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## Premier IA Weight Statement (1 pilot)

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### Design Weights

Max. Ramp Weight .....	12,590 lb.	(5,711 kg.)
Max. Takeoff Weight .....	12,500 lb.	(5,670 kg.)
Max. Landing Weight.....	11,600 lb.	(5,262 kg.)
Max. Zero Fuel Weight .....	10,000 lb.	(4,536 kg.)
Fuel Capacity .....	3,670 lb.	(1,665 kg.)

### Weight Breakdown

Basic Empty Weight *.....	8,200 lb.	(3,719 kg.)
1 pilot .....	200 lb.	(91 kg.)
Basic Operating Weight.....	8,400 lb.	(3,810 kg.)

### Popular Options:

TCAS II.....	24 lb.	(11 kg.)
Enclosed Window Shades.....	6 lb.	(3 kg.)
Leather Table Surface .....	Negl.	(Negl.)
Collins VHF-422C( 8.33 KHz spacing) .....	Negl.	(Negl.)

<b>Equipped Basic Operating Weight .....</b>	<b>8,430 lb.</b>	<b>(3,824 kg.)</b>
Max. Payload .....	1,570 lb.	(712 kg.)
Useful Load .....	4,160 lb.	(1,887 kg.)

\* Basic empty weight includes standard interior, avionics, 3-tube EFIS display, EGPWS, ELT, unusable fuel and oil.

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## Specifications and Performance

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### Characteristics

Seating (Crew + Pax) .....	1 + 6 / 7
Wing Loading .....	50.6 lb./Sq. ft.
Power Loading .....	2.72 lb./lb. thrust
Noise: Takeoff .....	78.3 dBA

### External Dimensions

Length .....	46 ft. 0 in.	(14.02 m)
Height .....	15 ft. 4 in.	(4.67 m)
Span .....	44 ft. 6 in.	(13.56 m)

### Engines

Manufacturer .....	2 Williams Int.
Model .....	FJ44-2A
Output .....	2,300/ISA+13°C
Inspection Interval .....	3,500 hrs.

### Weights

Max Ramp .....	12,590 lb.	(5,711 kg.)
Max Takeoff .....	12,500 lb.	(5,670 kg.)
Max Landing .....	11,600 lb.	(5,262 kg.)
Max Zero Fuel .....	10,000 lb.	(4,536 kg.)
Equipped Basic Operating .....	8,430 lb.	(3,824 kg.)

### Payload / Capacities

Max Payload .....	1,570 lb.	(712 kg.)
Useful Load .....	4,160 lb.	(1,887 kg.)
Max Fuel Capacity .....	3,670 lb.	(1,665 kg.)
(1 US gal = 6.7 lb./US gal.) .....	548 US gal.	
Payload w/max fuel .....	490 lb.	(222 kg.)
Fuel w/max payload .....	2,590 lb.	(1,175 kg.)

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## Specifications and Performance (continued)

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### Cabin Dimensions

Length .....	13 ft. 6 in.	(4.11 m)
Height .....	5 ft. 5 in.	(1.65 m)
Width.....	5 ft. 6 in.	(1.68 m)

### Cabin Volume

Cockpit .....	85 cu. ft.	(2.41 cu. m)
Passenger Cabin .....	315 cu. ft.	(8.92 cu. m)
(including lav. & bag)		
Total Volume .....	400 cu. ft.	(11.33 cu. m)

### Baggage Capacity

External Nose .....	10.0 cu. ft./150 lb.	(0.28 cu. m/68 kg.)
Internal Forward .....	3.0 cu. ft./60 lb.	(0.09 cu. m/27 kg.)
Internal Lav/Baggage Area.....	19.9 cu. ft./140 lb.	(0.56 cu. m/64 kg.)
External Tailcone .....	44.0 cu. ft./400 lb.	(1.25 cu. m/181 kg.)
Total Capacity.....	76.9 cu. ft./750 lb.	(2.18 cu. m/340 kg.)

### Pressurization

Differential.....	8.4 PSI
Sea Level Cabin To (ft.) .....	21,400 ft.

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## Specifications and Performance (continued)

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### Airport Performance

#### Takeoff Field Length

Max. TO Wt., SL, ISA.....	3,792 ft.	(1,156 m)
Max. TO Wt., 5,000 ft. elev., 25°C .....	6,888 ft.	(2,099 m)

#### Landing Distance

Max Landing Wt., SL, ISA .....	3,170 ft.	(966 m)
Vref .....	121 kt	

### Climb Performance (Max Takeoff Weight)

Time to Climb / Altitude .....	17 min / FL 370	
FAR 25 Engine-out Rate .....	586 fpm	(179 m/min)
FAR 25 Engine-out Gradient .....	298 ft/nm	(49 m/km)

### Ceilings

Certified.....	41,000 ft.	(12,497 m)
All Engine Service.....	41,000 ft.	(12,497 m)
Engine-out Service.....	28,000 ft.	(8,534 m)

### Limits

MMO .....	0.80 Mach
Trans. Atl. FL / VMO .....	FL 276/320

### Cruise Performance

#### High Speed Cruise

Speed .....	451 kt/519 mph	(835 km/hr)
Fuel Flow.....	1,203 lb./hr.	(546 kg./hr)
Altitude .....	FL 330	

#### Long Range Cruise

Speed.....	369 kt/425 mph	(683 km/hr)
Fuel Flow.....	662 lb./hr.	(300 kg./hr)
Altitude .....	FL 410	

## Specifications and Performance (continued)

### Maximum Range Performance (NBAA IFR reserves (w/100 nm alternate) – High Speed Cruise

#### Maximum Payload with Available Fuel (1,570 lb. payload)

Range .....	787 nm	(1,458 km)
Average Speed .....	390 kt.	(722 km/hr)
Trip Fuel .....	1,824 lb.	(827 kg.)

#### Maximum Fuel with Available Payload (490 lb. payload)

Range .....	1,360 nm	(2,519 km)
Average Speed .....	408 kt.	(756 km/hr)
Trip Fuel .....	2,934 lb.	(1,331 kg.)

#### 4 passengers (800 lb. payload)

Range .....	1,195 nm	(2,213 km)
Average Speed .....	403 kt.	(746 km/hr)
Trip Fuel .....	2,616 lb.	(1,187 kg.)

#### Ferry (Zero payload)

Range .....	1,376 nm	(2,548 km)
Average Speed .....	411 kt.	(761 km/hr)
Trip Fuel .....	2,946 lb.	(1,336 kg.)

### Mission Performance (4 passengers)

#### 300 nm mission

Flight Time .....	0 hr. 48 min	
Trip Fuel .....	888 lb.	(403 kg.)
Flight Level .....	FL 370	

#### 600 nm mission

Flight Time .....	1 hr. 32 min	
Trip Fuel .....	1,410 lb.	(640 kg.)
Flight Level .....	FL 410	

#### 1,000 nm mission

Flight Time .....	2 hr. 28 min	
Trip Fuel .....	2,199 lb.	(997 kg.)
Flight Level .....	FL 410	