TYPE CERTIFICATE DATA SHEET NO. A00002AC.

This data sheet which is part of Type Certificate No. A00002AC prescribes conditions and limitations under which the product for which the type certificate was issued meets the Airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder: Eclipse Aviation Corporation
2503 Clark Carr Loop SE
Albuquerque, NM 87106

Type Certificate Holder Record: Type Certificate initial issuance to Eclipse Aviation Corporation

I. Model EA500, (Normal Category), Approved September 30, 2006

Engines
Two Pratt & Whitney Canada PW610F-A,
Type Certificate Date Sheet (TCDS) E0074EN

Fuel
JET A and Jet A-1 per ASTM D 1655; JP-8 per MIL-T-83133

Fuels not containing icing inhibitors must have MIL-I-27686, MIL-I-85470, or Phillips PFA-55MB fuel system icing inhibitors blended into the aircraft fuel at concentrations not less than 0.10% but no more than 0.15% by volume. The minimum fuel icing inhibitor content during refueling is 0.10% by volume.

Engine Limits

<table>
<thead>
<tr>
<th></th>
<th>N1(%)</th>
<th>N2(%)</th>
<th>MAX ITT (°C)</th>
<th>Time Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Take-off</td>
<td>102</td>
<td>100</td>
<td>795</td>
<td>5 minutes</td>
</tr>
<tr>
<td>Max. Continuous</td>
<td>102</td>
<td>100</td>
<td>795</td>
<td>Continuous</td>
</tr>
<tr>
<td>APR</td>
<td>102</td>
<td>100</td>
<td>795</td>
<td>10 minutes</td>
</tr>
<tr>
<td>Transient</td>
<td>103</td>
<td>102</td>
<td>810</td>
<td>20 seconds</td>
</tr>
</tbody>
</table>

Airspeed Limits

<table>
<thead>
<tr>
<th></th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>$V_O$</td>
<td>Maximum Operating Maneuvering Speed 180 KEAS</td>
</tr>
<tr>
<td>$V_{MO}$</td>
<td>Maximum Operating Airspeed 275 KEAS</td>
</tr>
<tr>
<td>$M_{MO}$</td>
<td>Maximum Operating Mach 0.64 M</td>
</tr>
<tr>
<td>$V_{FE}$ (Flap T/O)</td>
<td>Maximum Flap Extended Speed 200 KEAS</td>
</tr>
<tr>
<td>$V_{FE}$ (Flap LDG)</td>
<td>Maximum Flap Extended Speed 120 KEAS</td>
</tr>
<tr>
<td>$V_{LO}$</td>
<td>Maximum Landing Gear Operating Speed 200 KEAS</td>
</tr>
<tr>
<td>$V_{LE}$</td>
<td>Maximum Landing Gear Extended Speed 275 KEAS</td>
</tr>
<tr>
<td>Maximum tire ground speed</td>
<td>139 KNOTS</td>
</tr>
</tbody>
</table>
Center of Gravity (C.G.) Range

Forward limits: 195.65 inches aft of datum up to 4,910 lbs with a straight line taper to 197.5 inches at 5,760 lbs.

Aft Limits: 203.25 inches aft of datum up to 5,509 lbs with a straight line taper to 200.0 inches at 5,760 lbs.

Empty Weight, C.G. Range

None.

Datum

Is located 23.25 inches forward of the nose radome.

Leveling Means

Laterally: Forward edge of the baggage compartment floor
Longitudinally: Left hand outboard seat track in front of the main cabin door

Maximum Weights

Max. Ramp 5,800 lbs
Max. Takeoff 5,760 lbs
Max. Landing 5,415 lbs
Max. Zero Fuel 4,860 lbs

Minimum Crew

1 Pilot plus required equipment as specified in the FAA Approved Airplane Flight Manual (AFM)
Number of Seats 6 Max (includes pilot and crew); refer to the Airplane Flight Manual (AFM), Document No. 06-100106, latest FAA approved revision, Section 6 for seat configurations and moment arms.

Maximum Compartments Weights 260 lbs; 1 compartment, moment arm 217.92 inches aft of datum
Baggage compartment floor loading is 100 lb/ft²
Cabin floor loading is 80 lb/ft²

Fuel Capacity 227.5 gallons (USG) total; 224 gallons (USG) usable;
3.5 gallons (USG) unusable
Moment arm 198 inches aft of datum

Oil Capacity 6.48 quarts (USQ) total per engine; 1.15 quarts (USQ) usable per engine

Maximum Operating Altitude Takeoff 10,000 ft MSL
Operating 41,000 ft MSL

Control Surface Movements

<table>
<thead>
<tr>
<th>Surface</th>
<th>Movement</th>
<th>UP</th>
<th>DOWN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elevator</td>
<td>UP</td>
<td>25° ± 0.5°</td>
<td>15° ± 0.5°</td>
</tr>
<tr>
<td>Elevator Trim Tab</td>
<td>UP</td>
<td>20.0° ± 1.0°</td>
<td>20.0° ± 1.0°</td>
</tr>
<tr>
<td>Ailerons</td>
<td>UP</td>
<td>15.5° ± 0.5°/-0.2°</td>
<td>11.6°± 0.5°/-0.2°</td>
</tr>
<tr>
<td>Aileron Trim</td>
<td>UP</td>
<td>5.4° ± 0.3°</td>
<td>4.8° ± 0.3°</td>
</tr>
<tr>
<td>Rudder</td>
<td>LEFT</td>
<td>30° ± 0.5°</td>
<td>30° ± 0.5°</td>
</tr>
<tr>
<td>Rudder Trim Tab</td>
<td>LEFT</td>
<td>20.0° ± 1.0°</td>
<td>20.0° ± 1.0°</td>
</tr>
<tr>
<td>Flaps</td>
<td>Cruise</td>
<td>0° ± 0.5°</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Takeoff</td>
<td>16.8° ± 0.5°</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Landing</td>
<td>33.8° ± 1.0°</td>
<td></td>
</tr>
</tbody>
</table>

Serial Numbers 000001 and up
Certification Basis

14 CFR Part 23 through Amendment 55, Part 34 through Amendment 34-3, and Part 36 through Amendment 36-24.

Special Conditions:
23-128-SC for Engine Fire Extinguishing System
23-121-SC for Electronic Engine Control System
23-112A-SC for High Intensity Radiated Fields (HIRF) Protection

Equivalent Levels of Safety Findings:
ACE-02-19: 14 CFR §§ 23.777(d) and 23.781 Fuel Cutoff Control
ACE-05-32: 14 CFR §§ 23.1545(a) and 23.1581(d) for Indicated Airspeeds
ACE-05-34: 14 CFR §23.181(b), Dynamic Stability
ACE-05-35: 14 CFR §23.1353(h), Storage Battery Design and Installation
ACE-05-36: 14 CFR §23.1323(c), Airspeed Indicating System
ACE-06-01: 14 CFR § 23.1545(b)(4), Airspeed Indicator

Exemptions:
None

Compliance with ice protection for flight into known or forecast icing has not been demonstrated for issuance of a Type Certificate.

Compliance with ditching provision have not been met for issuance of a Type Certificate.

Type Certificate:  A00002AC, issued September 30, 2006

Date of application: July 12, 2001

Model EA500 is defined by Eclipse Aviation drawing 06-105432-1006, latest FAA approved revision.

Production Basis
None. Before original airworthiness certification of each aircraft, an FAA representative must perform a detailed inspection for workmanship, materials, conformity with the approved technical data, and a check of the flight characteristics.

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

Note 2  The Eclipse EA500 must be operated according to the FAA Approved Airplane Flight Manual (AFM), Document No. 06-100106, latest FAA approved revision.

Note 3  FAA approved Airworthiness Limitations for inspection time limits and maintenance checks are included in Chapter 4 of the Aircraft Maintenance Manual (AMM) Document No. 06-117751, latest FAA approved revision.

Note 4  All airplanes are equipped with RVSM capable dual air data system, pilot and co-pilot Primary Flight Displays, and Autopilot.

Each operator must obtain RVSM operating approval.

Note 5  The Eclipse EA500 incorporates integrated avionics systems using software-based line replaceable units (LRU’s) which share a digital signal transmission bus. The avionics configuration of the Eclipse EA500 as delivered from production is critical to the proper operation of the cockpit instrumentation system. Modification to the LRU software supplied with the Eclipse EA500, replacement of an LRU with a different LRU, addition of new LRU, or alteration of an LRU interface could adversely affect the airworthiness of the certified product. Accordingly, no changes to the integrated avionics system may be made without coordination with the Certificate Management Aircraft Certification Office.

Note 6  The Eclipse EA500 shall be maintained according to:
- Aircraft Maintenance Manual (AMM), No. 06-117751, latest revision
- Structural Repair Manual (SRM), No. 06-117755, latest revision
- Wiring Diagram Manual (WDM), No. 06-117753, latest revision
- Fault Isolation Manual, No. 06-117754, latest revision

Note 7  Any modification or changes in cockpit configuration which may affect aircrew workload, cockpit noise level or day/night operational capabilities must be evaluated by an FAA Aircraft Certification Flight Test Pilot.

Note 8  Application of six inch registration numbers is approved under FAR 45.29 as stated in approval memo from SW-MIDO-43, dated May 11, 2006 and memo from the Aircraft and Airport Rules Division, dated May 5, 2006.

Note 9  All pilots operating the Eclipse Aviation EA-500 must be trained and qualified in accordance with the FAA Accepted/Approved Eclipse Aviation training program or other FAA Approved training program.

......END.....