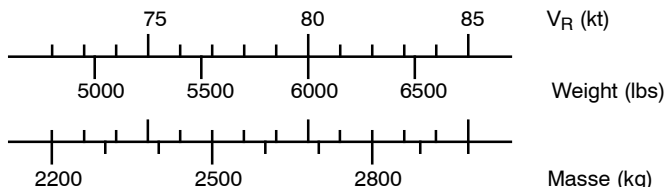


## 5.9 - TAKEOFF DISTANCES

## WEIGHT : 5512 lbs (2500 kg)

- Associated conditions :
- Landing gear DN and flaps TO
  - 15° of attitude - TRQ = 100 %
  - Np = 2000 RPM - BLEED AUTO
  - Hard, dry and level runway
  - GR = Ground roll (in ft)
  - D50 = Takeoff distance (clear to 50 ft) (in ft)
  - Rotation speed choice (VR)



WEIGHT : 5512 lbs (2500 kg) At 50 ft = 91 KIAS - 105 MPH IAS								
PRESSURE ALTITUDE ft	ISA - 35°C		ISA - 20°C		ISA - 10°C		ISA	
	GR	D50	GR	D50	GR	D50	GR	D50
0	787	1280	886	1411	951	1493	1017	1591
2000	886	1411	984	1558	1066	1657	1132	1772
4000	984	1558	1099	1722	1181	1837	1280	1968
6000	1099	1722	1230	1903	1329	2051	1444	2215
8000	1230	1903	1394	2149	1526	2329	1657	2510
PRESSURE ALTITUDE ft	ISA + 10°C		ISA + 20°C		ISA + 30°C		ISA + 37°C	
	GR	D50	GR	D50	GR	D50	GR	D50
0	1083	1690	1148	1788	1214	1903	1247	1969
2000	1214	1870	1296	1985	1378	2133	1444	2231
4000	1363	2100	1476	2247	1575	2411	1640	2526
6000	1575	2379	1690	2559	1837	2756	1919	2887
8000	1804	2707	1968	2920	2100	3133	2198	3281

Figure 5.9.1 - TAKEOFF DISTANCES - 5512 lbs (2500 kg)

- Corrections :
- Reduce total distances of 10 % every 10 kts of headwind
  - Increase total distances of 30 % every 10 kts of tail-wind
  - Increase by :
    - 7 % on hard sod
    - 25 % on high grass
    - 10 % on short grass
    - 30 % on slippery runway
    - 15 % on wet runway

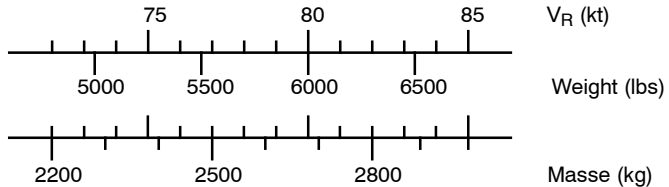
## NOTE :

Between ISA + 30°C and ISA + 37°C, it may be necessary to cut-off the Bleed in order to set TRQ = 100 % during takeoff while respecting the engine limitations. In this case, reduce power after takeoff to set the Bleed to AUTO.

TAKEOFF DISTANCES

**WEIGHT : 6579 lbs (2984 kg)**

- Associated conditions :
- Landing gear DN and flaps TO
  - 15° of attitude - TRQ = 100 %
  - Np = 2000 RPM - BLEED AUTO
  - Hard, dry and level runway
  - GR = Ground roll (in ft)
  - D<sub>50</sub> = Takeoff distance (clear to 50 ft) (in ft)
  - Rotation speed choice (V<sub>R</sub>)



WEIGHT : 6579 lbs (2984 kg) At 50 ft = 94 KIAS - 108 MPH IAS								
PRESSURE ALTITUDE ft	ISA - 35°C		ISA - 20°C		ISA - 10°C		ISA	
	GR	D50	GR	D50	GR	D50	GR	D50
0	1083	1673	1214	1870	1280	2001	1378	2133
2000	1214	1870	1345	2067	1444	2198	1542	2362
4000	1345	2067	1509	2297	1640	2461	1739	2625
6000	1509	2297	1706	2559	1837	2723	1968	2920
8000	1706	2559	1903	2854	2067	3051	2231	3281
PRESSURE ALTITUDE ft	ISA + 10°C		ISA + 20°C		ISA + 30°C		ISA + 37°C	
	GR	D50	GR	D50	GR	D50	GR	D50
0	1476	2264	1575	2395	1690	2559	1755	2657
2000	1673	2493	1772	2657	1903	2854	1969	2953
4000	1870	2789	2001	2953	2149	3182	2231	3314
6000	2100	3117	2297	3346	2461	3609	2543	3740
8000	2428	3543	2657	3839	2854	4134	2969	4298

Figure 5.9.2 - TAKEOFF DISTANCES - 6579 lbs (2984 kg)

- Corrections :
- . Reduce total distances of 10 % every 10 kts of headwind
  - . Increase total distances of 30 % every 10 kts of tail-wind
  - . Increase by :
 

7 %	on hard sod	25 %	on high grass
10 %	on short grass	30 %	on slippery runway
15 %	on wet runway		

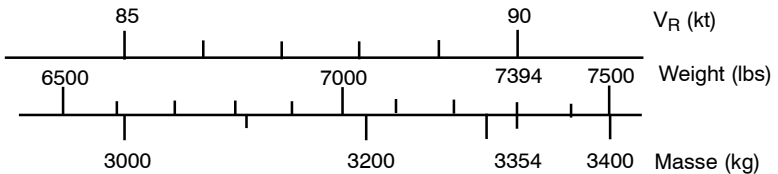
NOTE :

Between ISA + 30°C and ISA + 37°C, it may be necessary to cut-off the Bleed in order to set TRQ = 100 % during takeoff while respecting the engine limitations. In this case, reduce power after takeoff to set the Bleed to AUTO.

## TAKEOFF DISTANCES

### WEIGHT : 7394 lbs (3354 kg)

- Associated conditions :
- Landing gear DN and flaps TO
  - 12°5 of attitude - TRQ = 100 %
  - Np = 2000 RPM - BLEED AUTO
  - Hard, dry and level runway
  - GR = Ground roll (in ft)
  - D50 = Takeoff distance (clear to 50 ft) (in ft)
  - Rotation speed choice (VR)



<b>WEIGHT : 7394 lbs (3354 kg) At 50 ft = 99 KIAS - 114 MPH IAS</b>								
PRESSURE ALTITUDE ft	ISA - 35°C		ISA - 20°C		ISA - 10°C		ISA	
	GR	D50	GR	D50	GR	D50	GR	D50
0	1575	2250	1755	2495	1905	2675	2035	2840
2000	1755	2495	1970	2755	2120	2955	2280	3150
4000	1970	2755	2200	3055	2380	3285	2545	3510
6000	2185	3035	2480	3415	2675	3675	2890	3955
8000	2460	3380	2790	3825	3055	4135	3315	4445
PRESSURE ALTITUDE ft	ISA + 10°C		ISA + 20°C		ISA + 30°C		ISA + 37°C	
	GR	D50	GR	D50	GR	D50	GR	D50
0	2165	3020	2315	3200	2480	3415	2560	3530
2000	2445	3365	2595	3580	2780	3805	2920	3990
4000	2740	3760	2955	4035	3185	4300	3330	4480
6000	3135	4235	3380	4530	3625	4825	3805	5055
8000	3560	4760	3855	5105	4170	5450	4380	5710

Figure 5.9.3 - TAKEOFF DISTANCES - 7394 lbs (3354 kg)

- Corrections :
- . Reduce total distances of 10 % every 10 kts of headwind
  - . Increase total distances of 30 % every 10 kts of tail-wind
  - . Increase by :
 

7 %	on hard sod	25 %	on high grass
10 %	on short grass	30 %	on slippery runway
15 %	on wet runway		

**NOTE :**

Between ISA + 30°C and ISA + 37°C, it may be necessary to cut-off the Bleed in order to set TRQ = 100 % during takeoff while respecting the engine limitations. In this case, reduce power after takeoff to set the Bleed to AUTO.