



## McGETTRICK STRUCTURAL ENGINEERING, Inc.

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### **150–lb Takeoff Weight Increase of Cessna 182 STC (FAA Approved)**

#### **Supplemental Type Certificate Number SA01709WI**

**Models:** 182L and 182M

**FAA Approved STC (Supplemental Type Certificate) Allows:** 150–lb Takeoff Weight Increase (from 2800 lbs to 2950 lbs), while the landing weight remains the same at 2800 lbs.

**Rationale for Weight Increase:** Extensive investigation of the C182N model (which has the same Takeoff and Landing weights) found two main structural areas of modifications. The wing splice area needs to be updated to match the 182N model configuration. The Lower bulkhead area is relieved by adding fuel weight.

#### **Revised Operating Parameters:**

- Requires addition of fuel to achieve 2950 lb takeoff weight increase.
- C.G. limits are the same as the Cessna 182N model
- Stall Speeds, Takeoff Distance, Rate of Climb are the same as the Cessna 182N model
- Landing distance is the same because landing weight does not change

#### **STC Package Includes:**

- Copy of the STC certificate.
- Signed letter specifically authorizing your S/N aircraft to legally use the STC.
- POH Supplement that details the revised limitations and Weight and Balance.
- New limitations placard to replace the existing placard.
- Instructions for Continued Airworthiness
- Spar splice installation instructions

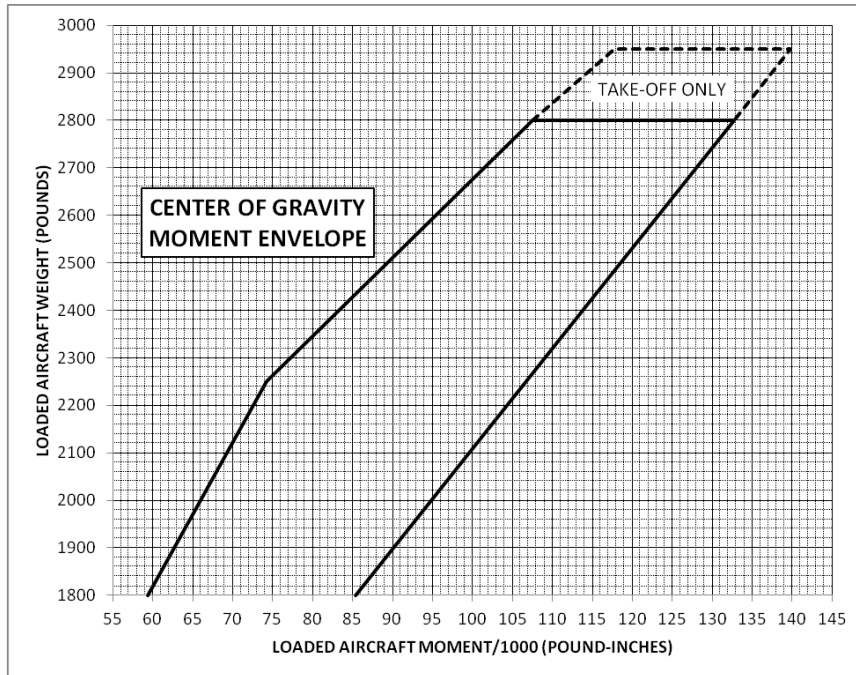
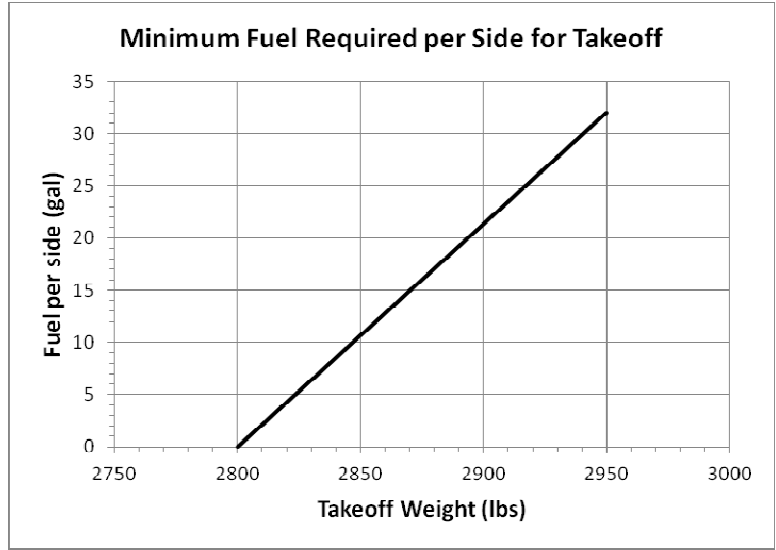
Contact [info@mcgettrickengineering.com](mailto:info@mcgettrickengineering.com) for more information.

**[McGettrick Structural Engineering, Inc.](http://www.mcgettrickengineering.com)**

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Weight	Min Fuel Req'd per side for Takeoff
2800	0.0
2850	11.0
2900	22.0
2940	30.0
2950	32.0



	CONDITION	0°	30°	60°
2950 LBS GROSS WEIGHT	FLAPS UP	66	71	93
	FLAPS 20°	59	63	83
	FLAPS 40°	57	61	81
STALL SPEEDS ARE MPH, CAS				

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