

TAKEOFF DISTANCE

MAXIMUM WEIGHT 2950 LBS

CONDITIONS:

Flaps 20°
2400 RPM, Full Throttle and Mixture Set Prior to
Brake Release
Cowl Flaps Open
Paved, Level, Dry Runway
Zero Wind

SHORT FIELD

NOTES:

1. Short field technique as specified in Section 4.
2. Prior to takeoff from fields above 5000 feet elevation, the mixture should be leaned to give maximum power in a full throttle, static runup.
3. Decrease distances 10% for each 9 knots headwind. For operation with tailwinds up to 10 knots, increase distances by 10% for each 2 knots.
4. Where distance value has been deleted, climb performance after lift-off is less than 150 fpm at takeoff speed.
5. For operation on a dry, grass runway, increase distances by 15% of the "ground roll" figure.

WEIGHT LBS	TAKEOFF SPEED KIAS		PRESS ALT FT	0°C		10°C		20°C		30°C		40°C	
	LIFT OFF	AT 50 FT		GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS
2950	49	57	S.L.	635	1220	680	1305	730	1395	780	1490	835	1590
			1000	690	1335	745	1430	795	1530	850	1635	910	1745
			2000	755	1465	810	1565	870	1680	930	1800	995	1925
			3000	825	1605	890	1725	950	1850	1020	1985	1090	2130
			4000	905	1770	970	1905	1045	2050	1120	2205	1195	2370
			5000	995	1965	1065	2115	1145	2280	1230	2460	1315	2655
			6000	1090	2185	1175	2360	1260	2555	1350	2765	1450	3005
			7000	1200	2450	1290	2655	1390	2885	1490	3145	---	---
			8000	1325	2765	1425	3015	1530	3300	---	---	---	---

Figure 5-4. Takeoff Distance (Sheet 1 of 2)

LANDING DISTANCE

SHORT FIELD

CONDITIONS:
Flaps 40°
Power Off
Maximum Braking
Paved, Level, Dry Runway
Zero Wind

NOTES:

1. Short field technique as specified in Section 4.
2. Decrease distances 10% for each 9 knots headwind. For operation with tailwinds up to 10 knots, increase distances by 10% for each 2 knots.
3. For operation on a dry, grass runway, increase distances by 40% of the "ground roll" figure.

WEIGHT LBS	SPEED AT 50 FT KIAS	PRESS ALT FT	0°C		10°C		20°C		30°C		40°C	
			GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS
2950	60	S.L.	560	1300	580	1335	600	1365	620	1400	640	1435
		1000	580	1335	600	1365	620	1400	645	1440	665	1475
		2000	600	1370	625	1405	645	1440	670	1480	690	1515
		3000	625	1410	645	1445	670	1485	695	1525	715	1560
		4000	650	1450	670	1485	695	1525	720	1565	740	1600
		5000	670	1485	695	1525	720	1565	745	1610	770	1650
		6000	700	1530	725	1575	750	1615	775	1660	800	1700
		7000	725	1575	750	1615	780	1665	805	1710	830	1750
		8000	755	1625	780	1665	810	1715	835	1760	865	1805

Figure 5-10. Landing Distance

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.

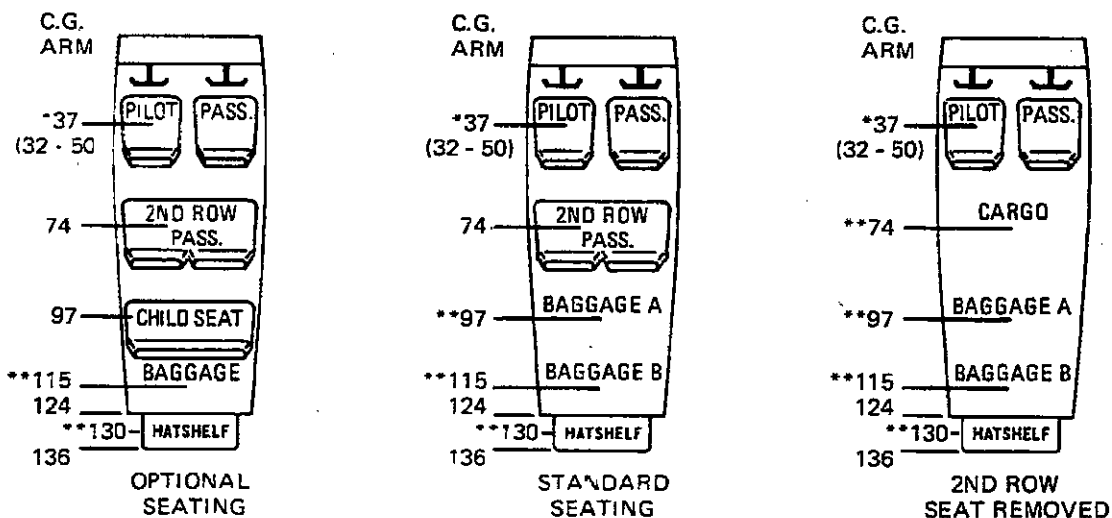


Figure 6-3. Loading Arrangements

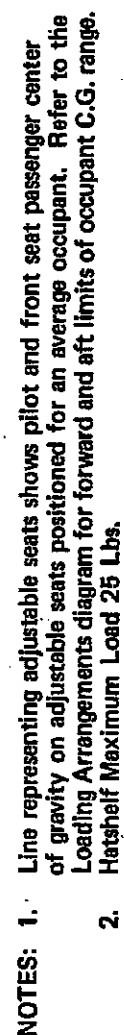


Figure 8-6. Loading Graph

SECTION 6
WEIGHT & BALANCE/
EQUIPMENT LIST

CESSNA
MODEL 182Q

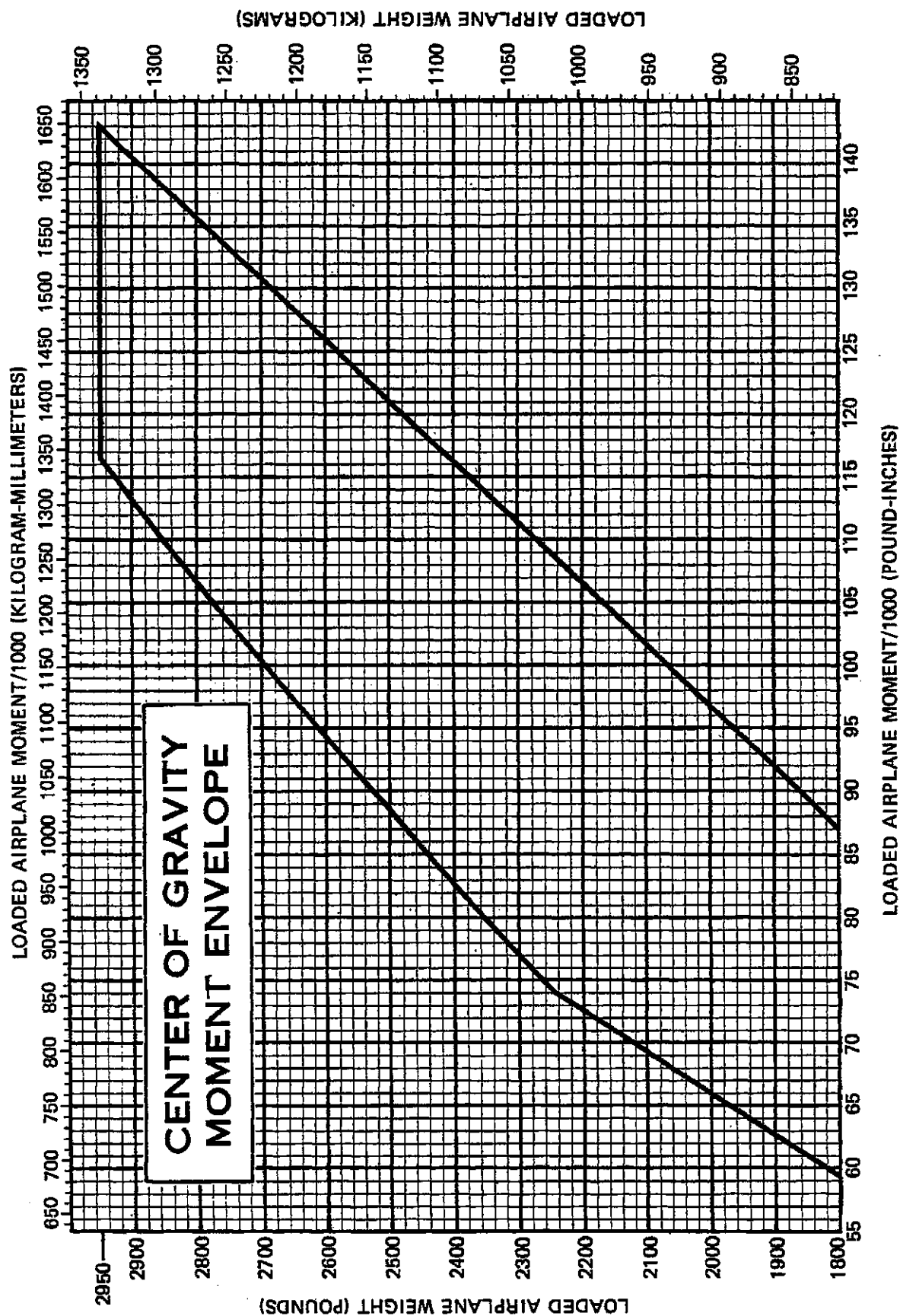
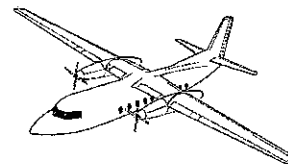


Figure 6-7. Center of Gravity Moment Envelope

11 PARADISE COURT
CLONTARF
QLD. AUSTRALIA 4019
Phone : (07) 3283 3817
Fax: (07) 3319 6171
Mobile 0439 328 338

LOAD DATA SHEET

D. MacArthur & Associates
(NAME OF ORGANISATION)

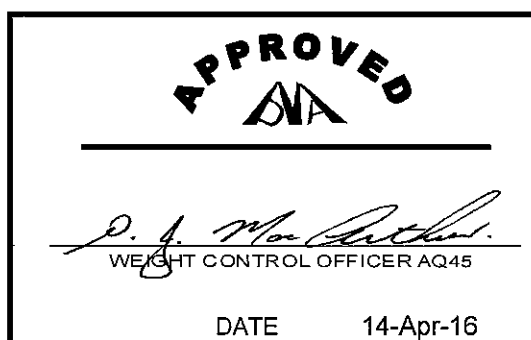


Aircraft Type Cessna 182Q S/N 18267670 Aircraft Reg VH-TRE

Approved loading system Approved C182Q POH Section 6 OR See Below

AUTHORISED	DATE	DATE OF EXPIRY	ISSUE
D. J. MacArthur	14-Apr-16	INDEFINITE SUBJECT TO C.A.O. 100.7	FIVE

This LOAD DATA SHEET
has been prepared by the
VALIDATION
of cumulative data and not
by weighing the aircraft.



ITEM	WEIGHT Kg	ARM mm	MOMENT	INDEX * (IU)	CONFIGURATION (ALSO SEE EQUIPMENT LIST)
EMPTY WEIGHT	872.98	921	804239		FOUR SEATS TOTAL
IMPERIAL					
	WEIGHT Lbs	ARM Inches	MOMENT		
EMPTY WEIGHT	1924.6	36.3	69805		FOUR SEATS TOTAL

THE ABOVE WEIGHTS INCLUDE:

EMPTY WEIGHT: UNUSABLE FUEL & FULL ENGINE OIL

LOAD SYSTEM

- 1) REFER TO FLIGHT MANUAL & SUPPLEMENTS FOR LOAD LIMITATIONS.
NO LOADING SYSTEM IS REQUIRED IF THE FOLLOWING IS OBSERVED.
- a) FRONT SEATS TO BE OCCUPIED FIRST & HEAVIEST OCCUPANT IS IN THE FRONT SEAT.
 - b) BAGGAGE INSTALLED AREA 'A' ONLY.
 - c) 3 SEATS OCCUPIED AND OBSERVING a) ALL BAGGAGE AREA'S MAY BE UTILISED TO MAX
LOADING CAPACITY.

BAGGAGE CAPACITY - TOAL 90Kg

AREA A 54Kg

AREA B 36Kg



6149-67670

WORK ORDER WB-6149	DATUM Fwd Face of Engine Firewall
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