

MINISTÉRIO DA AERONÁUTICA
DEPARTAMENTO DE PESQUISAS E DESENVOLVIMENTO
CENTRO TÉCNICO AEROESPACIAL

TYPE CERTIFICATE DATA SHEET N° EH-8802

Type Certificate Holder

McCAULEY ACCESSORY DIVISION
CESSNA Aircraft Company
Vandalia, Ohio, 45377
USA

EH-8802-02

Page 1

McCAULEY

2A34C,B2A37C

OCTOBER , 1992

The propeller model described herein conforming with this data sheet which is part of Type Certificate n° 8802 prescribes conditions and limitations under which the propeller for which the type certificate was issued meets the minimum standards for use in certificated aircraft in accordance with pertinent aircraft type certificate data sheets and airworthiness requirements of the applicable portions of the Brazilian Regulations for Aeronautical Certification - RBHA - provided they are installed, operated, and maintained as prescribed by the approved manufacturer's manuals and other approved instructions.

- **TYPE** Constant speed; hydraulic (see NOTE 3)
Engine shaft Special flange 10.16 cm (4.0 inches) B.C.
Hub and Blade Material Aluminium Alloy
Number of blades Two
Hubs eligible 2A34C221, B2A37C228

- **TABLE 1** - Hub model 2A34C221

Blades eligible (See NOTE 2)	Max. Cont. kw/rpm (shp)	Takeoff kw/rpm (shp)	Diameter Limits (See NOTE 2) mm (in)	Approx. Max. Wt. (For reference only) kg (lb)
90 DH(x)-12 to 90 DH(x)-20	156/2700 (210)	156/2700 (210)	1980 (78") to 1780 (70")	24,4 (53.8)

- **TABLE 2** - Hub model B2A37C228

Blades eligible (See NOTE 2)	Max. Cont. kw/rpm (shp)	Takeoff kw/rpm (shp)	Diameter Limits (See NOTE 2) mm(in)	Approx. Max. Wt. (For reference only) kg (lb)
90 RD(x)-0 to 90 RD(x)-18	224 (2700) (300)	224/2700 (300)	2286 (90") to 1829 (72")	27,7 (61)

- **CERTIFICATION BASIS**

Model 2A34C221/90 DHC:

FAR Part 35, effective October 14, 1980 with amendments 35-1 thru 35-5 thereto.

Model B2A37C228/90RD(x):

FAR Part 35 effective August 18, 1990 with amendments 35-1 thru 35-6 thereto.

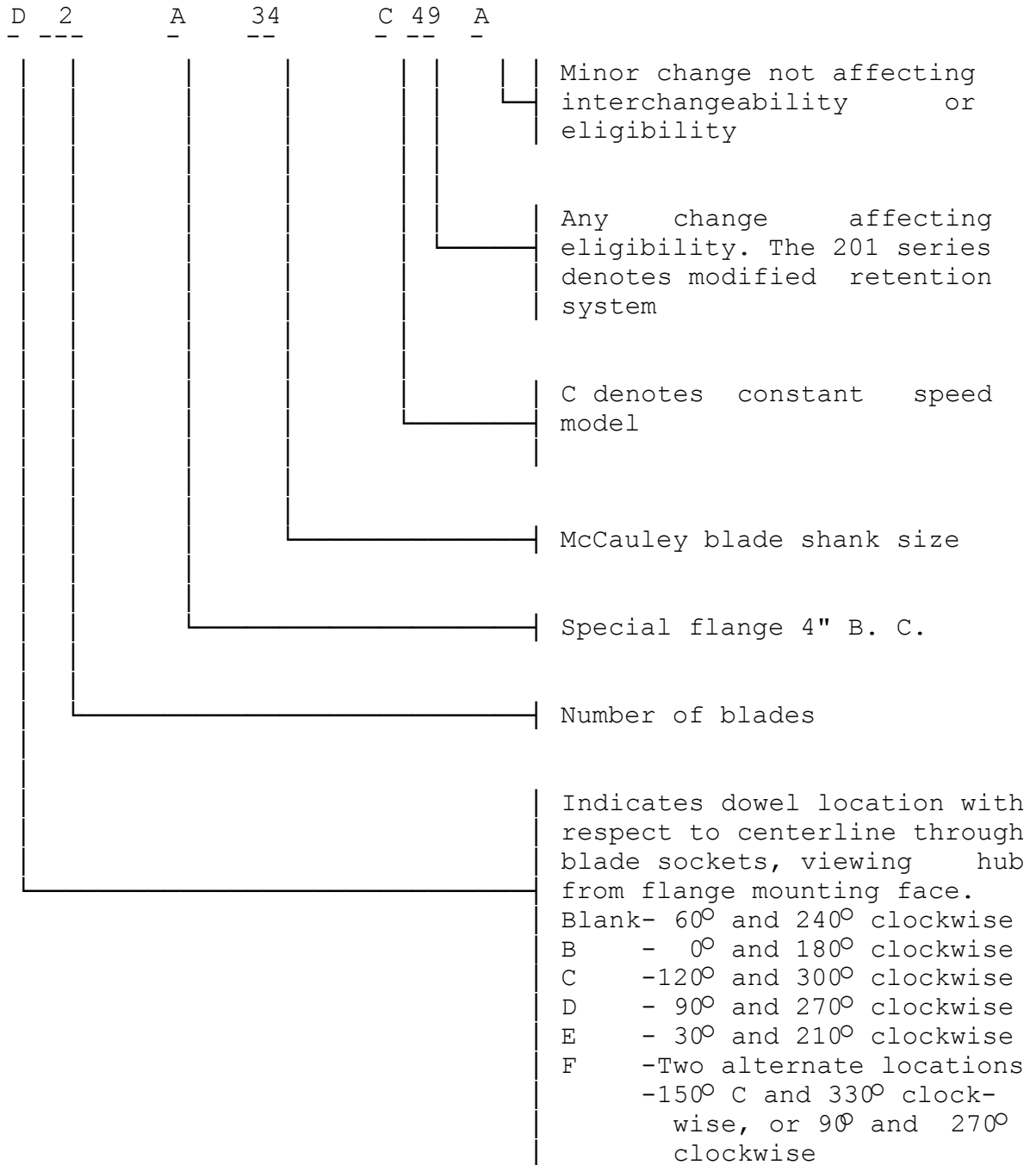
- **DATE OF APPLICATION FOR TYPE CERTIFICATE,**

January 15, 1987

Type Certificate n° 8802 issued in Aug 30,91
Production Certificate №. 3 (FAA)

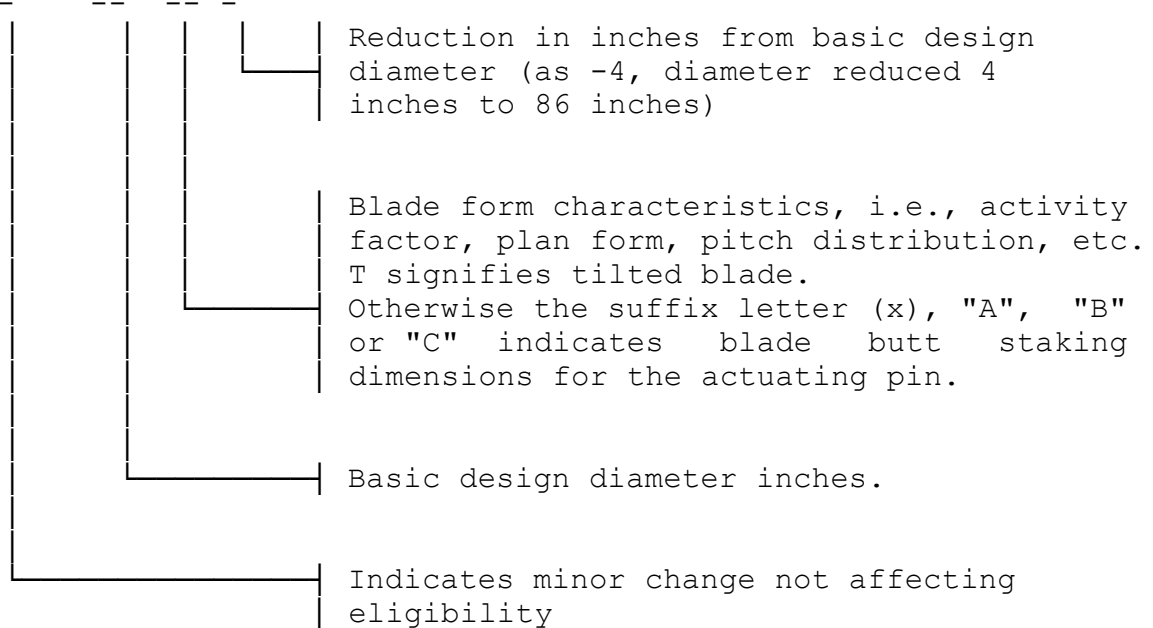
- **IMPORT REQUIREMENTS**

Each propeller exported separately must be accompanied by an Airworthiness Certificate for Export issued by the Federal Aviation Administration attesting that the particular propeller was submitted to governmental quality control before delivery and is in conformity with the adopted certification basis.

NOTE 1 - HUB MODEL DESIGNATION

NOTE 2 - BLADE MODEL DESIGNATION

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- **NOTE 3:** Pitch Control - Eligible with the following governors.

Woodward Model x, 210, xxx	wt. 1,59 kg (3.5 lb)
Hoof Model 1,000,007 series	wt. 1,59 kg (3.5 lb)
Hoof Model 1,604,014 series	wt. 1,59 kg (3.5 lb)
Garwin Model 34 - 828 series	wt. 1,36 kg (3.0 lb)
Hartzell Model F-2-7 ()	wt. 2,04 kg (4.5 lb)
McCauley Model C290D(x)/T(x)	wt. 1,27 kg (2.8 lb)

- **NOTE 4 :** Not applicable.

- **NOTE 5 :** LEFT HAND MODELS

The left hand version of an approved model is eligible at the same rating and diameter limitations as listed for the right hand model.

- **NOTE 6 :** Not applicable.

- **NOTE 7 : ACCESSORIES**

(a) Spinners

(1) approved McCauley spinners; D-3396 or D-5255 Installation for B2A37C228 model.

- **NOTE 8 :** Not applicable.- **NOTE 9 : TABLE OF PROPELLER - ENGINE COMBINATIONS****APPROVED VIBRATIONWISE FOR USE ON NORMAL CATEGORY SINGLE - ENGINE TRACTOR AIRCRAFT.**

The maximum and minimum propeller diameters that can be used from a vibration standpoint are shown below. No reduction below the minimum diameter listed is permissible, since this figure includes the diameter reduction allowable for repair purposes.

Hub Model	Blade Model	Engine Model	Crankshaft Damper Configuration
2A34C221	90DHC	Continental TSIO-360 Series up to 113.8kw (210HP) 2700 rpm	1 - 4.5 and 1 - 6th Order Crankshaft Dampers.

Max. Dia. mm (inches)	Min. Dia. mm (inches)	Placards
1879.6mm (74")	1828.8mm (72")	None

Hub Model	Blade Model	Engine Model	Crankshaft Damper Configuration
*B2A37C228	90RD(x) - 0 to 90RD(x) - 18	Continental IO-550-E 221.0kw (300HP) 2700rpm	2-6, 1-5 and 1-4 Order Crankshaft Dampers.

Max. Dia. mm (inches)	Min. Dia. mm (inches)	Placards
2184.4mm (86")	2133.6mm (84")	None

* This propeller/engine combination as noted is only approved when installed in the Neiva EMB-200/200A/200R /201/201A/202 - IPANEMA aircraft.

- NOTE 10 : SPECIAL NOTES

The word "eligible" as used herein does not signify approval as part of this Type Certificate, "Eligible" accessories must be approved as part of the aircraft type certificate upon compliance with the applicable aircraft airworthiness requirements.

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