

**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

A00073CE
Revision 2
Game Composites
GB1 GameBird
June 18, 2020

TYPE CERTIFICATE DATA SHEET NO. A00073CE

This data sheet, which is part of Type Certificate No. A00073CE, prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of Title 14 of the Code of Federal Regulations.

Type Certificate Holder Game Composites LLC
3201 SW I Street
Bentonville, Arkansas 72712

Type Certificate Holder Record Game Composites Ltd transferred TCDS A00073CE to Game
Composites LLC on March 28, 2019. See NOTE 5.

I. Model GB1 GameBird, (Acrobatic Category), Approved August 29, 2017

Engine One Lycoming AEIO-580-B1A, TCDS E00004NY
Air intake tubes replaced by Game Composites design

Fuel 100/100LL minimum grade aviation gasoline

Engine Limits Maximum Take-Off, 2600 rpm (303 hp)
Continuous Operation, 2600 rpm (303 hp)

Propeller (a) MT Propeller Entwicklung GmbH MTV-14-B-C/C190-130,
TCDS P3BO
(b) Spinner: P-1369 (4R1)
(c) Governor: P-880-41, pre-adjusted to max. 2600 RPM

Propeller Limits Diameter 74.8 in \pm 0.2 in (1900 mm \pm 5 mm)
Low Pitch 9° \pm 0.2°
High Pitch 30° \pm 1°
Pitch Radius at 29.92 in (760 mm)

Airspeed Limits V_{NE} 234 KIAS, 269 mph
V_{NO} 200 KIAS, 230 mph
V_O 175 KIAS, 201 mph

C.G. Range Takeoff, flight and landing:

22.8 in / 580 mm (25% MAC) to 31.1 in / 780 mm (34% MAC)
aft of datum (at all weights)

Empty Wt. C.G. Range None

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Reference Datum	Vertical face of firewall	
Leveling Means	Horizontal frame of cockpit canopy frame	
Maximum Weight	Maximum Empty Weight	1477 lbs (670 kg)
	Maximum Take-off Weight	operated up to $\pm 10g$, 1940 lbs (880 kg) operated up to $\pm 6g$, 2200 lbs (999 kg)
	Maximum Landing Weight	operated up to $\pm 10g$, 1940 lbs (880 kg) operated up to $\pm 6g$, 2200 lbs (999 kg)
Minimum Crew	1 pilot (rear seat)	
No. of Seats	2	
	(front seat) fixed seat at 45.66 in (1160 mm) aft of datum (rear seat) fixed seat at 85.03 in (2160 mm) aft of datum	
Maximum Baggage	33 lbs (15 kg) total in baggage area behind pilot's seat at 98.42 in (2500 mm) aft of the datum	
	Carriage of baggage prohibited during aerobatic maneuvers	
Fuel Capacity	81 gallons (311 liters) total: two 28-gallon wing tanks at 12.99 in (330 mm) aft of the datum, and one 25-gallon acro tank at 10.23 in (260 mm) aft of datum	
	81 gallons (309 liters) usable See Note 1.	
Oil Capacity	16 quarts (15.15 liters)	
	See Note 1.	
Smoke Oil Capacity	7.4 gallons (34 liters) at 39.36 in (1000 mm) aft of the datum See Note 1.	
Ballast	1 - 25.5 lbs (11.5kg) at 169.29 in (4300 mm), See AFM.	
	2 - 30 lbs (13.5kg) at 165.35 in (4200 mm), See AFM.	
Maximum Operating Altitude	15,000 ft	
Control Surface Movements	Aileron	$\pm 22.5^\circ \pm 2^\circ$
	Trim Tab (on RH aileron	$\pm 30^\circ \pm 3^\circ$
	Elevator	$\pm 30^\circ \pm 3^\circ$
	Trim tab (on LH elevator)	$+ 5^\circ, - 40^\circ$
	Rudder	$\pm 30^\circ \pm 3^\circ$
Manufacturer's Serial Numbers	GB1 serial numbers 0001 and on	

- Certification Basis
- (1) Part 23 of Title 14 of the Code of Federal Regulations effective February 1, 1965, as amended by Amendments 23-1 through 23-62;
 - (2) Part 36 of Title 14 of the Code of Federal Regulations effective December 1, 1969, as amended by Amendments 36-1 through 36-30;
 - (3) Equivalent levels of safety as follows:
 - (a) TC00699CE-A-F-2: 14 CFR §§ 23.45, 23.51, 23.63, 23.67, 23.73, 23.77, 23.161, 23.181, 23.221, 23.251, 23.253, 23.571, 23.785, 23.831, 23.1195, 23.1197, 23.1199, 23.1201, 23.1527, 23.1545, 23.1583 [Amendment 23-62 Errors];
 - (b) TC00699CE-A-F-3: 14 CFR § 23.207 Stall Warning.
 - (c) TC00699CE-A-F-4: 14 CFR § 23.781(b), Cockpit Control Knob Shape.
 - (4) Special Conditions as follows:
 - (a) Special Conditions No. 23-17-02-SC: Acrobatic Category Aerodynamic Stability; SC23.173 Static longitudinal stability, and SC23.177 Static directional and lateral stability.

Type Certificate A00073CE issued August 29, 2017.

Application for type certificate dated March 10, 2014.

Not approved for ditching; compliance with the provisions for ditching equipment in accordance with 14 CFR § 23.1415(a)(b) has not been demonstrated.

Approved for VFR-day only. Flight in known icing prohibited.

Production Basis

24SW

Equipment

The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the airplane for certification.

In addition, the following items of equipment are required:

Airplane Flight Manual, Document No. AFM-GB1-0000-00-02, Revision A03, dated March 22, 2019, or later approved revision.

NOTES

NOTE 1:

A current weight and balance report, including a list of equipment included in the certificated empty weight, and loading instructions when necessary, must be provided for each aircraft at the time of original certification. The certificated empty weight and corresponding center of gravity location must include full oil and unusable fuel.

NOTE 2: The placards specified in the approved Airplane Flight Manual must be displayed.

NOTE 3: Instructions for Continued Airworthiness and Service Life Limited components are included in the Airplane Maintenance Manual Document No. AMM-GB1-0000-00-02, Revision A01, dated March 22, 2019, or later accepted revision. Revisions to the Airworthiness Limitations Section (ALS) must be approved by the FAA.

NOTE 4: Production Certificate 24SW was issued on June 13, 2019. GB1 Gamebird aircraft S/N 0002 thru S/N 0007 produced before this date were inspected by an FAA representative before the original airworthiness certificate was issued.

NOTE 5: Game Composites Ltd, a company in the United Kingdom, was originally granted a validated import Type Certificate under § 21.29 for the Model GB1 GameBird. The company later transferred the Type Certificate to Game Composites LLC in the United States and was granted a new Type Certificate under § 21.21.

END