
SECTION 5 - PERFORMANCE DATA -

CROSSWIND LIMIT DEMONSTRATED - 22 KTS 25 MPH

STALLING SPEEDS (At Max AUW) "IN KTS IAS"

<u>BANK ANGLE</u>	<u>0°</u>	<u>30°</u>	<u>60°</u>
<u>FLAPS UP</u>	53	57	75
<u>FLAPS :</u> <u>TAKE OFF</u>	50	53	71
<u>FLAPS:LANDING</u>	47	50	66

P.E.C. CORRECTIONS

Since the pitot/static system is well matched indicated airspeeds are for all practical purposes identical to rectified air speeds.

There is therefore no need to correct indicated airspeeds other than for altitude and outside air temperature.

TAKE OFF PERFORMANCE IN ZERO WIND, HEADS FOR TAKE OFF, PROPELLORS EFFICIENT 76.5%

ALTITUDE (FT)	TEMPERATURE (°C)	FEET				ILL	
		AUM 2205 LBS (1000 KG)		AUM 1874 LBS (850 KG)			
		HARD RUNWAY	GRASS	HARD RUNWAY	GRASS		
0	- 5°C	1181 (590)	1345 (754)	771 (377)	836 (442)		
	STD (=15°C)	1312 (672)	1492 (853)	836 (410)	218 (492)		
	+ 35°C	1443 (738)	1656 (951)	918 (459)	1017 (557)		
4000	- 13°C	1558 (787)	1804 (1033)	1000 (492)	1099 (590)		
	STD (=7°C)	1738 (902)	2034 (1197)	1099 (541)	1230 (672)		
	+ 27°C	1935 (1000)	2280 (1345)	1213 (607)	1361 (754)		
8000	- 21°C	2099 (1066)	2509 (1476)	1295 (656)	1476 (836)		
	STD (= - 1°C)	2345 (1214)	2854 (1722)	1460 (738)	1673 (951)		
	+ 19°C	2624 (1360)	3231 (1968)	1607 (820)	1870 (1082)		

IN EACH CASE : DISTANCE (FEET) FROM STANDING START TO CLEAR 50 FT AT 1.3 V_{s1}
 (DISTANCE OF GROUND ROLL TO REACH 1.1 V_{s1})

EFFECT OF HEAD WING : FOR 10 KTS MULTIPLY BY 0.79
 FOR 20 KTS MULTIPLY BY 0.64
 FOR 30 KTS MULTIPLY BY 0.53

CLIMB PERFORMANCE

In standard atmosphere
Flaps up
Full throttle, optimum mixture
Propellor Sensenich 76.58

1. AT AWW OF 2205 LBS (1000 KG)

Rate of Climb at MSL : 1100 ft/minute (5,6 m/s)
Reducing by 49 ft/minute per 1000 feet
Service Ceiling 20.000 ft
Optimum Climbing Speeds:

92 KTS at MSL
reducing to 81 KTS at 15,000 feet

2. AT AWW OF 1764 LBS (800 KG)

Rate of Climb at MSL 1515ft/minute (7,5m/s)
Reducing by 55 ft/minute per 1000 feet
Service Ceiling 25.000 ft

NOTE: Corrections for Temperature: For each 10^oC
above ISA, reduce the service ceiling by 1000
feet, and reduce the rate of climb by 49
ft/minute.

GUIDE PERFORMANCE :

With engine stopped the glide angle is
1 in 9.3 (with no wind) at Vi=78 KTS (90MPH)
Effects of altitude and temperature are
almost negligible.

CRUISE PERFORMANCE

- . AT AUV OF 1000 KG (2205 LBS)
- . IN STANDARD ATMOSPHERE AND STILL AIR
- . AT APTIMUM MIXTURE SETTING.
- . WITH ZERO FUEL RESERVE (TODRY TANKS)
- . PROPELLER SENSENICH 76.58

PH	ALTITUDE feet	TAS knots	% POWOR	FUEL Consum- tion IG/hour	ENDU- RANCE h.min.	RANGE n.m
00	0	124	70	8.0	3.00	373
	6000	123	63	7.3	3.17	405
	12000	122	56	6.6	3.40	445
00	0	119	64	7.4	3.14	386
	6000	117	58	6.8	3.33	405
	1200	116	53	6.3	3.52	448
00	0	114	58	6.8	3.33	405
	6000	112	54	6.4	3.48	427
	12000	110	50	6.0	4.00	440
0	0	107	52	6.1	3.56	421
	6000	104	49	5.9	4.04	427
	1200	102	47	5.7	4.14	435

ALTITUDE (FT.)	TEMPERATURE (°C)	AUW 2303 LBS (1045 KG.)		AUW 1862 LBS (845 KG.)
		MODERATE BRAKING RUNWAY OR GRASS	NO BRAKES GRASS	
0	- 5°C	1460 (672)	1804 (1017)	1246 (541)
	STD (= 15°C)	1542 (721)	1902 (1082)	1312 (574)
	+ 35°C	1640 (771)	2017 (1148)	1378 (623)
4000	- 13°C	1607 (754)	1984 (1131)	1345 (607)
	STD (= 7°C)	1706 (820)	2099 (1213)	1427 (656)
	+ 27°C	1804 (885)	2231 (1312)	1509 (705)
8000	- 21°C	1771 (853)	2198 (1279)	1476 (672)
	STD (= -1°C)	1886 (918)	2345 (1378)	1574 (738)
	+ 19°C	2001 (984)	2493 (1476)	1656 (787)

IN EACH CASE : DISTANCE (FEET) FROM 50 FT AT 1.3 V_{so} to FULL STOP
(GROUND ROLL FROM TOUCHDOWN AT V_{so})

EFFECT OF HEADWIND : FOR 10 KTS MULTIPLY BY 0.79
FOR 20 KTS MULTIPLY BY 0.64
FOR 30 KTS MULTIPLY BY 0.53