*European Aviation Safety Agency*

# EASA

# TYPE-CERTIFICATE DATA SHEET

# LAK-19

## Type Certificate Holder:

**AB Sportinė Aviacija**
Akcinė Bendrovė
Sportinė Aviacija
Pociūnai
LT-4340 Prienai
Lithuania

## Manufacturer:

**AB Sportinė Aviacija**
Akcinė Bendrovė
Sportinė Aviacija
Pociūnai
LT-4340 Prienai
Lithuania

For variants: LAK-19

Issue 1: 5 August 2004
Issue 2: 26 November 2004

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## SECTION 1: GENERAL, LAK-19 Type Design

### I. General

| | | | |
|---|---|---|---|
| Data Sheet No.: EASA.A.012 | | Issue: 02 | Date: 26 November 2004 |
| 1. | a) Type:<br>b) Variant: | LAK-19<br>N/A | |
| 2. | Airworthiness Category: | Utility | |
| 3. | Type Certificate Holder: | Akcinė Bendrovė<br>Sportinė Aviacija<br>Pociūnai<br>LT-4340 Prienai<br>Lithuania | |
| 4. | Manufacturer: | Akcinė Bendrovė<br>Sportinė Aviacija<br>Pociūnai<br>LT-4340 Prienai<br>Lithuania. | |
| 5. | EASA Certification Application Date: | --- | |
| 6. | JAA recommendation Date: | TBA | |
| 7. | EASA Type Certification Date: | 5 August 2004 | |
| 8. | The EASA Type Certificate replaces Lithuanian Type Certificate No. 15 | | |

### II. Certification Basis

| | | |
|---|---|---|
| 1. | Reference Date for determining the applicable requirements: | 12-May-2003 |
| 2. | Certification Basis: | As defined by LBA letter M 314-429/5/03, dated 12-May 2003 |
| 3. | Airworthiness Requirements: | JAR-22, Change 5, dated 28-Oct-1995 |
| 4. | Requirements elected to comply: | None |
| 5. | EASA Special Conditions: | None |
| 6. | EASA Exemptions: | None |
| 7. | EASA Equivalent Safety Findings: | For JAR 22.49:<br>NPA 22B-83 (Stall Speed)<br>in combination with<br>NPA 22C&D-84 (Landing Gear) |

## III. Technical Characteristics and Operational Limitations

1. Type Design Definition: List of the Drawing Files of the LAK-19 Glider, latest CAA Lithuania Approved Revision.

2. Description: Single-seat, shoulder-winged glider, CRP/GRP-composite construction, T-shaped horizontal tailplane with fin and elevator, Schempp-Hirth brake-flaps on upper wing surface, water ballast tanks in the wing and the vertical fin, retractable landing gear equipped with brakes and spring suspension, optionally 15 m span with winglets or normal wingtip, or 18 m span with small winglets.

3. Equipment: Min. Equipment:
1 Air speed indicator (up to 300 km/h)
1 Altimeter
1 4-Point harness (symmetrical)
1 Outside air temperature gauge
1 Parachute or seatback cushion (about 10 cm thick)

4. Dimensions:

| | | | |
|---|---|---|---|
| Span | 15.0 m | optionally | 18.0 m |
| Length | 6.53 m | | |
| Height | 1.29 m | | |
| Wing Area | 9.06 m² | | 9.8 m² |

5. Launching Hooks: 1. Sicherheitskupplung “Europa G 88”
LBA Datasheet No. 60.230/2

6. Weak links: Ultimate Strength:

| | |
|---|---|
| - for winch launching | max. 650 daN |
| - for aero-tow | max. 650 daN |
| - for auto-tow | max. 650 daN |

7. Air Speeds:

| | |
|---|---|
| Maneuvering Speed $V_A$ | 205 km/h |
| Never Exceed Speed $V_{NE}$ | 275 km/h |
| Rough Air Speed $V_{RA}$ | 205 km/h |
| Max. Aerotow Speed $V_T$ | 160 km/h |
| Max. Winch-launch Speed $V_W$ | 140 km/h |
| Max. Landing Gear Operating Speed $V_{LO}$ | 205 km/h |

8. Operational Capability: VFR Day
Cloud flying with 15 m span, without water ballast, according to the specifications in the Flight Manual

9. Maximum Masses:

a. <u>Wing span 15 m:</u>

Max. Mass with water ballast: 480 kg

b. <u>Wing span 18 m:</u>

Max. Mass with water ballast: 500 kg

Max. Mass of non-lifting parts: 238 kg

| | |
|---|---|
| 10. Centre of Gravity Range: | Forward Limit: 182 mm aft of datum point<br>Aft Limit: 305 mm aft of datum point |
| 11. Datum: | Wing leading edge at root rib |
| 12. Levelling Means: | Upper side of fuselage boom placed at slope 1000:29 |
| 13. Minimum Flight Crew: | 1 (Pilot) |
| 14. Maximum Passenger Seating Capacity: | --- |
| 15. Lifetime limitations: | Refer to Maintenance Manual |
| 16. Deflection angles of control surfaces: | Refer to Maintenance Manual |

## IV. Operating and Service Instructions

| | |
|---|---|
| Flight Manual (FM): | Flight Manual for the sailplane LAK-19, edition September 2003 |
| Maintenance Manual (AMM) (Including Airworthiness Limitations): | Maintenance Manual for the sailplane LAK-19, edition September 2003. |

Tost Manual for the launching hook “Europa G 88”, latest approved version.

## V. Notes

1. The Certification is eligible from serial.-no. 002 onwards.

2. Manufacturing is confined to industrial production.

3. All parts exposed to sun radiation – except the areas for markings and registration – must have a white color surface.

**SECTION 2: Reserved**