

## N264PC Performance Calculations

Airport elevation: 6691 ft  
Winds calm  
Temperature 10°C, Dew Point -16°C  
Altimeter 30.41" Hg

Pressure altitude: 6201 ft  
Density altitude: 7128 ft

POH – Pilot's Operating Handbook

### Takeoff Distance – Flaps Up

Calculated per POH:

- Takeoff distance with 0 ft obstacle: 2200 ft
- Takeoff distance with 50 ft obstacle: 4000 ft

Adjustment after referencing STC SA02722CH POH supplement (increase by 11%)

- Takeoff distance with 0 ft obstacle: **2442 ft**
- Takeoff distance with 50 ft obstacle: **4440 ft**

### Rate of Climb

Calculated per POH:

- 780 ft/min

Required corrections per POH (decrease rate of climb by 75 ft/min):

- 705 ft/min

Adjustment after referencing STC SA02722CH POH supplement (decrease by 5%)

- **670 ft/min**

### Time and Distance Traveled

Distance from end of runway to accident site: 0.4 miles = 2112 ft

Pilot's reported airspeed: 80 knots = 8101 ft/min

Time calculated to tree: 15.6 seconds

Calculated gained altitude: 174 ft

Tree: 6716 ft mean sea level (msl) + 40 ft above ground = 6756 ft msl

Calculated altitude of airplane: 6691 msl + 174 ft gained = 6865 ft msl

Margin of error: **109 ft**