. Levelling Means wing chord at y = 425 mm

horizontal or wedge 100:5,0 on rear top fuselage to be

horizontal

14. Minimum Flight Crew 1

15. Maximum Passenger Seating Capacity 0

#### **D.IV.** Operating and Service Instructions

#### 1. Flight Manual

- Glider Flight Manual H301 S/N 1, issue March 1967, DVL/PfL-checked, with page 11a
- Replacement pages to the Glider Flight Manual H301 initiated by Service Bulletins
- Limitation placard
- Trim sheet

# 2. Maintenance Manual

- Service Manual H301, Werk-Nr. 1
- Repair instruction U.Hänle, Fiberglas-Flugzeug-Flick-Fibel
- Manual for the Tost Releases, latest approved version
- Operating Instructions for the braking parachute for sailplanes, issue November 1968

#### D.V. Notes

- 1. Manufacturing is confined to industrial production
- 2. All parts exposed to sun radiation exept the areas for markings and registration must have a white coloured surface.
- 3. The Certification is limited to S/N 1
- 4. Qualified for cloud flying according to the Flight Manual
- 5. Winch launching is not allowed
- 6. The installation of a nose tow hook "E85" is allowed according to the Service Bulletin No. 35 of company Streifeneder, LBA-approved.
- 7. In addition to D.IV.2.2. : Service Bulletin No.35 of Company Glasfaser Flugzeug-Service GmbH; Accepted repair methods according to EU-VO 1702/2003, Part 21, subpart M



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#### **SECTION E: STANDARD LIBELLE**

#### E.I. General

3. Manufacturer

1. Type/Model/Variant

1.1 Type Glasflügel Sailplanes1.2 Model Standard Libelle

The world and the second secon

2. Airworthiness Category Sailplane – Utility "U"

Ing. Eugen Hänle 7311 Schlattstall

Fa. Glasflügel

Germany

4. Type Certification Application Date 16 August 1967

5. State of Design Authority Germany

6. State of Design Authority Type Certificate Date 22 October 1968
7. EASA Type Certification Date 10 July 2008

#### E.II. <u>EASA Certification Basis</u>

1. Reference Date for determining the applicable requirements

Defined by LBA letter I 30 – 251/67, dated August 25<sup>th</sup>

1967

2. Airworthiness Requirements

 Airworthiness Requirements for Sailplanes – (LFS), issue 1966

Joint Airworthiness
 Requirements for Sailplanes
 and Powered Sailplanes (JAR 22), issue 27<sup>th</sup> 1989 (Change 4 of the English original Issue), with JAR 22.375 (Winglets) from amendment 22/90/1 dated February 12<sup>th</sup> 1991 (see

E.V.7)

 Standards for Structural Substantiation of Sailplane Components consisting of Glass Fibre Reinforced Plastics, issue March 1965

3. Special Conditions

4. Exemptions

5. Equivalent Safety Findings

6. Environmental Protection

None None None None



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# E.III. <u>Technical Characteristics and Operational Limitations</u>

1. Type Design Definition

2. Description

3. Equipment

- 4. Dimensions
- 5. Launching Hooks

6. Weak links

For winch launching

For aero towing

Drawings, list of drawings, marked as for H 201, LBA-Approved, October 18<sup>th</sup> 1968

Single seater, mid-wing sailplane, all composite construction, air brake, wing fixed profile, optional conventional wing tip or winglets (see E.V.7). Normal tail unit, fixed or retractable landing gear.

Min. Equipment:

- 1 Air speed indicator (up to 250 km/h)
- 1 Altimeter
- 1 4-Point safety harness (symmetrical)
- 1 Parachute or back cushion per person (thickness approx.. 10cm/3.94 in when compressed)

Additional Equipment refer to Flight and Maintenance Manual

Wing Span 15 m

- 1) Special hook "SH72", LBA Datasheet No. 60.230/3
- 2) Nose tow hook "E72", LBA Datasheet No. 60.230/1
- 3) Nose tow hook "E75", LBA Datasheet No. 60.230/1
- 4) Nose tow hook "E85", LBA Datasheet No. 60.230/1

Note:

Tow hook 2,3,4 optional Tow hook 4 see E.V.6

max. 500 daN max. 500 daN



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7. Air Speeds

 $\begin{array}{ll} \text{Manoeuvring Speed } v_A & \text{150 km/h} \\ \text{Never Exceed Speed } v_{\text{NE}} & \text{220 km/h} \end{array}$ 

Maximum permitted speeds

 $\begin{array}{ll} \text{In rough air } v_{\text{RA}} & \text{150 km/h} \\ \text{In winch-launch } v_{\text{W}} & \text{120 km/h} \\ \text{in aero-tow } v_{\text{T}} & \text{150 km/h} \\ \end{array}$ 

8. Approved Operations Capability Approved for VFR-flying in

daytime.

9. Maximum Masses

Max. Mass 290kg Max. Mass of Non-Lifting Part 200kg

10. Centre of Gravity Range

Forward Limit 244 mm aft of datum point Rearward Limit 348 mm aft of datum point

11. Datum Wing leading edge y=425 mm

from the centreline

12. Control surface deflections Refer to Maintenance Manual

13. Levelling Means Wedge 100:7 on rear top

fuselage to be horizontal

1

14. Minimum Flight Crew

15. Maximum Passenger Seating Capacity 0

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## **E.IV.** Operating and Service Instructions

#### 1. Flight Manual

- Glider Flight Manual "Standard Libelle", issue 1968, LBA-approved
- Replacement pages to the Glider Flight Manual "Standard Libelle" initiated by Service Bulletins
- Limitation placard
- Trim sheet

#### 2. Maintenance Manual

- Service Manual "Standard Libelle"
- Repair instruction U.Hänle, Fiberglas-Flugzeug-Flick-Fibel
- Manual for the Tost Releases, latest approved version

#### E.V. Notes

- 1. Manufacturing is confined to industrial production
- 2. All parts exposed to sun radiation exept the areas for markings and registration must have a white coloured surface.
- 3. Qualified for cloud flying according to the Flight Manual
- 4. Subsequent conversion into the variant « Standard Libelle 201 B » (without water ballast) is allowed, if the measures described in Service Bulletin No. 201-11 of Company Glasflügel are performed.
- 5. Subsequent conversion into the variant "Standard Libelle 201 B" (with water ballast) is allowed, if the measures described in Service Bulletin No. 201-10 of Company Glasflügel are performed.
- 6. The installation of a nose tow hook "E85" is allowed according to the Service Bulletin No. 35 of company Streifeneder, LBA-approved.
- 7. According to Service Bulletin No. 201-30 of Company H. Streifeneder, Glasfaser Flugzeugbau GmbH, LBA-approved, the use of winglets is allowed.
- In addition to E.IV.2.2.: Service Bulletin No.35 of Company Glasfaser Flugzeug-Service GmbH; Accepted repair methods according to EU-VO 1702/2003, Part 21, subpart M
- 9. According to Service Bulletin No. 201-42 of Company H. Streifeneder, Glasfaser Flugzeugbau GmbH, EASA-approved, the use of the modified winglets is allowed.



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#### **SECTION F: STANDARD LIBELLE 201 B**

#### F.I. General

1. Type/Model/Variant

1.1 Type Glasflügel Sailplanes1.2 Model Standard Libelle 201 B

2. Airworthiness Category Sailplane – Utility "U"

3. Manufacturer Fa. Glasflügel

Ing. Eugen Hänle 7311 Schlattstall

Germany

4. Type Certification Application Date 13 September 1971

5. State of Design Authority
 6. State of Design Authority Type Certificate Date
 7. EASA Type Certification Date
 92 June 1972
 10 July 2008

#### F.II. <u>EASA Certification Basis</u>

1. Reference Date for determining the applicable requirements

Defined by LBA letter I 30 – 251/71, dated September 21<sup>st</sup> 1971

2. Airworthiness Requirements

 Airworthiness Requirements for Sailplanes – (LFS), issue 1966

Joint Airworthiness
 Requirements for Sailplanes
 and Powered Sailplanes (JAR
 22), issue 27<sup>th</sup> 1989 (Change 4
 of the English original Issue),
 with JAR 22.375 (Winglets)
 from amendment 22/90/1
 dated February 12<sup>th</sup> 1991 (see

E.V.7)

 Standards for Structural Substantiation of Sailplane Components consisting of Glass Fibre Reinforced Plastics, issue March 1965

3. Special Conditions

4. Exemptions

5. Equivalent Safety Findings

6. Environmental Protection

None None None None



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## F.III. Technical Characteristics and Operational Limitations

1. Type Design Definition

2. Description

3. Equipment

- 4. Dimensions
- 5. Launching Hooks

6. Weak links:

For winch launching For aero towing

Drawings and list of drawings, LBA-Approved May 30<sup>th</sup> 1972

Single seater, mid-wing sailplane, all composite construction, air brake, wing with fixed profile, optional conventional wing tip or winglets (see F.V.8). Normal tail unit, fixed landing gearwith break, or retractable landing gear with break.

Min. Equipment:

- 1 Air speed indicator (50 up to 265 km/h)
- 1 Altimeter
- 1 4-Point safety harness (symmetrical)
- 1 Parachute or back cushion per person (thickness approx.. 10cm/3.94 in when compressed)

Additional Equipment refer to Flight and Maintenance

Manual

Wing Span 15 m Optional (see F.V.6) 17m

- 1) Special Hook "SH72", LBA Datasheet No. 60.230/3
- 2) Nose tow hook "E72", LBA Datasheet No. 60.230/1
- 3) Nose tow hook "E75", LBA Datasheet No. 60.230/1
- 4) Nose tow hook "E85", LBA Datasheet No. 60.230/1 Note:

Tow hook 2,3,4 optional Tow hook 4 see F.V.7

max. 500 daN max. 500 daN



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7. Air Speeds

 $\begin{array}{ll} \text{Manoeuvring Speed } v_{\text{A}} & \text{150 km/h} \\ \text{Never Exceed Speed } v_{\text{NE}} & \text{250 km/h} \end{array}$ 

Maximum permitted speeds

 $\begin{array}{ll} \text{In rough air } v_{\text{RA}} & \text{150 km/h} \\ \text{In winch-launch } v_{\text{W}} & \text{120 km/h} \\ \text{in aero-tow } v_{\text{T}} & \text{150 km/h} \\ \end{array}$ 

8. Approved Operations Capability Approved for VFR-flying in

daytime.

9. Maximum Masses

Max. Mass350kgMax. Mass of Non-Lifting Part210kg

10. Centre of Gravity Range

Forward Limit 244 mm aft of datum point Rearward Limit 348 mm aft of datum point

11. Datum Wing leading edge y=425 mm

from the centreline

12. Control surface deflections Refer to Maintenance Manual

13. Levelling Means Wedge 100:7 on rear top

fuselage to be horizontal

14. Minimum Flight Crew 1

15. Maximum Passenger Seating Capacity 0

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## F.IV. Operating and Service Instructions

#### 1. Flight Manual

- Glider Flight Manual "Standard Libelle 201 B", issue 1968, LBA-approved, with supplement to the Flider Flight Manual "Standard Libelle 201 B" issue April 1972, LBA-approved.
- Replacement pages to the Glider Flight Manual "Standard Libelle 201 B" initiated by Service Bulletins
- Limitation placard
- Trim sheet

#### 2. Maintenance Manual

- Service Manual "Standard Libelle 201 B"
- Repair instruction U.Hänle, Fiberglas-Flugzeug-Flick-Fibel
- Manual for the Tost Releases, latest approved version

# F.V. Notes

- 1. Manufacturing is confined to industrial production
- 2. All parts exposed to sun radiation exept the areas for markings and registration must have a white coloured surface.
- 3. Qualified for cloud flying according to the Flight Manual
- 4. Sunsequent installation of water ballast tanks is allowed, if the measures described in Service Bulletin No.201-12 of Company Glasflügel are performed.
- 5. Subsequent installation of landing flaps according to the Service Bulletin No. 201 R-1 of Mr. J. Renner, Am Gerstenfeld 2, 5561 Greimerath is allowed.
- 6. The optional modification to a wing span of 17,00 m according to the Service Bulletin No. 201 R-2 of Mr. J. Renner, Am Gerstenfeld 2, 5561 Greimrath is allowed.
- 7. The installation of a nose tow hook "E85" is allowed according to the Service Bulletin No. 28 of company Streifeneder, LBA-approved.
- 8. According to Service Bulletin No. 201-30 of Company H. Streifeneder, Glasfaser Flugzeugbau GmbH, LBA-approved, the use of winglets is allowed.
- In addition to F.IV.2.2.: Service Bulletin 1-2005 of Company Glasfaser Flugzeug-Service GmbH; Accepted repair methods according to EU-VO 1702/2003, Part 21, subpart M.
- 10. According to Service Bulletin No. 201-42 of Company H. Streifeneder, Glasfaser Flugzeugbau GmbH, EASA-approved, the use of the modified winglets is allowed.



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# **SECTION G: STANDARD LIBELLE 203**

#### G.I. General

1. Type/Model/Variant

1.1 TypeGlasflügel Sailplanes1.2 ModelStandard Libelle 203

2. Airworthiness Category Sailplane – Utility "U"

3. Manufacturer Fa. Glasflügel Ing. Eugen Hänle

7311 Schlattstall

Germany

4. Type Certification Application Date 02 December 1971

5. State of Design Authority Germany

6. State of Design Authority Type Certificate Date 12 February 1976
7. EASA Type Certification Date 10 July 2008

#### G.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements

Defined by LBA letter I 30 – 251/71, dated December 23<sup>rd</sup> 1971

2. Airworthiness Requirements

Airworthiness
 Requirements for
 Sailplanes – (LFS), issue
 1966

 Standards for Structural Substantiation of Sailplane Components consisting of Glass Fibre Reinforced Plastics, issue March 1965

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None

3. Special Conditions

4. Exemptions None

5. Equivalent Safety Findings None

6. Environmental Protection None



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### **G.III.** Technical Characteristics and Operational Limitations

1. Type Design Definition

2. Description

3. Equipment

- 4. Dimensions
- 5. Launching Hooks

Drawings and list of drawings, LBA-Approved May 30<sup>th</sup> 1972

Single seater, mid-wing sailplane, all composite construction, air brake, wing with fixed profile, conventional wing tip, water ballast in the wing, T-tail, retractable landing gear with break.

Min. Equipment:

- 1 Air speed indicator (50 up to 265 km/h)
- 1 Altimeter
- 1 4-Point safety harness (symmetrical)
- 1 Parachute or back cushion per person (thickness approx.. 10cm/3.94 in when compressed)

Additional Equipment refer to Flight and Maintenance

Manual

Wing Span 15 m

- 1) Special Hook "SH72", LBA Datasheet No. 60.230/3
- 2) Nose tow hook "E72", LBA Datasheet No. 60.230/1
- 3) Nose tow hook "E75", LBA Datasheet No. 60.230/1
- 4) Nose tow hook "E85", LBA Datasheet No. 60.230/1

Note:

Tow hook 2,3,4 optional Tow hook 4 see G.V.5

6. Weak links: For winch launching max. 500 daN For aero towing max. 500 daN

7. Air Speeds

 $\begin{array}{ll} \text{Manoeuvring Speed } v_A & \text{150 km/h} \\ \text{Never Exceed Speed } v_{\text{NE}} & \text{255 km/h} \end{array}$ 

Maximum permitted speeds

 $\begin{array}{ll} \text{In rough air } v_{\text{RA}} & \text{150 km/h} \\ \text{In winch-launch } v_{\text{W}} & \text{120 km/h} \\ \text{in aero-tow } v_{\text{T}} & \text{150 km/h} \\ \end{array}$ 



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8. Approved Operations Capability Approved for VFR-flying in

daytime.

9. Maximum Masses

Max. Mass Mass of Non-Lifting Part 380kg 210kg

10. Centre of Gravity Range

Forward Limit 244 mm aft of datum point Rearward Limit 348 mm aft of datum point

11. Datum Wing leading edge y=425 mm

from the centreline

12. Control surface deflections Refer to Maintenance Manual

13. Levelling Means Wedge 100 : 5,2 on rear top

fuselage to be horizontal

14. Minimum Flight Crew 1

15. Maximum Passenger Seating Capacity 0

#### **G.IV.** Operating and Service Instructions

#### 1. Flight Manual

- Glider Flight Manual "Standard Libelle 203", issue 1974, LBA-approved.
- Replacement pages to the Glider Flight Manual "Standard Libelle 203" initiated by Service Bulletins
- Limitation placard
- Trim sheet

#### 2. Maintenance Manual

- Service Manual "Standard Libelle 203"
- Repair instruction U.Hänle, Fiberglas-Flugzeug-Flick-Fibel
- Manual for the Tost Releases, latest approved version

#### G.V. Notes

- 1. Manufacturing is confined to industrial production
- 2. All parts exposed to sun radiation exept the areas for markings and registration must have a white coloured surface.
- 3. Qualified for cloud flying according to the Flight Manual
- 4. The certification is limited to the S/N 1 and 2 and is linked to the accomplishment of Service Bulletin No. 203/1
- 5. The installation of a nose tow hoko "E85" is allowed according to the Service Bulletin No. 28 of company Streifeneder, LBA-approved.
- 6. In addition to G.IV.2.2.: Service Bulletin 1-2005 of Company Glasfaser Flugzeug-Service GmbH; Accepted repair methods according to EU-VO 1702/2003, Part 21, subpart M.



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#### **SECTION H: KESTREL**

#### H.I. General

1. Type/ Model/Variant

1.1 Type Glasflügel Sailplanes

1.2 Model Kestrel

2. Airworthiness Category Sailplane - Utility "U"

3. Manufacturer Fa. Glasflügel

> Ing. Eugen Hänle 7311 Schlattstall

Germany

4 Type Certification Application Date 05 April 1968

5. State of Design Authority Germany

6. State of Design Authority Type Certificate Date 05 February 1970

7. EASA Type Certification Date 10 July 2008

#### H.II. **EASA Certification Basis**

1. Reference Date for determining the applicable requirements Defined by LBA letter I 30 -

276/68, dated February 11th

1968

2. Airworthiness Requirements

Airworthiness Requirements for Sailplanes – (LFS), issue

1966

Standards for Structural Substantiation of Sailplane Components consisting of Glass Fibre Reinforced Plastics, issue

March 1965

None 3. Special Conditions 4. Exemptions None 5. Equivalent Safety Findings None 6. Environmental Protection None

#### H.III. **Technical Characteristics and Operational Limitations**

1. Type Design Definition List of drawings for Type 401, LBA-Approved February 4th

1970



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2. Description

3. Equipment

4. Dimensions

5. Launching Hooks

Single seater, mid-wing sailplane, all composite glasfibre construction, flaps, air brake, braking parachute, conventional wing tip, water ballast in the wing, T-tail, retractable landing gear with break.

Min. Equipment:

- 1 Air speed indicator (up to 300 km/h)
- 1 Altimeter
- 1 4-Point harness (symmetrical)
- 1 Parachute or back cushion per person

(thickness approx.. 10cm/3.94 in when compressed)

Additional Equipment refer to Flight and Maintenance Manual

Wing Span 17,00 m

- 1) Special Hook "SH72", LBA Datasheet No. 60.230/3
- 2) Nose tow hook "E72", LBA Datasheet No. 60.230/1
- 3) Nose tow hook "E75", LBA Datasheet No. 60.230/1
- 4) Nose tow hook "E85", LBA Datasheet No. 60.230/1

Note:

Tow hook 2,3,4 optional Tow hook 4 see H.V.5

For winch launching max. 600 daN For aero towing max. 500 daN

7. Air Speeds

6. Weak links:

150 km/h Manoeuvring Speed v<sub>A</sub> Never Exceed Speed v<sub>NE</sub> 250 km/h Maximum permitted speeds

> With flaps at -1, .2 250 km/h With flaps at +1,0 200 km/h With flaps at +2 150 km/h With flaps at L 120 km/h 150 km/h In rough air v<sub>RA</sub> In winch-launch vw 130 km/h in aero-tow  $v_T$ 150 km/h

8. Approved Operations Capability Approved for VFR-flying in daytime.

9. Maximum Masses

Max. Mass 400kg Max. Mass of Non-Lifting Part 239kg



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# 10. Centre of Gravity Range

Forward Limit 287 mm aft of datum point 379 mm aft of datum point 11. Datum Wing leading edge y=500 mm

from the centreline

1

12. Control surface deflections Refer to Maintenance Manual

13. Levelling Means

Wedge 100:4,4 on rear top
fuselage to be horizontal

14. Minimum Flight Crew

15. Maximum Passenger Seating Capacity 0

#### H.IV. Operating and Service Instructions

### 1. Flight Manual

- Glider Flight Manual "Kestrel", issue February 1970, LBA-approved.
- Limitation placard
- Trim sheet

#### 2. Maintenance Manual

- Service Manual "Kestrel"
- Repair instruction U.Hänle, Fiberglas-Flugzeug-Flick-Fibel
- Manual for the Tost Releases, latest approved version

# H.V. Notes

- 1. Manufacturing is confined to industrial production.
- 2. All parts exposed to sun radiation exept the areas for markings and registration must have a white coloured surface.
- 3. Qualified for cloud flying according to the Flight Manual
- 4. For S/N which are modified according to Service Bulletin 401-14, differing from H.III.9 the max Mass of Non-Lifting Parts is 250 kg
- 5. The installation of a nose tow hook "E85" is allowed according to the Service Bulletin No. 22 of company Streifeneder, LBA-approved.
- 6. In addition to H.IV.2.2: Service Bulletin 1-2005 of Company Glasfaser Flugzeug-Service GmbH; Accepted repair methods according to EU-VO 1702/2003, Part 21, subpart M.
- 7. The optional use of winglets is allowed by major change approval 10088345

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# **SECTION I: GLASFLÜGEL 604**

#### I.I. General

1. Type/ Model/Variant

1.1 Type Glasflügel Sailplanes

1.2 Model Glasflügel 604

2. Airworthiness Category Sailplane – Utility "U"

3. Manufacturer Fa. Glasflügel

Ing. Eugen Hänle 7311 Schlattstall

Germany

4. Type Certification Application Date 17 March 1970

5. State of Design Authority Germany

6. State of Design Authority Type Certificate Date 06 September 1982

7. EASA Type Certification Date 10 July 2008

#### I.II. <u>EASA Certification Basis</u>

1. Reference Date for determining the applicable requirements Define

Defined by LBA letter I 30 – 281/70, dated March 14<sup>th</sup> 1970

2. Airworthiness Requirements

Airworthiness
 Requirements for
 Sailplanes – (LFS), issue
 1966

 Standards for Structural Substantiation of Sailplane Components consisting of Glass Fibre Reinforced Plastics, issue

March 1965

3. Special Conditions None

4. Exemptions None
5. Equivalent Safety Findings None

6. Environmental Protection None

# I.III. <u>Technical Characteristics and Operational Limitations</u>

1. Type Design Definition

List of drawings, LBA-Approved September 1982



#### 2. Description

Single seater, mid-wing sailplane, all composite glasfibre construction, flaps, air brake only on the upper wing surface, braking parachute, conventional wing tips, water ballast in the wings, T-tail, retractable landing gear with break.

#### 3. Equipment

#### Min. Equipment:

- 1 Air speed indicator (up to 300 km/h)
- 1 Altimeter
- 1 4-Point harness (symmetrical)
- 1 Parachute or back cushion per person
   (thickness approx. 10cm/2.04 in

(thickness approx.. 10cm/3.94 in when compressed)

Additional Equipment refer to Flight and Maintenance Manual

Wing Span 22,00 m

- 4. Dimensions
- 5. Launching Hooks

- 1) Special Hook "SH72", LBA Datasheet No. 60.230/3
- 2) Nose tow hook "E72", LBA Datasheet No. 60.230/1
- 3) Nose tow hook "E75", LBA Datasheet No. 60.230/1
- 4) Nose tow hook "E85", LBA Datasheet No. 60.230/1

#### Note:

150 km/h

Tow hook 2,3,4 optional Tow hook 4 see I.V.6

### 6. Weak links:

For winch launching max. 850 daN For aero towing max. 500 daN

### 7. Air Speeds

Never Exceed Speed  $v_{NE}$  250 km/h Maximum permitted speeds With flaps at -1, -2 250 km/h With flaps at +1, 0 200 km/h With flaps at +2 150 km/h With flaps at L 120 km/h

 $\begin{array}{lll} \text{In rough air } v_{\text{RA}} & 150 \text{ km/h} \\ \text{Braking parachute ejection up to} & 250 \text{ km/h} \\ \text{In winch-launch } v_{\text{W}} & 130 \text{ km/h} \\ \text{in aero-tow } v_{\text{T}} & 150 \text{ km/h} \\ \end{array}$ 

8. Approved Operations Capability

Manoeuvring Speed v<sub>A</sub>

Approved for VFR-flying in daytime.



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9. Maximum Masses

Max. Mass
Max. Mass of Non-Lifting Part

300kg

10. Centre of Gravity Range

Forward Limit 378 mm aft of datum point Rearward Limit 455 mm aft of datum point

11. Datum Wing leading edge y=500 mm

from the centreline

12. Control surface deflections Refer to Maintenance Manual

13. Levelling Means Wedge 100:4,4 on rear top

fuselage to be horizontal

14. Minimum Flight Crew 1

15. Maximum Passenger Seating Capacity 0

#### I.IV. Operating and Service Instructions

# 1. Flight Manual

- Glider Flight Manual "604", issue November 1973, LBA-approved.
- Replacement pages to the Glider Flight Manual "604" initiated by Service Bulletins.
- Limitation placard.
- Trim sheet.

#### 2. Maintenance Manual

- Service Manual "Glasflügel 604"
- Repair instruction U.Hänle, Fiberglas-Flugzeug-Flick-Fibel
- Manual for the Tost Releases, latest approved version

#### I.V. Notes

- 1. Manufacturing is confined to industrial production
- 2. All parts exposed to sun radiation exept the areas for markings and registration must have a white coloured surface.
- 3. Qualified for cloud flying according to the Flight Manual
- 4. Manufacturing is limited to S/N 1 up to 10
- 5. The measures according to Modification Bulletin dated February 04th 1974 of Company Glasflügel have to be performed
- 6. The installation of a nose tow hook "E85" is allowed according to the Service Bulletin No. 4 of company Streifeneder, LBA-approved.
- 7. In addition to I.IV.2.2: Service Bulletin 1-2005 of Company Glasfaser Flugzeug-Service GmbH; Accepted repair methods according to EU-VO 1702/2003, Part 21, subpart M.



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#### **SECTION J: CLUB LIBELLE 205**

#### J.I. General

1. Type/Model/ Variant

1.1 Type Glasflügel Sailplanes 1.2 Model Club Libelle 205

Sailplane - Utility "U" 2. Airworthiness Category

3. Manufacturer Fa. Glasflügel

Ing. Eugen Hänle 7311 Schlattstall

Glasflügel Segelflugzeugbau Hollighaus & Hillenbrand

GmbH & Co. KG

7318 Lenningen/Württ. 1

4. Type Certification Application Date 22 September 1972

5. State of Design Authority Germany

6. State of Design Authority Type Certificate Date 28 October 1974

7. EASA Type Certification Date 10 July 2008

#### J.II. **EASA Certification Basis**

1. Reference Date for determining the applicable requirements

Defined by LBA letter I 30 -251/72, dated September 05<sup>th</sup> 1972

2. Airworthiness Requirements

- **Airworthiness Requirements** for Sailplanes - (LFS), issue 1966
- Joint Airworthiness Requirements for Sailplanes and Powered Sailplanes (JAR 22), issue 27th June 1989 (Change 4 of the English original Issue), with JAR 22.375 (Winglets) from amendment 22/90/1 dated 12<sup>th</sup> February 1991 (see J.V.6)
- Standards for Structural Substantiation of Sailplane Components consisting of Glass Fibre Reinforced Plastics, issue March 1965

3. Special Conditions

None



4. ExemptionsNone5. Equivalent Safety FindingsNone6. Environmental ProtectionNone

### J.III. Technical Characteristics and Operational Limitations

1. Type Design Definition List of drawings, LBA-Approved,

October 1974

2. Description Single seater, high wing sailplane, all

composite glasfibre construction, air brake at the trailing edge, optional conventional wing tips or winglets (see J.V.6), T-tail, spring mounted

landing gear with break.

3. Equipment Min. Equipment:

1 Air speed indicator (up to 250 km/h)

1 Altimeter

1 4-Point harness (symmetrical)

1 Parachute or back cushion per

person

(thickness approx.. 10cm/3.94 in

when compressed)

Additional Equipment refer to Flight

and Maintenance Manual

4. Dimensions Wing Span 15,00 m

1) Special Hook "SH72", LBA Datasheet No. 60.230/3

2) Nose tow hook "E72", LBA Datasheet No. 60.230/1

3) Nose tow hook "E75", LBA Datasheet No. 60.230/1

4) Nose tow hook "E85", LBA Datasheet No. 60.230/1

Note:

Tow hook 2,3,4 optional Tow hook 4 see J.V.5

6. Weak links: For winch launching max. 500 daN

For aero towing max. 500 daN

7. Air Speeds

5. Launching Hooks

 $\begin{array}{ll} \text{Manoeuvring Speed } v_{\text{A}} & \text{150 km/h} \\ \text{Never Exceed Speed } v_{\text{NE}} & \text{200 km/h} \end{array}$ 

Maximum permitted speeds

In rough air  $v_{RA}$  150 km/h
In winch-launch  $v_{W}$  120 km/h

in aero-tow  $v_T$  120 km/h
135 km/h

8. Approved Operations Capability Approved for VFR-flying in daytime.



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9. Maximum Masses

Max. Mass 350kg Max. Mass of Non-Lifting Part 225kg

10. Centre of Gravity Range

Forward Limit 256 mm aft of datum point Rearward Limit 380 mm aft of datum point

11. Datum Wing leading edge y=425 mm from

the centreline

12. Control surface deflections Refer to Maintenance Manual

13. Levelling Means Wedge 100:5,2 on rear top fuselage

to be horizontal

14. Minimum Flight Crew15. Maximum Passenger Seating Capacity0

#### J.IV. Operating and Service Instructions

#### 1. Flight Manual

- Glider Flight and Service Manual "Club Libelle 205", issue October 1974, LBAapproved.
- Replacement pages to the Glider Flight Manual "Club Libelle 205" initiated by Service Bulletins.
- Limitation placard.
- Trim sheet.

#### 2. Maintenance Manual

- Service Manual "Club Libelle 205"
- Repair instruction U.Hänle, Fiberglas-Flugzeug-Flick-Fibel
- Manual for the Tost Releases, latest approved version

#### J.V. Notes

- 1. Manufacturing is confined to industrial production
- 2. All parts exposed to sun radiation exept the areas for markings and registration must have a white coloured surface.
- 3. Qualified for cloud flying according to the Flight Manual
- 4. Qualified for basic aerobatics according to the Flight Manual
- 5. The installation of a nose tow hook "E85" is allowed according to the Service Bulletin No. 18 of company Streifeneder, LBA-approved.
- 6. According to Service Bulletin No. 205-21 of Company H. Streifeneder, Glasfaser Flugzeugbau GmbH, LBA-approved, the use of winglets is allowed.
- 7. In addition to J.IV.2.2.: Service Bulletin 1-2005 of Company Glasfaser Flugzeug-Service GmbH; Accepted repair methods according to EU-VO 1702/2003, Part 21, subpart M.
- 8. According to Service Bulletin No.205 28 of Company H.Streifeneder, Glasfaser Flugzeugbau GmbH, EASA-approved, the use of the modified Winglets is allowed.



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#### **SECTION K: HORNET**

#### K.I. General

1. Type/Model/ Variant

1.1 Type Glasflügel Sailplanes

1.2 Model Hornet

Sailplane - Utility "U" 2. Airworthiness Category

3. Manufacturer Glasflügel Segelflugzeugbau Hollighaus & Hillenbrand

GmbH & Co. KG

7318 Lenningen/Württ. 1

4. Type Certification Application Date 05 February 1974

5. State of Design Authority Germany

6. State of Design Authority Type Certificate Date 07 November 1975

July 10th 2008 7. EASA Type Certification Date

#### K.II. **EASA Certification Basis**

1. Reference Date for determining the applicable requirements

Defined by LBA letter I 30 -304/74, dated February 13<sup>th</sup>

1974

2. Airworthiness Requirements

 Airworthiness Requirements for Sailplanes - (LFS), issue 1966

None

Joint Airworthiness Requirements for Sailplanes and Powered Sailplanes (JAR 22), issue 27th June 1989 (Change 4 of the English original Issue), with JAR 22.375 (Winglets) from amendment 22/90/1 dated February 12<sup>th</sup> 1991 (see J.V.6)

Standards for Structural Substantiation of Sailplane Components consisting of Glass Fibre Reinforced Plastics, issue March 1965

3. Special Conditions

4. Exemptions None

5. Equivalent Safety Findings None 6. Environmental Protection None



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### K.III. Technical Characteristics and Operational Limitations

1. Type Design Definition

2. Description

3. Equipment

4. Dimensions

5. Launching Hooks

6. Weak links:

7. Air Speeds

Manoeuvring Speed v<sub>A</sub> Never Exceed Speed v<sub>NE</sub> Maximum permitted speeds

In rough air  $v_{RA}$  In winch-launch  $v_{W}$  in aero-tow  $v_{T}$ 

- 8. Approved Operations Capability
- 9. Maximum Masses

List of drawings, LBA-Approved, November 1975

Single seater, mid-wing sailplane, all composite glasfibre construction, air brake at the trailing edge, optional conventional wing tips or winglets (see K.V.8), water ballast tanks in the wings, T-tail, retractable landing gear with break.

Min. Equipment:

- 1 Air speed indicator (up to 300 km/h)
- 1 Altimeter
- 1 4-Point harness (symmetrical)
- 1 Parachute or back cushion per person

(thickness approx.. 10cm/3.94 in when compressed)

Additional Equipment refer to Flight and Maintenance Manual

Wing Span 15,00 m

- 1) Special Hook "SH72", LBA Datasheet No. 60.230/3
- 2) Nose tow hook "E72", LBA Datasheet No. 60.230/1
- 3) Nose tow hook "E75", LBA Datasheet No. 60.230/1
- 4) Nose tow hook "E85", LBA Datasheet No. 60.230/1

Note:

Tow hook 2,3,4 optional Tow hook 4 see K.V.7

For winch launching max. 500 daN For aero towing max. 500 daN

150 km/h 250 km/h

150 km/h 150 km/h 135 km/h

Approved for VFR-flying in daytime.

Max. Mass 420kg Max. Mass of Non-Lifting Part 225kg



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10. Centre of Gravity Range

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Forward Limit Rearward Limit

11. Datum

12. Control surface deflections

13. Levelling Means

14. Minimum Flight Crew

15. Maximum Passenger Seating Capacity

250 mm aft of datum point 375 mm aft of datum point Wing leading edge y=425 mm from the centreline Refer to Maintenance Manual Wedge 100:5,2 on rear top fuselage to be horizontal

1

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#### K.IV. Operating and Service Instructions

#### 1. Flight Manual

- Glider Flight and Service Manual "Hornet", issue October 1975, LBA-approved.
- Replacement pages to the Glider Flight Manual "Hornet" initiated by Service Bulletins.
- Limitation placard.
- Trim sheet.

#### 2. Maintenance Manual

- Service Manual "Hornet" (see above)
- Manual for the Tost Releases, latest approved version

#### K.V. Notes

- 1. Manufacturing is confined to industrial production
- 2. All parts exposed to sun radiation exept the areas for markings and registration must have a white coloured surface.
- 3. Qualified for cloud flying according to the Flight Manual
- 4. Qualified for basic aerobatics according to the Flight Manual
- 5. Compared to the serial production the following S/N have the defined major modification :
  - S/N 1: High wing sailplane; max. mass: 350 kg
  - S/N 2 : max. mass : 350 kg
  - S/N 4 : winch launching : not allowed
- 6. Compared to the serial production the S/N 89 has the following major modifications:
  - No water ballast; modified airbrake drive
  - Maximum permitted speeds :

Never Exceed Speed vNE: 200 km/hIn Winch-launch vW: 120 km/h

- Max. Mass: 350 kg
- Glider Flight and Service Manual « Hornet », issue October 1975, LBAapproved, modified in this matter.
- 7. The installation of a nose tow hook "E85" is allowed according to the Service Bulletin No. 15 of company Streifeneder, LBA-approved.
- 8. According to Service Bulletin No. 206-20 of Company H. Streifeneder, Glasfaser Flugzeugbau GmbH, LBA-approved, the use of winglets is allowed.
- 9. In addition to K.IV.2: Service Bulletin 1-2205 of Company Glasfaser Flugzeug-Service GmbH; Accepted repair methods according to EU-VO 1702/2003, Part 21, subpart M.
- 10. According to Service Bulletin No. 206-28 of Company H. Streifeneder, Glasfaser Flugzeugbau GmbH, EASA-approved, the use of modified Winglets is allowed.



#### **SECTION L: HORNET C**

#### L.I. General

1. Type/Model/Variant

1.1 Type Glasflügel Sailplanes

1.2 Model Hornet C

2. Airworthiness Category Sailplane – Utility "U"

3. Manufacturer Glasflügel Segelflugzeugbau

Hollighaus & Hillenbrand

GmbH & Co. KG

7318 Lenningen/Württ. 1

4. Type Certification Application Date 28 February 1978

5. State of Design Authority
 6. State of Design Authority Type Certificate Date
 7. EASA Type Certification Date
 Germany
 23 April 1980
 10 July 2008

#### L.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements Defined by LI

Defined by LBA letter I 3 – 304/79, dated March 29<sup>th</sup>

1979

2. Airworthiness Requirements

 Airworthiness Requirements for Sailplanes – (LFS), issue

1966

 Standards for Structural Substantiation of Sailplane Components consisting of Glass Fibre Reinforced Plastics, issue March 1965

3. Special Conditions None

4. Exemptions None
5. Equivalent Safety Findings None
6. Environmental Protection None

#### L.III. Technical Characteristics and Operational Limitations

1. Type Design Definition List of drawings, LBA-

Approved, April 1980

2. Description Single seater, mid-wing

sailplane, all composite construction, fuselage glas fibre, wing carbon fibre with water ballast tanks, air brake



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at the trailing edge,

break.

3. Equipment

4. Dimensions

5. Launching Hooks

Min. Equipment:

 1 Air speed indicator (up to 300 km/h)

conventional wing T-tail, retractable landing gear with

- 1 Altimeter
- 1 4-Point harness (symmetrical)
- 1 Parachute or back cushion per person (thickness approx... 10cm/3.94 in when compressed)

Additional Equipment refer to Flight and Maintenance

Manual

Wing Span 15,00 m

- 1) Special Hook "SH72", LBA
- 2) Nose tow hook "E72", LBA Datasheet No. 60.230/1

Datasheet No. 60.230/3

- 3) Nose tow hook "E75", LBA Datasheet No. 60.230/1
- 4) Nose tow hook "E85", LBA Datasheet No. 60.230/1

Note:

Tow hook 2,3,4 optional Tow hook 4 see L.V.6

6. Weak links:

For winch launching max. 500 daN For aero towing max. 500 daN

7. Air Speeds

Manoeuvring Speed v<sub>A</sub> 150 km/h Never Exceed Speed VNE 250 km/h

> 150 km/h In rough air VRA 150 km/h In winch-launch vw 150 km/h in aero-tow v<sub>T</sub>

8. Approved Operations Capability

Maximum permitted speeds

Approved for VFR-flying in

daytime.

9. Maximum Masses

Max. Mass 450kg Max. Mass of Non-Lifting Part 225kg



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10. Centre of Gravity Range

Forward Limit 250 mm aft of datum point Rearward Limit 375 mm aft of datum point

11. Datum Wing leading edge y=425 mm from

the centreline

12. Control surface deflections Refer to Maintenance Manual

13. Levelling Means Wedge 100:5,2 on rear top fuselage

to be horizontal

14. Minimum Flight Crew

15. Maximum Passenger Seating Capacity 0

# L.IV. Operating and Service Instructions

### 1. Flight Manual

- Glider Flight and Service Manual "Hornet C", issue March 1980, LBA-approved.
- Replacement pages to the Glider Flight Manual "Hornet C" initiated by Service Bulletins.
- Limitation placard.
- Trim sheet.

#### 2. Maintenance Manual

- Service Manual "Hornet C" (see above)
- Manual for the Tost Releases, latest approved version

### L.V. Notes

- 1. Manufacturing is confined to industrial production
- 2. All parts exposed to sun radiation exept the areas for markings and registration must have a white coloured surface.
- 3. Qualified for cloud flying according to the Flight Manual
- 4. Qualified for basic aerobatics according to the Flight Manual
- Compared to the serial production the following S/N have the defined major modification:
  - S/N 90,91,92,93: Water ballast tank as intergral tank in the wings.
- 6. The installation of a nose tow hook "E85" is allowed according to the Service Bulletin No. 15 of company Streifeneder, LBA-approved.
- 7. In addition to L.IV.2.: Service Bulletin 1-2005 of Company Glasfaser Flugzeug-Service GmbH; Accepted repair methods according to EU-VO 1702/2003, Part 21, subpart M.



#### **SECTION M: MOSQUITO**

#### M.I. General

1. Type/Model/Variant

1.1 Type Glasflügel Sailplanes

1.2 Model Mosquito

2. Airworthiness Category Sailplane – Utility "U"

3. Manufacturer Glasflügel Segelflugzeugbau

Hollighaus & Hillenbrand

GmbH & Co. KG

7318 Lenningen/Württ. 1

4. Type Certification Application Date 10 November 1975

5. State of Design Authority Germany

6. State of Design Authority Type Certificate Date 26 January 1977

7. EASA Type Certification Date 10 July 2008

#### M.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements

Defined by LBA letter I 3 – 318/75, dated 18<sup>th</sup> November 1975

2. Airworthiness Requirements

 Airworthiness Requirements for Sailplanes and powered sailplanes – (LFSM), issue October 23<sup>rd</sup> 1975

 Standards for Structural Substantiation of Sailplane Components consisting of Glass Fibre Reinforced Plastics, issue March 1965

3. Special Conditions None

4. Exemptions None

5. Equivalent Safety Findings None

6. Environmental Protection None

#### M.III. <u>Technical Characteristics and Operational Limitations</u>

1. Type Design Definition List of drawings: Mosquito,

dated January 1977

2. Description Single seater, mid-wing sailplane, all composite glas

fibre construction, water ballast tanks, flaps combined



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> with the air brake at the trailing edge, conventional wing tips, T-tail, retractable landing gear with break.

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### Min. Equipment:

- 1 Air speed indicator (up to 300 km/h)
- 1 Altimeter
- 1 4-Point safety harness (symmetrical)
- 1 Parachute or back cushion per person (thickness approx... 10cm/3.94 in when compressed)

Additional Equipment refer to Flight and Maintenance Manual

Wing Span 15,00 m

- 1) Special Hook "SH72", LBA Datasheet No. 60.230/3
- 2) Nose tow hook "E72", LBA Datasheet No. 60.230/1
- 3) Nose tow hook "E75", LBA Datasheet No. 60.230/1
- 4) Nose tow hook "E85", LBA Datasheet No. 60.230/1

#### Note:

Tow hook 2,3,4 optional Tow hook 4 see M.V.6

Approved for VFR-flying in

daytime.

# 6. Weak links:

3. Equipment

4. Dimensions

5. Launching Hooks

max. 650 daN For winch launching For aero towing max. 650 daN

### 7. Air Speeds

Manoeuvring Speed v<sub>A</sub> 200 km/h Never Exceed Speed VNE 250 km/h Maximum permitted speeds With flaps at -1,-2,0 250 km/h With flaps at +1,+2 200 km/h In rough air v<sub>RA</sub> 200 km/h

In winch-launch vw 150 km/h in aero-tow  $v_T$ 150 km/h

# 8. Approved Operations Capability

9. Maximum Masses 450kg Max. Mass Max. Mass of Non-Lifting Part 240kg



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#### 10. Centre of Gravity Range

Forward Limit 235 mm aft of datum point Rearward Limit 360 mm aft of datum point

11. Datum Wing leading edge y=425 mm

from the centreline

1

12. Control surface deflections Refer to Maintenance Manual

13. Levelling Means

Wedge 100:5,2 on rear top
fuselage to be horizontal

14. Minimum Flight Crew

15. Maximum Passenger Seating Capacity 0

# M.IV. Operating and Service Instructions

#### 1. Flight Manual

Glider Flight Manual "Mosquito", issue January 1977, LBA-approved.

#### 2. Maintenance Manual

- Service Manual "Mosquito", issue January 1977
- Manual for the Tost Releases, latest approved version

# M.V. Notes

- 1. Manufacturing is confined to industrial production
- 2. All parts exposed to sun radiation exept the areas for markings and registration must have a white coloured surface.
- 3. Qualified for cloud flying according to the Flight Manual
- 4. Qualified for basic aerobatics according to the Flight Manual
- 5. Actions and obligations in the sense of Part 21 for the type "Mosquito" have been transferred to: Glasfaser-Flugzeug-Service, Hofener Weg, 72582 Grabenstetten, Germany
- 6. The installation of a nose tow hook "E85" is allowed according to the Service Bulletin No. 16 of company Streifeneder, LBA-approved.
- 7. In addition to M.IV.2: Service Bulletin 1-2005 of Company Glasfaser Flugzeug-Service GmbH; Accepted repair methods according to EU-vO 1702/2003, Part 21, subpart M.
- 8. The optional use of winglets is allowed by major change approval 10084494.

#### **SECTION N: MOSQUITO B**

#### N.I. General

1. Type/ Model/Variant

1.1 Type Glasflügel Sailplanes

1.2 Model Mosquito B

2. Airworthiness Category Sailplane – Utility "U"

3. Manufacturer Glasflügel Segelflugzeugbau

Hollighaus & Hillenbrand

GmbH & Co. KG

7318 Lenningen/Württ. 1

4. Type Certification Application Date 19 September 1977

5. State of Design Authority Germany

6. State of Design Authority Type Certificate Date 29 November 1977

7. EASA Type Certification Date 10 July 2008

#### N.II. <u>EASA Certification Basis</u>

1. Reference Date for determining the applicable requirements

Defined by LBA letter I 321 – 318/77, dated September 23<sup>rd</sup> 1977

2. Airworthiness Requirements

 Airworthiness Requirements for Sailplanes and powered sailplanes – (LFSM), issue October 23<sup>rd</sup> 1975

 Standards for Structural Substantiation of Sailplane Components consisting of Glass Fibre Reinforced Plastics, issue March 1965

3. Special Conditions None

4. Exemptions None

5. Equivalent Safety Findings None

6. Environmental Protection None

#### N.III. <u>Technical Characteristics and Operational Limitations</u>

1. Type Design Definition List of drawings: Additions to

the list of drawings of the basic type "Mosquito"

2. Description Single seater, mid-wing

sailplane, all composite glas fibre construction, water



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> ballast tanks, flaps combined with the air brake at the trailing edge, conventional wing tips, T-tail, horizontal tail reduced to 2,1 m span compared to the "Mosquito", retractable landing gear with break.

# Min. Equipment:

- 1 Air speed indicator (up to 300 km/h)
- 1 Altimeter
- 1 4-Point safety harness (symmetrical)
- 1 Parachute or back cushion per person (thickness approx... 10cm/3.94 in when compressed)

Additional Equipment refer to Flight and Maintenance Manual

Wing Span 15,00 m

Datasheet No. 60.230/3

- 1) Special Hook "SH72", LBA
- 2) Nose tow hook "E72", LBA Datasheet No. 60.230/1
- 3) Nose tow hook "E75", LBA Datasheet No. 60.230/1
- 4) Nose tow hook "E85", LBA Datasheet No. 60.230/1

#### Note:

150 km/h

Tow hook 2,3,4 optional Tow hook 4 see N.V.6

#### 6. Weak links:

3. Equipment

4. Dimensions

5. Launching Hooks

For winch launching max. 650 daN max. 650 daN For aero towing

# 7. Air Speeds

200 km/h Manoeuvring Speed v<sub>A</sub> Never Exceed Speed v<sub>NE</sub> 250 km/h Maximum permitted speeds With flaps at -1,-2,0 250 km/h With flaps at +1,+2 200 km/h In rough air vRA 200 km/h In winch-launch vw 150 km/h

in aero-tow v<sub>T</sub>



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8. Approved Operations Capability Approved for VFR-flying in

daytime.

9. Maximum Masses

Max. Mass 450kg Max. Mass of Non-Lifting Part 240kg

10. Centre of Gravity Range

Forward Limit 200 mm aft of datum point Rearward Limit 325 mm aft of datum point

11. Datum Wing leading edge y=425 mm

from the centreline

12. Control surface deflections Refer to Maintenance Manual

13. Levelling Means Wedge 100:5,2 on rear top

fuselage to be horizontal

14. Minimum Flight Crew 1

15. Maximum Passenger Seating Capacity 0

### N.IV. Operating and Service Instructions

## 1. Flight Manual

Glider Flight Manual "Mosquito B", issue October 1977, LBA-approved.

#### 2. Maintenance Manual

- Service Manual "Mosquito B", issue October 1977
- Manual for the Tost Releases, latest approved version

#### N.V. Notes

- 1. Manufacturing is confined to industrial production
- 2. All parts exposed to sun radiation exept the areas for markings and registration must have a white coloured surface.
- 3. Qualified for cloud flying according to the Flight Manual
- 4. Qualified for basic aerobatics according to the Flight Manual
- 5. Actions and obligations in the sense of Part 21 for the type "Mosquito B" have been transferred to: Glasfaser-Flugzeug-Service, Hofener Weg, 72582 Grabenstetten, Germany
- 6. The installation of a nose tow hook "E85" is allowed according to the Service Bulletin No. 16 of company Streifeneder, LBA-approved.
- 7. In addition to N.IV.2.: Service Bulletin 1-2005 of Company Glasfaser Flugzeug-Service GmbH; Accepted repari methods according to EU-VO 1702/2003, Part 21, subpart M.
- 8. The optional use of winglets is allowed by major change approval 10084494.



# **SECTION O: GLASFLÜGEL 304**

#### O.I. General

1. Type/Model/Variant

1.1 Type Glasflügel Sailplanes

1.2 Model Glasflügel 304

2. Airworthiness Category Sailplane – Utility "U"

3. Manufacturer Glasflügel

Deutsch-Brasilianische

Flugzeug-und Fahrzeug GmbH

7318 Lenningen 1

4. Type Certification Application Date 30 April 1980

5. State of Design Authority Germany

6. State of Design Authority Type Certificate Date 22 September 1980

7. EASA Type Certification Date 10 July 2008

#### O.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements Defined by LBA letter I 3 –

318/80, dated May 08<sup>th</sup> 1980

2. Airworthiness Requirements

 Airworthiness Requirements for Sailplanes and powered sailplanes – (LFSM), issue 23<sup>rd</sup>

October 1975

Standards for Structural
 Substantiation of Sailplane
 Components consisting of
 Glass Fibre Reinforced
 Plastics, issue March 1965

3. Special ConditionsNone4. ExemptionsNone6. Equivalent Safety FindingsNone

7. Environmental Protection None

#### O.III. <u>Technical Characteristics and Operational Limitations</u>

1. Type Design Definition List of drawings: "Glasflügel

304", LBA-approved September 17<sup>th</sup> 1980

2. Description Single seater, mid-wing

sailplane, all composite glas fibre construction, water ballast tanks, flaps combined



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> with the air brake at the trailing edge, optional conventional wing tips or winglets (see O.V.8), T-tail, horizontal tail reduced to 2,1 m span compared to the "Mosquito", retractable landing gear with break.

#### Min. Equipment:

- 1 Air speed indicator (up to 300 km/h)
- 1 Altimeter
- 1 4-Point safety harness (symmetrical)
- 1 Parachute or back cushion per person (thickness approx... 10cm/3.94 in when compressed)

Additional Equipment refer to Flight and Maintenance Manual

Wing Span 15,00 m

- 1) Special Hook "SH72", LBA
- 2) Nose tow hook "E72", LBA Datasheet No. 60.230/1

Datasheet No. 60.230/3

- 3) Nose tow hook "E75", LBA Datasheet No. 60.230/1
- 4) Nose tow hook "E85", LBA Datasheet No. 60.230/1

#### Note:

Tow hook 2,3,4 optional Tow hook 4 see O.V.6

#### 6. Weak links:

3. Equipment

4. Dimensions

5. Launching Hooks

For winch launching max. 650 daN max. 650 daN For aero towing

# 7. Air Speeds

200 km/h Manoeuvring Speed v<sub>A</sub> Never Exceed Speed v<sub>NE</sub> 250 km/h Maximum permitted speeds With flaps at -1,-2,0 250 km/h With flaps at +1,+2 200 km/h In rough air vRA 200 km/h In winch-launch vw 150 km/h in aero-tow v<sub>T</sub> 150 km/h



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8. Approved Operations Capability Approved for VFR-flying in

daytime.

9. Maximum Masses

Max. Mass 450kg Max. Mass of Non-Lifting Part 240kg

10. Centre of Gravity Range

Forward Limit 200 mm aft of datum point Rearward Limit 325 mm aft of datum point

11. Datum Wing leading edge y=425 mm

from the centreline

12. Control surface deflections Refer to Maintenance Manual

13. Levelling Means Wedge 100:5,2 on rear top

fuselage to be horizontal

14. Minimum Flight Crew 1

15. Maximum Passenger Seating Capacity 0

### O.IV. Operating and Service Instructions

### 1. Flight Manual

- Glider Flight Manual "Glasflügel 304", issue August 1980, LBA-approved.

#### 2. Maintenance Manual

- Service Manual "Glasflügel 304", issue August 1980
- Manual for the Tost Releases, latest approved version

#### O.V. Notes

- 1. Manufacturing is confined to industrial production
- 2. All parts exposed to sun radiation exept the areas for markings and registration must have a white coloured surface.
- 3. Qualified for cloud flying according to the Flight Manual
- 4. Qualified for basic aerobatics according to the Flight Manual
- 5. Actions and obligations in the sense of Part 21 for the type "Mosquito B" have been transferred to: Glasfaser-Flugzeug-Service, Hofener Weg, 72582 Grabenstetten, Germany
- 6. The installation of a nose tow hook "E85" is allowed according to the Service Bulletin No. 16 of company Streifeneder, LBA-approved.
- 7. In addition to O.IV.2.: Service Bulletin 1-2005 of Company Glasfaser Flugzeug-Service GmbH; Accepted repair methods according to EU-VO 1702/2003, Part 21, subpart M.
- 8. According to Service Bulletin No. 304-13 of Company Glasfaser Flugzeug-Service, GmbH, H. Streifeneder, the use of winglets is allowed.



Issue: 06 Date: 17 October 2025

# **SECTION ADMINISTRATIVE**

# I. Acronyms & Abbreviations

# II. Type Certificate Holder Record

#### III.

	Fa.Glasflügel		
	Ing. Eugen Hänle		
	7311 Schlattstall		
Glasfaser Flugzeug-Service GmbH			
	Hofener Weg		
	72582 Grabenstetten		

# IV. Change Record

Issue	Date	Changes	TC Issue No. & Date
Issue 01	10 <sup>th</sup> July 2008	Transfer of Glasflügel Sailplanes to EASA Type Design	Initial Issue,
Issue 02	11 <sup>th</sup> May 2015	-Addition of SB1-2005: "Accepted repair methods according to EU-VO 1702/2003, Part 21, subpart M" under: V.Notes -Certification of winglets for the variant Glasflügel 304 -Correction of issue date of the supplement to the Glider Flight Manual "Standard Libelle 201 B"	
Issue 3	15 <sup>th</sup> September 2022	-Certification of modified winglets for the Standard Libelle, Standard Libelle 201 B, Club-Libelle 205 and Hornet, changes under V.Notes	
Issue 4	27 <sup>th</sup> September 2022	<ul> <li>Correction of erros/typos due to the transfer from issue 2 to issue 3</li> <li>B.III.13 correction of the information in accordance with the Flight Manual</li> <li>E.III.2 correction of the wrong description of the gear</li> </ul>	
Issue 5	16 <sup>th</sup> May 2024	<ul> <li>Certification of winglets for the models Mosquito and Mosquito B</li> <li>Correction aero-tow speed of the model Hornet</li> </ul>	
Issue 6	17 <sup>th</sup> October 2025	- Certification of Winglets for the Kestrel	