

4.6 Takeoff Performance

TAKEOFF DISTANCE

Conditions:

Flaps: 15°	Runway: dry, compact, grass
Engine: full throttle	Slope: 0° Wind: zero
V _r = 48 KIAS	V _{LO} = 49 KIAS
V _x flaps 15 = 56 KIAS	R/C ≥ 200 ft/min

Decrease distances by 10% for each 10 Knots of headwind. Increase distances by 20 % for each 10 Knots of tailwind
For dry and paved runway operation decrease ground run by 6 %.

⇒ Example:

Given	Find
O.A.T. = 15°C	TOD = 253m (830 ft)
Pressure altitude = 2900 ft	TOR = 117m (383 ft)
Weight = 450 Kg (990')	

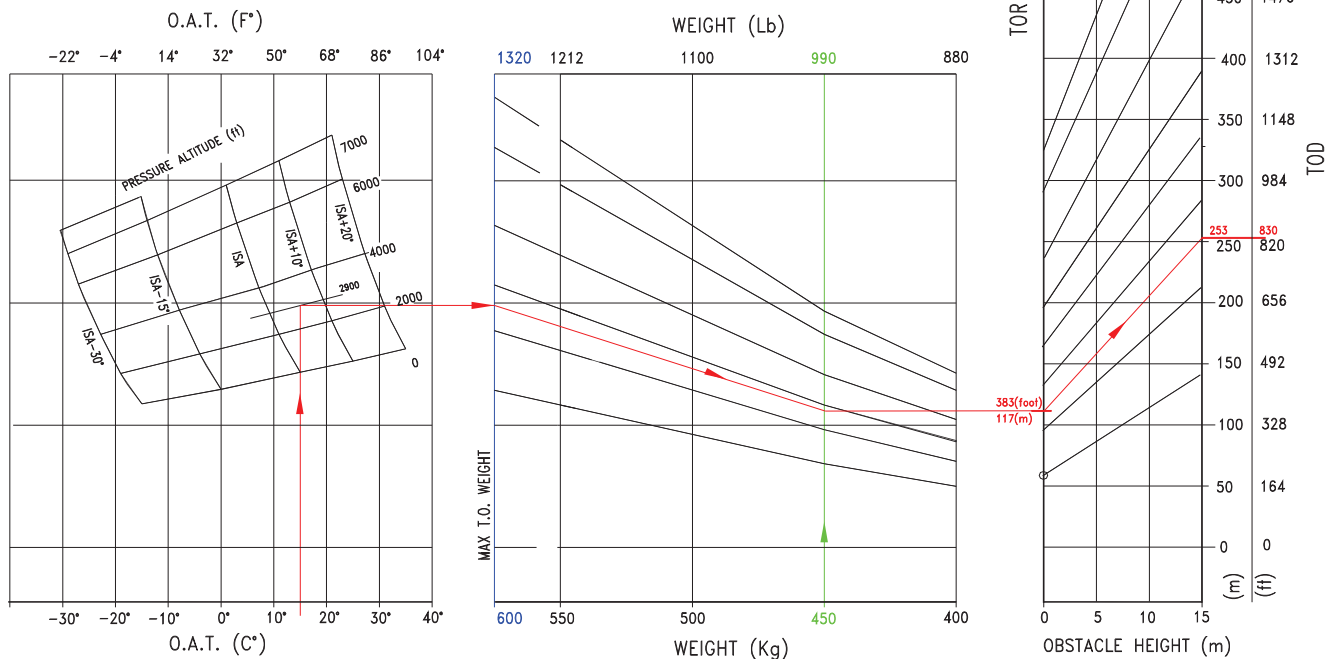


Fig. 5-4 Takeoff performance