

Cirrus SR22 Maneuver Profiles: **Takeoff, Landings, and Go-Arounds**

Normal/Crosswind Takeoff

- Rotate at V_r (70-73 KIAS with 50% Flaps)
 - o (Recommended V_r 0% Flaps is 80 KIAS)
- Retract Flaps to 0%
 - o Note: Ensure you have a positive rate of climb, are at a safe altitude above all obstacles, and above 80 KIAS prior to retraction.
- Pitch for V_y (101 KIAS) or a cruise climb speed of 120 KIAS
- Above 1000 Ft AGL complete Climb Checklist

Short Field Takeoff

- Set Flaps to 50%
- Rotate at V_r (70 KIAS)
- Pitch for V_x (78 KIAS) until over obstacle
- Reduce pitch to regain airspeed
- Retract Flaps to 0%
 - o Note: Ensure you have a positive rate of climb, are at a safe altitude above all obstacles, and above 80 KIAS prior to retraction.
- Pitch for V_y (101 KIAS) or a cruise climb speed of 120 KIAS
- Above 1000 Ft AGL complete Climb Checklist

Soft Field Takeoff

- Set Flaps to 50%
- Maintain ground effect until V_x (78 KIAS) or V_y (101 KIAS)
- Climb out at V_x or V_y
- Reduce pitch to regain airspeed if climbing out at V_x
- Retract Flaps to 0%
 - o Note: Ensure you have a positive rate of climb, are at a safe altitude above all obstacles, and above 80 KIAS prior to retraction.
- Pitch for V_y (101 KIAS) or a cruise climb speed of 120 KIAS
- Above 1000 Ft AGL complete Climb Checklist

Traffic Patterns				
Position	MP	KIAS	Flaps	Checklist Completed
Entry	18"	110	0%	Before Landing
Downwind	15"	100		
Abeam	11"	100	50%	
Base		90		
Final		80		
Short Final		80	100%	

Note: Aircraft configuration may be adjusted for abnormal patterns or straight in approach to landing. Aircraft should be configured for landing no lower than 200 Ft AGL.

Normal/Crosswind Landing

- Final Speed
 - o 100% Flaps = 80 KIAS
 - o 50% Flaps = 85 KIAS
 - o 0% Flaps = 90 KIAS
- Crab into the wind until in ground effect and avoid prolonged slips.
- Take out any crab angle with rudder once in ground effect

Short Field Landing

- Final Speed 100% Flaps 77 KIAS

Soft Field Landing

- Follow normal/crosswind landing.
- Hold nose off to reduce pressure on nose gear.

Go-Around/Balked Landing

- At any point in the approach a go-around/balked landing may be executed
- Smoothly apply maximum power, level the wings and transition to a pitch attitude that will slow/stop descent.
- After descent has stopped, reduce flaps 50%
- Pitch for Vy (101 KIAS)
- Retract flaps to 0%
 - o Note: Ensure you have a positive rate of climb, are at a safe altitude above all obstacles, and above 80 KIAS prior to retraction.

Precision Instrument Approach				
Position	MP	KIAS	Flaps	Checklist Completed
IAF / Final Vector (3 Min Prior)	17- 19"	Max 120	0	Descent
Intermediate Section	15"	Slow to 100		
One Dot Below Glideslope		Max 100	50%	
Glideslope Intercept	10- 12"	Max 100		Before Landing
Decision Height	Visual Contact Established: <ul style="list-style-type: none"> - Autopilot: Disconnect - Flaps: As Desired - Slow to Final Speed (80KIAS) 			
	Visual Contact Not Established: <ul style="list-style-type: none"> - Execute Missed Approach Procedure 			

Non-Precision Instrument Approach				
Position	KIAS	MP	Flaps	Checklist Completed
IAF / Final Vector (3 Min Prior)	Max 120	17- 19"	0	Descent
Intermediate Section (IAF-FAF)	Slow to 100	15"		
FAF	Max 100	10- 12"	50%	Before Landing
Decision Height	Visual Contact Established: <ul style="list-style-type: none"> - Autopilot: Disconnect - Flaps: As Desired - Slow to Final Speed (80KIAS) 			
	Visual Contact Not Established: <ul style="list-style-type: none"> - Execute Missed Approach Procedure 			

Circling Approach (Not Recommended at Night)

From Missed Approach Point:

- Visual Contact Established:
 - o Autopilot: Disconnect
 - o Airspeed: As Necessary
 - o Flaps: As Desired
- Visual Contact Not Established:
 - o Execute Missed Approach Procedure

Final Descent to Landing

- Airspeed: As Necessary
- Flaps: As Desired

Missed Approach

- Autopilot: Disconnect
- Power: Full Power
- Pitch for Vy (101 KIAS)
- Retract Flaps to 0%
 - o Note: Ensure you have a positive rate of climb, are at a safe altitude above all obstacles, and above 80 KIAS prior to retraction.

Holding

3 Minute Prior to Holding Fix:

- 120 KIAS (max)
- Power: 17-19" MP (aaprox)