



TCDS No A-16
Revision 2
NZSkydive Ltd
FBA-2C
FBA-2C1
FBA-2C2
FBA-2C3
FBA-2C4
FBA-2C3T
FBA-2C4T
22 October 2024

TYPE CERTIFICATE DATA SHEET No A-16

This data sheet which is part of Type Certificate No. A-16 prescribes the conditions and limitations under which the product for which the Type Certificate was issued meets the airworthiness requirements of the New Zealand Civil Aviation Rules.

Type Certificate Holder: **NZSkydive Limited**
Trading as NZAero
333 Airport Road
Hamilton
New Zealand

Type Certificate Holder Record: **Transferred from Pacific Aerospace Ltd to NZSkydive Ltd on 29 November 2021.**

Transferred from Found Aircraft Canada Inc. to Pacific Aerospace Ltd on 23 November 2017.
 (See Note 1)

I - MODEL FBA-2C (Normal Category) Approved 19 February 1964

Engine Lycoming O-540-A1C5

Engine Limits Maximum for all operations 250 H.P. at 2575 r.p.m.
 Full throttle at Sea Level

Propeller and McCauley Variable Pitch 2D36C28/80MM-6
 Propeller Limits Diameter: Maximum 74 ins., Minimum 73 ins.
 No reduction in minimum size allowed.
 Pitch setting at Station 30.0: Low 15.7°
 High 32.0°
 Constant Speed Governor, Woodward 210395

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Airspeed Limits (CAS)		<u>Knots</u>	<u>MPH</u>
V _{NE}	(Never Exceed)	135	155.3
V _P	(Manoeuvring)	112.5	130.0
V _{NO}	(Max. Structural Cruise)	107	123.3
V _{FE}	(Flaps Extended)	93.5	108.0

C.G. Range

Landplane and Skiplane

<u>Gross Weight</u>	<u>Fwd. Limit</u>	<u>Aft Limit</u>
2850 lbs. (1293 kg)	+17.0 in	+24.5 in.
2250 lbs. (1021 kg) or less	+15.3 in.	+24.5 in.

Seaplane

<u>Gross Weight</u>	<u>Fwd. Limit</u>	<u>Aft Limit</u>
2850 lbs. (1293 kg)	+17.0 in.	+23.5 in.
2250 lbs. (1021 kg) or less	+15.3 in.	+23.5 in.

Straight line variation between points.

Additional limitations for specific ski and float installations are contained under "Optional Equipment".

All versions: See Note 2.

Datum	Main landing gear beam centre line.			
Maximum Weight	Landplane and Skiplane	2,850 lbs. (1293 kg)		
	Seaplane	2,850 lbs. (1293 kg) (See Item 602 for higher weight).		
Maximum Occupants	5, including pilot.	(2 at +17.8 in., and 3 at +61.75 in.)		
Fuel Capacity	56.0 Imperial Gallons Total (+22.2 in.) 28 Imperial Gallons each wing tank. 55.0 Imperial Gallons Usable.			
Oil Capacity	10.5 Imperial Quarts Maximum (-38.8 in.)			
Control Surface Movements	Wing Flaps	0°	Up	32° Down
	Aileron	18°	Up	12° Down
	Elevator (0° Stab.)	29.5°	Up	21.5° Down
	Stabilizer	3°	Up	5° Down***
	Rudder	30°	Left	30° Right
	*** Up and Down refer to the leading edge of the stabilizer			
Approved Configuration	No Master Drawing List or equivalent document in existence for the FBA-2C model. Serial production of FBA-2C aircraft not permitted by Pacific Aerospace Ltd.			

Serial Numbers Eligible 3 to 27 manufactured by Found Brothers Aviation.

Certification Basis CAR 3 dated May 15, 1956, and Amendments 3-1 to 3-7 inclusive.
Date of Application for Type Certification: February 11, 1963.

Required Equipment The basic required equipment as prescribed in the applicable airworthiness requirements (see Certification Basis), must be installed in the aircraft. In addition, the following items of equipment are required:
Landplane, Item 401(a) and Item 601.
Seaplane, Item 401(a) and Item 601.

Optional Equipment

Propeller and Propeller Accessories

1. (a) Hartzell Constant Speed HC-92ZK-1D/8847-0
Weight 70 lbs. (32 kg) at -63.0 ins.
Diameter: Maximum 88 in., Minimum 88 in.
Pitch Setting at Station 30.0 in.:
Low 12°
High 26.4°
- (b) Woodward Constant Speed Governor B210340

Landing Gear

201. Ski Installations
 - (a) Federal Model CF 3000
Ski installation to Found Bros.
Drawing 2C36-1 Issue 2C dated March 10, 1964.
Gross Weight 2850 lbs. (1293 kg)
C.G. Limits: From +15.3 in.
to +24.5 in.
 - (b) Federal C 3200
Ski installation to Found Bros.
Drawings 2C62-1 and 2C35-22
Gross Weight 2850 lbs. (1293 kg)
C.G. Limits: From +17.0 in.
to +23.5 in.
 - (c) Fluidyne 4000 MK. 2 Flilite
Ski installation to Found Bros.
Drawing 2C35-2 Issue 3H.
Gross Weight 2850 lbs (1293 kg)
C.G. Limits: From +17.0 in.
to +23.5 in.
202. Float Installations
 - (a) Edo Model 249A-2870 Floats

Optional
Equipment
(Cont'd)

Float installation to Found Bros. Drawing 2C-44-1,
See Item 602.

- (b) Edo Model 249-2870 Floats
Float installation to Found Bros. Drawing 2C48-1,
See Item 602.
- (c) Edo Model 249A-2870 Modified Floats
Float installation to Found Bros. Drawing 2C44-1,
See Item 602.

NOTE: The Edo Model 249A-2870 Modified Floats are Model 249A-2870 Floats modified to Edo Drawing X-43521 and conform in shape with the Edo Model 597-2790 Floats.

- (d) Edo Model 597-2790 Floats
Amphibian installation to Found Bros. Drawing 2C44-1.
For Gross Weights up to 3000 lbs. (1361 kg)
C.G. Limits are: Fwd. Limit: +17.0 in.
Aft Limit: +23.5 in.
See Item 602.
- (e) PK 3500 Floats
Float installation to Found Bros. Drawing 2C64-1 Issue 2
dated July 30, 1966
C.G. Limits are: Fwd. Limit +17.0 in.
Aft Limit +23.5 in.
See Item 602.

Electrical Equipment

301. Position and instrument lights per Modification No. 118.

Interior Equipment

401. (a) CAA Approved Flight Manual AIR 3477 dated February 25, 1964 or later approved revision.

(b) CAA Approved Flight Manual AIR 3478 dated April 28, 1965 or later approved revision.

Miscellaneous (Not Listed Above)

601. Stall Warning Indicator, Dwg. W-535
602. 3000 lbs. (1361 kg) gross weight modification on seaplane per Modification No. 117. Limitations as follows:

Airspeed Limits

V _{NE} (Never Exceed)	153 MPH
V _P (Manoeuvring)	133 MPH
V _{NO} (Max. Structural Cruising)	122 MPH

Optional
Equipment
(Cont'd)

V_{FE} (Flaps Extended) 111 MPH

Maximum Weight 3000 lbs. (1361kg)

C.G. Range

Fwd. Limit 15.3 in. aft of datum at all weights.

Aft Limit 23.6 in. aft of datum at all weights.

Control Surface Movements

Wing Flaps 0° Up 32° Down

Aileron 18° Up 12° Down

Elevator (0° Stab.) 29.5° Up 21.5° Down

Stabilizer 4.5° Up 3.5° Down***

Rudder 30° Left 30° Right

*** Up and Down refer to the leading edge of the stabilizer

Required Equipment Serial Nos Eligible

Items 1(a), 1(b), 401(b) and 601

Serial Nos Eligible

3, 5 to 27 inclusive

II - MODEL FBA-2C1 (Bush Hawk) (Normal Category) Approved 5 March 1999

This resumption-of-production model is essentially identical aerodynamically to the earlier production model, but includes a number of mandatory, substitution, and product improvement modifications.

Engine	Lycoming IO-540-D4A5 (260 HP) or, Lycoming IO-540-L1C5 (300 HP)		
Engine Limits	Maximum for all operations; Full throttle at Sea Level. IO-540-D4A5 260 H.P. at 2700 r.p.m. IO-540-L1C5 300 H.P. at 2700 r.p.m.		
Propeller and Propeller Limits	Hartzell 3-blade variable pitch HC-C3YR-1RF/F8468A-2R Diameter: Maximum 84 ins., Minimum 83 ins. Pitch setting at Station 30.0: Low 10.3° High 31.0° Constant Speed Governor, Hartzell V5-4		
Airspeed Limits (CAS)	<u>With 260 HP IO-540-D4A5 engine</u>	<u>Knots</u>	<u>MPH</u>
	V_{NE} (Never Exceed)	141	162
	V_A (Manoeuvring)	117	135
	V_{NO} (Max. Structural Cruise)	126	145
	V_{FE} (Flaps Extended)	103	118
	<u>With 300 HP IO-540-L1C5 engine</u>		
	V_{NE} (Never Exceed)	141	162

Airspeed Limits (CAS) (Cont'd)	V _A	(Manoeuvring)	117	135
	V _{NO}	(Max. Structural Cruise)	126	145
	V _{FE}	Flaps Extended)	103	118

C.G. Range

Landplane

<u>Gross Weight</u>	<u>Fwd. Limit</u>	<u>Aft Limit</u>
3200 lbs. (1451 kg)	+17.0 in.	+24.5 in.
1900 lbs. (862 kg)	+17.0 in.	+24.5 in.

Skiplane

<u>Gross Weight</u>	<u>Fwd. Limit</u>	<u>Aft Limit</u>
3200 lbs. (1451 kg)	+17.0 in.	+24.5 in.
1900 lbs. (862 kg)	+17.0 in.	+24.5 in.

Seaplane

<u>Gross Weight</u>	<u>Fwd. Limit</u>	<u>Aft Limit</u>
3500 lbs (1588 kg)***	+17.0 in.	+23.5 in.
1900 lbs (862 kg)	+17.0 in.	+23.5 in.

Straight line variation between points.

***Gross weight and C of G limits may vary depending on the option installed.

See the Option Equipment section for specific float installation.

All versions See Note 2.

Datum	Landplane:	Main wheel axle.
	Seaplane:	Lower forward corner of the front door.

Maximum Weight	Landplane	3,200 lbs. (1451 kg)
	Skiplane	3,200 lbs. (1451 kg)
	Seaplane	3,500 lbs. (1588 kg)***
	*** Maximum weight will vary depending on the floats installed.	

Maximum Occupants	5, including pilot.	(2 at +17.8 in., and 3 at +55 in.)
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Fuel Capacity	At +21.8 in.	<u>Litres</u>	<u>Imp. Gals</u>	<u>U.S. Gals</u>
	Usable	372	81.9	98.3
	Unusable	6	1.4	1.7
	Total	378	83.3	100.0

Oil Capacity 11.4 litres / 10 imperial quarts / 12 U.S. quarts maximum

Control Surface Movements	Wing Flaps	0°	Up	8,15,22,32°	Down
	Aileron	18°	Up	12°	Down
	Elevator (0° Stab.)	29.5°	Up	21.5°	Down
	Stabilizer	6°	Up	4°	Down***
	Rudder	30°	Left	30°	Right

*** Up and Down refer to the leading edge of the stabilizer

Approved Configuration	The approved configuration is defined by the latest CAA approved revision of the “Master Drawing List”, Document No. MDL-2C1, or other CAA approved data.
Serial Numbers Eligible	28 to 59 manufactured by Found Aircraft Canada Inc.
Certification Basis	<p>Part 23 of the U. S. Federal Aviation Regulations effective February 1, 1965, as amended by 23-1 through 23-6 except as follows:</p> <p>As amended by Amendment 23-7 23-51, 23-65, 23-75, 23-77, 23.611, 23.619, 23.623, 23.683, 23.689, 23.775, 23.871, 23.954, 23.1147, 23.1323, 23.1563</p> <p>As amended by Amendment 23-10 23.1524</p> <p>As amended by Amendment 23-14 23.771, 23.1365</p> <p>As amended by Amendment 23-17 23.607, 23.675, 23.685, 23.733, 23.1309</p> <p>As amended by Amendment 23-18 23.959</p> <p>As amended by Amendment 23-20 23.1301</p> <p>As amended by Amendment 23-21 23.1353, 23.1541, 23.1559</p> <p>As amended by Amendment 23-23 23.603, 23.605, 23.863, 23.1545</p> <p>As amended by Amendment 23-26 23.1529</p> <p>As amended by Amendment 23-29 23.995, 23.1143</p> <p>As amended by Amendment 23-33 23.777, 23.779, 23.781</p> <p>As amended by Amendment 23-34 23.1, 23.853, 23.1165</p> <p>As amended by Amendment 23-36 23.787</p> <p>As amended by Amendment 23-41 23.1311, 23.1321</p> <p>As amended by Amendment 23-42 23.301, 23.331, 23.351, 23.421, 23.423, 23.425, 23.427 23.441, 23.443, 23.677, 23.701, 23.735, 23.831</p> <p>As amended by Amendment 23-43 23.901, 23.903, 23.905, 23.925, 23.951, 23.953, 23.955, 23.957, 23.963, 23.965, 23.967, 23.971, 23.973, 23.975, 23.977, 23.991, 23.993, 23.997, 23.999, 23.1093, 23.1145, 23.1303, 23.1322, 23.1337, 23.1351, 23.1357, 23.1361, 23.1385</p>

Certification Basis (Cont'd)	<p>As amended by Amendment 23-44 23.562(a), 23.562(e)</p> <p>As amended by Amendment 23-45 23.33, 23.305, 23.321, 23.397, 23.561, 23.572, 23.613, 23.621, 23.655, 23.731, 23.1549</p> <p>As amended by Amendment 23-46 23.783, 23.805, 23.807, 23.811</p> <p>Canadian Aviation Regulation Part V, Airworthiness Manual Chapter 516, Change 516-06, Volume 1, Aircraft Noise, effective 23 November 1999.</p>
Required Equipment	<p>The basic required equipment as prescribed in the applicable Airworthiness requirements (see Certification Basis), must be installed in the aircraft.</p>
Approved Publications	<p><u>With 260 HP engine:</u> CAA Approved Flight Manual AIR 3479 P/N FAC2-M100 dated November 10, 2000 or later approved revision.</p> <p><u>With 300 HP engine:</u> CAA Approved Flight Manual AIR 3480 P/N FAC2-M300 dated November 10, 2000 or later approved revision.</p> <p><u>With 300 HP engines with Modification 1043:</u> CAA Approved Flight Manual AIR 3481 P/N FAC2-M400 dated November 10, 2000 or later approved revision.</p> <p><u>With 260 HP or 300 HP engine:</u> Maintenance Program P/N FAC2-M200</p>
Optional Equipment	<p><u>Propeller and Propeller Accessories</u> - (reserved)</p> <p><u>Landing Gear</u></p> <p>203. Ski Installations</p> <p>(a) Wipaire/Fluidyne/Federal C3200 skis Maximum gross weight allowable 3200 lbs. (1451 kg). Installation and operation in accordance with the latest CAA approved revisions of Master Drawing List, Document No. MDL-2C1 and Flight Manual Supplement, P/N M300-S04 or other CAA approved data.</p> <p>(b) Wipaire/Fluidyne/Federal C3600 skis Maximum gross weight allowable 3200 lbs. (1451 kg). Installation and operation in accordance with the latest CAA approved revisions of Master Drawing List, Document No.</p>

Optional
Equipment
(Cont'd)

MDL-2C1 and Flight Manual Supplement, P/N M300-S04 or other CAA approved data.

204. Float Installations

- (a) EDO Model 628-2960 Floats, or Model 249A-2870 (modified per EDO drawing X-43521) floats, with 260 HP engine.
Maximum gross weight allowable 3,200 lbs (1451 kg).
Installation and operation in accordance with the latest CAA approved revisions of Master Drawing List, Document No. MDL-2C1 and Flight Manual Supplement, P/N FAC2-M100 or other CAA approved data.
- (b) Aerocet Model 3500 Floats, with 260 HP engine.
Maximum gross weight allowable 3,400 lbs (1542 kg).
Installation and operation in accordance with the latest CAA approved revisions of Master Drawing List, Document No. MDL-2C1 and Flight Manual Supplement, P/N FAC2-M100 or other CAA approved data.
- (c) Aerocet Model 3500L Floats, with 260 HP engine.
Maximum gross weight allowable 3,350 lbs (1520 kg).
Installation and operation in accordance with the latest CAA approved revisions of Master Drawing List, Document No. MDL-2C1 and Flight Manual Supplement, P/N FAC2-M100 or other CAA approved data.
- (d) Aerocet Model 3500 Floats, with 300 HP engine.
Maximum gross weight allowable 3,500 lbs (1588 kg).
Installation and operation in accordance with the latest CAA approved revisions of Master Drawing List, Document No. MDL-2C1 and Flight Manual Supplement, P/N M300-S01 or other CAA approved data.
- (e) Aerocet Model 3500L Floats, with 300 HP engine.
Maximum gross weight allowable 3,500 lbs (1588 kg).
Installation and operation in accordance with the latest CAA approved revisions of Master Drawing List, Document No. MDL-2C1 and Flight Manual Supplement, P/N M300-S01 or other CAA approved data.

205. Oversize Tire Installation.

- (a) Gar-Aero Wheel Adapters and 8.50-10 Tires with 260 HP or 300 HP engine.
Maximum gross weight allowable 3,200 lbs (1451 kg).
Installation and operation in accordance with the latest CAA approved revisions of Master Drawing List, Document No. MDL-2C1 and Flight Manual Supplement, P/N FAC2-M100 for 260 HP engine equipped aircraft or P/N M300-S02 for 300 HP engine equipped aircraft or other CAA approved data.

Optional
Equipment
(Cont'd)

Electrical Equipment - (reserved)

Interior Equipment

(a) Height Adjustable Front Seats

Installation in accordance with the latest CAA approved revision of "Master Drawing List", Document No. MDL-2C1 or other CAA approved data.

(b) Individual Rear Seats

Installation and operation in accordance with the latest CAA approved revision of "Master Drawing List", Document No. MDL-2C1 and Flight Manual Supplement, P/N FAC2-M111 or other CAA approved data.

Miscellaneous

Model FBA-2C1 aircraft modified per Found Aircraft Canada Inc. Mod 1043 are structurally and functionally equivalent to the FBA-2C2 and may be equipped and operated with the optional equipment listed in Section 3. These aircraft must be operated in accordance with CAA Approved Flight Manual AIR 3481 flight manual P/N FAC2-M400.

III - MODEL FBA-2C2 (Bush Hawk XP) (Normal Category) Approved 17 May 2004

This model is the 300 HP version of the FBA-2C1 modified to have Fowler-type slotted flaps in place of the original plain flaps.

Engine Lycoming IO-540-L1C5 (300 HP)

Engine Limits Maximum 2700 r.p.m. for all operations

Propeller and Propeller 1. Hartzell 3-blade variable pitch HC-C3YR-1RF/F8068
Diameter: Maximum 82 ins., Minimum 81 ins.

Limits Pitch setting at Station 30.0: Low 12.3°
High 31.0°

Constant Speed Governor, Hartzell V5-4

2. Hartzell 3-blade variable pitch HC-C3YR-1RF/F8468A-2R
Diameter: Maximum 84 ins., Minimum 83 ins.

Pitch setting at Station 30.0: Low 10.3°
High 31.0°

Constant Speed Governor, Hartzell V5-4

Airspeed		<u>Knots</u>	<u>MPH</u>
Limits (CAS)	V _{NE} (Never Exceed)	158	182
	V _A (Manoeuvring)	114	131
	V _{NO} (Max. Structural Cruise)	140	161
	V _{FE} (Flaps Extended)	115	132

C.G. Range	<u>Landplane</u>				
		<u>Gross Weight</u>	<u>Fwd. Limit</u>	<u>Aft Limit</u>	
		3500 lbs. (1588 kg)	+20.5 in.	+24.5 in.	
		2750 lbs. (1247 kg)	+17.0 in.	+24.5 in.	
		1950 lbs. (885 kg)	+17.0 in.	+24.5 in.	
		Straight line variation between points			
		<u>Seaplane</u>			
		<u>Gross Weight</u>	<u>Fwd. Limit</u>	<u>Aft Limit</u>	
		3800 lbs. (1724 kg) ***	+20.5 in.	+23.5 in.	
		2750 lbs. (1247 kg)	+17.0 in.	+23.5 in.	
	2250 lbs. (1021 kg)	+17.0 in.	+23.5 in.		
	Straight line variation between points				
	*** Gross weight and C of G limits may vary depending on the option installed. See the Optional Equipment section for specific float installations.				
	All versions: See Note 2.				
Datum	Landplane:	Main wheel axle			
	Seaplane:	Lower forward corner of the front door			
Maximum Weight	Landplane	3,500 lbs. (1588 kg)			
	Seaplane	3,800 lbs. (1724 kg) ***			
	*** Gross weight and C of G limits may vary depending on the option installed.				
Maximum Occupants	5, including pilot. (2 at +17.8 in., and 3 at +62 in.)				
Fuel Capacity	At +21.8 in.	<u>Litres</u>	<u>Imp. Gals.</u>	<u>U.S. Gals.</u>	
	Usable	372	81.9	98.3	
	Unusable	6	1.4	1.7	
	Total	378	83.3	100.0	
Oil Capacity	11.4 litres / 10 imperial quarts / 12 U.S. quarts maximum				
Control Surface Movements	Wing Flaps	0°	Up	30°	Down
	Aileron	18°	Up	12°	Down
	Elevator (0° Stab.)	29.5°	Up	21.5°	Down
	Stabilizer	3°	Up ***	5°	Down ***
	Rudder	24°	Left	24°	Right
	*** Up and Down refer to the leading edge of the stabilizer				
Approved Configuration	The approved configuration is defined by the latest CAA approved revision of the "Master Drawing List", Document No. MDL-2C2, or other CAA approved data.				

Serial Numbers Eligible	100 – 105 manufactured by Found Aircraft Canada Inc.
Certification Basis	<p>Same as Section 2 (FBA-2C1) except for :</p> <p>As amended by Amendment 23-7 23.49, 23.141, 23.207, 23.867</p> <p>As amended by Amendment 23-11 23.1397, 23.1401</p> <p>As amended by Amendment 23-23 23.345, 23.723</p> <p>As amended by Amendment 23-36 23.2</p> <p>As amended by Amendment 23-43 23.1305, 23.1307, 23.1365, 23.1387, 23.1389, 23.1391, 23.1393, 23.1395, 23.1431</p> <p>As amended by Amendment 23-45 23.25, 23.207, 23.473</p> <p>Canadian Aviation Regulations Part V, Airworthiness Manual Chapter 516, Change 516-06, Volume I, Aircraft Noise, effective 23 November 1999.</p>
Required Equipment	The basic required equipment as prescribed in the applicable airworthiness requirements (see Certification Basis), must be installed in the aircraft.
Approved Publications	<p>CAA Approved Flight Manual AIR 3481 P/N FAC2-M400 dated December 09, 2003, or later approved revision.</p> <p>Maintenance Program P/N FAC2-M200.</p>
Optional Equipment	<p><u>Propeller and Propeller Accessories</u> - (reserved)</p> <p><u>Landing Gear</u></p> <p>203. Ski Installations</p> <p>(a) Wipaire/Fluidyne/Federal C3200 skis Maximum gross weight allowable 3200 lbs. (1452 kg). Installation and operation in accordance with the latest CAA approved revisions of Master Drawing List, Document No. MDL-2C2 and Flight Manual Supplement, P/N M400-S05 or other CAA approved data.</p> <p>(b) Wipaire/Fluidyne/Federal C3600 skis Maximum gross weight allowable 3500 lbs. (1587 kg). Installation and operation in accordance with the latest CAA approved revisions of Master Drawing List, Document No. MDL-2C2 and Flight Manual Supplement, P/N M400-S06 or</p>

Optional
Equipment
(Cont'd)

other CAA approved data.

204. Float Installations

(a) Aerocet Model 3500 floats

Maximum gross weight allowable 3600 lbs. (1633 kg).

Installation and operation in accordance with the latest CAA approved revisions of Master Drawing List, Document No. MDL-2C2 and Flight Manual Supplement, P/N M400-S02 or other CAA approved data.

(b) Aerocet Model 3500L floats

Maximum gross weight allowable 3800 lbs. (1724 kg).

Installation and operation in accordance with the latest CAA approved revisions of Master Drawing List, Document No. MDL-2C2 and Flight Manual Supplement, P/N M400-S01 or other CAA approved data.

(c) Aerocet Model 3400 amphibious floats

Maximum gross weight allowable 3775 lbs. (1712 kg).

Installation and operation in accordance with the latest CAA approved revisions of Master Drawing List, Document No. MDL-2C2 and Flight Manual Supplement, P/N M400-S10 or other CAA approved data.

(d) Wipaire 3450 amphibious floats

Maximum gross weight allowable 3700 lbs. (1678 kg).

Installation and operation in accordance with the latest CAA approved revisions of Master Drawing List, Document No. MDL-2C2 and Flight Manual Supplement, P/N M400-S09 or other CAA approved data.

(e) Wipaire 3450 seaplane floats

Maximum gross weight allowable 3700 lbs. (1678 kg).

Installation and operation in accordance with the latest CAA approved revisions of Master Drawing List, Document No. MDL-2C2 and Flight Manual Supplement, P/N M400-S08 or other CAA approved data.

205. Oversize Tire Installation

(a) Gar-Aero Wheel Adapters and 8.50-10 Tires

Maximum gross weight allowable 3500 lbs. (1587 kg).

Installation and operation in accordance with the latest CAA approved revisions of Master Drawing List, Document No. MDL-2C2 and Flight Manual Supplement, P/N M400-S03 or other CAA approved data.

Electrical Equipment - (reserved)

Interior Equipment

(a) Height Adjustable Front Seats

Optional Equipment (Cont'd) Installation in accordance with the latest CAA approved revision of Master Drawing List, Document No. MDL-2C2 or other CAA approved data.

(b) Individual Rear Seats
Installation and operation in accordance with the latest CAA approved revision of Master Drawing List, Document No. MDL-2C2 and Flight Manual Supplement P/N M400-S07 or other CAA approved data.

Miscellaneous (Not listed above) – (reserved)

IV - MODEL FBA-2C3 (Expedition E350) (Normal Category) Approved 25 July 2008

This model is the 315 HP tricycle landing gear equipped version of the FBA-2C2.

Engine Lycoming IO-580-B1A (315 HP)

Engine Limits Maximum 2700 r.p.m. for all operations

Propeller and Propeller Hartzell 3-blade variable pitch HC-C3YR-1RF/F8068
Limits Diameter: Maximum 82 ins., Minimum 81 ins.
Pitch setting at Station 30.0: Low 12.3°
High 31.0°
Constant Speed Governor, Hartzell V5-4

Airspeed Limits (CAS)		<u>Knots</u>
V _{NE}	(Never Exceed)	188
V _A	(Manoeuvring)	117
V _{NO}	(Max. Structural Cruise)	153
V _{FE}	(Flaps Extended)	115

C.G. Range Landplane

Gross Weight	<u>Fwd. Limit</u>	<u>Aft Limit</u>
3800 lbs. (1724 kg)	+20.5 in.	+24.5 in.
2600 lbs. (1179 kg)	+15.0 in.	+24.5 in.
2200 lbs. (997 kg)	+15.0 in.	+24.5 in.

Straight line variation between points

Seaplane

See the Optional Equipment section for specific float installations.

All versions: See Note 2.

Datum Landplane: ½" aft of the lower hinge pin on front door.
Seaplane: Same as above.

Maximum Weight Landplane 3,800 lbs. (1724 kg)
 Seaplane 3,800 lbs. (1724 kg) ***
 *** Gross weight and C of G limits may vary depending on the option installed.

Maximum Occupants 5, including pilot. (2 at +17.8 in., and 3 at +62 in.)

Fuel Capacity	At +21.8 in.	<u>Litres</u>	<u>U.S. Gals.</u>
	Usable	372	98.3
	Unusable	6	1.7
	Total	378	100.0

Oil Capacity 10.4 litres / 11 U.S. quarts maximum

Control Surface Movements	Wing Flaps	0°	Up	30°	Down
	Aileron	18°	Up	12°	Down
	Elevator (0° Stab.)	33°	Up	22°	Down
	Stabilizer	3°	Up***	5°	Down***
	Rudder	24°	Left	28°	Right

*** Up and Down refer to the leading edge of the stabilizer

Approved Configuration The approved configuration is defined by the latest CAA approved revision of the “Master Drawing List”, Document No. MDL-2C3, or other CAA approved data.

Serial Numbers Eligible 300 - 313 manufactured by Found Aircraft Canada Inc.
 314 and 315 manufactured by Pacific Aerospace Ltd.
 316 onwards manufactured by NZSkydive Limited trading as NZAero under Aircraft Manufacturing organisation certificate AM98516. Company trading name change effective 21 February 2024.

Certification Basis Part 23 of the U. S. Federal Aviation Regulations effective February 1, 1965, as amended by 23-1 through 23-6 except as follows:

As amended by Amendment 23-7
 23.141, 23.395, 23.505, 23.619, 23.623, 23.625, 23.683, 23.689,
 23.726, 23.727, 23.871, 23.954, 23.1147 23.1505

As amended by Amendment 23-10
 23.1524

As amended by Amendment 23-11
 23.1397, 23.1401

As amended by Amendment 23-14
 23.507, 23.509, 23.771, 23.1017, 23.1182

As amended by Amendment 23-17
 23.675, 23.685, 23.1125

As amended by Amendment 23-20

Certification Basis (Cont'd)

23.1301, 23.1327, 23.1547
 As amended by Amendment 23-21
 23.29, 23.1501, 23.1541
 As amended by Amendment 23-23
 23.603, 23.605
 As amended by Amendment 23-26
 23.1529
 As amended by Amendment 23-29
 23.995, 23.1143
 As amended by Amendment 23-33
 23.781
 As amended by Amendment 23-34
 23.1, 23.333, 23.863, 23.1165, 23.1523
 As amended by Amendment 23-36
 23.2
 As amended by Amendment 23-42
 23.331, 23.351, 23.421, 23.423, 23.425, 23.427, 23.445, 23.831
 As amended by Amendment 23-43
 23.905, 23.943, 23.951, 23.957, 23.961, 23.967, 23.971, 23.977, 23.991,
 23.993, 23.997, 23.999, 23.1011, 23.1103, 23.1123, 23.1145, 23.1193,
 23.1303, 23.1307, 23.1322, 23.1331, 23.1357, 23.1385, 23.1387,
 23.1389, 23.1391, 23.1393, 23.1395, 23.1431
 As amended by Amendment 23-44
 23.562(a), 23.562(e)
 As amended by Amendment 23-45
 23.23, 23.305, 23.321, 23.361, 23.397, 23.485, 23.523, 23.525, 23.527,
 23.529, 23.531, 23.613, 23.621, 23.655, 23.731, 23.733, 23.737, 23.751,
 23.753, 23.773, 23.851, 23.1507, 23.1525, 23.1527, 23.1549, 23.1557
 As amended by Amendment 23-46
 23.805, 23.811
 As amended by Amendment 23-48
 23.301, 23.335, 23.337, 23.341, 23.343, 23.345, 23.347, 23.349, 23.371,
 23.391, 23.393, 23.399, 23.441, 23.443, 23.455, 23.473, 23.499, 23.521,
 23.561, 23.572, 23.573, 23.607, 23.611, 23.657, 23.673, 23.725, 23.865
 As amended by Amendment 23-49
 23.677, 23.701, 23.723, 23.729, 23.735, 23.745, 23.775, 23.783, 23.785,
 23.787, 23.807, 23.853, 23.855, 23.867, 23.1309, 23.1311, 23.1321,
 23.1323, 23.1351, 23.1353, 23.1359, 23.1361, 23.1365, 23.1383
 As amended by Amendment 23-50
 23.3, 23.25, 23.33, 23.45, 23.49, 23.51, 23.53, 23.63, 23.65, 23.69, 23.71,
 23.73, 23.75, 23.77, 23.201, 23.203, 23.207, 23.237, 23.1325, 23.1511,
 23.1521, 23.1543, 23.1545, 23.1553, 23.1555, 23.1559, 23.1563,
 23.1567, 23.1581, 23.1583, 23.1585, 23.1587, 23.1589
 As amended by Amendment 23-51
 23.777, 23.779, 23.907, 23.925, 23.955, 23.959, 23.963, 23.965, 23.973,
 23.975, 23.1041, 23.1043, 23.1047, 23.1091, 23.1093, 23.1105, 23.1107,
 23.1121, 23.1181, 23.1183, 23.1191, 23.1337
 As amended by Amendment 23-52

Certification Basis (Cont'd)	<p>23.1305 As amended by Amendment 23-53</p> <p>23.901 As amended by Amendment 23-54</p> <p>23.903 Canadian Aviation Regulations Part V, Airworthiness Manual Chapter 516, Change 516-06, Volume I, Aircraft Noise, effective 23 November 1999.</p> <p>For aircraft equipped with a Garmin G500, G500TXi or G600 avionics system (which includes a Garmin GNS430W, GNS530W, GTN6XX or GTN7XX Navigator), the additional certification basis, for installation specific items only, is amended to include the following regulations at the amendment level stated: 23.1303 as amended by Amendment 23-49 23.1307 as amended by Amendment 23-49 23.1308 as amended by Amendment 23-57 23.1431 as amended by Amendment 23-49</p> <p>For aircraft equipped with an S-Tec autopilot system, the additional certification basis, for installation specific items only, is amended to include the following regulations at the amendment level stated: 23.1329 as amended by Amendment 23-49 23.1335 as amended by Amendment 23-20</p>
Required Equipment	The basic required equipment as prescribed in the applicable airworthiness requirements (see Certification Basis), must be installed in the aircraft.
Approved Publications	<p>CAA Approved Flight Manual AIR 3654 P/N FM2C3 dated July 25, 2008 or later approved revision.</p> <p>Maintenance Program P/N FAC2-M200.</p>
Optional Equipment	<p><u>Propeller and Propeller Accessories</u> - (reserved)</p> <p><u>Landing Gear</u></p> <p>203. Ski Installations – (reserved)</p> <p>204. Float Installations</p> <p>(a) Aerocet Model 3500L and 3500 floats Maximum gross weight allowable 3800 lbs. (1724 kg). Installation and operation in accordance with the latest CAA approved revisions of Master Drawing List, Document No. MDL-1273 and Flight Manual Supplement, P/N S02 or other CAA approved data.</p> <p>(b) Aerocet Model 3400 amphibious floats Maximum gross weight allowable 3775 lbs. (1712 kg).</p>

Optional Equipment (Cont'd) Installation and operation in accordance with the latest CAA approved revisions of Master Drawing List, Document No. MDL-1272 and Flight Manual Supplement, P/N S01 or other CAA approved data.

205. Oversize Tire Installation – (reserved)

V - MODEL FBA-2C4 (Normal Category) Approved 5 June 2012

This model is a tail wheel landing gear version of the FBA-2C3.

Engine Lycoming IO-580-B1A (315 HP)

Engine Limits Maximum 2700 r.p.m. for all operations

Propeller and Propeller Hartzell 3-blade variable pitch HC-C3YR-1RF/F8068
Diameter: Maximum 82 ins., Minimum 81 ins.
Limits Pitch setting at Station 30.0: Low 12.3°
High 31.0°
Constant Speed Governor, Hartzell V-5-4

Airspeed Limits (CAS)		<u>Knots</u>
V _{NE} (Never Exceed)		188
V _A (Manoeuvring)		117
V _{NO} (Max. Structural Cruise)		153
V _{FE} (Flaps Extended)		115

C.G. Range Landplane

Gross Weight	<u>Fwd. Limit</u>	<u>Aft Limit</u>
3800 lbs. (1724 kg)	+20.5 in.	+24.5 in.
2600 lbs. (1179 kg)	+15.0 in.	+24.5 in.
2200 lbs. (997 kg)	+15.0 in.	+24.5 in.

Straight line variation between points

Seaplane

See the Optional Equipment section for specific float installations.

All versions: See Note 2.

Datum Landplane: ½" aft of the lower hinge pin on front door.
Seaplane: Same as above.

Maximum Weight Landplane 3,800 lbs. (1724 kg)
Seaplane 3,800 lbs. (1724 kg) ***

*** Gross weight and C of G limits may vary depending on the option installed.

Maximum Occupants	5, including pilot. (2 at +17.8 in., and 3 at +62 in.)				
Fuel Capacity	At +21.8 in.	<u>Litres</u>	<u>U.S. Gals.</u>		
	Usable	372	98.3		
	Unusable	6	1.7		
	Total	378	100.0		
Oil Capacity	10.4 litres / 11 U.S. quarts maximum				
Control Surface Movements	Wing Flaps	0°	Up	30°	Down
	Aileron	18°	Up	12°	Down
	Elevator (0° Stab.)	33°	Up	22°	Down
	Stabilizer	30°	Up***	5°	Down***
	Rudder	24°	Left	28°	Right
	*** Up and Down refer to the leading edge of the stabilizer				
Approved Configuration	The approved configuration is defined by the latest CAA approved revision of the "Master Drawing List", Document No. MDL-2C4, or other CAA approved data.				
Serial Numbers Eligible	4000 manufactured by Found Aircraft Canada Inc.				
Certification Basis	Same as in Section 4 (FBA-2C3), with the addition of the following requirement: 23.497 Supplementary conditions for tail wheels (Amdt. 23-48)				
Required Equipment	The basic required equipment as prescribed in the applicable airworthiness requirements (see Certification Basis), must be installed in the aircraft.				
Approved Publications	CAA Approved Flight Manual AIR 3482 P/N FM2C4 dated December 31, 2011 or later approved revision. Maintenance Program P/N FAC2-M200.				
Optional Equipment	<u>Propeller and Propeller Accessories</u> - (reserved) <u>Landing Gear</u> 203. Ski Installations– (reserved) 204. Float Installations (a) Aerocet Model 3500L and 3500 floats Maximum gross weight allowable 3800 lbs. (1724 kg). Installation and operation in accordance with the latest CAA approved revisions of Master Drawing List, Document No. MDL-1273 and Flight Manual Supplement, P/N S02 or other CAA approved data.				

C.G. Range	2600 lbs. (1179 kg)	+15.0 in.	+24.5 in.
(Cont'd)	2200 lbs. (997 kg)	+15.0 in.	+24.5 in.
	Straight line variation between points		

Seaplane

See the Optional Equipment section for specific float installations.

All versions: See Note 2.

Datum	Landplane:	½" aft of the lower hinge pin on front door.			
	Seaplane:	Same as above.			
Maximum Weight	Landplane	3,800 lbs. (1724 kg)			
	Seaplane	3,800 lbs. (1724 kg) ***			
		*** Gross weight and C of G limits may vary depending on the option installed.			
Maximum Occupants	5, including pilot.	(2 at +17.8 in., and 3 at +62 in.)			
Fuel Capacity	At +21.8 in.	<u>Litres</u>	<u>U.S. Gals.</u>		
	Usable	372	98.3		
	Unusable	6	1.7		
	Total	378	100.0		
Oil Capacity	10.4 litres / 11 U.S. quarts maximum				
Control Surface Movements	Wing Flaps	0°	Up	30°	Down
	Aileron	18°	Up	12°	Down
	Elevator (0° Stab.)	33°	Up	22°	Down
	Stabilizer	3°	Up***	5°	Down***
	Rudder	24°	Left	28°	Right
		*** Up and Down refer to the leading edge of the stabilizer			
Approved Configuration	The approved configuration is defined by the latest CAA approved revision of the "Master Drawing List", Document No. MDL-2C3T, or other CAA approved data.				
Serial Numbers Eligible	NIL manufactured by Found Aircraft Canada Inc.				
Certification Basis	Same as in Section 4 (FBA-2C3) with the addition of the following requirements: 23.909 Turbocharger systems (Amdt 23-43) 23.939 Powerplant operating characteristics (Amdt 23-42) 23.1441 Oxygen equipment and supply (Amdt 23-43) 23.1443 Minimum mass flow of supplemental oxygen (Amdt. 23-62) 23.1445 Oxygen distribution system (Amdt. 23-62) 23.1447 Equip't standards for oxygen dispensing units (Amdt. 23-62)				

Certification Basis (Cont'd)	23.1449 Means for determining use of oxygen (Amdt. 23-9) 23.1451 Fire protection for oxygen equipment (Amdt. 23-49) 23.1453 Protection of oxygen equipment from rupture (Amdt. 23-49)
Required Equipment	The basic required equipment as prescribed in the applicable airworthiness requirements (see Certification Basis), must be installed in the aircraft.
Approved Publications	CAA Approved Flight Manual AIR 3483 P/N FM2C3T dated February 20, 2012 or later approved revision. Maintenance Program P/N FAC2-M200.
Optional Equipment	<u>Propeller and Propeller Accessories</u> - (reserved) <u>Landing Gear</u> 203. Ski Installations – (reserved) 204. Float Installations – (reserved) 205. Oversize Tire Installation – (reserved)

VII - MODEL FBA-2C4T (Normal Category) Approved 5 June 2012

This model is the 300 HP turbocharged engine equipped version of the FBA-2C4.

Engine	Lycoming TIO-540-AH1A (300 HP)		
Engine Limits	Maximum 2500 r.p.m. for all operations		
Propeller and Propeller Limits	Hartzell 3-blade variable pitch HC-C3YR-1RF/F8068+2 Diameter: Maximum 84 ins., Minimum 83 ins. Pitch setting at Station 30.0: Low 12.3° High 41.5°		
Airspeed Limits (CAS)		<u>Knots</u>	
	V _{NE} (Never Exceed)	188 from S/L to 14,000 ft MSL Linearly reducing from 188 @ 14,000 ft to 150 @ 25,000 ft.	
	V _A (Manoeuvring)	117	
	V _{NO} (Max. Structural Cruise)	153 from S/L to 14,000 ft MSL Linearly reducing from 153 @ 14,000 ft to 122 @ 25,000 ft.	
	V _{FE} (Flaps Extended)	115	
C.G. Range	<u>Landplane</u>		
	<u>Gross Weight</u>	<u>Fwd. Limit</u>	<u>Aft Limit</u>
	3800 lbs. (1724 kg)	+20.5 in.	+24.5 in.

C.G. Range (Cont'd)	2600 lbs. (1179 kg)	+15.0 in.	+24.5 in.		
	2200 lbs. (997 kg)	+15.0 in.	+24.5 in.		
	Straight line variation between points				
	<u>Seaplane</u>				
	See the Optional Equipment section for specific float installations.				
	All versions: See Note 2.				
Datum	Landplane:	½" aft of the lower hinge pin on front door.			
	Seaplane:	Same as above.			
Maximum Weight	Landplane	3,800 lbs. (1724 kg)			
	Seaplane	3,800 lbs. (1724 kg) ***			
	*** Gross weight and C of G limits may vary depending on the option installed.				
Maximum Occupants	5, including pilot.	(2 at +17.8 in., and 3 at +62 in.)			
Fuel Capacity	At +21.8 in.	<u>Litres</u>	<u>U.S. Gals.</u>		
	Usable	372	98.3		
	Unusable	6	1.7		
	Total	378	100.0		
Oil Capacity	10.4 litres / 11 U.S. quarts maximum				
Control Surface Movements	Wing Flaps	0°	Up	30°	Down
	Aileron	18°	Up	12°	Down
	Elevator (0° Stab.)	33°	Up	22°	Down
	Stabilizer	3°	Up***	5°	Down***
	Rudder	24°	Left	28°	Right
	*** Up and Down refer to the leading edge of the stabilizer				
Approved Configuration	The approved configuration is defined by the latest CAA approved revision of the "Master Drawing List", Document No. MDL-2C4T, or other CAA approved data.				
Serial Numbers Eligible	NIL manufactured by Found Aircraft Canada Inc.				
Certification Basis	Same as in Section 4 (FBA-2C3) with the addition of the following requirements: 23.497 Supplementary conditions for tail wheels (Amdt. 23-48) 23.909 Turbocharger systems (Amdt 23-43) 23.939 Powerplant operating characteristics (Amdt 23-42) 23.1441 Oxygen equipment and supply (Amdt 23-43) 23.1443 Minimum mass flow of supplemental oxygen (Amdt. 23-62)				

Certification Basis (Cont'd)	<p>23.1445 Oxygen distribution system (Amdt. 23-62)</p> <p>23.1447 Equip't standards for oxygen dispensing units (Amdt. 23-62)</p> <p>23.1449 Means for determining use of oxygen (Amdt. 23-9)</p> <p>23.1451 Fire protection for oxygen equipment (Amdt. 23-49)</p> <p>23.1453 Protection of oxygen equipment from rupture (Amdt. 23-49)</p>
Required Equipment	The basic required equipment as prescribed in the applicable airworthiness requirements (see Certification Basis), must be installed in the aircraft.
Approved Publications	<p>CAA Approved Flight Manual AIR 3484 P/N FM2C4T dated February 20, 2012 or later approved revision.</p> <p>Maintenance Program P/N FAC2-M200.</p>
Optional Equipment	<p><u>Propeller and Propeller Accessories</u> - (reserved)</p> <p><u>Landing Gear</u></p> <p>203. Ski Installations– (reserved)</p> <p>204. Float Installations– (reserved)</p> <p>205. Oversize Tire Installations</p> <p>(a) Alaskan Bushwheel Tires, 26" (P/N 26126) and 29" (P/N 29136) Maximum gross weight allowable 3800 lbs. (1724 kg). Installation and operation in accordance with the latest CAA approved revisions of Master Drawing List, Document No. MDL-2C4 and Flight Manual AIR 3484 P/N FM2C4 or other CAA approved data.</p> <p>(b) Alaskan Bushwheel 10" Wheels (P/N ABI-1010) with 8.50-10 or 29x11-10 Tires Maximum gross weight allowable 3800 lbs. (1724 kg). Installation and operation in accordance with the latest CAA approved revisions of Master Drawing List, Document No. MDL-2C4 and Flight Manual AIR 3484 P/N FM2C4T or other CAA approved data.</p>

DATA PERTINENT TO ALL MODELS EXCEPT AS INDICATED

Fuel Model FBA-2C
91/96 Minimum Grade Aviation Gasoline
Models FBA-2C1, -2C2, -2C3, -2C3T, -2C4 & -2C4T
Refer to Flight Manual as listed in Approved Publications.

Leveling Means Aircraft cabin floor level - laterally and longitudinally.

Maximum Model FBA-2C
Baggage 150 lbs. (68 kg) at 92.5 in.
Models FBA-2C1, -2C2, -2C3, -2C3T, -2C4 & -2C4T
250 lbs. (113 kg) at 94 in.

NOTE 1 This type certificate has been issued on the basis of Canadian Department of Transport Type Certificate A-67 Issue 15 dated 05 June 2012 and which was transferred to Pacific Aerospace Ltd on 23 November 2017 from Found Aircraft Canada Inc., Parry Sound, Ontario, Canada.

Upon transfer of the type certificate New Zealand became state-of-design and NZSkydive, trading as Pacific Aerospace, assumed responsibility for continuing airworthiness of all aircraft eligible under this type certificate.

NZSkydive trading name change from Pacific Aerospace to NZAero effective 21 February 2024.

NOTE 2 (a) Current weight and balance report including list of equipment included in the certificated weight empty, and loading instructions when necessary, must be in each aircraft at the time of original certification and at all times thereafter.

(b) The certificated empty weight and corresponding centre of gravity locations must include unusable fuel.

FBA-2C	7.5 lbs. (+20.75 in.)
FBA-2C1 Bush Hawk	10.2 lbs. (+21.8 in.)
FBA-2C2 Bush Hawk XP	10.2 lbs. (+21.8 in.)
FBA-2C3 Expedition E350	10.2 lbs. (+21.8 in.)
FBA-2C4	10.2 lbs. (+21.8 in.)
FBA-2C3T	10.2 lbs. (+21.8 in.)
FBA-2C4T	10.2 lbs. (+21.8 in.)

DATA PERTINENT TO ALL MODELS EXCEPT AS INDICATED (Cont'd)

NOTE 3 The following placards must be displayed in clear view of the pilot:

Model FBA-2C

- (a) "THIS AIRPLANE MUST BE OPERATED AS A NORMAL CATEGORY AIRPLANE IN COMPLIANCE WITH THE OPERATING LIMITATIONS IN THE FORM OF PLACARDS, MARKINGS AND MANUALS."
- (b) "NO ACROBATIC MANOEUVRES INCLUDING SPINS APPROVED."

Models FBA-2C1, -2C2, -2C3, 2C3T, 2C4 & 2C4T

- (a) "The markings and placards installed in this airplane contain operating limitations which must be complied with when operating this airplane in the normal category. Other operating limitations which must be complied with when operating this airplane in this category are contained in the Airplane Flight Manual."
- (b) Normal Category:
"No acrobatic manoeuvres including spins approved."
- (c) "Flight into known icing conditions is prohibited.
This airplane is certified for the following flight operations:
DAY – NIGHT – VFR – IFR
(WITH REQUIRED EQUIPMENT)"

- END -