TYPE CERTIFICATE DATA SHEET № EA-2006T01

Type Certificate Holder:

ASI AVIATION Aerodrome de Reims Prunay 51360 Prunay France

This data sheet, which is part of Type Certificate No. 2006T01, prescribes conditions and limitations under which the product, for which the Type Certificate was issued, meets the airworthiness requirements of the

I - Model Reims/Cessna F406, (Normal Category), approved 10 May 2006.

ENGINE

Two Pratt & Whitney Canada Inc., turboprops model PT6A-112. (Brazilian Engine Type Certificate EM-8005-05)

FUEL Jet A, Jet A-1, Jet B, JP1, JP4, JP5, JP8, Anti-icing additive per MIL-I-27686E, MIL-DTL-85470B in concentrations not less than 0.060% or more than 0.15% by volume.

	Shaft horsepower Hp (Kw)	Ng Gas generator speed % (rpm)	Indicated torque m.daN (ft-lb)	Propeller shaft speed (rpm)	Maximum permisssible inter-turbine temp. (°C)
Takeoff static and maximum continuous	500 (373)	101.6 (38 100)	187.4 (1 382)	1 900	725
Starting (2 sec.)	-	-	-	-	1 090
Maximum reverse	480 (358)	101.6 (38 100)	187.4 (1 382)	1 815	725

PROPELLER

Two McCauley three-bladed, full-feathering reversible. (Brazilian Propeller Type Certificate EH-8804)

Hub	Blade	Diameter m (in)		Reverse*	Low pich*	Feathered*	
3GFR34C701	93 KB-0	Min. 2.30 (90-5/8 in)	Max 2.36 (93 in)	-13.5º	18.5°	85.5°	

*Pitch measured at 0.76 m (30 in) station.

15 March 2016 (former REIMS AVIATION INDUSTRIES) Brazilian Aeronautical Regulations.

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ENGINE LIMITS

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2 540 mm (100 in) forward of the front face of forward bulkhead which is station +100.00.								
Two screws located on W.L. 238.25 cm (93.80 in) at station 248.25 and station 272.65.								
ff and Landing:	4 246 kg (9 360 lb)							
	3 856 kg (8 500 lb)							
:	4 280 kg (9 435 lb)							
<u>ff:</u>	<u>4 468 kg (9 850 lb)</u>							
ng:	4 246 kg (9 360 lb)							
Fuel	<u>3 856 kg (8 500 lb)</u>							
<u>zero wing locker payload):</u>	<u>4 502 kg (9 925 lb)</u>							
ilot.								
One through eleven (<u>RBAC/14 CFR</u> One through <u>fourteen</u> <u>PART</u> 23)								
s at + 3 480 mm (+137.0 ir s at + 4 270 mm (+168.0 ir s at + 4 990 mm (+196 0 ir	n) 2 seats at + 3 480 m n) 2 seats at + 4 220 m n) 2 seats at + 4 880 m	2 seats at + 3 480 mm (+137.0 in) 2 seats at + 4 220 mm (+166.0 in) 2 seats at + 4 880 mm (+192.0 in)						
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	2 seats at + 5 6 1 seat at + 6 40 2 seats at + 7 1 See aircraft wei arrangements ir	90 mm (+224.0 i 1 mm (+252.0 in 10 mm (+280.0 i ght and balance n the cabin.	in) 2 seats at + 5 540 mm (+218) n) 2 seats at + 6 200 mm (+244) in) 2 seats at + 6 860 mm (+270) 2 seats at + 7 520 mm (+296) e data sheet and the AFM for other seats						
MAXIMUM BAGGAGE	In the nose: 113 kg (250 lb) at + 810 mm (+ 32.0 in) 159 kg (350 lb) at +1 800 mm (+71.0 in)								
MAXIMUM BAGGAGE (Cont.)	In the aft cabin: 181 kg (400 lb) at + 5 360 mm (+211.0 in) 181 kg (400 lb) at + 7 650 mm (+301.0 in) 45 kg (100 lb) at + 8 050 mm (+317.0 in)								
	In the wings: 91 kg (20 <u>1</u> lb) a	t + 5 360 mm (+:	211.0 in)						
FUEL CAPACITY	Total capacity: 1 458 kg (3 227 lb) or 1822 I (481.5 gal) in two standard wing tanks at 4 620 mm (+181.9 in); Usable total capacity: 1 439 kg (3 183 lb) or 1798 I (475 gal). See Note 7.								
OIL CAPACITY	<u>17.4 I (4.6 gal)</u>								
MAX. OPERATING ALTITUDE	9 144 m (30 000	D ft)							
CONTROL SURFACE	Elevator (horn faired) Elevator trim taba	Up 14° +1°/-0°	Down 17	″° +1°/-0°					
		Up 8° +1°/-0°	Down 10)° +2°/-0°					
	Rudder (perpendicular t faired with fin)	o hinge 0°	Right 32	° +1°/-0°	Left 32° 1°/-0°				
	Rudder trim tab (perpendicular t	o hinge)	Right 11	° +1°/-0°	Left 16° +1°/-0°				
	Aileron Aileron trim tab Wing flaps:	Up 25° + Up 19° + Inboard:	-1°/-0° ⊦1°/-0°	Down 14° +1°/-0° Down 19° +1°/-0° Down: 30° +1°/-0°					
			Outboar	d:	Down: 20° +1°/-0°				
SERIAL NUMBERS ELIGIBLE	A Certificate of Airworthiness for Export endorsed as noted under "Import Requirements" must be submitted for each individual aircraft for which application for a Brazilian Standard Airworthiness Certificate.								
IMPORT ELEGIBILITY	ITY A Brazilian Standard Airworthiness Certificate may be issued on the b of on a DGAC (France) Export Certificate of Airworthiness (or a country Export Certificate on Airworthiness, in case of used air imported from such country), including the following statement:								
	"The aircraft found to be i defined by the safe operation	'The aircraft covered by this certificate has been inspected, tested and found to be in conformity with the Brazilian approved type design as defined by the Brazilian Type Certificate Nº 2006T01 and in condition for safe operation".							

CERTIFICATION BASIS	The certification basis for the aircraft model is <u>RBAC 21.29 and RBAC 23</u>
	"Aviões Categoria Normal, Utilidade, Acrobática e Transporte Regional",
	which endorses the 14 CFR part 23 effective 01 February 1965, as
	amended by 23-1 through 23-13, except as follows:
	RBAC/14 CFR part 23.23 thru 23.31, 23.51 thru 23.63, 23.66, 23.71 thru

23.75, 23.141 thru 23157, 23.171 thru 23.253, 23.427, through amendment 23-14;

- <u>RBAC/14 CFR part</u> 23.45, 23.49, 23.65, 23.67, 23.77, 23.161, 23.901, 23.905 thru 23.1017, 23.929, 23.933, 23.951, 23.971, 23.979, 23.997, 23.999, 23.1013, 23.1015, 23.1019(a)(1), 23.1019 (a)(2), 23.1019 (a)(4), 23.1019 (a)(5), 23.1019(b), 23.1021 thru 23.1203, 23.1303 (a through d), 23.1305 (a thru u and w), 23.1323, 23.1325, 23.1329, 23.1331, 23.1337, 23.1351 thru 23.1357, 23.1521, 23.1549, 23.1551, 23.1553 through Amendment 23-21;
- <u>RBAC/14 CFR part</u> 23.1545 through Amendment 23-23;
- <u>RBAC/14 CFR part</u> 23.903, 23.1529 through Amendment 23-26; and
- Annex 16 of ICAO Volume I, Chapter 6, Amendment 1, effective 24 November 1983.

In addition to the above certification basis, compliance with ice protection has been demonstrated in accordance with <u>RBAC/14 CFR PART</u> 23.773 and 23.1419 of Amendment 23-14, <u>RBAC/14 CFR PART</u> 23.1309 of Amendment 23-17, and <u>RBAC/14 CFR PART</u> 23.1416 of Amendment 23-23 when ice protection equipment is installed in accordance with CESSNA drawing N^o 6015 006, Factory Kit (FK) N^o 194, and POH/AFM supplement N^o 5, EASA approved.

In addition to the above certification basis, SFAR 41c adopted at 21 July 1982 and effective at 13 September 1982.

In addition of the above certification basis, these additional requirements are applicable with GARMIN Avionic Suite System G600 Installation (ASI Aviation FAM468); CS23.771, CS23.773, CS23.867, CS23.1301, CS23.1321 thru CS23.1309, CS23.1311, CS23.1323, CS23.1325, CS23.1327, CS23.1329. CS23.1331, CS23.1335, CS23.1351. CS23.1357, CS23.1359, CS23.1365, CS23.1367, CS23.1381, CS23.1501. CS23.1525. CS23.1529. CS23.1541. CS23.1431, CS23.1543, CS23.1545, CS23.1547 as amended thru Amdt. 2.

Equivalent Level of Safety Items (ELOS):

 Equivalent Levels of Safety finding made per the provisions of <u>RBAC</u>/<u>14 CFR PART</u> 23.1189(a) of Amendment 23-23.

Special Conditions (SC):

- In addition to the requirements of <u>RBAC/14 CFR PART</u> 23.677, it must be demonstrated that, at critical weights and center of gravity positions, the airplane is safely controllable and that a pilot can perform all the maneuvers and operations necessary to affect a safe landing following any probable electric trim tab runaway which might be reasonably expected in service allowing for appropriate time delay after pilot recognition of the runaway;
- In addition to the requirements of <u>RBAC/14 CFR PART</u> 23.629(f) of Amendment 23-23, it must be shown by analysis or test, or by a combination of analysis and tests, that the airplane is free from flutter, control reversal, and divergence up to V_D/M_D after the failure, malfunction, or disconnection of any single element in the elevator tabs control system; and

- **DESIGN DATA** The airplane shall be manufactured in accordance with the latest EASA approved revision of "Master Drawing List", Document No. MEDB 1485, Rev. 01 dated 26 February 2001, or other EASA approved data.
- **REQUIRED 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 to the above required equipment, the following equipment are also required:

- The latest ANAC Approved Brazilian Airplane Flight Manual (ANAC POH/AFM) No. Nº D1624-E2R2-13BRPH; and
- Stall Warning Indicator Cessna DWG 57180030.

NOTES:

NOTE 1 Weight and balance:

A current weight and balance report including 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 loading corresponding center of gravity location must include unusable fuel of 19 kg (44 lb) or 24 l (6.5 gal) at 4 620 mm (+181.9 in).

- NOTE 2 <u>Markings and placards:</u> All placards specified in the approved Brazilian Airplane Flight Manual ANAC POH/AFM N° D1624-E2R2-13BRPH (AFM) must be displayed in the airplane in the appropriate locations. In addition, all markings and placards for passenger information, external markings for emergency, load limits in cargo/baggage compartments must be presented in Portuguese or bilingual.
- NOTE 3 <u>Continuing Airworthiness:</u> Approved Airworthiness Limitations for inspection time limits, maintenance checks, mandatory retirement life information and other requirements for continued airworthiness, are included in the latest approved revision of the Maintenance Manuals (with Maintenance Planning Manual, Structural Repair Manual and Weight and Balance) N^o D2536-54-13, Rev. 45, dated 05 October 2011.
- NOTE 4 The differences of the Brazilian airplanes in relation to the basic EASA type design are summarized below:
 1 The Brazilian Airplane Flight Manual (ANAC POH/AFM);
 - 2 Markings and placards.

NOTE 5 <u>CTA POH/AFM:</u>

ANAC approved Brazilian Airplane Flight Manual (ANAC POH/AFM) No. N^o D1624-E2R2-13BRPH, dated 24 April 2006 (or later approved revision), which corresponds to the EASA approved Flight Manual No. D1624-E2R2-13PH, Issue 2, Revision 2, dated January 2005 with Supplements 1 to 38 dated May 2004 (or later EASA approved revisions). The airplane must be operated according to the appropriate ANAC approved Brazilian Airplane Flight Manual.

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NOTE 6	The maximum (9 360 lb) to 4 0011. (See Sup	takeoff 468 kg (9 plement A	gross 850 lb) 10 of th	weight when m e section	of Iodifi 9 of	F406 ed in a the PC	is accor)H/A	increased rdance with FM.)	from Cessn	4 a Ki	246 it Nº	kg 406-
NOTE 7	Fuel weight 4.5	kg/l (6.70	lb/gal) (Density =	0.8)	e - Si Si					-	
NOTE 8	Model F406 air requires compl	planes whi iance with	ch have Reims	e the fact	ory on Inc	option o dustries	ofa s Se	camera hol rvice Bulle	e in the tin, SB	e aft -F4(fusel 06-58	age, , as

mandated by DGAC (France), Emergency Airworthiness Directive (EAD) N UF 02005-080. The effected F406 airplane serial numbers are: 0002, 0003, 0004, 0006, 0008, 0009, 0010, 0012, 0013, 0017, 0024, 0025, 0039, 0042, 0044, 0045, 0066, 0070, 0073, 0074, 0075, 0077, from 0080 through 0090 and 0092.

11 Jan Mario Igawa

Gerente Geral de Certificação de Produtos Aeronáuticos (Manager, Aeronautical Products Certification Branch)