



EMERALD SQUADRON AVIATION

Never Surrender!
Never Quit!

- V_r : 55mph/48kts
- V_x : 70mph/61kts
- V_y : 75mph/68kts
- V_g : 75mph/68kts
- V_{S1} : 55mph/48kts
- V_{S0} : 48mph/42kts
- V_{FE} : 100mph/87kts
- V_{NO} : 120mph/105kts
- V_{NE} : 162mph/141kts
- V_A : 109mph/95kts

Aircraft Docs, ARROW:

- Airworthiness,
- Registration,
- Radio Station License,
- Operating Limitations,
- Weight and Balance

Pilot Docs PMPL:

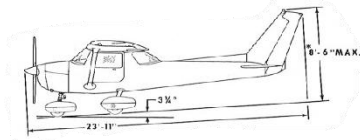
- Pilot Certificate
- Medical
- Photo ID
- Logbook (students).

Spin Recovery PARE:

- Power – idle,
- Ailerons – neutral,
- Rudder – Opposite,
- Elevator – Forward.

Engine Failure ABCs:

- Airspeed
- Best place to land
- Checklist



Taxi Flow:

- Seatbelts – on
- Mix – lean
- Airport Diagram – open

Takeoff flow:

- Lights
- Camera
- Action
- Timer

Landing, Abeam Flow:

- Carb heat
- Power
- Mix
- Flaps
- 90kts, 500fpm

Landing, Final Flow GUMPS:

- Gas
- Undercarriage
- Mix
- Prop
- Seatbelts

Problem Solving:

- Warn the team.
- Gather information.
- Work the problem.

Takeoff: 735ft/1385ft
Landing: 445ft/1075ft

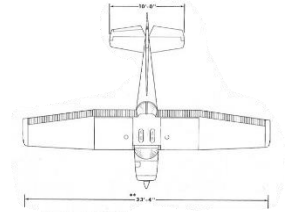
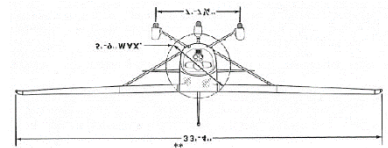
Landing Gear: Tricycle type with steerable nose wheel and two main wheels. Each main gear is equipped with a hydraulically actuated disc-type brake on the inboard side of each wheel.

Electrical system: 14-volt, direct-current system powered by an engine-driven alternator and 12-volt battery.

Propeller: McCauley, fixed-pitch, 69-inch Diameter Propeller

Engine: Continental O-200-A horizontally opposed, air-cooled, normally aspirated, direct drive, Carbureted Engine with a max 100BHP at 2750 RPM.

Aircraft Specifications



Safety Brief:

- Seats & Seatbelts
- Air
- Fire extinguisher
- Exits and emergencies
- Traffic and Talking
- Your Questions

Required Inspections:

- Airworthiness Directives
- VOR – 30 days
- Inspections - Annual/100hr
- Altimeter – 24 months
- Transponder – 24 months
- ELT – 12 months
- Static system – 24 months

IMSAFE Checklist:

- Illness
- Medication
- Stress
- Alcohol
- Fatigue
- Emotion/eating

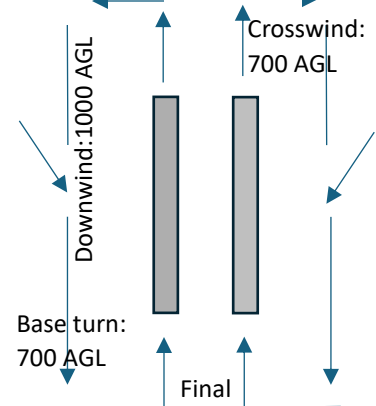
PAVE Checklist:

- Pilot
- Aircraft
- Environment
- External Pressures

91.103 Checklist NWKRAFT:

- NOTAMS
- Weather
- Known ATC Delays
- Runways
- Alternates
- Fuel
- Takeoff and landing

Pattern:



Empty CG: 35.58 inches aft of the firewall.

Useful Load: 553lbs

Empty Weight: 1047lbs

Oil Capacity: 6qts

122mph/106kts

500 miles and 4.1 hours and at 7000ft the aircraft's range is

Fuel Capacity: 26 gal

670fpm

Rate of Climb at Sea Level:

Service Ceiling: 14,000ft

125mph/108kts

Top Speed at Sea Level:

ICAO Surveillance: B1 E

ICAO equipment: S