

**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

P5EA Revision 17 McCauley D2AF34C 2AF34C 2AF31C April 17, 2006
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TYPE CERTIFICATE DATA SHEET NO. P5EA

Propellers of models described herein conforming with this data sheet (which is part of Type Certificate No. P5EA) and other approved data on file with the Federal Aviation Administration meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Federal Aviation Regulations provided they are installed, operated, and maintained as prescribed by the approved manufacturer's manuals and other approved instructions.

Type Certificate Holder	McCauley Propeller Systems 7751 East Pawnee Wichita, KS 67207		
Type	Constant speed; hydraulic (see NOTES 3 and 4)		
Engine shaft	Special flange 4 in. B.C.		
Hub material	Aluminum alloy		
Blade material	Aluminum alloy		
No. of blades	Two		
Hubs eligible	2AF31C10	D2AF34C59	D2AF34C303
	2AF34C55	D2AF34C60	D2AF34C304
	D2AF34C30	D2AF34C61	D2AF34C305
	D2AF34C41	D2AF34C65	D2AF34C306
	D2AF34C42	D2AF34C71	D2AF34C307
	D2AF34C46	D2AF34C81	D2AF34C308
	D2AF34C52	D2AF34C91	D2AF34C310
	D2AF34C54	D2AF34C301	
	D2AF34C56	D2AF34C302	

Blades	Maximum <u>Continuous</u>		<u>Takeoff</u>		Diameter Limits (See Note 2)	Approx. Max. Wt. Complete (For Reference Only) (See NOTE 3)
	HP	RPM	HP	RPM		
<u>Hub Models D2AF34C46, D2AF34C59, D2AF34C60, D2AF34C42, D2AF34C91</u>						
76C-0 to 76C-6	225	2800	225	2800	76" - 70" (-0 to -6)	54 lb., 56.5 lb.*, 59.0 lb.****
<u>Hub Models D2AF34C56, D2AF34C61, D2AF34C41</u>						
L76C-0 to L76C-6	225	2800	225	2800	76" - 70" (-0 to -6)	58 lb.
<u>Hub Models D2AF34C301, D2AF34C304</u>						
76CTA-0 to 76CTA-6	225	2800	225	2800	76" - 70" (-0 to -6)	55.5 lb., 58.5 lb.***

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Blades	Maximum <u>Continuous</u>		<u>Takeoff</u>		Diameter Limits (See Note 2)	Approx. Max. Wt. Complete (For Reference Only) (See NOTE 3)
	HP	RPM	HP	RPM		
<u>Hub Model D2AF34C302</u>						
L76CTA-0 to L76CTA-6	225	2800	225	2800	76" - 70" (-0 to -6)	60.5 lb.
<u>Hub Models D2AF34C305, D2AF34C307</u>						
L78CBA-0 to L78CBA-8	225	2800	225	2800	78" - 70" (-0 to -8)	62.0 lb.
<u>Hub Models D2AF34C303, D2AF34C306</u>						
78CAA-0 to 78CAA-8	225	2800	225	2800	78" - 70" (-0 to -8)	56.5 lb.
<u>Hub Models 2AF34C55, D2AF34C30</u>						
78FF-0 to 78FF-6	285	2700	285	2700	78" - 72" (-0 to -6)	57.5 lb.
<u>Hub Model D2AF34C52</u>						
80GF-0 to 80GF-8	265	2700	265	2700	80" - 72" (-0 to -8)	60 lb.
<u>Hub Model D2AF34C54</u>						
84HF-0 to 84HF-12	265	2700	265	2700	84" - 72" (-0 to -12)	59 lb.
<u>Hub Models D2AF34C65, D2AF34C71, D2AF34C81</u>						
84JF-0 to 84JF-12	285	2700	285	2700	84" - 72" (-0 to -12)	62.5 lb., 58 lb.**
<u>Hub Model 2AF31C10</u>						
84SF-4 to 84SF-12	220	2800	220	2800	80" - 72" (-4 to -12)	53 lb.
<u>Hub Models D2AF34C308, D2AF34C310</u>						
90DEA-12 to 90DEA-20	225	2800	225	2800	78" - 70" (-12 to -20)	60.5 lb.

- * D2AF34C59/76C and D2AF34C42/76C models weigh 56.5 lb.
** D2AF34C65/84JF and D2AF34C81/84JF models weigh 62.5 lb. and D2AF34C71/84JF weighs 58 lbs.
*** D2AF34C301/76CTA weighs 55.5 lb.
**** D2AF34C91/76C weighs 59.0 lb.

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

Woodward Model	x,210,xxx	Wt. 3.5 lb.
McCauley Models	DCF290D1/T[X], DCF290D2/T[X], DCFS290D1/T[X], DCF290D2/T[X], DCFU290D1/T[X], DCFU290D2/T[X], DCFUS290D1/T[X], DCFUS290D2/T[X]	Wt. 3.0 lb.
McCauley Models	CF310D1/T[X], CF310D2/T[X], CFU310D1/T[X] CFU310D2/T[X], CFS310D1/T[X], CFS310D2/T[X], CFS310D3/T[X], CFUS310D1/T[X], CFUS310D2/T[X], CFUS310D3/T[X]	Wt. 3.0 lb.
McCauley Models	DCFS310D3/T[X], DCFS310D4/T[X] DCFUS310D3/T[X], DCFUS310D4/T[X]	Wt. 4.0 lb.

NOTE 4. Feathering. Eligible with full feathering control installed in accordance with the propeller manufacturer's instructions.

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) Propeller Anti-Icing or Deicing

- (1) Model 78FF blades eligible with Goodrich 37572 fluid feed shoes 10 inches maximum length, when applied in accordance with McCauley or Beech (Beech Specification BS-388) instruction.
- (2) Model 78FF blades eligible with Goodyear 4065-2611 iceguards installed per Goodyear Manual AP-147.
- (3) Model 76C, L76C, 76CTA, L76CTA, 78FF, 80GF, 84HF, 84JF, and 84SF blades eligible with Goodrich 4E1188-3 deicer installed in accordance with Goodrich Report No. 59-728.

(b) Spinners

- (1) Model 2AF34C55/78FF eligible with McCauley plain or anti-icing spinners; reference D-2747 Dome, D-2870 Bulkhead and D-2749 or PD-2749 Installation; D-2793 Dome, D-2801 Bulkhead, and D-2802 or PD-2802 Installation; D-2747 or D-3419 Dome, D-3403 Bulkhead, and D-3404 or PD-3404 Installation; D-3419 Dome, D-2870 Bulkhead, and D-3420 or PD-3420 Installation; D-3461 Dome, D-2801 Bulkhead, and D-3462 or PS-3462 Installation; or D-2793 Dome, D-3830 Bulkhead, and D-3831 Installation.
- (2) Model 2AF31C10/84SF eligible with McCauley spinner; Reference D-3419 Dome, D-2870 Bulkhead, and D-3420 Installation.
- (3) Model D2AF34C30/78FF eligible with McCauley plain or anti-icing spinners; Reference D-3419 Dome, D-3956 Bulkhead and D-3953 or PD-3953 Installation, or D-3461 Dome, D-4804 Bulkhead and D-4046 or PD-4046 Installation.

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 diameter reduction allowable for repair purposes.

	<u>Hub Model</u>	<u>Blade Model</u>	<u>Engine Model</u>	<u>Engine Damper Configuration</u>	<u>Max. Dia. (Inches)</u>	<u>Min. Dia. (Inches)</u>	<u>Placards</u>
or	D2AF34C42 D2AF34C46 D2AF34C59 D2AF34C60 D2AF34C91	76C	Continental IO-360 Series (up to 210 hp. @2800 r.p.m.)	Two 6th order or one 4.5 and one 6th order	76	74	None
or	D2AF34C42 D2AF34C46 D2AF34C59 D2AF34C60 D2AF34C91	76C	Continental TSIO-360 Series (up to 210 hp. @2800 r.p.m.)	Two 6th order or one 4.5 and one 6th order	76	72	None
or	D2AF34C301 D2AF34C304	76CTA	Continental IO-360 and TSIO-360 Series (up to 210 hp. @ 2800 r.p.m.)	Two 6th order or one 4.5 and one 6th order	76	75	None
or	D2AF34C303 D2AF34C306	78CAA	Continental TSIO-360 Series (up to 210 hp. @2800 r.p.m.)	One 6th and one 4.5 order	76	72	None
or	D2AF34C303 D2AF34C306	78CAA	Continental IO-360 Series (up to 210 hp. @2800 r.p.m.)	Two 6th order or one 4.5 and one 5th order	78	72	None
	2AF34C55	78FF	Continental IO-470 Series (up to 260 hp. @2625 r.p.m.)	Two 5th and one 6th order	78	76	None
	D2AF34C52	80GF	Continental IO-470 Series (up to 260 hp. @2625 r.p.m.)	Four 6th order or two 6th, one 5th and one 4.5 order	80	78	None
	D2AF34C54	84HF	Continental TSIO-470 Series (up to 260 hp. @2600 r.p.m.)	Two 6th, one 5th and one 4th order	82	78	None
or	2AF34C55 D2AF34C30	78FF	Continental IO-520 Series (up to 285 hp. @2700 r.p.m.)	Two 6th, one 5th and one 4th order	78	76	None
or	D2AF34C65 D2AF34C71 D2AF34C81	84JF	Continental IO-470 Series (up to 260 hp. @2625 r.p.m.)	Two 6th, one 5th and one 4.5 order	84	78	None
or	D2AF34C65 D2AF34C71 D2AF34C81	84JF	Continental TSIO-520 Series (up to 285 hp. @2700 r.p.m.)	Two 6th, one 5th and one 4th order	81	79	None
	2AF31C10	84SF	Franklin 6A-350 Series (up to 220 hp. @2800 r.p.m.)	Viscous Damper	80	74	None
or	D2AF34C308 D2AF34C310	90DEA	Continental IO-360 Series (up to 210 hp. @2800 r.p.m.)	One 4.5 and one 6th order	78	75	None
or	D2AF34C308 D2AF34C310	90DEA	Continental TSIO-360 Series (up to 225 hp. @2800 r.p.m.)	One 4.5 and one 6th order	78	75	None

NOTE 10. 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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