

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

A52NM  
Revision 5  
Seeker Aviation  
  
SB7L-360A  
  
July 8, 2021

TYPE CERTIFICATE DATA SHEET NO. A52NM

This data sheet which is part of Type Certificate No. A52NM 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      Seeker Aviation Australia Pty Ltd  
Don Adams drive, Hervey Bay Airport  
PO BOX 7618  
Urangan, QLD 4655  
Australia

Type Certificate Holder Record:      Seabird Aviation Australia Pty Ltd. changed the TC holder name to Seeker Aviation Australia Pty Ltd. on July 10, 2018.

I. SB7L-360A 'Seeker' (Primary Category) Approved April 17, 1997

Engine      Textron Lycoming O-360-B2C (one engine)  
Type Certificate: E-286, Approved October 21, 1992

Fuel      80/87 minimum grade aviation gasoline

Engine Limits      2500 r.p.m. for all operations (160 h.p.)

Propeller and  
Propeller Limits      Seabird Aviation  
Model: Bishton 177  
Type Certificate: P10BO Approved July 19, 1996  
Diameter: not over 69.7", not under 69.5"  
No further reduction permitted.  
Static r.p.m. at permissible throttle setting:  
not over 2300, not under 2200.  
No additional tolerance permitted.

Airspeed Limits (CAS)      Maneuvering      121 mph (105 knots)  
Maximum structural cruising      121 mph (105 knots)  
Never exceed      153 mph (133 knots)  
Flaps extended      109 mph (97 knots)

Center of Gravity  
(C.G). Range      Forward: 88.6" aft of datum at all weights  
Aft: 93.9" aft of datum at 1764 lbs. or less  
93.0" aft of datum at 1977 lbs., linear variation between  
1764 lbs. and 1977 lbs.

Empty Weight C.G. Range      None

Maximum Weights      Takeoff      1977 lbs. (899 kg.) (see NOTE 5)

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	Landing	1977 lbs. (899 kg.)	
Datum	80.4" forward of the wing leading edge at butt line 83.5"		
Leveling Means	Plumb bob from drilled bolt in cockpit overhead bow to center mark on forward undercarriage bay cross member.		
Minimum Crew	One		
Number of Seats	Two		
	Pilot Seat Arm	Forward	50.6" aft of datum
		Aft	56.9" aft of datum
	Passenger Seat Arm	Forward	50.6" aft of datum
		Aft	64.8" aft of datum
Maximum Baggage	100 lbs. at 82.3" aft of datum		
Fuel Capacity	2 x 24.3 US gals. 45.4 US gals. usable (22.7 US gals. each tank) 3.2 US gals. unusable (1.6 US gals. each tank)		
	Fuel weight in one tank	Fuel arm aft of datum	
	22 lbs.	87.6"	
	33 lbs.	89.2"	
	44 lbs.	90.8"	
	55 lbs.	91.5"	
	66 lbs.	91.9"	
	77 lbs.	92.0"	
	88 lbs.	91.3"	
	99 lbs.	90.6"	
	110 lbs.	90.7"	
	121 lbs.	90.7"	
	132 lbs.	90.8"	
	See Note 1.		
Oil Capacity	Total Capacity	8 US quarts (6 US quarts useable)	
	Oil arm	110.4" aft of datum	
	See Note 1 for data on system oil.		
Maximum Operation Altitude	12,500 ft above mean sea level		
Control Surface Movements	Aileron	Up	4.4" ± 0.2" at trailing edge
		Down	2.9" ± 0.2" at trailing edge
	Elevator	Up	6.3" + 0, -0.2" at trailing edge
		Down	3.3" ± 0.2" at trailing edge
	Elevator fixed tabs	Trailing edge of tabs 1.6" to 2" below plane of elevator upper surface	
	Rudder L & R	6.7" ± 0.2" at trailing edge	
Control Surface Move. (cont.)	Wing flaps	retracted	0° ± 1°

first notch	$20^{\circ} \pm 1^{\circ}$
full	$40^{\circ} \pm 1^{\circ}$

Manufacturer's Serial Numbers 070010 to 070014 (see NOTE 5 for restriction for US TC)

Import Requirements A United States airworthiness certificate may be issued on the basis of an Australian Export Certificate of Airworthiness signed by a representative of the Civil Aviation Safety Authority containing the following statement:  
'The aircraft covered by this certificate has been examined, tested and found to comply with the Master Drawing List SBR 06/96 at issue 1 or later FAA approved revisions approved under US Type Certificate No. A52NM and to be in a condition for safe operation.'

The U.S. airworthiness certification basis for this aircraft type certificated under FAR § 21.29 and exported by the country of manufacture is FAR § 21.184 (b).

Refer to the applicable bilateral agreement to verify eligibility for import into the United States of both new and used aircraft based on the scope of the agreement, to identify any required statements by the exporting authority on the export certificate of airworthiness (or equivalent document), and for procedures for coordinating exceptions to conformity statements on these documents. Refer to FAA Order 8130.2, *Airworthiness Certification of Aircraft*, for requirements for issuance of an *airworthiness certificate* for imported aircraft

Certification Basis For the Model SB7L-360A (Primary Category) airplane, issuance of a U.S. Type Certificate is based on compliance with the following applicable regulations and amendments:  
FAR 21.17(f), FAR 21.29, and FAR 23, dated December 18, 1964, with Amendments 1 through 34 "Airworthiness Standards: for Normal Category Airplanes"; and FAR 36 through amendment 36-21 effective December 25, 1995.  
Noise Control Act of 1972.

TC A52NM issued on April 17, 1997.  
Date of application for the Type Certificate (Primary Category):  
February 21, 1995; amended on June 24, 1996.

Production Basis None

Equipment The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification. In addition the approved (for FAA) Flight Manual, document SBR 03/96, or later approved version, must be carried.

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 the corresponding center of gravity location must include full oil and unusable fuel (19.2 pounds at 89.7 inches).

NOTE 2 All required placards are specified in the FAA Approved Flight Manual and must be displayed in the airplane in the appropriate locations.

NOTE 3 Mandatory retirement lives, required inspections, and inspection intervals of components are contained in the Airworthiness Limitations Section of the Instructions for Continued Airworthiness. Revisions to the Airworthiness

Limitations Section must be approved by the Australian Civil Aviation Safety Authority on behalf of the FAA.

NOTE 4

Instructions for Continued Airworthiness, which contain the Seabird Seeker SB7L-360A Maintenance Manual and the Airworthiness Limitations Section, must be completed and acceptable to the Administrator prior to delivery of the first aircraft under the U.S. Type Certificate.

NOTE 5

Increased maximum take-off weight (MTOW) modification to maximum 2034 lbs. (925 kg) and increased fuel capacity per CASA TCDS VA502 Revision 1, dated January 17, 2006, Note 7 b) is not allowed on this US type certificate at this time.

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