



February 14, 2017

Over the years we have received many requests for information concerning what wings can or cannot be used as replacements. In working with our Engineering Department we have determined that there are five key guidelines that must be met on any wing that is being considered as a replacement. These guidelines are listed in their order of importance.

1. **AIRFOIL:** The replacement wing must have the same airfoil. This is a no exception, hard and fast rule. If the replacement wing has a different airfoil it cannot be used.
2. **GROSS WEIGHT:** The replacement wing must be from an aircraft with the same or higher gross weight. This rule is not hard and fast however and Cessna will consider such requests on an individual basis.
3. **FUEL SYSTEM:** The fuel system in the replacement wing must be the same or an approved option for the aircraft. Typical fuel system considerations are as follows:
 - a). **Capacity:** If the fuel capacity of the replacement wing is different than the original capacity the new capacity must have been an option on the aircraft and the quantity system must be changed to reflect the new capacity. Both wings must have the same fuel capacity.
 - b) **Fuel Lines and Connections:** Fuel line sizes and connection points have changed over the years as have fuel quantity transmitters. Many times the simplest way to overcome these problems is to install the original tanks in the new wings.
4. **FLAPS:** Although the basic cable operated flap installation has remained almost unchanged, the flap actuation, flap travel and position indicating systems have seen several big changes. The simplest solution to this problem is the installation of the original flap actuating and indicating system in the replacement wing.
5. **ELECTRICAL SYSTEM:** Wing mounted landing lights, navigation lights, strobes, or other installed equipment will have to be modified so that the replacement wing has the same components installed as the original.

Although this information is not "Approved Data" it does constitute Cessna's recommendation concerning the installation of replacement wings on this aircraft.

I hope this information is helpful please call (316) 517-5800 if you have further questions.

Sincerely,
Geoff Kelley
Textron Aviation

