

WEIGHT AND BALANCE

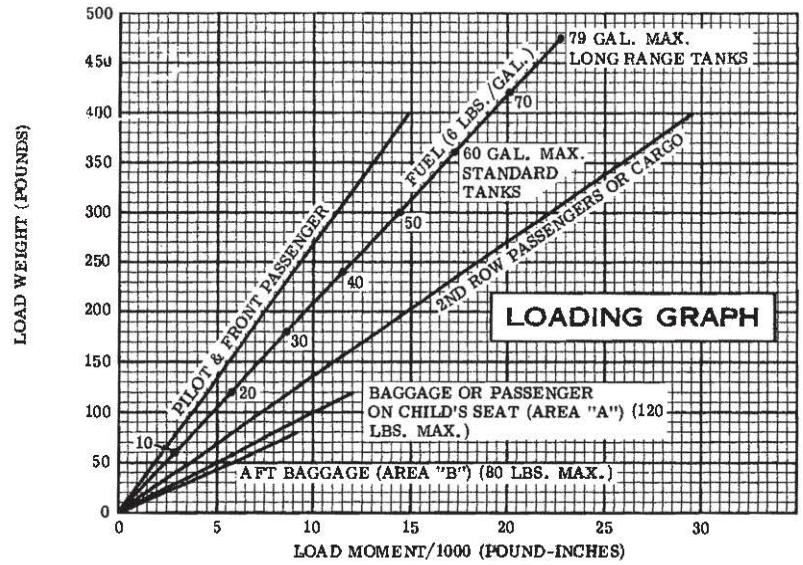
C-182 LN-BLU

Bodø fallskjermklubb

Rev 01. 10.01.2015

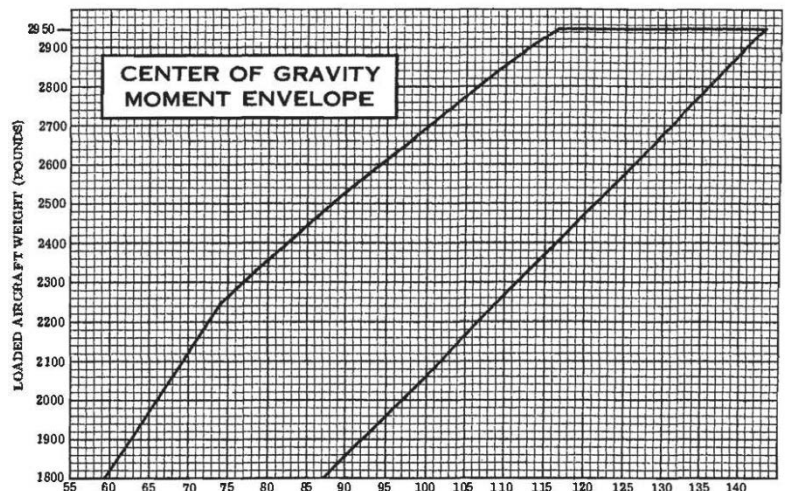
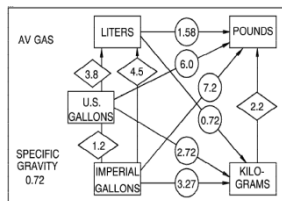
DATE	ETD(Z)	PILOT (PIC)	PASS. 1	PASS. 2	PASS. 3

ITEM	WEIGHT LBS	MOMENT LBS*INS /1000
BASIC EMPTY WEIGHT (VALID 2002.07.09 ->)	1872 (851kg)	66,6
USABLE FUEL (MAX 284L/470 LBS)		
PILOT AND FRONT PASSENGER		
REAR PASSENGERS		
BAGGAGE (MAX 200 LBS)	AREA A (MAX 120)	
	AREA B (MAX 80 LBS)	
RAMP WEIGHT		
START, RUNUP AND TAXI FUEL	-0.8	-0.4
TAKE OFF WEIGHT (MAX 2950 LBS)		
TRIP FUEL		
LANDING WEIGHT		



- 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) Engine Oil: 12 Qts = 22 Lbs. at -0.3 Moment/1000.

POUNDS	KILOGRAMS	AVGAS FUEL
220	100	LITERS
210	95	100
200	90	95
190	85	90
180	80	85
170	75	80
160	70	75
150	65	70
140	60	65
130	55	60
120	50	55
110	45	50
100	40	45
90	35	40
80	30	35
70	25	30
60	20	25
50	15	20
40	10	15
30	5	10
20	0	5
10	0	0
0	0	0



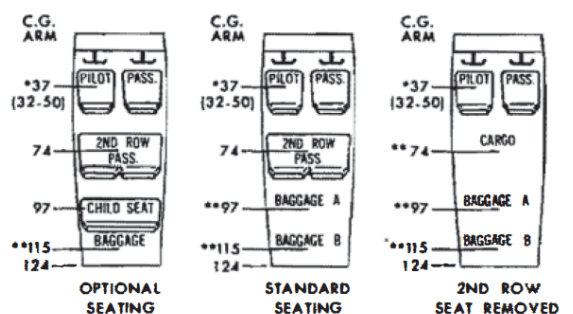
LOADING ARRANGEMENTS

*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.

NOTE:

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.



TAKE OFF AND LANDING

C-182 LN-BLU

Rev 01. 10.01.2015

TAKE OFF DISTANCE (SHORT FIELD, SEE NOTE)		
TAKE OFF WEIGHT		
PRESSURE ALTITUDE		
TEMPERATURE		
FROM TABLE	GROUND ROLL	50' FEET OBST
WIND CORRECTION (SEE NOTE)		
SURFACE CORRECTION (SEE NOTE)		
REQUIRED		
REQUIRED IN METER		
AVAILABLE IN METER (TORA TODA)		
PLACE		

TAKE-OFF DATA										
TAKE-OFF DISTANCE WITH 20° FLAPS FROM HARD SURFACE RUNWAY										
GROSS WEIGHT LBS.	IAS @ 50' MPH	HEAD WIND KNOTS	AT SEA LEVEL & 59°F.		AT 2500 FT. & 50°F.		AT 5000 FT. & 41°F.		AT 7500 FT. & 32°F.	
			GROUND RUN	TOTAL TO CLEAR 50' OBS	GROUND RUN	TOTAL TO CLEAR 50' OBS	GROUND RUN	TOTAL TO CLEAR 50' OBS	GROUND RUN	TOTAL TO CLEAR 50' OBS
2950	60	0	705	1350	845	1625	1015	1990	1240	2585
		10	490	1025	595	1245	725	1550	900	2040
		20	310	740	385	910	480	1150	610	1545
2500	55	0	465	955	575	1120	690	1330	840	1630
		10	325	710	395	840	475	1005	590	1255
		20	195	490	245	590	300	720	380	915
2000	50	0	285	655	350	745	415	855	500	1005
		10	185	480	225	530	275	620	335	740
		20	105	305	130	355	180	425	205	515

NOTES: 1. Increase distances 10% for each 25°F above standard temperature for particular altitude.
2. For operation on a dry, grass runway, increase distances (both "ground run" and "total to clear 50 ft. obstacle") by 7% of the "total to clear 50 ft. obstacle" figure.

GROSS WEIGHT LBS.	AT SEA LEVEL & 59°F.			AT 5000 FT. & 41°F.			AT 10,000 FT. & 23°F.			AT 15,000 FT. & 5°F.			AT 20,000 FT. & -12°F.		
	IAS MPH	RATE OF CLIMB FT/MIN	GAL. OF FUEL USED	IAS MPH	RATE OF CLIMB FT/MIN	From SL FUEL USED	IAS MPH	RATE OF CLIMB FT/MIN	From SL FUEL USED	IAS MPH	RATE OF CLIMB FT/MIN	From SL FUEL USED	IAS MPH	RATE OF CLIMB FT/MIN	From SL FUEL USED
2950	89	890	1.5	87	665	3.8	85	445	6.8	83	220	11.5	--	--	--
2500	87	1210	1.5	85	935	3.2	83	855	5.2	80	380	8.2	78	105	14.9
2000	84	1710	1.5	82	1350	2.7	79	995	4.1	76	640	5.9	74	280	9.2

NOTES: 1. Flaps up, full throttle, 2600 RPM, mixture leaned for smooth operation above 5000 ft.
 2. Fuel used includes warm-up and take-off allowance.
 3. For hot weather, decrease rate of climb 30 ft./min. for each 10°F above standard day temperature for particular altitude.

LANDING DISTANCE (SHORT FIELD, SEE NOTE)		
PRESSURE ALTITUDE		
TEMPERATURE		
FROM TABLE	GROUND ROLL	50' FEET OBST
WIND CORRECTION (SEE NOTE)		
SURFACE CORRECTION (SEE NOTE)		
REQUIRED		
REQUIRED IN METER		
AVAILABLE IN METER (LDA)		
PLACE		

<h1 style="text-align: center;">LANDING DISTANCE TABLE</h1> <h2 style="text-align: center;">LANDING DISTANCE WITH 40° FLAPS ON HARD SURFACED RUNWAY</h2>									
GROSS WEIGHT POUNDS	APPROACH IAS MPH	@ SEA LEVEL & 59° F		@ 2500 FEET & 50° F		@ 5000 FEET & 41° F		@ 7500 FEET & 32° F	
		GROUND ROLL	TOTAL TO CLEAR 50 FT. OBS.	GROUND ROLL	TOTAL TO CLEAR 50 FT. OBS.	GROUND ROLL	TOTAL TO CLEAR 50 FT. OBS.	GROUND ROLL	TOTAL TO CLEAR 50 FT. OBS.
2950	69	590	1350	640	1430	680	1505	740	1595

NOTES: 1. Distances shown are based on zero wind, power off and heavy braking.

2. Reduce landing distances 10% for each 5 knots headwind.

3. For operation on a dry, grass runway, increase distances (both "ground roll" and "total to clear 50 ft. obstacle") by 20% of the "total to clear 50 ft. obstacle" figure.