



# Reporte de Aceptación de Certificado Tipo



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## Type Certificate Acceptance Report

No. EASA TC EASA.A.089  
Issue 05, 11 February 2014

**PILATUS PC-12, PC-12/45, PC-12/47, PC-12/47E**



**TABLA DE CONTENIDO**  
(TABLE OF CONTENTS)

<b>RESUMEN</b> (SUMMARY)	<b>3</b>
<b>1. INTRODUCCIÓN</b> (INTRODUCTION)	<b>3</b>
<b>2. DETALLES DE CERTIFICACIÓN DE TIPO OACI</b> (ICAO TYPE CERTIFICATE DETAILS)	<b>4</b>
<b>3. DETALLES DE ACEPTACIÓN DE TIPO</b> (TYPE ACCEPTANCE DETAILS)	<b>4</b>
<b>4. REQUERIMIENTOS DE LOS RAC 9</b> (COLOMBIAN RAC 9 DATA REQUIREMENTS)	<b>4</b>
<b>5. REQUERIMIENTOS ADICIONALES DE LOS RAC 4</b> (ADDITIONAL COLOMBIAN REQUIREMENTS RAC 4)	<b>8</b>
<b>APENDICE 1 - LISTA DE CHEQUEO DE AERONAVES</b> (APPENDIX 1 – AIRCRAFT CHECK LIST)	<b>10</b>
<b>APENDICE 2 - ADJUNTOS</b> (APPENDIX 2 - ATTACHMENTS)	<b>12</b>



## RESUMEN (SUMMARY)

La aceptación de Tipo Colombiana ha sido otorgada para los modelos PC-12, PC-12/45, PC-12/47, PC-12/47E de PILATUS basados en el Certificado Tipo de la EASA número EASA.A.089 Emisión 05, de fecha 11 de febrero de 2014.

La aplicabilidad es para los modelos PILATUS PC-12, PC-12/45, PC-12/47, PC-12/47E, que ya son elegibles para la Revisión de un Certificado de Aeronavegabilidad Estándar de acuerdo con los Reglamentos Aeronáuticos Colombianos RAC numeral 4.4.1.8., esta aceptación estará sujeta a cualquier requerimiento excepcional operacional que requiera ser cumplido (Ver ítem 5 de este reporte para una revisión del cumplimiento del diseño básico con las reglas operacionales).

*Colombian Civil Aviation Authority grants Type Certificate Acceptance for the models PC-12, PC-12/45, PC-12/47, PC-12/47E of PILATUS based on the EASA TC EASA.A.089 Issue 05, 11 February 2014.*

*Applicability is for PC-12, PC-12/45, PC-12/47, PC-12/47E PILATUS models, which is eligible for the issue of a Standard Airworthiness Certificate according to Colombian Regulations - RAC section 4.4.1.8. This Acceptance is subject to any outstanding Colombian operational requirement. (See item 5 of this report for a review of compliance of the basic type design with the operating Rules).*

## 1. INTRODUCCIÓN (INTRODUCTION)

Este reporte detalla los aspectos para la aceptación del Certificado Tipo de la EASA TC EASA.A.089, con el objeto de emitir un Certificado de Aeronavegabilidad Estándar en Colombia, de acuerdo con el RAC 9 numeral **9.1 (d) y 9.2.3**.

*This report details the basis on which EASA Certificate EASA.A.089 was accepted, for the issue of the Colombian Standard Airworthiness Certificate, in accordance with the RAC 9, section **9.1 (d) and 9.2.3**.*

Específicamente este reporte está dirigido a:

*Specifically the report aims to:*

(a) Determinar los estándares de diseño del código de aeronavegabilidad asociados al certificado tipo extranjero para la aceptación de este modelo de aeronave en Colombia.	<i>(a) State Design standards of the airworthiness code related to the foreign Type Certificate for the acceptance of this aircraft model in Colombia.</i>
(b) Identificar cualquier condición especial, nivel equivalente de seguridad o excepción aplicable al modelo cubierto por el Certificado Tipo.	<i>(b) Identify any special conditions, Safety Equivalent Level, or applicable exception to a model covered by the Type Certificate.</i>
(c) Establecer cualquier requerimiento adicional que deba ser cumplido, antes de emitir el Certificado de Aeronavegabilidad Estándar en Colombia.	<i>(c) Determine any additional requirement that must be complied before Colombian Airworthiness Certificate be issued</i>



## 2. DETALLES DE CERTIFICACIÓN DE TIPO OACI (ICAO TYPE CERTIFICATE DETAILS)

Los modelos PILATUS PC-12, PC-12/45, PC-12/47, PC-12/47E cumplen con los estándares de aeronavegabilidad definidos en los anexos 8 y 16 de OACI, respecto a los requisitos de diseño, requisitos de aeronavegabilidad continuada y de ruido. El fabricante establece que no existe ninguna diferencia que deba ser evaluada.

*The PILATUS PC-12, PC-12/45, PC-12/47, PC-12/47E models are in compliance with the ICAO annexes 8 and 16 about rules necessities for the design, continued airworthiness conditions and noise compliance. The manufacturer establishes that there is no difference that should be evaluated.*

## 3. DETALLES DE ACEPTACIÓN DE TIPO (TYPE ACCEPTANCE DETAILS)

La aplicación para la aceptación del Certificado Tipo de las aeronaves PILATUS modelos PC-12, PC-12/45, PC-12/47, PC-12/47E fue solicitada por el fabricante el 04 de noviembre de 2014 y fue aprobada el 04 de mayo de 2015, basada en el Certificado Tipo de la EASA No. EASA.A.089, e incluye los motores Pratt & Whitney PT6A-67B y PT6A-67P, aprobado mediante certificado tipo canadiense No. E21 y la hélice Hartzell HC-E4A-3D/E10477K o HC-E4A-3D/E10477SK, aprobadas mediante FAA TC No. P10NE. Como complemento al proceso de aceptación del Certificado Tipo dos Ingenieros de la UAEAC, visitaron la planta de PILATUS en Stans, Suiza.

*The application for Colombian type certificate acceptance of the PILATUS PC-12, PC-12/45, PC-12/47, PC-12/47E models, was received from the manufacturer, PILATUS, on 04 of November 2014, Type Acceptance Certificate was approved on 04 of May 2015, based on the EASA Type Certificate EASA.A.089, and includes the Pratt & Whitney PT6A-67B and PT6A-67P engines, approved under Canadian TC No. E21 and Hartzell HC-E4A-3D/E10477K or HC-E4A-3D/E10477SK propeller, approved under FAA Type Certificate number P10NE. As complement of the TC acceptance validation process two UAEAC certification Engineers visited the PILATUS Company in Stans, Switzerland.*

## 4. REQUERIMIENTOS DE LOS RAC 9 (COLOMBIAN RAC 9 DATA REQUIREMENTS)

Los requerimientos establecidos en el RAC 9 han sido cumplidos y se sustentan en la hoja de datos del Certificado Tipo EASA No. EASA.A089 Emisión 05 del 11 de febrero de 2014 y con los siguientes documentos:

*The Type Data requirements of RAC 9 have been satisfied according to the EASA Type Certificate Data Sheet No. EASA.A089 issue 05 dated 11 February 2014 and the following documents:*

(1) Certificados Tipo (Type certificates):



**Unidad Administrativa Especial de Aeronáutica Civil**  
**REPORTE DE ACEPTACIÓN DE CERTIFICADO DE TIPO**  
**(Type Certificate Acceptance Report)**

- EASA Type-Certificate Data Sheet No. EASA.A089 for models PC-12, PC-12/45, PC-12/47, PC-12/47E, Issue 05, dated 11 February 2014.
- Pratt & Whitney PT6A-67B and PT6-67P engines approved under Transport Canada Type Certificate number E21A.
- Hartzell HC-E4A-3D/E10477K or HC-E4A-3D/E10477SK propeller, approved under FAA Type Certificate number P10NE.

(2) Resumen de los ítems de Certificación (*Summary certification item*):

(i) *Certification Basis:*

PC 12: FOCA CRI A-1, Stage 7, February 14th, 1997.

PC 12/45: FOCA CRI A-2, Stage 5, February 14th, 1997.

PC 12/47: FOCA CRI A-1, Stage 2, November 3rd, 2005.

PC 12/47E: FOCA CRI A-1, Stage 6, October 8th, 2007.

(ii) *Airworthiness Requirements:*

PC 12, PC 12/45, PC-12/47, PC-12/47E:

US 14 CFR FAR Part 23, Normal Category, including Amendments 23-1 through 23-42, effective February 4th, 1991.

(iii) *Requirements elected to comply:*

**PC 12:**

FAR 23.1305(c)(3) Amdt 23-43

FAR 23.1311 Amdt 23-49

FAR 23.1507 Amdt 23-45

**PC 12/45, PC-12/47:**

FAR 23.49(c) Amdt 23-44

FAR 23.479(b)(c) Amdt 23-45

FAR 23.562(d) Amdt 23-44

FAR 23.1305(c)(3) Amdt 23-43

FAR 23.1311 Amdt 23-49

FAR 23.1507 Amdt 23-45

**PC-12/47E:**

23.49c.....(23-44)

23.143 c.....(23-50)

23.301.....(23-48)

23.305 a.....(23-45)

23.335 a,b,c,d.....(23-48)

23.361 a,b2.....(23-45)

23.371 a .....(23-48)

23.479 b,c .....(23-45)

23.561 b2-3,c3 .....(23-48)

23.562 d .....(23-44)

23.562 d1.....(23-50)

23.571 a .....(23-45)

23.572 a1,b1 .....(23-45)

23.607 c .....(23-48)

23.613 .....(23-45)

23.629 a,b,c,d,e,f2 ....(23-48)

23.773 a1-2 .....(23-45)

23.1303 a,b,c,d,e,f ....(23-49)

23.1305 c3 .....(23-43)

23.1307.....(23-49)

23.1311.....(23-49)

23.1322 e .....(23-43)

23.1323 c.....(23-49)

23.1326 a,b .....(23-49)

23.1329 .....(23-49)

23.1331 a,b1-2, c.....(23-43)

23.1351 b2-3,c,c1-5,g..(23-49)

23.1353 h.....(23-49)

23.1357 a,e.....(23-43)

23.1359.....(23-49)

23.1361 a,b,c.....(23-49)

23.1365 b,c,c1,d,e,f.....(23-49)



**Unidad Administrativa Especial de Aeronáutica Civil**  
**REPORTE DE ACEPTACIÓN DE CERTIFICADO DE TIPO**  
**(Type Certificate Acceptance Report)**

Page 6 of 16

23.1431 a,b,c,d,e.....(23-49)  
23.1507.....(23-45)  
23.1525.....(23-45)

23.1543 c.....(23-50)  
23.1555 e2.....(23-50)

*(iv) Special Conditions:*

**PC 12, PC 12/45, PC-12/47:**

B-1 Stall Identification & Recovery Characteristics.  
C-1 Horizontal Tail Loads.  
C-2 Horizontal Tail Loads (Rocking Motions).  
C-3 Dynamic Behavior of the Landing Gear.  
C-4 Seat Head Rest & Supporting Structure aft Facing Seats.  
D-1 Hinges (Strength & Rigidity).  
D-2 Doors and Exits.  
D-3 Composite Materials for Secondary Structure.  
E-2 Composite Cowling (Toxics)  
FOCA CQF 98-02, September 15th, 1993.

**PC-12/47E:**

B-1 Stall Identification & Recovery Characteristics.  
C-1 Horizontal Tail Loads.  
C-2 Horizontal Tail Loads (Rocking Motions).  
C-3 Dynamic Behavior of the Landing Gear.  
C-4 Seat Head Rest & Supporting Structure aft Facing Seats.  
D-1 Hinges (Strength & Rigidity).  
D-2 Doors and Exits.  
D-3 Composite Materials for Secondary Structure.  
E-2 Composite Cowling (Toxics)  
FOCA CQF 98-02, September 15th, 1993.  
F-1 Protection from the Effects of HIRF.  
F-2 Protection from the Indirect Effects of Lightning.  
F-3 Human Factors Aspects of Flight Deck Design.  
F-9 Integrated Modular Avionics (IMA).

*(v) Exemptions:*

**PC 12, PC 12/45, PC-12/47, PC-12/47E: None**

*(vi) Equivalent Level of Safety Findings:*

**PC 12:**

FAR 23.221(a)(2) [FOCA CQF 91-03].  
FAR 23.841(b)(6) [FOCA CQF 21-03].

**PC 12/45, PC-12/47:**

FAR 23.221(a)(2) [FOCA CQF 91-04].  
FAR 23.841(b)(6) [FOCA CQF 21-03].

**PC-12/47E:**

[FOCA CQF 91-04] FAR 23.221(a)(2) Spin resistance  
[FOCA CQF 21-03] FAR 23.841(b)(6) Pressure cabin warning altitude.  
F-10 Individual Circuit Protection with IMA System.  
F-11 ASI Flaps Markings.



**Unidad Administrativa Especial de Aeronáutica Civil**  
**REPORTE DE ACEPTACIÓN DE CERTIFICADO DE TIPO**  
**(Type Certificate Acceptance Report)**

Page 7 of 16

F-12 Probes OFF Caution.

*(vii) Environmental Standards:*

**PC-12, PC 12/45:**

Noise: US Federal Aviation Regulation Part 36, Appendix G, including Amendments 36-1 through 36-20, effective September 11, 1992.

ICAO Annex 16: Environmental Protection, Second Edition, Amdt 3, effective November 17th, 1988; Volume 1, Part II, Chapter 10.

**PC 12/47:**

Noise: US Federal Aviation Regulation Part 36, Appendix G, including Amendments 36-1 through 36-27, effective June 09th, 2005.

ICAO Annex 16: Environmental Protection, Third Edition, Amdt 7, effective March 21st, 2002; Volume 1, Part II, Chapter 6 and 10.

**PC 12/47E:**

US Federal Aviation Regulation Part 36, Appendix G, including Amendments 36-1 through 36-28, effective January 04th, 2006.

ICAO Annex 16: Environmental Protection, Third Edition, Amdt 7, effective March 21st, 2002; Volume 1, Part II, Chapter 6 and 10.

**PC-12, PC 12/45, PC 12/47, PC 12/47E:**

Emissions: US Federal Aviation Regulation Part 34, (Fuel venting/emissions), effective September 10th, 1990.

(3) Certification Compliance Listing:

PC 12: Doc. No : 12-01-10-001, Date : 2/02/2007 (ER-12-000587 PC-12 CCL).

PC 12/45: Doc. No : 12-01-10-002, Date : 27/02/2007 (PC-12\_45\_CCS\_12-01-10-102)

PC 12/47: MCA-PIL12100/152, ECN-04-0510, Rev. 1, December 13<sup>th</sup>, 2005.

PC 12/47E: ER 12-00-00-028, PC-12/47E Certification Summary Report, 07-March-2008.

(4) Documentación técnica del fabricante (*Maintenance Manuals, Operating Manuals and Service Instructions*).

Document for Pilatus PC-12, PC 12/45, PC 12/47 models	Document	Date	Revision
Pilot Operational Handbook (POH)	Pilatus Reports PC-12 No. 01973	2015-03-02	18
	PC-12/45 & PC-12/47 No. 02211	2015-03-02	10
Aircraft Maintenance Manual (AMM)	Pilatus Report No. 02049	2014-11-30	29
Structural Repair Manual (SRM)	Pilatus Report No. 02050	2014-11-30	17
Illustrated Parts Catalogue (IPC)	Pilatus Report No. 02051	2014-11-30	34
Tool And Equipment Manual (TEM)	Pilatus Report No. 02080	2014-11-30	14



**Unidad Administrativa Especial de Aeronáutica Civil**  
**REPORTE DE ACEPTACIÓN DE CERTIFICADO DE TIPO**  
**(Type Certificate Acceptance Report)**

Page 8 of 16

Service Bulletins (SB's)	Pilatus Report No. 02086		
Engine PT6A-67B/-67P MM	Document No. 3038336	2015-01-12	42
Engine PT6A-67B/-67P IPC	Document No. 3038338	2015-01-05	43

<b>Document for Pilatus PC-12/47E model</b>	<b>Document</b>	<b>Date</b>	<b>Revision</b>
Pilot Operational Handbook (POH)	Pilatus Report PC-12/47E No. 02277	2015-03-02	14
Aircraft Maintenance Manual (AMM)	Pilatus Report No. 02300	2015-01-20	12
Structural Repair Manual (SRM)	Pilatus Report No. 02305	2015-01-20	11
Illustrated Parts Catalogue (IPC)	Pilatus Report No. 02308	2015-01-20	11
Tool And Equipment Manual (TEM)	Pilatus Report No. 02306	2015-01-20	9
Service Bulletins (SB's)	Pilatus Report No. 02086		
Engine PT6A-67B/-67P MM	Document No. 3038336	2015-01-12	42
Engine PT6A-67B/-67P IPC	Document No. 3038338	2015-01-05	43

## **5. REQUERIMIENTOS ADICIONALES DEL RAC 4 (ADDITIONAL COLOMBIAN REQUIREMENTS RAC 4)**

A continuación se listan los requerimientos de aeronavegabilidad adicionales para la Revisión de un certificado de aeronavegabilidad estándar, definidos en el capítulo II del RAC 4, "Requisitos generales de aeronavegabilidad" y RAC 9. Para aviación comercial regular se debe agregar los requerimientos establecidos en los RAC 4, Capítulo V.

*Additional requirements for the issuance of a Standard Airworthiness Certificate for an commercial aircraft that is going to operate in Colombia, in accordance with RAC's (Colombian Regulations), RAC 4 Chapters II, VI and Chapter IX and in No. 9.2.3 RAC 9, are as follows:*





**Unidad Administrativa Especial de Aeronáutica Civil**  
**REPORTE DE ACEPTACIÓN DE CERTIFICADO DE TIPO**  
**(Type Certificate Acceptance Report)**

Page 9 of 16

<b>REGULATION: DESCRIPTION OF REQUIREMENT-SPANISH</b>	<b>EQUIVALENT STANDARD (FAA - FAR): DESCRIPTION OF REQUIREMENT-ENGLISH</b>
<b>4.2.2.3 Requisitos de instrumentos y equipo para aeronaves civiles con un certificado de aeronavegabilidad estándar expedido en la república de Colombia.</b> a. Generalidades. b. Reglas de vuelo visual diurno (VFR diurno). c. Reglas de vuelo visual nocturno (VFR nocturno). d. Reglas de vuelo por instrumentos (IFR).	<b>91.205 Powered Civil Aircraft with Colombian Standard Airworthiness Certificate: (Instrument and Equipment Requirements).</b> a. General. b. Visual-flight rules (day). c. Visual flight rules (night). For VFR flight at night.
<b>4.2.2.4 TRANSMISOR LOCALIZADOR DE EMERGENCIA (ELT).</b>	<b>91.207 EMERGENCY LOCATOR TRANSMITTERS.</b>
<b>4.2.2.5 LUCES DE AERONAVES.</b>	<b>91.209 AIRCRAFT LIGHTS.</b>
<b>4.2.2.7 INSTRUMENTOS Y EQUIPOS INOPERATIVOS.</b>	<b>91.213 INOPERATIVE INSTRUMENTS AND EQUIPMENT.</b>
<b>4.2.2.8 EQUIPO Y USO DE TRANSPONDER ATC, E INFORMADOR DE ALTITUD</b>	<b>91.215 ATC TRANSPONDER AND ALTITUDE REPORTING EQUIPMENT AND USE</b>
<b>4.6.3.11. Requerimientos de equipo: aeronaves que llevan pasajeros bajo reglas de vuelo por instrumentos IFR y vuelos nocturnos.</b>	<b>135.163 Equipment requirements: Aircraft carrying passengers under IFR.</b>
<b>4.6.3.12. EQUIPO DE RADIO PARA OPERACIÓN EXTENSA SOBRE AGUA Y OTRAS OPERACIONES.</b>	<b>121.351 COMMUNICATION AND NAVIGATION EQUIPMENT FOR EXTENDED OVER-WATER OPERATIONS AND FOR CERTAIN OTHER OPERATIONS.</b>
<b>4.6.3.6 GRABADORES DE VOZ EN LA CABINA DE MANDO (CVR) - Un sistema TSO - C123A.</b>	<b>121.359 COCKPIT VOICE RECORDER (CVR) - One system TSO - C123A.</b>
<b>4.6.3.7 REGISTRADORES DE DATOS DE VUELO (FDR).</b>	<b>135.152 FLIGHT DATA RECORDER.</b>
<b>9.2.3 literal d) 4 PLACAS: IDIOMA ESPAÑOL O ESPAÑOL E INGLES.</b>	<b>45.11 MARKING OF PRODUCTS, AND §45.11 MARKING OF PRODUCTS.</b>



**Unidad Administrativa Especial de Aeronáutica Civil**  
**REPORTE DE ACEPTACIÓN DE CERTIFICADO DE TIPO**  
**(Type Certificate Acceptance Report)**

## APENDICE 1 - LISTA DE CHEQUEO DE AERONAVES (APPENDIX 1 - AIRCRAFT CHECK LIST)

CERTIFICADO TIPO (Type Certificate):	EASA EASA.A.089 Issue 05, 11 February 2014
AERONAVES (Aircraft):	PILATUS PC-12, PC-12/45, PC-12/47, PC-12/47E MODELS
FABRICANTE (Manufacturer):	PILATUS Aircraft Ltd. PO Box 992, Stans Switzerland.
PLANTA MOTRIZ (Engine):	Pratt & Whitney PT6A-67B & PT6A-67P Transport Canada TC No. E21 and Hartzell HC-E4A-3D/E10477K or HC-E4A-3D/E10477SK propeller, FAA TC P10NE
OPERADOR NACIONAL (National Operator):	Sinergy Group
FUNCIONARIO(s) (Team):	ANDRES EDUARDO PARRA CATAMA. SAUL ANDRES GONZALEZ ORDOÑEZ.
REGULACIONES R.A.C. (R.A.C. Regulation):	RAC 9, Numerales, 9.1 GENERALIDADES literal d), 9.2.3 CERTIFICADOS TIPO PARA PRODUCTOS AERONAUTICOS IMPORTADOS literal f) "Examen de los registros de diseño tipo y los documentos de certificación del Estado que certifico la aeronave. (literales c) y d)".

DOCUMENTACION	CUMPLIMIENTO (DOCUMENTOS REVISADOS)
1. DATOS GENERALES DEL CERTIFICADO TIPO (Type Certificate Data Sheets):	REVISION ACTUAL (Actual Revision): 05 FECHA DE REVISION (Revision Date): February 05, 2014 No. of Seats: 09 PAX Crew: 1 pilot Fuel Capacity: Total: 1540 lt (406,8 US Gal) Usable: 1522 lt (402.1 US Gal) Maximum Weight: <b>PC-12</b> <b>PC-12/45</b> <b>PC-12/47 &amp; /47E</b> Taxi and Ramp 4120kg (9083 lbs) - 4520kg (9965 lbs) - 4760kg (10494 lbs) Take Off 4100kg (9039 lbs) - 4500kg (9921 lbs) - 4740kg (10450 lbs) Landing 4100kg (9039 lbs) - 4500kg (9921 lbs) - 4500kg (9921 lbs) Zero Fuel 3700kg (8157 lbs) - 4100kg (9039 lbs) - 4100kg (9921 lbs)
2. Lista de Chequeo De Conformidad Código De Aeronavegabilidad (Compliance Check List airworthiness code):	<b>PC 12:</b> Doc. No : 12-01-10-001, Date : 2/02/2007 (ER-12-000587 PC-12 CCL). <b>PC 12/45:</b> Doc. No : 12-01-10-002, Date : 27/02/2007 (PC-12_45_CCS_12-01-10-102). <b>PC 12/47:</b> MCA-PIL12100/152, ECN-04-0510, Rev. 1, December 13th, 2005. <b>PC 12/47E:</b> ER 12-00-00-028, PC-12/47E Certification Summary Report, 07-March-2008.
3. Lista Maestra de Planos (Master Drawing List or Type Build Standard (TBS)):	ER-12-000587 PC-12 CCL_12-01-10-101.
4. NIVELES EQUIVALENTES DE SEGURIDAD (Elos, Special Conditions Exceptions, CRI's):	<b>Equivalent Safety Findings (PC-12):</b> FAR 23.221(a)(2) [FOCA CQF 91-03] & FAR 23.841(b)(6) [FOCA CQF 21-03]. <b>Equivalent Safety Findings (PC-12/45 &amp; PC-12/47):</b> FAR 23.221(a)(2) [FOCA CQF 91-04] & FAR 23.841(b)(6) [FOCA CQF 21-04]. <b>Equivalent Safety Findings (PC-12/47E):</b> FAR 23.221(a)(2) [FOCA CQF 91-04], FAR 23.841(b)(6) [FOCA CQF 21-03] & F-10 Individual circuit Protection with IMA System F-11 ASI Flaps Markings F-12 Probes OFF Caution



**Unidad Administrativa Especial de Aeronáutica Civil**  
**REPORTE DE ACEPTACIÓN DE CERTIFICADO DE TIPO**  
**(Type Certificate Acceptance Report)**

Page 11 of 16

5. Plano en tres vistas del conjunto (impreso o copia) ( <i>views assembly drawing (Printed or blueprint)</i> ):	Ver APENDICE 2 - ADJUNTOS See APPENDIX 2 - ATTACHMENTS
6. Planos de Configuración Interior ( <i>Interior configuration Drawings (LOPA)</i> ):	Approved configurations are listed in the AFM/POH Section 6.
7. Manual De Operación De La Aeronave ( <i>Aircraft Operacional Manuals</i> ):	Pilatus Reports PC-12 No. 01973, dated 2015.03.02, revision 18 PC-12/45 & PC-12/47 models No. 02211, dated 2015.03.02, revision 10 PC-12/47E No. 02277, dated 2015.03.02, revision 14.
8. Manual de Reparaciones Estructurales, Manual de Cableado ( <i>Structural Repair Manual, Wiring Manual</i> ):	PC-12, PC 12/45, PC 12/47 models: SRM Doc No. 02050 PC 12/47E SRM Doc No. 02305
9. MANUAL DE MANTENIMIENTO ( <i>Maintenance Manual</i> ):	PC-12, PC 12/45, PC 12/47 models: AMM Doc No. 02049 PC 12/47E AMM, Doc No. 02300
10. CATALOGO ILUSTRADO DE PARTES ( <i>Illustrated Parts Catalogue</i> ):	PC-12, PC 12/45, PC 12/47 models: IPC Doc No. 02051 PC 12/47E IPC, Doc No. 02308
11. BOLETINES DE SERVICIO, ( <i>Service Bulletins</i> ):	PILATUS Web Page: <a href="http://www.pilatus-aircraft.com/">http://www.pilatus-aircraft.com/</a>
12. DIRECTIVAS DE AERONAVEGABILIDAD ( <i>Airworthiness Directives</i> ):	FOCA AD List applicable to Swiss registered aeronautical products designed by PILATUS AIRCRAFT Ltd. Pertaining to Model: PC-12, PC-12/45, PC-12/47, PC-12/47E TCDS: EASA.A.089 Last update. 17 July 2014
13. CERTIFICACION DE RUIDO (Noise Compliance):	US Federal Aviation Regulations Part 36, Appendix G, including Amendments 36-1 Through 36-20, effective September 11,1992.
14. OTROS ( <i>Others RVSM</i> ):	Not applicable.
15. BASES DE CERTIFICACIÓN ( <i>Certification Bases</i> ):	FOCA CRI A-1, Stage 7, February 14th, 1997



## APENDICE 2 - ADJUNTOS (APPENDIX 2 - ATTACHMENTS)

Los siguientes documentos son adjuntos de este informe:  
*The following documents are attached to this report:*

- Copia del Certificado Tipo de EASA, EASA.A.089.  
*Copy of EASA Type Certificate, EASA.A.089.*

*Pratt & Whitney PT6A-67B and PT6A-67P engines, approved under Transport Canada TC No. E21 and Hartzell HC-E4A-3D/E10477K or HC-E4A-3D/E10477SK propeller, approved under FAA Type Certificate number P10NE*

- Copia de la Hoja de Datos del Certificado Tipo para el motor de Transport Canada Numero E21 (Pratt & Whitney PT6A-67B & PT6A-67P).  
*Copy of Transport Canada Engine Type Certificate, Number E21 (Pratt & Whitney PT6A-67B & PT6A-67P).*

- Copia del Certificado Tipo para la hélice de FAA TC Numero P10NE (Hartzell HC-E4A-3D/E10477K or HC-E4A-3D/E10477SK).  
*Copy of FAA Propeller Type Certificate, Number P10NE (Hartzell HC-E4A-3D/E10477K or HC-E4A-3D/E10477SK).*

- Otros (Others): Airplane Drawing Three Views.

### Firmas (Signatures)

.....  
Andres Eduardo Parra Catama  
Inspector de Seguridad Aérea  
Air Safety Inspector  
(UAEAC - Technical Group Engineer)

.....  
Andrés González Ordóñez  
Inspector de Seguridad Aérea  
Air Safety Inspector  
(UAEAC - Technical Group Engineer)

.....  
Edgar Luciano Cadena Cañón  
Jefe de Grupo Técnico - UAEAC  
(UAEAC - Technical Group Chief)  
Dated: May 4<sup>th</sup>, 2015



European Aviation Safety Agency

## TYPE-CERTIFICATE

EASA.A.089

This certificate, established in accordance with Regulations (EC) No 1592/2002 and (EC) No 1702/2003 and issued to

### Pilatus Aircraft Ltd.

P.O. Box 992  
6371 Stans  
Switzerland

certifies that the aircraft type design listed below complies with the applicable Type Certification Basis and environmental protection requirements when operated within the conditions and limitations specified on the associated Type Certificate Data Sheet Nr. A.089

Model	Date of issue
PC-12	23 June, 2006
PC-12/45	23 June, 2006
PC-12/47	23 June, 2006
PC-12/47E	28 March 2008

This certificate and its associated type-certificate data sheet, which is a part thereof, shall remain valid unless otherwise surrendered or revoked.

For the European Aviation Safety Agency,

Roger Hardy  
Certification Manager General Aviation



	Transport Canada	Transports Canada
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# Type Certificate

## E-21

Pursuant to Canadian Aviation Regulations PART V, SUBPART 11, this Type Certificate is issued to:

**Pratt & Whitney Canada Inc.**  
1000 Marie Victorin  
Longueuil, Quebec  
J4G 1A1

For the Following Aeronautical Product(s):

PT6A-64	PT6A-67	PT6A-67B	PT6A-67P
PT6A-66	PT6A-67A	PT6A-67D	PT6A-67R
PT6A-66A	PT6A-67AF	PT6A-67E	PT6A-67T
PT6A-66B	PT6A-67AG	PT6A-67F	
PT6A-66D			

Details of the type design, basis of certification, operating limitations and other associated airworthiness requirements are specified in:

**Department of Transport Type Certificate Data Sheet E-21 Issue 15**  
or latest revision

Director, National Aircraft Certification  
For Minister of Transport

**September 20, 2007**  
Date of Issue





Unidad Administrativa Especial de Aeronáutica Civil  
REPORTE DE ACEPTACIÓN DE CERTIFICADO DE TIPO  
(Type Certificate Acceptance Report)

*The United State of America*

*Department of Transportation  
Federal Aviation Administration*

PROPELLER

*Type Certificate*

*Number*     P10NE    

*This certificate issued to Hartzell Propeller Inc.  
certifies that the type design for the following product with the operating limitations and  
conditions therefor as specified in the Federal Aviation Regulations and the Type  
Certificate Data Sheet, meets the airworthiness requirements of Part 35 of the Federal  
Aviation Regulations.*

Aircraft Propeller Models: HC-D4, HC-E4

*This certificate, and the Type Certificate Data Sheet which is a part hereof, shall  
remain in effect until surrendered, suspended, revoked, or a termination date is otherwise  
established by the Administrator of the Federal Aviation Administration.*

*Date of application:* December 4, 1984

*Date of issuance:* January 18, 1985

Reissued: April 9, 1987  
Model HC-E4 approved May 10, 1990

*By direction of the Administrator.*

*(Signature)* Charles L. Smalley  
*(Title)* for Donald P. Michal, Manager  
Chicago Aircraft Certification Office

*This certificate may be transferred if endorsed as provided on the reverse hereof.*

*Any alteration of this certificate and/or the Type Certificate Data Sheet is punishable by a fine of not exceeding  
\$1,000, or imprisonment not exceeding 3 years, or both.*



Unidad Administrativa Especial de Aeronáutica Civil  
REPORTE DE ACEPTACIÓN DE CERTIFICADO DE TIPO  
(Type Certificate Acceptance Report)



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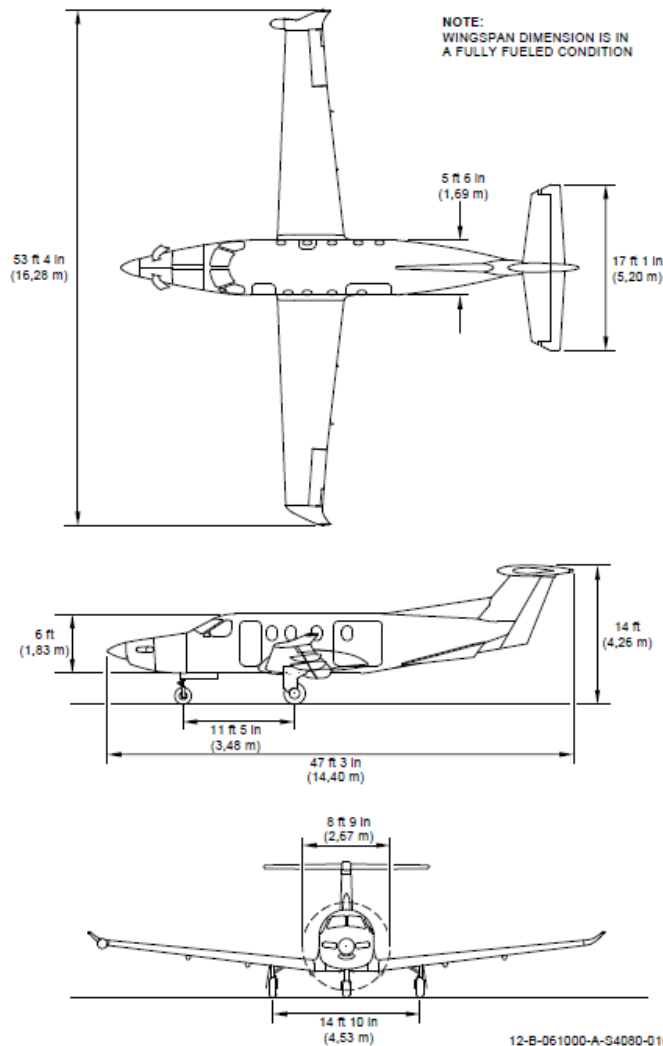


Figure 1 Dimensions and Areas – Dimensions

Effectivity: ALL

12-B-06-10-00-00A-040A-A

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2008-03-15 Page 2

Airplane Drawing Three Views.