

Manouver	Speed	Private Tolerance	Commercial Tolerance
Takeoff/Climb	Vy	+/- 10kts	+/- 5kts
Pattern Alt	+/- 10kts	+/- 100ft	+/- 100ft
Normal Approach Touchdown	1.3Vso Vso	+10/-5 kts +400 ft	+/-5 kts +200 ft
Soft Field Takeoff Soft Field Approach	Vx or Vy 1.3Vso	+10/-5 kts +10/-5 kts	+/-5 kts +/-5 kts
Short Field Takeoff Short Field Approach Touch Down	Vx 1.3Vso	+10/-5 kts +10/-5 kts +200 ft	+5/-0 kts +/-5 kts +100 ft
Ground reference 600-1000ft agl	+/- 10kts	+/- 100ft	+/- 100ft
S Turns 600-1000ft agl	+/- 10kts	+/- 100ft	+/- 100ft
About a point 600-1000ft agl	+/- 10kts	+/- 100ft	+/- 100ft
Power off stall At least 1500ft agl	Vx or Vy before final flaps Bank <20 degs	+/-10degs	+/-10degs Bank <20 degs +/-5 degs
Power On Stall At least 1500ft agl 65% power	Vx or Vy before final flaps Bank <20 degs	+/-10degs	+/-5degs Bank <20+/-10 degs
Slow Flight At least 1500ft agl		+/- 100 ft +10kt +/-10degs Bank +/-10degs	+/- 50 ft +10kt +/-10degs Bank +/-5degs
Steep Turns 45degs pvt >50degs comm	<= Va	+/- 100 ft +/- 10kt +/-5degs rollout +/-10degs	+/- 100 ft +/- 10kt +/-5degs rollout +/-10degs
Instrument Turn to hdg	+/- 10 kts	+/- 200ft +/- 20degs +/- 10degs	+/- 200ft +/- 20degs +/- 10degs
Emergency	Best Glide	+/- 10kts	+/- 10kts
Lazy Eights 30degs steepest  Chandelles 30 deg bank >1500 agl  Steep Spiral <60 degs  Eights on pylons			+/- 100 ft +/- 10kts +/-10degs  Finish >Vs +/- 10degs Straight and level recovery  +/- 10kts +/- 10degs  30-40 degree max bank