

LOADING ARRANGEMENTS

*Pilot or passenger center of gravity on adjustable seats positioned for average occupant. Numbers in parentheses indicate forward and aft limits of occupant center of gravity range.

**Arms measured to the center of the areas shown.

- NOTES:
1. The usable fuel C.G. arm is located at station 46.5.
 2. The aft baggage wall (approximate station 124) can be used as a convenient interior reference point for determining the location of baggage area fuselage stations.

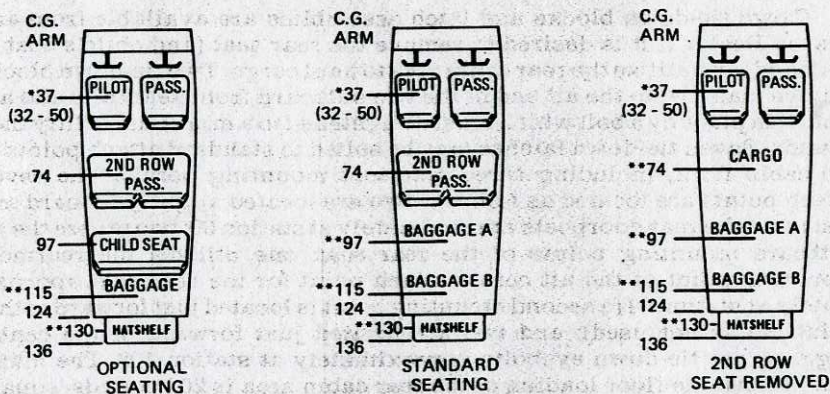
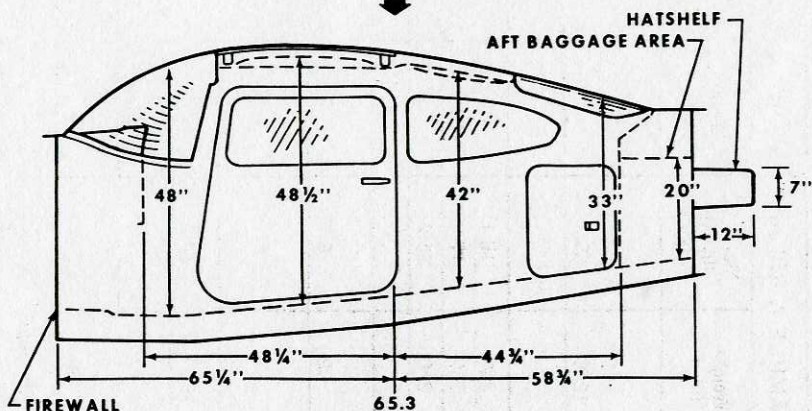


Figure 6-3. Loading Arrangements

CABIN HEIGHT MEASUREMENTS



DOOR OPENING DIMENSIONS

	WIDTH (TOP)	WIDTH (BOTTOM)	HEIGHT (FRONT)	HEIGHT (REAR)
CABIN DOOR	32"	36 1/2"	41"	38 1/2"
BAGGAGE DOOR	15 3/4"	15 3/4"	22"	20 1/2"

— WIDTH —
● LWR WINDOW LINE
— LINE —
* CABIN FLOOR

CABIN WIDTH MEASUREMENTS

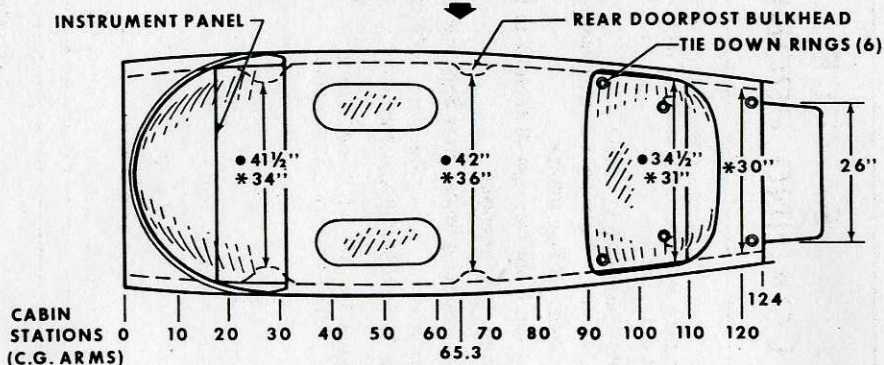
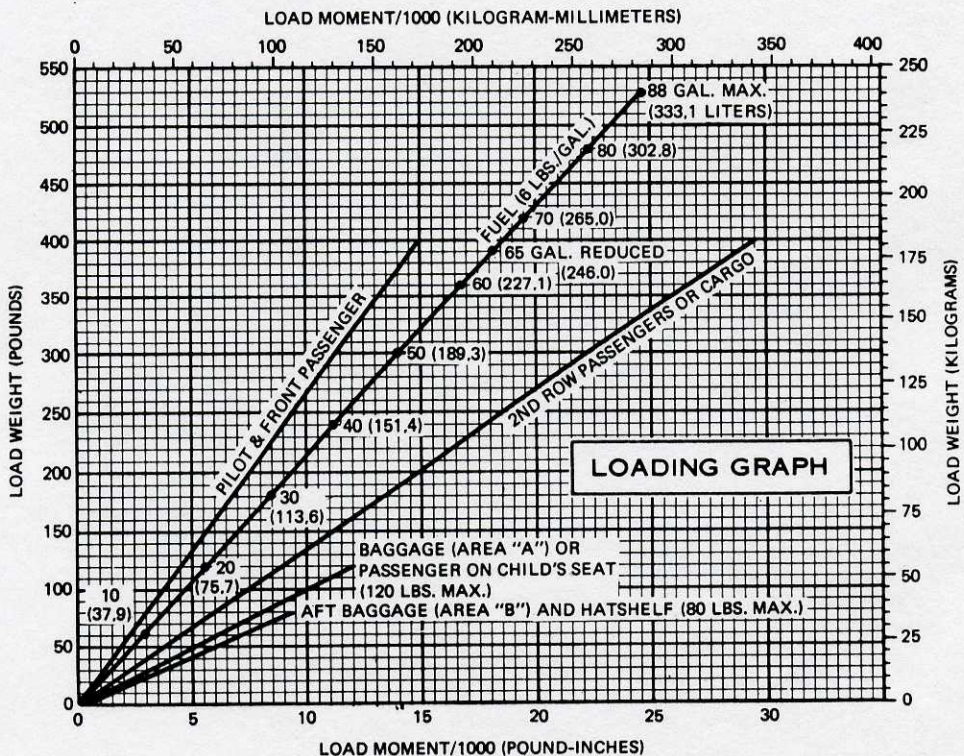


Figure 6-4. Internal Cabin Dimensions

SAMPLE LOADING PROBLEM	SAMPLE AIRPLANE		YOUR AIRPLANE	
	Weight (lbs.)	Moment (lb.-ins. /1000)	Weight (lbs.)	Moment (lb.-ins. /1000)
1. Basic Empty Weight (Use the data pertaining to your airplane as it is presently equipped. Includes unusable fuel and full oil)	1800	63.3		
2. Usable Fuel (At 6 Lbs./Gal.) Standard Tanks (88 Gal. Maximum)				
Reduced Fuel (65 Gal.)	390	18.1		
3. Pilot and Front Passenger (Station 32 to 50)	340	12.6		
4. Second Row Passengers	340	25.2		
Cargo Replacing Second Row Seats (Sta. 65 to 82)				
5. Baggage (Area "A") or Passenger on Child's Seat (Sta. 82 to 108) 120 Lbs. Maximum	90	8.7		
6. Baggage-Aft (Area "B") and Hatshelf (Sta. 108 to 136) 80 Lbs. Maximum				
7. RAMP WEIGHT AND MOMENT	2960	127.9		
8. Fuel allowance for engine start, taxi and runup	- 10	- .5		
9. TAKEOFF WEIGHT AND MOMENT (Subtract step 8 from step 7)	2950	127.4		
10. Locate this point (2950 at 127.4) on the Center of Gravity Moment Envelope, and since this point falls within the envelope, the loading is acceptable.				

Figure 6-5. Sample Loading Problem



- NOTES: 1. Line representing adjustable seats shows pilot and front seat passenger center of gravity on adjustable seats positioned for an average occupant. Refer to the Loading Arrangements diagram for forward and aft limits of occupant C.G. range.
2. Hatshelf Maximum Load 25 Lbs.

Figure 6-6. Loading Graph

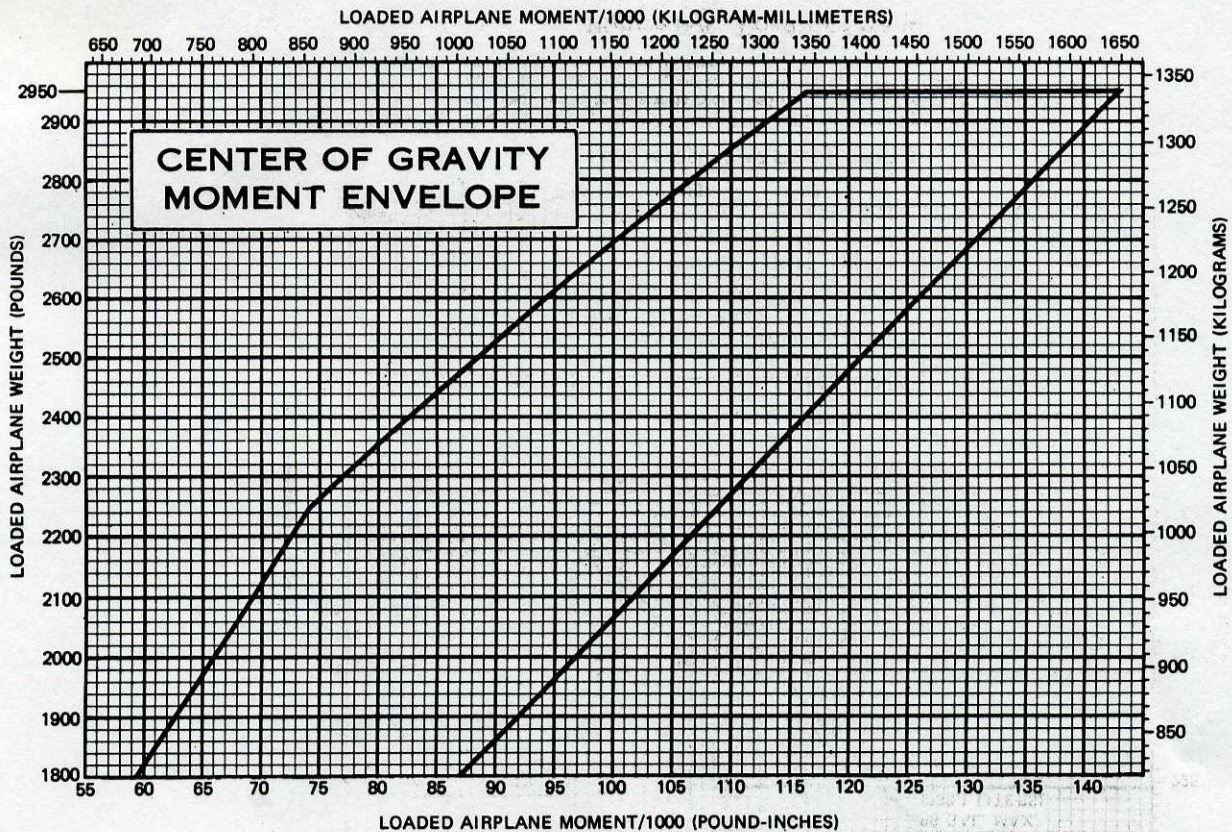


Figure 6-7. Center of Gravity Moment Envelope

CESSNA
MODEL 182Q

SECTION 6
WEIGHT & BALANCE/
EQUIPMENT LIST

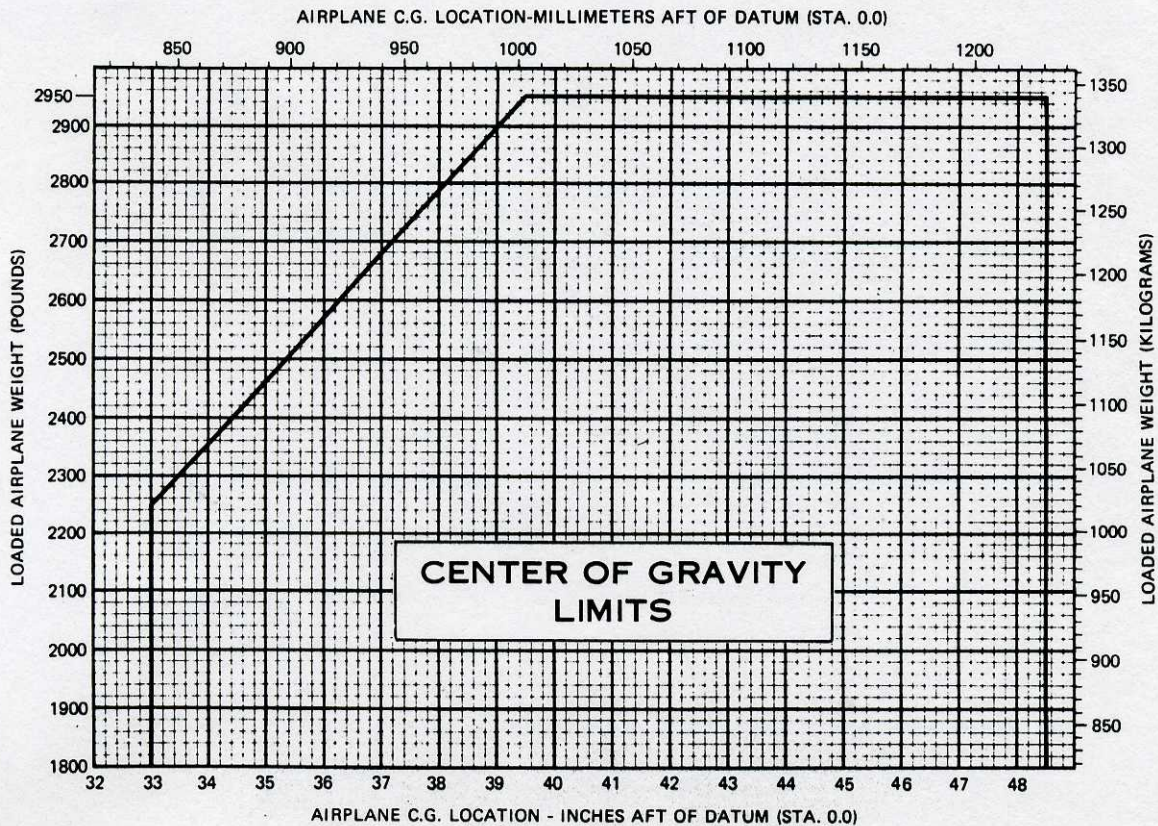


Figure 6-8. Center of Gravity Limits