

Altitude at Property Line

Altitude at Property line (distance from liftoff to property line is 2500ft).

- Pipistrel Alpha Electro
 - Vx = 57 KIAS
 - Ground roll 272ft on grass
 - Distance from liftoff to property line 2500ft
 - Climb angle 6.1 degrees
 - Altitude at property line = $\tan(6.1) * 2500 = 267\text{ft AGL}$
 - Distance from Marylin's house to Pipistrel at Atkins property line = $\text{sqrt}(2500^2 + 271^2) = \underline{2514\text{ft distance from house}}$
 - Distance from Atkins House at Property line = $\text{sqrt}(1000^2 + 271^2) = \underline{1035\text{ ft distance from house.}}$
- Husky A1A
 - Vx = 74mph (64 KIAS)
 - Ground Roll 200ft on Grass
 - Distance from liftoff to property line 2500 ft
 - Climb rate 1520fpm horizontal rate = 6600 fpm
 - Altitude at property line = $(1520/6600) * 2500 = 575\text{ft AGL}$
 - Distance from Marylin's house to Pipistrel at Atkins property line = $\text{sqrt}(2500^2 + 575^2) = \underline{2565\text{ft distance from house}}$
 - Distance from Atkins House at Property line = $\text{sqrt}(1000^2 + 575^2) = \underline{1153\text{ ft distance from house.}}$
- Helicopter
 - 500ft at property line



