

N447AF

ELMENDORF AERO CLUB

DEPARTURE
DESTINATION
ALTERNATE
ENROUTE
WINDS ALOFT
FREEZING LEVELS & NOTES
NOTAMS

SHORT FIELD TAKE-OFF DISTANCE

AT 2450 lbs

C-172R

CONDITIONS:

Flaps - 10°

Full throttle prior to brake release

Paved, level, dry runway

Zero Wind

Lift Off: 51 KIAS

Speed at 50 Ft: 57 KIAS

PRESS ALT (FT)	0° C		10° C		20° C	
	GRND ROLL (FT)	TOTAL FT TO CLEAR 50 FT OBS	GRND ROLL (FT)	TOTAL FT TO CLEAR 50 FT OBS	GRND ROLL (FT)	TOTAL FT TO CLEAR 50 FT OBS
S.L.	845	1510	910	1625	980	1745
1000	925	1660	1000	1790	1075	1925
2000	1015	1830	1095	1970	1185	2125
3000	1115	2020	1205	2185	1305	2360
4000	1230	2245	1330	2430	1435	2630

PRESS ALT (FT)	30° C		40° C	
	GRND ROLL (FT)	TOTAL FT TO CLEAR 50 FT OBS	GRND ROLL (FT)	TOTAL FT TO CLEAR 50 FT OBS
S.L.	1055	1875	1135	2015
1000	1160	2070	1245	2220
2000	1275	2290	1365	2455
3000	1400	2540	1505	2730
4000	1545	2830	1655	3045

NOTES:

1. Short field technique as specified in Section 4.
2. Prior to takeoff from fields above 3000 feet elevation, the mixture should be leaned to give maximum RPM in a full throttle, static run-up.
3. Decrease distances 10% for each 9 knots headwind. For operation with tail winds up to 10 knots, increase distance by 10% for each 2 knots.
4. For operation on dry, grass runway, increase distances by 15% of the "ground roll" figure.
5. Where distance value has been deleted, climb performance is minimal.

WEIGHT AND BALANCE

N447AF	WEIGHT (lbs)	ARM	MOMENT in LBS/1000
AIRPLANE EMPTY WEIGHT	1656.5	39.50	65.432
PILOT & FRONT PASSENGER		37.00	
REAR PASSENGERS		73.00	
BAGGAGE AREA (AREA 1, 120 LBS) ¹		95.00	
BAGGAGE AREA (AREA 2, 50 LBS) ¹		123.00	
ZERO FUEL WEIGHT			
FUEL (53 GAL USEABLE)		48.00	
TOTAL MAX TAKEOFF WEIGHT: 2450			

NOTE 1: 120 POUNDS MAXIMUM BAGGAGE IN BOTH AREAS COMBINED

WEIGHT AND BALANCE WITHIN LIMITS _____