



Reporte de Aceptación de Certificado Tipo



Type Certificate Acceptance Report

No. FAA TC P15EA, Rev. 26

HARTZELL PROPELLER

Model HC-B3T



TABLA DE CONTENIDO
(TABLE OF CONTENTS)

RESUMEN (SUMMARY)	3
1. INTRODUCCIÓN (INTRODUCTION)	3
2. DETALLES DE CERTIFICACIÓN DE TIPO OACI (ICAO TYPE CERTIFICATE DETAILS)	3
3. DETALLES DE ACEPTACIÓN DE TIPO (TYPE ACCEPTANCE DETAILS)	4
4. REQUERIMIENTOS DE LOS R.A.C. PARTE 9^a (COLOMBIAN R.A.C. PART 9TH DATA REQUIREMENTS)	4
5. REQUERIMIENTOS ADICIONALES DE LOS R.A.C. PARTE 4^{TA} (ADDITIONAL COLOMBIAN REQUIREMENTS R.A.C. PART 4TH)	6
APENDICE 1 - LISTA DE CHEQUEO DE HÉLICE (APPENDIX 1 – PROPELLER CHECK LIST)	7
APENDICE 2 - ADJUNTOS (APPENDIX 2 - ATTACHMENTS)	9



RESUMEN (SUMMARY)

La aceptación de Tipo Colombiana ha sido otorgada para la hélice modelo HC-B3T de Hartzell basados en el Certificado Tipo de la FAA número P15EA, Rev. 26.

La aeronave Cessna 206 series utiliza la hélice HC-B3TN3. Sin embargo, Hartzell Propeller solicitó la validación general del modelo HC-B3T para reflejar la Hoja de Datos del Certificado Tipo FAA P15EA.

Colombian Civil Aviation Authority grants Type Certificate Acceptance for the model HC-B3T of Hartzell based on the FAA Type Certificate P15EA, Rev 26.

The Cessna 206 series aircraft uses the HC-B3TN3. However, Hartzell Propeller has request the general validation of the model HC-B3T to reflect the Data Sheet of the FAA Type Certificate P15EA.

1. INTRODUCCIÓN (INTRODUCTION)

Este reporte detalla los aspectos para la aceptación del Certificado Tipo de la FAA TC P15EA, de acuerdo con los RAC Parte 9ª literal **§9.1 (d) y 9.2.3**.

*This report details the basis on which FAA Type Certificate No. P15EA was accepted, in accordance with the RAC's, part **9.1 (d) and 9.2.3**.*

Específicamente este reporte esta 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 hélice en Colombia.	(a) <i>State Design standards of the airworthiness code related to the foreign Type Certificate for the acceptance of this propeller model in Colombia.</i>
(b) Identificar cualquier condición especial, nivel equivalente de seguridad o excepción aplicable al modelo cubierto por el Certificado Tipo.	(b) <i>Identify any special condition, Safety Equivalent Level, or applicable exception to a model covered by the Type Certificate.</i>

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

El modelo de hélice HC-B3T de la compañía Hartzell Propeller Inc., cumple con los estándares de aeronavegabilidad definidos en cumplen con los estándares de aeronavegabilidad definidos en el Anexo 8 de OACI, respecto a los requisitos de diseño y requisitos de aeronavegabilidad continuada. A partir de los documentos presentados por el fabricante se establece que no existe ninguna diferencia que deba ser evaluada.



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

Page 4 of 10

Hartzell propeller model HC-B3T is in compliance with the ICAO annexes 8 rules necessities for the design and continued airworthiness conditions. In accordance with the information provided by the manufacturer, it is established 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 la hélice Hartzell modelo HC-B3T fue solicitada por el fabricante el 20 de agosto de 2013 y fue aprobada el 8 de Octubre de 2013, basada en el Certificado Tipo de la FAA No. P15EA.

The application for Colombian type certificate acceptance of the Hartzell Model HC-B3T was received from the manufacturer, Hartzell, on 20st August 2013. Type Acceptance Certificate was approved on 8th October 2013, based on the FAA Type Certificate P15EA.

4. REQUERIMIENTOS DE LOS RAC PARTE 9ª (COLOMBIAN RAC PART 9TH DATA REQUIREMENTS)

Los requerimientos establecidos en la parte Novena de los RAC han sido cumplidos y se sustentan en la hoja de datos del Certificado Tipo FAA No. P15EA Rev. 26 de fecha 23 de Mayo de 2013 y con los siguientes documentos:

The Type Data requirements of RAC Part 9 have been satisfied according to the Type Certificate Data Sheet FAA No. P15EA Rev 26 dated May 23, 2013 and the following documents:

(1) Certificados Tipos (*Type certificates*):

- FAA No. P15EA, Rev 26 dated May 23, 2013.

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

(i) *Certification Compliance Check List:*

Model	Document	Issue Date
HC-B3T	Certification Compliance Checklist TC-ODA-100082-CE-400	11/06/2012

(ii) *Airworthiness Limitations:*

Life limits and mandatory inspections. Airworthiness limitations, if any, are specified in Hartzell Owner's Manual 139, Revision 12, dated March 2013.



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

(3) Bases de Certificación (Certification Basis):

Civil Air Regulations Part 14 effective December 15, 1956 with amendment 14-1 thereto.
Type Certificate no. P15EA issued Feb. 7, 1964.
Date of application for T.C.: January 29, 1964

The following models were included under the original certification basis:

The following models were included under the original certification basis:

HC-B3TN-2, HC-B3TN-3, HC-B3TN-5

The following models were added, updated or revised in accordance with 14 CFR Part 35 with

amendments 35-1 through 35-2 effective April 3, 1967:

HC-B3TN-2, HC-B3TN-3, HC-B3TN-5, HC-B3TN-7, HC-B3TF-7

The following models were added, updated or revised in accordance with 14 CFR Part 35 with

amendments 35-1 through 35-5 effective October 14, 1980:

HC-B3TF-7

The following models were added, updated or revised in accordance with 14 CFR Part 35 with

amendments 35-1 through 35-6 effective August 1, 1990:

HC-B3TN-2, HC-B3TN-3, HC-B3TN-5, HC-B3TN-7, HC-B3TW-3

The following models were added, updated or revised in accordance with 14 CFR Part 35 with

amendments 35-1 through 35-8 effective December 23, 2008:

HC-B3TW-3, HC-B3TN-3

(4) Métodos de Cumplimiento (*Means of Compliance*)

The means of compliance related to the Propeller Configuration, Instructions for Propeller Installation and Operation are described in Documents Manual 139 and Manual 190 dated 07/13/12 and 06/28/11; Instructions for Continued Airworthiness are described in Documents Manual 127, Manual 133C, Manual 118F, Manual 139 and Manual 202A dated 01/10/12, 11/02/12, 08/01/11, 07/13/12, and 10/16/12; Propeller Ratings and Operating Limitations are described in Documents ER 3722 dated 11/05/12; Safety Analysis are described in Documents ER 3596 dated 13/09/10; Durability Strength, Centrifugal Load Test are described in Document ER 3722 dated 11/05/12; Bird Impact are described in Document ER 3472 dated 11/11/09; Fatigue Limits are described in the Engineering Report No. ER 41, ER905 (blade), ER 2180 dated 08/28/01, 03/17/98 and 11/05/12, applicable to the HC-B3TN-3 propeller.

(5) Documentación técnica del fabricante (*Maintenance Manuals*)

Document	Issued Date
Hartzell Owner's Manual 139.	Revision 12, dated March 2013. Life limits and mandatory inspections.
Hartzell Manual no. 202()	Overspeed and overtorque limits.
Hartzell Service Letter HC-SL-61-61()	Recommended overhaul periods.



5. REQUERIMIENTOS ADICIONALES DE LOS RAC PARTE 4^a (ADDITIONAL COLOMBIAN REQUIREMENTS RAC PART 4TH)

Los requerimientos de aeronavegabilidad adicionales para la emisión de un certificado de aeronavegabilidad estándar, definidos en los capítulos II y VI de la Parte Cuarta, “Requisitos Generales de Aeronavegabilidad” y en 9.2.3 de las Parte Novena de los RAC, aplicarán según la aeronave en la cual se haya instalado la hélice validada.

The additional requirements for the issuance of a Standard Airworthiness Certificate for an aircraft that is going to operate in Colombia, in accordance with RAC’s (Colombian Regulations), Part Fourth- Chapters II and Chapter VI and in #9.2.3 Part Ninth, will depend of the type of aircraft and its installed propeller.



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

APENDICE 1 - LISTA DE CHEQUEO DE HELICE
(APPENDIX 1 – PROPELLER CHECK LIST)

CERTIFICADO TIPO (Type Certificate):	FAA TC P15EA. Rev 26, May 23, 2013.
FABRICANTE (Manufacturer):	Hartzell Propeller Inc. Piqua, OH 45356 Contact Person: Mrs. Melanie J.L. Patton International Certification Representative mpatton@hartzellprop.com Phone: 001.937.778.4380
HELICE (Propeller):	Hartzell HC-B3T Propeller.
PLANTA MOTRIZ (Engine):	No aplica Not applicable
OPERADOR NACIONAL (National Operator):	Desconocido Unknown
FUNCIONARIO(S) (Team):	SAUL ANDRES GONZALEZ ORDOÑEZ ANDRES E. PARRA
REGULACIONES R.A.C. (R.A.C. Regulation):	Numerales, 9.1 GENERALIDADES literal d) 9.2.3 CERTIFICADOS TIPO PARA PRODUCTOS AERONAUTICOS IMPORTADOS

DOCUMENTACION	CUMPLIMIENTO (DOCUMENTOS REVISADOS)
1. DATOS GENERALES DEL CERTIFICADO TIPO (Type Certificate Data Sheets):	REVISION ACTUAL (Actual Rev): 26 FECHA DE REVISION (Rev Date): May 23, 2013. <ul style="list-style-type: none"> Model HC-B3T
2. Lista de Chequeo De Conformidad Código De Aeronavegabilidad (Compliance Check List airworthiness code):	Hartzell Report TC-ODA-100082-CE-400 – Certification Compliance Checklist 11 th June, 2012
3. Lista Maestra de Planos (Master Drawing List or Type Build Standard (TBS)):	Propeller Assembly Drawings No.: HC-D4N-3A HC-E4A-2
4. Niveles Equivalentes de Seguridad (Equivalent Level Of Safety –ELOS)	No aplica Not applicable
5. Issue Papers	No aplica Not applicable
6. Excepciones (Exceptions)	No aplica Not applicable
7. Plano en tres vistas del conjunto (impreso o copia) (views assembly drawing (Printed or blueprint)):	No aplica Not applicable
8. Manual de Mantenimiento (Maintenance Manual):	Manual del Usuario (Owners Manual): Hartzell Owner's Manual 139. Manual del Fabricante (Hartzell Manual): Hartzell Manual no. 202().



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

9. Manual de Vuelo (<i>Flight Manual</i>):	No aplica <i>Not applicable</i>
10. Boletines de Servicio, (<i>Service Bulletins</i>):	Hartzell Service Letter HC-SL-61-61(). Service Bulletins http://www.hartzellprop.com
11. Directivas de Aeronavegabilidad (<i>Airworthiness Directives</i>):	FAA web site: http://www.faa.gov
12. Certificación de Ruido (<i>Noise Compliance</i>):	No aplica <i>Not applicable</i>
13. Bases de Certificación (<i>Certification Bases</i>):	Civil Air Regulations Part 14 effective December 15, 1956 with amendment 14-1 thereto. Type Certificate no. P15EA issued Feb. 7, 1964. Date of application for T.C.: January 29, 1964 The following models were included under the original certification basis: HC-B3TN-2, HC-B3TN-3, HC-B3TN-5 The following models were added, updated or revised in accordance with 14 CFR Part 35 with amendments 35-1 through 35-2 effective April 3, 1967: HC-B3TN-2, HC-B3TN-3, HC-B3TN-5, HC-B3TN-7, HC-B3TF-7 The following models were added, updated or revised in accordance with 14 CFR Part 35 with amendments 35-1 through 35-5 effective October 14, 1980: HC-B3TF-7 The following models were added, updated or revised in accordance with 14 CFR Part 35 with amendments 35-1 through 35-6 effective August 1, 1990: HC-B3TN-2, HC-B3TN-3, HC-B3TN-5, HC-B3TN-7, HC-B3TW-3 The following models were added, updated or revised in accordance with 14 CFR Part 35 with amendments 35-1 through 35-8 effective December 23, 2008: HC-B3TW-3, HC-B3TN-3



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

Los siguientes documentos son adjuntos de este informe:

The following documents are attached to this report:

- Copia de la Hoja de Datos del Certificado Tipo para la hélice de FAA Numero P15EA (HC-B3T Hartzell Propeller).
Copy of FAA Engine Type Certificate Data Sheet, Number P15EA (HC-B3T Hartzell Propeller).
- Otros: No aplica
(Other) Not applicable

Firmas (*Signatures*)

.....
Andrés 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: October 9th, 2013



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 P15EA

*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 14 of the ^{Civil} ~~Federal~~
Aviation Regulations.*

Aircraft Propeller Model: HC-B3T

*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: January 29, 1964

Date of issuance: February 7, 1964

Reissued: August 9, 1982;
April 9, 1987

By direction of the Administrator.

(Signature)

W. F. Horn

Manager, Chicago Aircraft Certification

(Title)

Office, ACE-115C, Central Region

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.*