

Transports Canada

Type Certificate Data Sheet

Number:	A-275
Issue No.:	1
Approval Date:	Refer Below
Issue Date:	June 27, 2019

This Type Certificate Data Sheet (TCDS), which is part of Type Certificate (TC) No. A-275 prescribes the conditions and limitations under which the product(s) for which the Type Certificate was granted meet(s) the standards of airworthiness required by the Canadian Aviation Regulations.

Type Certificate Holder: Pilatus Aircraft Ltd. Ennetbürgerstrasse 101 6370 Stans Switzerland		Models			
			PC	2-24	
1.	MODEL PC-24	(Commuter	Category)	App	proved June 27, 2019
	Engines	2 Williams Internat	ional FJ44-4A-QPN	1	
	Fuel	Refer to the latest revision Williams International Engine Installation and Operating Instructions 110675-201 FJ-44-4A-QPM (73200-201) (including JET A, JET A-1, JP-8, TS-1).			
Fuel Anti-Ice Additives are not required.					
	Oil	Refer to the latest revision Williams International Engine Installation and Operating Instructions 110675-201 FJ-44-4A-QPM (73200-201) (including Mobil Jet II, Mobil 254)			gine Installation M (73200-201)
	Engine Limits	Thrust Setting	N ₁ Fan RPM	<u>ITT (1)</u>	N ₂ Turbine RPM
		Takeoff	104.7% (17,139 RPM)	855°C (2)	100.8% (37,773 RPM)
		Max Continuous	104.7% (17, 139 RPM)	835°C (2)	100.8% (37, 773 RPM)
		The PC-24 is approved for 10 Minutes OEI (see NOTE 4) ⁽¹⁾ ITT values are displayed limits and not actual temperature v ⁽²⁾ No transient permitted.		Έ4) nperature values.	
(Engine) power management de-rated minimum static thrus sea level with no installation losses: Maximum Takeoff 3,616 lb thrust at 22.7 Takeoff 3,435 lb thrust at 22.7 Max Continuous 3,433 lb thrust at 15 °C		tic thrust ratings at			
		Ν	Maximum Takeoff	3,616 lb thrus	t at 22.7 °C
		Т	akeoff	3,435 lb thrus	st at 22.7 °C
		Ν	lax Continuous	3,433 lb thrus	t at 15 °C
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Airspeed Limits (IAS)	V _{MO} M _{MO} V _A V ₄	290 KIAS 0.74 Mach 185 KIAS	
	Flaps 8°	82 KIAS weight \geq 13,6 87 KIAS weight $>$ 12,7 90 KIAS weight $>$ 11,0	669 lb (6,200 kg) 125 lb (5,500 kg) 023 lb (5,000 kg)
	Flaps 15°	77 KIAS weight ≥ 13,2 81 KIAS weight > 12,7 84 KIAS weight > 11,0	228 lb (6,000 kg) 125 lb (5,500 kg) 023 lb (5,000 kg)
	V _{MCL}		
	Flaps 15°	78 KIAS weight \geq 13,0	007 lb (5,900 kg)
		81 KIAS weight $> 12,1$	125 lb (5,500 kg)
		84 KIAS weight > 11,0)23 lb (5,000 kg)
	Flaps 33°	73 KIAS weight ≥ 13,2	228 lb (6,000 kg)
		77 KIAS weight > 12,1	125 lb (5,500 kg)
		80 KIAS weight > 11,0)23 lb (5,000 kg)
	V _{FE}		
	Flaps 8°	200 KIAS	
	Flaps 15°	200 KIAS	
	Flaps 33°	175 KIAS	
	V _{LE} V _{LO}	250 KIAS / 0.74 Mach	
	Extension	250 KIAS / 0.74 Mach	
	Retraction	200 KIAS	
	V _{TIRE}	165 knots (Max Tire G	round Speed)
Maximum Weights		For aircraft 101 - 130	For aircraft 101 - 130
		Pre 5B 42-002	131 - Up
	Max. Ramp	17,750 lb (8,050 kg)	18,400 lb (8,345 kg)
	Max. Takeoff	17,650 lb (8,005 kg)	18,300 lb (8,300 kg)
	Max. Landing	16,250 lb (7,370 kg)	16,900 lb (7,665 kg)
	Max Zero Fuel	13,448 lb (6,100 kg)	14,220 lb (6,450 kg)
Max. Baggage	400 lb (180 kg) (with small restraint net)		
	530 lb (240 kg) (with larg	ge restraint net)	
Datum	The Datum is 146.1 in (3,	711 mm) forward of for	ward jacking point.



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Fuel Capacity	Total capacity:	895 US gal 5999.8 lb	(3,389 Litres) (2,721 kg)
	Usable quantity:	890 US gal 5,964 lb	(3,369 Litres) (2,705 kg)
	Unusable fuel quantity:	5.3 US gal 35 lb	(20 Litres) (16 kg)
Oil Tank Capacity	Each engine tank: Oil Tank Total Volume Oil Tank Fill Volume: Oil Tank Usable Volum	: 5.85 US qt 5.65 US qt ne: 4.32 US qt	(5.54 Litres) (5.35 Litres) (4.09 Litres)
Control Surface Movements	Maximum Deflection		
	Control Surface Tra	ailing Edge Up or Le	eft <u>Trailing Edge Down or</u> Bight
	Flevator	$25^{\circ} + 1^{\circ} /_{-}0^{\circ}$	$\frac{Nigin}{15^{\circ} + 1^{\circ} / -0^{\circ}}$
	Ruddor	$23^{\circ} \pm 0.5^{\circ}$	$28^{\circ} \pm 0.5^{\circ}$
	Aileron	$25^{\circ} \pm 0.5^{\circ}$	$15^{\circ} \pm 0.5^{\circ}$
	Aileron Trim	$14.9^{\circ} \pm 0.5^{\circ}$	$10^{\circ} \pm 0.0^{\circ}$ 14 5° + 0 5°
	(at neutral position)	14.7 ± 0.5	14.5 ± 0.5
	Rudder Trim	$21.2^{\circ} + 1.0^{\circ}$	$24.2^{\circ} + 1.0^{\circ}$
	(at poutral position)	21.2 ± 1.0	24.2 ± 1.0
	(at neutral position)	-10°	+5°
	Stabilizer Trim (nominal)	-10	
	Flaps (nominal)	0°	33°
Serial Numbers Eligible	S/N 101 and up.		
Minimum Crew	One (1) pilot (left seat)		
Maximum Occupants	10 (2 Pilot Seats and 8 Pass Refer to the PC-24 Airplan passengers and flight crew configurations.	enger Seats) e Flight Manual ¹ 0ading instruct	(AFM), Section 6, for tions and approved
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Maximum Operating 45,000 ft MSL Altitude Maximum Takeoff 10,000 ft MSL Field Elevation Temperature -54°C to +50°C at Sea Level **Operating Limitation** Refer to the PC-24 Airplane Flight Manual (AFM), Section 2, for Engine Starting Limitations. Manoeuvre Limits Operation is limited to any manoeuvre incident to normal flying, stalls (except whip stalls) and steep turns in which the angle of bank is not more than 60 degrees. No acrobatic manoeuvres, including spins, are authorized. Pull-up and push-over manoeuvres are limited by the accelerations given below: Load Limitation Flap Position Up +3.0 g, -1.2 g Down +2.0 g, -0.0 g Refer to the PC-24 Airplane Flight Manual (AFM), Section 2, for any Other Operating Limitations other operating limitation. AWM 523 at Change 523-16, based on the equivalency of EASA CS-**Certification Basis** (See Note 5) 23, Amendment 3, plus the following EASA approved additional Special Conditions and Equivalent Safety Findings to the requirements of AWM 523 at Change 523-16. Special Condition – Airworthiness (SCA) 2019-02 – Electronic Engine Control Finding of Equivalent Safety - AWM 523 Change 523-16 Errors AWM 516, Subchapter A at Change 516-11, which incorporates by reference ICAO Annex 16 - Environmental Protection, Volume I -Aircraft Noise, Amendment 10 and AWM 516, Subchapter B at Change 516-10, which incorporates by reference ICAO Annex 16, Volume II – Aircraft Emissions, Amendment 6. Canada



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Certification Basis (See Note 5) (Cont'd)	EASA CS-ACNS, Initial Issue	
	EASA Spec	ial Conditions
	CRI B-01 Handling and Performance	
	CRI B-02	High Speed Characteristics
	CRI B-03	Stall Speed Determination
	CRI B-04	Contaminated Runways
	CRI B-05	Stick Pusher
	CRI B-152	Human Factors
	CRI C-01	Sonic Fatigue
	CRI C-02	Pressurisation into Non-Pressurized Areas
	CRI C-05	Dynamic Response
	CRI C-06	Out of Trim Conditions (Structures)
	CRI C-07	Round-the-clock Gust
	CRI D-01	Take-Cff Warning System
	CRI D-02	Extension and Retraction Systems
	CRI D-03	Wheels
	CRI D-04	B akes and Braking Systems
	CRI D-05	Doo's
	CRI D-06	Bird Strike
	CRI D-09	Operation above 41.000 ft
	CRI E-01	Fuel Tank Crashworthiness
	CRI E-04	Lines, Fit ings and Components
	CRI E-06	Powerpl: it Fire Ex/inguishing Systems
	CRI E-10	Fuel Tan Ignition 'revention
	CRI E-11	Induction System Ice Protection - Cold Soaked Fuel
	CRI E-59	Engine Install tion (Rain Conditions)
	CRI E-102	Single Point ' Jefuelling
	CRI F-01	Battery Endu ance Requirement
	CRI F-03	Interaction of 3ystems and Structures
	CRI F-07	Data Link Ser rices Recording
	CRI F-15	Airworthiness nfc mation Security
	CRI F-52	Protection from effect of HIRF





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Certification Basis (See Note 5) (Cont'd)	CRI F-54	Protection from the effects to lightning strike, indirect effects	
	CRI F-62	Flight Instrument External Probes – Qualification in extended Icing conditions	
	CRI F-110	Auto-throttle	
	CRI G-02	Approval process of digital AFM	
	CRI O-04	Towbarless towing loads	
	EASA Equi	valent Safety Findings	
	CRI E-56	Powerplant System Indications.	
	CRI F-05	IMA Individual Circuit Protection.	
	CRI F-90	ASI Flaps Markings on PFD.	
	CRI F-108	ESIS 3rd ATT Indicator (ESIS) Compliance to CS 23.1303	
	CRI F-111	Mechanical Magnetic Compass - Flight Deck without Whisky Compass	
	CRI F-112	Pressurization and Pneumatic systems – bleed air level compliance	
Type Design Model PC- Definition or later ap		24 is defined by the top level drawing 500.00.24.001, Rev B proved revision.	
(366 11012 2)	For aircraft 500.20.24.19 factory opti embodimer of PC-24 Ai	imported into Canada, Pilatus Factory Options 91, 511.32.24.106 and 511.32.24.920 must be installed. These ions may be retrofitted on in-service aircraft with the nt of Pilatus Service Bulletin 04-001 (Canadian Registration rcraft).	
Import Requirements	1. An Expo represen (FOCA);	ort Certificate of Airworthiness to Canada signed by a tative of the the Swiss Federal Office of Civil Aviation	
	Or		
	2. An expo represen which C arranger	tative of the civil aviation authority of a country with anada has a bilateral airworthiness agreement or a similar nent that provides for the acceptance of such certificates.	
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Import Requirements	In case 1 or 2, the certificate must contain a statement equivalent to following:		
(Cont'd)	"The aircraft identified by this certificate has been examined and found to conform to the Canadian Department of Transport Type Certificate A-275 and is found to be in condition for safe operation."		
	or		
	3. Other procedures acceptable to the Minister.		
Required 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 following items of equipment are required:		
	1. Approved Airplane Flight Manual		
	For single pilot operations, the following equipment must be operative/ available in addition to those items listed above: 1. Autopilot 2. Quick Reference Handbook (QRH), Report No. 02382		
Approved Publications	 EASA Approved Airplane Flight Manual (AFM) Report No. 02371, Issue 003, Revision 02, 26 April 2019 including AFM Supplement Report No. 02465, Issue 001, Revision 00, 19 June 2019; AFM Temporary Revisions 02371-007, 17 June 2019; 02371-008, 17 June 2019; and 02371-009, 19 June 2019.* EASA Approved Airworthiness Limitations (ALS): Section 4 of the of the PC-24 Aircra⁺t Maintenance Manual (AMM), Report No. 02378, Issue 005, Revision 00, 09 November 2018. * * or latest EASA approved revision 		
NOTE 1	Weight and Balance		
	A current weight and balance report, including a list of equipment included in the cortificated empty weight, and loading instructions must be provided for each aircraft at the time of original certification.		
NOTE 2	Placards		
	Airplane op ration must be in accordance with the Approved Airplane Flight Manual. All placards required by the Flight Manual, the applicable operating rules, and the Certification Basis must be installed		
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NOTE 2 (Cont'd)	in the airplane. The following additional placards (Ref. AWM 551.104) are required to be installed on Canadian registered aircraft:
	• Placard, ELT Remote Control, Canada (Drawing 511.32.24.106) Internal Placard Installation, ELT Remote Control, Canada (Drawing 511.32.24.920)
NOTE 3	Service Life Limits and required Maintenance/Inspections
	Inspection time limits and maintenance checks are included in the Aircraft Maintenance Manual (AMM), Report No. 02378). The retirement times of the life limited components in Section 4 (ALS) cannot be altered without TCCA approval.
NOTE 4	<u>One Engine Inoperative (OEI) Operation.</u> The rated takeoff thrust and its associated limitations may be used for up to 10 minutes in the event one engine on a multi-engine airplane becomes inoperative during takeoff.
NOTE 5	Airworthiness Manual Chapter 523 (AWM 523) Change 523-16 incorporated by reference United States Code of Federal Regulations, Title 14, Chapter I, Part 23 (14 CFR Part 23) Amendment 23-62, dated December 2, 2011 but included additional regulatory requirements in: AWM 523.903(a)(1) and (2) AWM 523.951(d) AWM 523.1557(c)(4)

- END -

Chief, Project Management Charles Lanning National Aircraft Certification for Minister of Transport