



CERTIFICADO SUPLEMENTAR DE TIPO

(Supplemental Type Certificate)

NÚMERO **2016S04-10**
(Number)

Este certificado, emitido com base na Lei nº 7565 "Código Brasileiro de Aeronáutica", de 19 de dezembro de 1986,
(This certificate, issued in the basis of the Law No. 7565 "Código Brasileiro de Aeronáutica", dated 19 December 1986,

é conferido ao (à): McFarlane Aviation, Inc.
is granted to:) 696 E. 1700 Road
 Baldwin City, KS 66006
 USA

por ter a modificação ao projeto de tipo do produto abaixo citado, observadas as limitações e condições
(for having the change to the type design of the product mentioned below, with the limitations and conditions therefor as)
especificadas, satisfeito aos requisitos de aeronavegabilidade aplicáveis.
(specified hereon, met the applicable airworthiness requirements.)

Produto Original - Número do Certificado de Tipo: * See attached ANAC Approved Model List (AML), Rev. I.R.,
(Original Product - Type Certificate No:.) dated 11 Apr. 2016, or later approved revisions.

Fabricante: *
(Manufacturer:.)

Modelo(s): *
(Model(s):.)

DESCRIÇÃO DA MODIFICAÇÃO AO PROJETO DE TIPO: (Description of Type Design Change:.)

Installation of Prop-Guard Polyurethane Protective Tape on the leading edge of metal propellers in accordance with Prop-Guard Installation Instructions, Document No. FP1001-CS1002, Rev. B, dated 03 June 1999, or later approved revisions.

This CST validates in Brazil the STC No. SP00582NY, issued by FAA (USA).

LIMITAÇÕES E CONDIÇÕES: (Limitations and Conditions:.)

See continuation sheet for applicable data.

DATAS: (Dates of:.)

Do Requerimento: 07 Mar. 2016
(Application:.)

Da emissão: 11 Apr. 2016
(Issuance:.)

Da reemissão:
(Reissuance:.)

Da emenda:
(Amendment:.)

MÁRIO IGAWA

Gerente-Geral, Certificação de Produto Aeronáutico
(General Manager, Aeronautical Product Certification)

DINO ISHIKURA

Superintendente de Aeronavegabilidade
(Airworthiness Superintendent)



Folha de Continuação ao
(Continuation Sheet to)

CERTIFICADO SUPLEMENTAR DE TIPO

(Supplemental Type Certificate)

NÚMERO 2016S04-10

(Number)

LIMITAÇÕES E CONDIÇÕES:

(Limitations and Conditions:)

- I. The approval of this type design change should not be extended to other propellers of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the relationship between this change and any of those other previously approved modifications, including changes in Type Design, will introduce no adverse effect upon the airworthiness of that propeller.
- II. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.
- III. The ANAC has determined that the installation of Prop-Guard laminate in accordance with this CST is a minor alteration because it does not appreciably affect the weight, balance, structural strength, performance, powerplant operations, flight characteristics, or other qualities of the propeller that affect airworthiness, and it may be done according to accepted practices that involve only elementary operations. According, the installation of Prop-Guard laminate may be performed by a certified mechanic under the Regulamento Brasileiro de Homologação Aeronáutica 65 (RBHA 65), and does not require the completion of an ANAC Form F-400-04E under section 43.9 of the Regulamento Brasileiro de Aviação Civil 43 (RBAC 43).
- IV. A copy of this Certificate and the attached ANAC Approved Model List (AML) for CST No. 2016S04-10 shall be maintained as part of the permanent records of the modified propeller.

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**ANAC APPROVED MODEL LIST (AML)
FOR CST 2016S04-10**

ITEM	PROPELLER MAKER	PROPELLER MODEL (S)	TYPE CERTIFICATE NUMBER
01	Sensenich Cooperation	69CK	9104 (ANAC)
02	Sensenich Cooperation	72CK, 72CC	P904 (FAA)
03	Sensenich Cooperation	74DM6, 74DM7, 74DR, 74DC	9808 (ANAC)
04	Sensenich Cooperation	76EM8	9809 (ANAC)
05	Sensenich Cooperation	80BM8	P17EA (FAA)
06	McCauley Propeller System	1C172	P-910 (FAA)
07	McCauley Propeller System	1A103/TCM	P50GL (FAA)
08	McCauley Propeller System	1B235, 1P235	P12EA (FAA)
09	McCauley Propeller System	1A200	1999T10 (ANAC)
10	McCauley Propeller System	1A100, 1A101, 1A102, 1A105, 1A106	P-918 (FAA)
11	McCauley Propeller System	1A90, 1B90, 1C90	P-842 (FAA)
12	McCauley Propeller System	1A175, 1B175	P-857 (FAA)
13	McCauley Propeller System	1A170	1999T03 (ANAC)
14	McCauley Propeller System	1A110	858 (FAA)
15	McCauley Propeller System	D-1093	815 (FAA)
16	McCauley Propeller System	2A31C	P-919 (FAA)
17	McCauley Propeller System	D2A34C, E2A34C, C2A34C, F2A34C	P3EA (FAA)
18	McCauley Propeller System	2A36, B2A36, C2A36, D2A36	P-880 (FAA)
20	McCauley Propeller System	2AF36C, D2AF36C	P-911 (FAA)
21	McCauley Propeller System	2AF34C, D2AF34C	P5EA (FAA)
22	McCauley Propeller System	2B36	P-889 (FAA)
23	McCauley Propeller System	2D34C	P7EA (FAA)
24	McCauley Propeller System	2D36	P-901 (FAA)
25	McCauley Propeller System	D3A32C	P21EA (FAA)
26	McCauley Propeller System	3A32C (4xx), D3A34C (4xx)	9812 (ANAC)



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ITEM	PROPELLER MAKER	PROPELLER MODEL (S)	TYPE CERTIFICATE NUMBER
27	McCauley Propeller System	3AF32C	P22EA (FAA)
28	McCauley Propeller System	3AF32C(5-)	P57GL (FAA)
29	McCauley Propeller System	3FF32C	P45GL (FAA)
30	McCauley Propeller System	B3D32C414, B3D32C417, B3D36C424, B3D36C429, B3D36C431, B3D36C432, B3D36C433	9110 (ANAC)
31	McCauley Propeller System	3GFR34C(700)	P60GL (FAA)
32	McCauley Propeller System	4HFR34C652, 4HFR34C663, 4HFR34C762, 4HFR34C766, 4HFR34C768, 4HFR34C774, 4HFR34C775, 4HFR34C778	9408 (ANAC)
33	McCauley Propeller System	5HFR34C(10--), 5HFR34C(11--), 5JFR36C(10--), B5JFR36C(11--), C5JFR36C(11--)	2008T07 (ANAC)
34	Hamilton Standard Div.	2D	P-206 (FAA)
35	Hamilton Standard Div.	3D	249 (FAA)
36	Hamilton Standard Div.	3E	246 (FAA)
37	Hamilton Standard Div.	12D	P-257 (FAA)
38	Hamilton Standard Div.	22D	P-736 (FAA)
39	Hamilton Standard Div.	33E	P-786 (FAA)
40	Hamilton Standard Div.	33D	P-749 (FAA)
41	Hamilton Standard Div.	33LF	P20EA (FAA)
42	Hamilton Standard Div.	43D	P-851 (FAA)
43	Hamilton Sundstrand	23E	P-603 (FAA)
44	Hamilton Sundstrand	54H	P-906 (FAA)
45	Hartzell Propeller Inc.	HA-12U	P-824 (FAA)
45	Hartzell Propeller Inc.	HC-A2X, BHC-A2X	P-908 (FAA)
46	Hartzell Propeller Inc.	HC-A3X	P-913 (FAA)



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ITEM	PROPELLER MAKER	PROPELLER MODEL (S)	TYPE CERTIFICATE NUMBER
47	Hartzell Propeller Inc.	HC-B3P	P29EA (FAA)
48	Hartzell Propeller Inc.	HC-B3M	9112 (ANAC)
49	Hartzell Propeller Inc.	HC-B3T	8006 (ANAC)
50	Hartzell Propeller Inc.	HC-B3Z	P-907 (FAA)
51	Hartzell Propeller Inc.	HC-C2Y	8810 (ANAC)
52	Hartzell Propeller Inc.	HC-A3V, PHC-A3V	P6EA (FAA)
53	Hartzell Propeller Inc.	()HC-C3Y	8711 (ANAC)
54	Hartzell Propeller Inc.	HC-E2Y	P9EA (FAA)
55	Hartzell Propeller Inc.	HC-E3Y, HC-I3Y, PHC-I3Y	8712 (ANAC)
56	Hartzell Propeller Inc.	HC-12X	P-845 (FAA)
57	Hartzell Propeller Inc.	HC-13X	P-888 (FAA)
58	Hartzell Propeller Inc.	HC-52X20	3P2 (FAA)
59	Hartzell Propeller Inc.	HC-82X	P-878 (FAA)
60	Hartzell Propeller Inc.	HC-83X	P-884 (FAA)
61	Hartzell Propeller Inc.	HC-92W	P16EA (FAA)
62	Hartzell Propeller Inc.	HC-92Z	P-892 (FAA)
63	Hartzell Propeller Inc.	HC-93Z	P-891 (FAA)
64	Hartzell Propeller Inc.	HC-I2Y	9805 (ANAC)
65	Hartzell Propeller Inc.	HC-D4N, HC-D4F, HC-E4A, HC-E4N	9107 (ANAC)
66	Hartzell Propeller Inc.	HC-B4M	8808 (ANAC)
67	Hartzell Propeller Inc.	HC-B4T	8201 (ANAC)
68	Hartzell Propeller Inc.	HC-F2Y	P27EA (FAA)
69	Hartzell Propeller Inc.	HC-B5M	1999T12 (ANAC)
70	Hartzell Propeller Inc.	HC-B5M	2000T03 (ANAC)
71	Hartzell Propeller Inc.	BHC-J2Y	8811 (ANAC)
72	Hartzell Propeller Inc.	HC-E5	2009T05 (ANAC)



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ITEM	PROPELLER MAKER	PROPELLER MODEL (S)	TYPE CERTIFICATE NUMBER
73	Hartzell Propeller Inc.	HC-J3Y, PHC-J3Y	9804 (ANAC)
74	Hartzell Propeller Inc.	HA-B3P	P30EA (FAA)
75	Hartzell Propeller Inc.	HC-B3W	P2EA (FAA)
76	Hartzell Propeller Inc.	HC-A2V	P24EA (FAA)
77	Hartzell Propeller Inc.	HC-B3R	P28EA (FAA)
78	Hartzell Propeller Inc.	HCF3Y	2005T14 (ANAC)
79	Hartzell Propeller Inc.	HC-H3Y	2006T05 (ANAC)

ANAC Approved:

MÁRIO IGAWA

Gerente-Geral, Certificação de Produto Aeronáutico
(General Manager, Aeronautical Product Certification)

ANAC Approved Date:

11 Apr. 2016

Revision: **I.R.**