

# Cirrus Vision SF50 Jet

## Quick Reference Guide

### for X-Plane 12

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#### SECTION 1: TAKEOFF INFORMATION

##### Weights and Distances (Sea Level, ISA, Dry Runway)

- **Maximum Takeoff Weight (MTOW):** 6,000 lbs
  - **Full Fuel Max Takeoff Distance (Ground Roll):** ~1,900 ft
  - **Full Fuel Max Takeoff Distance (Over 50 ft obstacle):** ~3,000 ft
  - **Half Weight Takeoff Distance (Ground Roll):** ~1,300 ft
  - **Half Weight Takeoff Distance (Over 50 ft obstacle):** ~2,100 ft
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##### Takeoff Speeds

Phase	Speed (IAS)	Notes
Rotate	80 KIAS	Smooth rotation
Lift-off	85-90 KIAS	Positive climb required
Climb out (Vy)	110 KIAS	Best rate of climb
Climb out (Vx)	85 KIAS	Best angle of climb (obstacle)

#### SECTION 2: PERFORMANCE TABLES

##### Climb Performance (Cruise Climb)

Altitude	Power Setting	IAS (KIAS)	Rate of Climb (fpm)
SL-5,000	100% N1	160	~1,500
5,000-10,000	96% N1	160	~1,100
10,000-20,000	92% N1	150	~700

## Cruise Settings

Altitude	Power Setting (N1%)	IAS (KIAS)	TAS (KTAS)	Notes
FL180	92%	190	~300	Normal cruise
FL280	90%	170	~300	Optimal fuel economy

### Standard Cruise Altitudes:

- VFR: Up to 17,500 ft
  - IFR: FL200–FL280 (FL280 max certified)
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## DESCENT SETTINGS

Phase	Power	IAS (KIAS)	Notes
Initial Descent	60%	200	Smooth power reduction
Final Descent	30%	160	Set for approach setup

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## CIRCUIT / PATTERN OPERATIONS

Phase	Altitude AGL	Speed (KIAS)	Power	Gear/Flap
Downwind	1,000 ft	110	30%	Gear up / Flaps up
Abeam Numbers	1,000 ft	100	25%	Gear down / Flaps 50%
Base Turn	800 ft	90	20%	Flaps 100%
Final	500 ft	85	Idle	Full flaps
Touchdown	Ground	75-80	Idle	Flare gently

### Flap Speed Limits:

- Flaps 50%: 150 KIAS
- Flaps 100%: 140 KIAS

### Landing Gear Extension Speed:

- Max Extension: 150 KIAS

### Max Demonstrated Crosswind:

- 25 knots

## EMERGENCY PROCEDURE ENGINE OUT

### Best Glide Speed:

- 120 KIAS

### Engine Failure In Flight

Step	Notes
Pitch for Glide	120 KIAS
Best Field / Nearest RWY	Select promptly
Declare Emergency	Use radio and XP ATC if desired
Emergency Checklist	Follow aircraft specific checklist
CAPS Deployment Altitude	Minimum 600 ft AGL (straight and level)

### Single Engine Landing (Only engine scenario)

- Normal procedure
- Final: 85 KIAS
- Touchdown: ~75 KIAS
- Full flaps when landing is assured

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**Note:** All values are approximations **for X-Plane 12 ONLY!**

**Performance may vary** depending on payload, airfield altitude, temperature, and aircraft modifications.

Stay ahead of the aircraft. Fly safe.

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