

# Cessna Skyhawk Specifications

# Flight Plan DB

<b>Type Code</b>	C172	<b>AcftId</b>	74	<b>Registration</b>	VH-ZAR
<b>Manu.</b>	Cessna	<b>Configuration</b>		<b>Configuration</b>	Standard
<b>Model</b>	Skyhawk	<b>Colour/Markings</b>		<b>Colour/Markings</b>	White with Stripes
<b>Variant</b>		<b>Operating/Hire</b>		<b>Operating/Hire</b>	\$150.00

Aviation      Metric

<b>Seats</b>	4
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<b>Range</b>	<b>Maximum</b>	638 nm	1,182 km
	<b>Low</b>		

<b>Runway</b>	<b>Take Off Required</b>	960 ft	293 m
	<b>Landing Required</b>		

<b>Ceiling</b>	<b>All Engines</b>	14,000 ft	4,267 m
	<b>One Engine</b>		

<b>Fuel</b>	<b>Type</b>	AVGAS
	<b>Specific Gravity</b>	0.72
<b>Fuel Units</b>	USG	L
<b>Capacity</b>	53	201

<b>Weight</b>			
	<b>Weight Units</b>	LBS	KG
	<b>Maximum Taxi</b>	2,550	1,157
	<b>Maximum Take Off (MTOW)</b>	2,550	1,157
	<b>Maximum Landing (MLW)</b>		
	<b>Maximum Zero Fuel (MZFW)</b>		
	<b>Basic Empty (BEW)</b>	1,650	748
	<b>Flight Sim Empty (FSEEmpty)</b>	1,650	748
	<b>Fuel Weight</b>	319	144
	<b>Flight Sim Total (FSTot)</b>	1,969	893

**Wake Category**

H > 136,000 kg

M Between 7,000 and 136,000 kg

L < 7,000 kg

<b>Performance</b>							
<b>IAS</b>	<b>Cruise</b>		<b>Climb</b>		<b>Touch Down</b>		
	100 kts	<b>MACH</b>	<b>Cruise Climb</b>	85 kts	<b>IAS</b>	70 kts	
<b>Altitude</b>	7,000 ft		<b>Climb Rate</b>	500 ft/min	<b>Descent</b>		
			<b>Climb</b>	10 usg/h	<b>Rate</b>	700 ft/min	
<b>Fuel Flow</b>	<b>Cruise</b>				<b>Descent</b>		
	8 usg/h				3 usg/h		
<b>Performance Category</b>			A - < 90kts IAS			<b>Taxi</b>	5 usg/h

**TakeOff**

Vr	Take Off Rotation Speed	55 kts	
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**Best**

Vg	Best Glide, engine off	68 kts	
Vx	Best Angle-of-Climb, all engines	67 kts	Sea Level
Vy	Best Rate-of-Climb, all engines	74 kts	Sea Level
Vx	Best Angle-of-Climb, all engines	62 kts	10,000 ft amsl
Vy	Best Rate-of-Climb, all engines	72 kts	10,000 ft amsl

**Upper**

Vne	Never Exceed Speed	163 kts	
Vno	Normal Operating Limit Speed	129 kts	
Va	Maximum Control Deflection (also Vman)	105 kts	2550 lbs
Va	Maximum Control Deflection (also Vman)	98 kts	2200 lbs
Va	Maximum Control Deflection (also Vman)	90 kts	1900 lbs
Vfe	Maximum Flaps Extended Speed	110 kts	10° Flap
Vfe	Maximum Flaps Extended Speed	85 kts	10 - 30° Flap

**Landing**

Vref	Landing Approach Speed	70 kts	Flaps Up
Vref	Landing Approach Speed	65 kts	Full Flaps

**Lower**

Vs	Stalling Speed, (flaps up)	48 kts	Max Weight
Vso	Stalling Speed, landing configuration (flaps down)	40 kts	Max Weight, 30° Flap

# Beech Baron 58 Specifications

# Flight Plan DB

<b>Type Code</b>	BE58	<b>AcftId</b>	75	<b>Registration</b>	VH-ZAR
<b>Manu.</b>	Beech			<b>Configuration</b>	Standard
<b>Model</b>	Baron 58			<b>Colour/Markings</b>	White With Gold Strip
<b>Variant</b>				<b>Operating/Hire</b>	\$200.00

Aviation      Metric

<b>Seats</b>	6
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<b>Range</b>	<b>Maximum</b>	1,466 nm	2,715 km
	<b>Low</b>	1,004 nm	1,859 km

<b>Runway</b>	<b>Take Off Required</b>	2,300 ft	701 m
	<b>Landing Required</b>	2,450 ft	747 m

<b>Ceiling</b>	<b>All Engines</b>	20,688 ft	6,306 m
	<b>One Engine</b>	7,284 ft	2,220 m

<b>Fuel</b>		
<b>Type</b>	AVGAS	
<b>Specific Gravity</b>	0.72	
<b>Fuel Units</b>	USG	L
<b>Capacity</b>	166	629

<b>Weight</b>			
	<b>Weight Units</b>	LBS	KG
	<b>Maximum Taxi</b>	5,524	2,506
	<b>Maximum Take Off (MTOW)</b>	5,500	2,495
	<b>Maximum Landing (MLW)</b>	5,400	2,449
	<b>Maximum Zero Fuel (MZFW)</b>		
	<b>Basic Empty (BEW)</b>	3,890	1,764
	<b>Flight Sim Empty (FSEmpty)</b>	3,911	1,774
	<b>Fuel Weight</b>	998	453
	<b>Flight Sim Total (FSTot)</b>	4,909	2,227

**Wake Category**

H > 136,000 kg

M Between 7,000 and 136,000 kg

L < 7,000 kg

<b>Performance</b>			
<b>IAS</b>	<b>Cruise</b>		<b>Touch Down</b>
	180 kts	<b>MACH</b>	
<b>Altitude</b>	8,000 ft		IAS
			95 kts
<b>Fuel Flow</b>	<b>Cruise</b>		<b>Descent</b>
	30 usg/h		<b>Rate</b>
			1,000 ft/min
			<b>Descent</b>
		34 usg/h	20 usg/h
<b>Performance Category</b>		B - 91kts to 120 kts IAS	<b>Taxi</b>
			6 usg/h

**TakeOff**

Vr	Take Off Rotation Speed	84 kts	(Vmc)
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**Best**

Vb	Turbulence Penetration Speed (also Vturb)	156 kts	
Vx	Best Angle-of-Climb, all engines	92 kts	
Vse	Best Angle-of-Climb, single engine	100 kts	
Vy	Best Rate-of-Climb, all engines	105 kts	1,735 ft/min
Vyse	Best Rate-of-Climb, single engine	101 kts	390 ft/min
Vg	Best Glide, engine off	115 kts	

**Guide**

Gcm	Max. Cruise Power	200 kts	2,500 rpm 25 In Hg (Full) 6k - 10K
Gcn	Normal Cruise Power	190 kts	2,300 rpm 23 In Hg (Full) 6k - 10 K
Gcr	Max. Range Power	164 kts	2,100 rpm 21 In Hg (Full) 6k - 10k

**Upper**

Vne	Never Exceed Speed	223 kts	
Vno	Normal Operating Limit Speed	195 kts	
Va	Maximum Control Deflection (also Vman)	156 kts	
Vle	Maximum Landing Gear Extended Speed	152 kts	
Vlo	Maximum Landing Gear Operation Speed	152 kts	
Vfe	Maximum Flaps Extended Speed	152 kts	Approach - Flaps 15°
Vfe	Maximum Flaps Extended Speed	122 kts	Full Down - Flaps 30°

**Landing**

Vref	Landing Approach Speed	95 kts	Full Down - Flaps 30°
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**Lower**

Vi?	Minimum Icing Conditions Speed	130 kts	
Vmc	Minimum Control Speed (with one engine operating)	84 kts	
Vs	Stalling Speed, (flaps up)	84 kts	
Vso	Stalling Speed, landing configuration (flaps down)	73 kts	

# Boeing 737-400 Specifications

FlightPlanDB

Type Code	B734	AcftId	77	Registration	VH-ZAR
Manu.	Boeing			Configuration	Standard
Model	737-400			Colour/Markings	
Variant				Operating/Hire	\$5,000.00

		Aviation	Metric
<b>Seats</b>		168	
<b>Range</b>	<b>Maximum Low</b>	2,059 nm	3,813 km
<b>Runway</b>	<b>Take Off Required</b>	7,730 ft	2,356 m
	<b>Landing Required</b>	4,880 ft	1,487 m
<b>Ceiling</b>	<b>All Engines One Engine</b>	37,000 ft	11,278 m

<b>Fuel</b>		
<b>Type</b>	AVTUR	
<b>Specific Gravity</b>	0.8	
<b>Fuel Units</b>	KG	L
<b>Capacity</b>	16,087	20,109

<b>Weight</b>			
	<b>Weight Units</b>	KG	KG
	<b>Maximum Taxi</b>		
<b>Maximum Take Off (MTOW)</b>		62,823	62,823
<b>Maximum Landing (MLW)</b>		54,885	54,885
<b>Maximum Zero Fuel (MZFW)</b>			
<b>Basic Empty (BEW)</b>		34,555	34,555
<b>Flight Sim Empty (FSEmpty)</b>		45,718	45,718
<b>Fuel Weight</b>		16,087	16,087
<b>Flight Sim Total (FSTot)</b>		61,805	61,805

**Wake Category**

H > 136,000 kg

M Between 7,000 and 136,000 kg

L < 7,000 kg

<b>Performance</b>			
<b>IAS</b>	<b>Cruise</b>		<b>Touch Down</b>
	280 kts	<b>MACH</b> 0.74	
<b>Altitude</b>	31,000 ft		<b>Descent</b>
	<b>Cruise Climb</b>	280 kts	
<b>Fuel Flow</b>	<b>Cruise</b> 2800 kg/h		<b>Descent</b> 1000 kg/h
	<b>Climb Rate</b>	2,000 ft/min	<b>Taxi</b> 4000 kg/h
	<b>Climb</b>	9000 kg/h	
<b>Performance Category</b> D - 141kts to 165kts IAS			

V<sub>pclean</sub> 210 - 230 kts  
 Maximum flap without gear down 15°  
 Max normal cruise -10kts/-0.02 below V<sub>m0</sub>/M<sub>m0</sub>

**TakeOff**

V1	Take Off Decision Speed	150 kts	Sea Level, (143,000 lbs), Flaps 5
Vr	Take Off Rotation Speed	154 kts	Sea Level, (143,000 lbs), Flaps 5
V2	Take Off Safety Speed	162 kts	Sea Level, (143,000 lbs), Flaps 5
V1	Take Off Decision Speed	143 kts	Sea Level, (132,000 lbs), Flaps 5
Vr	Take Off Rotation Speed	147 kts	Sea Level, (132,000 lbs), Flaps 5
V2	Take Off Safety Speed	155 kts	Sea Level, (132,000 lbs), Flaps 5
V1	Take Off Decision Speed	152 kts	5,000 ft (143,000 lbs), Flaps 5
Vr	Take Off Rotation Speed	157 kts	5,000 ft (143,000 lbs), Flaps 5
V2	Take Off Safety Speed	161 kts	5,000 ft (143,000 lbs), Flaps 5
V1	Take Off Decision Speed	145 kts	5,000 ft (132,000 lbs), Flaps 5
Vr	Take Off Rotation Speed	149 kts	5,000 ft (132,000 lbs), Flaps 5
V2	Take Off Safety Speed	155 kts	5,000 ft (132,000 lbs), Flaps 5

**Best**

Vb	Turbulence Penetration Speed (also Vturb)	280 kts	0.73 MACH
Vx	Best Angle-of-Climb, all engines		V2 + 80
Vy	Best Rate-of-Climb, all engines		V2 + 120
Vg	Best Glide, engine off	210 kts	@44,000kgs plus 5kts per 2000kgs

**Upper**

Vmo	Maximum Operating Speed, Knots	340 kts	
Mmo	Maximum Operating Speed, MACH	0.82 MACH	
Vle	Maximum Landing Gear Extended Speed	270 kts	0.82 MACH
Vlo	Maximum Landing Gear Operation Speed	235 kts	
Vfe	Maximum Flaps Extended Speed	230 kts	Flaps 1
Vfe	Maximum Flaps Extended Speed	225 kts	Flaps 5
Vfe	Maximum Flaps Extended Speed	210 kts	Flaps 10
Vfe	Maximum Flaps Extended Speed	195 kts	Flaps 15
Vfe	Maximum Flaps Extended Speed	190 kts	Flaps 25
Vfe	Maximum Flaps Extended Speed	185 kts	Flaps 30
Vfe	Maximum Flaps Extended Speed	158 kts	Flaps 40

**Landing**

Vref	Landing Approach Speed	147 kts	Flaps 30, Gear Down, (136,400 lbs)
Vref	Landing Approach Speed	144 kts	Flaps 30, Gear Down, (132,000 lbs)
Vref	Landing Approach Speed	133 kts	Flaps 30, Gear Down, (103,000 lbs)

# Cessna Skylane RG Specifications

# Flight Plan DB

<b>Type Code</b>	C82R	<b>AcftId</b>	78	<b>Registration</b>	VH-ZAR
<b>Manu.</b>	Cessna	<b>Configuration</b>		<b>Configuration</b>	Standard
<b>Model</b>	Skylane RG	<b>Colour/Markings</b>		<b>Operating/Hire</b>	\$100.00
<b>Variant</b>					

Aviation      Metric

<b>Seats</b>	4
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<b>Range</b>	<b>Maximum</b>	1,135 nm	2,102 km
	<b>Low</b>		

<b>Runway</b>	<b>Take Off Required</b>	1,570 ft	479 m
	<b>Landing Required</b>	1,320 ft	402 m

<b>Ceiling</b>	<b>All Engines</b>	14,300 ft	4,359 m
	<b>One Engine</b>		

<b>Fuel</b>	<b>Type</b>	AVGAS
	<b>Specific Gravity</b>	0.72
<b>Fuel Units</b>	USG	L
<b>Capacity</b>	92	348

<b>Weight</b>			
	<b>Weight Units</b>	LBS	KG
	<b>Maximum Taxi</b>	3,110	1,411
	<b>Maximum Take Off (MTOW)</b>	3,110	1,411
	<b>Maximum Landing (MLW)</b>		
	<b>Maximum Zero Fuel (MZFW)</b>		
	<b>Basic Empty (BEW)</b>	1,810	821
	<b>Flight Sim Empty (FSEmpty)</b>	1,810	821
	<b>Fuel Weight</b>	553	251
	<b>Flight Sim Total (FSTot)</b>	2,363	1,072

**Wake Category**

H > 136,000 kg

M Between 7,000 and 136,000 kg

L < 7,000 kg

<b>Performance</b>			
<b>IAS</b>	<b>Cruise</b>	120 kts	<b>MACH</b>
	<b>Altitude</b>	12,000 ft	
<b>Fuel Flow</b>	<b>Cruise</b>	10 usg/h	
	<b>Climb</b>	14 usg/h	
	<b>Touch Down</b>		
	<b>IAS</b>	70 kts	
	<b>Descent</b>		
	<b>Rate</b>	600 ft/min	
	<b>Descent</b>	5 usg/h	
	<b>Taxi</b>	5 usg/h	
<b>Performance Category</b>	A - < 90kts IAS		

**TakeOff**

Vr	Take Off Rotation Speed	50 kts	
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**Best**

Vx	Best Angle-of-Climb, all engines	65 kts	Sea Level
Vy	Best Rate-of-Climb, all engines	88 kts	Sea Level
Vx	Best Angle-of-Climb, all engines	67 kts	10,000 ft
Vy	Best Rate-of-Climb, all engines	75 kts	10,000 ft
Vg	Best Glide, engine off	80 kts	3,100 lbs
Vg	Best Glide, engine off	72 kts	2,550 lbs
Vg	Best Glide, engine off	64 kts	2,000 lbs

**Upper**

Vne	Never Exceed Speed	181 kts	
Vno	Normal Operating Limit Speed	159 kts	
Vle	Maximum Landing Gear Extended Speed	140 kts	
Vlo	Maximum Landing Gear Operation Speed	140 kts	
Va	Maximum Control Deflection (also Vman)	112 kts	3,100 lbs
Va	Maximum Control Deflection (also Vman)	101 kts	2,550 lbs
Va	Maximum Control Deflection (also Vman)	89 kts	2,000 lbs
Vfe	Maximum Flaps Extended Speed	140 kts	0 - 10° flaps
Vfe	Maximum Flaps Extended Speed	120 kts	10 - 20° flaps
Vfe	Maximum Flaps Extended Speed	95 kts	20° - Full flaps

**Landing**

Vref	Landing Approach Speed	75 kts	Flaps up
Vref	Landing Approach Speed	70 kts	Full Flaps

**Lower**

Vs	Stalling Speed, (flaps up)	41 kts	
Vso	Stalling Speed, landing configuration (flaps down)	39 kts	



# Learjet 45 Specifications

# Flight Plan DB

Type Code	LJ45	AcftId	79	Registration	VH-ZAR
Manu.	Learjet			Configuration	Standard
Model	45			Colour/Markings	
Variant				Operating/Hire	\$3,000.00

Aviation      Metric

<b>Seats</b>		9	
<b>Range</b>	<b>Maximum</b>	2,200 nm	4,074 km
	<b>Low</b>		
<b>Runway</b>	<b>Take Off Required</b>	4,700 ft	1,433 m
	<b>Landing Required</b>	3,200 ft	975 m
<b>Ceiling</b>	<b>All Engines</b>	51,000 ft	15,545 m
	<b>One Engine</b>		

<b>Fuel</b>		
	<b>Type</b>	AVTUR
	<b>Specific Gravity</b>	0.8
<b>Fuel Units</b>	LBS	L
<b>Capacity</b>	6,010	3,408

<b>Weight</b>			
	<b>Weight Units</b>	LBS	KG
	<b>Maximum Taxi</b>		
<b>Maximum Take Off (MTOW)</b>		20,200	9,163
<b>Maximum Landing (MLW)</b>			
<b>Maximum Zero Fuel (MZFW)</b>			
<b>Basic Empty (BEW)</b>			
<b>Flight Sim Empty (FSEmpty)</b>		11,700	5,307
<b>Fuel Weight</b>		6,010	2,726
<b>Flight Sim Total (FSTot)</b>		17,710	8,033

**Wake Category**

H > 136,000 kg

M Between 7,000 and 136,000 kg

L < 7,000 kg

<b>Performance</b>			
<b>IAS</b>	<b>Cruise</b>	280 kts	<b>MACH</b>
	<b>Altitude</b>	35,000 ft	
<b>Fuel Flow</b>	<b>Cruise</b>	1400 lbs/h	
	<b>Climb</b>		
	<b>Cruise Climb</b>	260 kts	
	<b>Climb Rate</b>	2,600 ft/min	
	<b>Climb</b>	2250 lbs/h	
	<b>Touch Down</b>		
	<b>IAS</b>	140 kts	
	<b>Descent</b>		
	<b>Rate</b>	2,000 ft/min	
	<b>Descent</b>	540 lbs/h	
<b>Performance Category</b>	B - 91kts to 120 kts IAS		<b>Taxi</b> 1400 lbs/h

**TakeOff**

V1	Take Off Decision Speed	107 kts	
Vr	Take Off Rotation Speed	108 kts	Sea Level (13,000 lbs)
V2	Take Off Safety Speed	120 kts	Sea Level (13,000 lbs)
Vr	Take Off Rotation Speed	119 kts	5,000 ft (20,200 lbs)
V2	Take Off Safety Speed	130 kts	5,000 ft (20,200 lbs)
Vr	Take Off Rotation Speed	108 kts	5,000 ft (13,000 lbs)
V2	Take Off Safety Speed	120 kts	5,000 ft (13,000 lbs)
Vr	Take Off Rotation Speed	118 kts	Sea Level (20,200 lbs)
V2	Take Off Safety Speed	129 kts	Sea Level (20,200 lbs)

**Best**

Vg	Best Glide, engine off	160 kts	
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**Upper**

Vle	Maximum Landing Gear Extended Speed	260 kts	
Vlo	Maximum Landing Gear Operation Speed	200 kts	
Vmo	Maximum Operating Speed, Knots	330 kts	Primary Display
Vmo	Maximum Operating Speed, Knots	325 kts	Standby Airspeed Indicator
Mmo	Maximum Operating Speed, MACH	0.78 MACH	Autopilot Disengaged
Mmo	Maximum Operating Speed, MACH	0.81 MACH	Autopilot Engaged
Va	Maximum Control Deflection (also Vman)	198 kts	Sea Level (20,200 lbs)
Va	Maximum Control Deflection (also Vman)	150 kts	Sea Level (12,500 lbs)
Va	Maximum Control Deflection (also Vman)	225 kts	20,000 ft (20,200 lbs)
Va	Maximum Control Deflection (also Vman)	163 kts	20,000 ft (12,500 lbs)
Va	Maximum Control Deflection (also Vman)	245 kts	40,000 ft (20,200 lbs)
Va	Maximum Control Deflection (also Vman)	195 kts	40,000 ft (12,500 lbs)
Vfe	Maximum Flaps Extended Speed	250 kts	Flaps 8
Vfe	Maximum Flaps Extended Speed	200 kts	Flaps 20
Vfe	Maximum Flaps Extended Speed	150 kts	Flaps 40

**Landing**

Vref	Landing Approach Speed	123 kts	Flaps 40, Gear Dn, 5000ft, 19000lbs
Vref	Landing Approach Speed	103 kts	Flaps 40, Gear Dn, 5000ft, 13000lbs
Vref	Landing Approach Speed	123 kts	Flaps 40, Gear Dn, <4000ft, 19200lbs
Vref	Landing Approach Speed	102 kts	Flaps 40, Gear Dn, <4000ft, 13000lbs

# Boeing 747-400 (international, winglets) Specifications

# Flight Plan DB

<b>Type Code</b>	B744	<b>AcftId</b>	80	<b>Registration</b>	VH-ZAR
<b>Manu.</b>	Boeing			<b>Configuration</b>	Standard
<b>Model</b>	747-400			<b>Colour/Markings</b>	Qantas Insignia
<b>Variant</b>	(international, winglets)			<b>Operating/Hire</b>	\$40,000.00

Aviation      Metric

<b>Seats</b>	524
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<b>Range</b>	<b>Maximum</b>	7,325 nm	13,566 km
	<b>Low</b>		

<b>Runway</b>	<b>Take Off Required</b>
	<b>Landing Required</b>

<b>Ceiling</b>	<b>All Engines</b>	45,100 ft	13,746 m
	<b>One Engine</b>		

<b>Fuel</b>		
<b>Type</b>	AVTUR	
<b>Specific Gravity</b>	0.8	
<b>Fuel Units</b>	LBS	L
<b>Capacity</b>	382,536	216,894

<b>Weight</b>			
	<b>Weight Units</b>	LBS	KG
	<b>Maximum Taxi</b>	853,000	386,914
	<b>Maximum Take Off (MTOW)</b>	853,000	386,914
	<b>Maximum Landing (MLW)</b>	630,000	285,763
	<b>Maximum Zero Fuel (MZFW)</b>		
	<b>Basic Empty (BEW)</b>		
	<b>Flight Sim Empty (FSEmpty)</b>	401,100	181,936
	<b>Fuel Weight</b>	382,536	173,515
	<b>Flight Sim Total (FSTot)</b>	783,636	355,451

**Wake Category**

- H > 136,000 kg
- M Between 7,000 and 136,000 kg
- L < 7,000 kg

<b>Performance</b>			
	<b>Cruise</b>	<b>Climb</b>	<b>Touch Down</b>
<b>IAS</b>	290 kts	<b>Cruise Climb</b>	IAS 160 kts
<b>Altitude</b>	MACH 0.85 35,000 ft	270 kts	
		<b>Climb Rate</b>	<b>Descent</b>
<b>Fuel Flow</b>	<b>Cruise</b>	2,000 ft/min	<b>Rate</b>
	28000 lbs/h	<b>Climb</b>	1,600 ft/min
		36000 lbs/h	<b>Descent</b>
			12200 lbs/h
<b>Performance Category</b>	E - 166kts to 210kts IAS		<b>Taxi</b>
			7200 lbs/h

Flaps < 1/2 fuel	> 1/2 fuel			
UP 210	220	15	150	160
1 190	220	25	140	150
5 170	180			
10 160	170	1/2 Fuel = 191,268 lbs		

**TakeOff**

V1	Take Off Decision Speed	160 kts	Sea Level; 880,000 lbs; flaps 10
Vr	Take Off Rotation Speed	177 kts	Sea Level; 880,000 lbs; flaps 10
V2	Take Off Safety Speed	188 kts	Sea Level; 880,000 lbs; flaps 10
V1	Take Off Decision Speed	155 kts	Sea Level; 880,000 lbs; flaps 20
Vr	Take Off Rotation Speed	171 kts	Sea Level; 880,000 lbs; flaps 20
V2	Take Off Safety Speed	181 kts	Sea Level; 880,000 lbs; flaps 20
V1	Take Off Decision Speed	163 kts	5,000 ft ; 880,000 lbs; flaps 10
Vr	Take Off Rotation Speed	179 kts	5,000 ft ; 880,000 lbs; flaps 10
V2	Take Off Safety Speed	188 kts	5,000 ft ; 880,000 lbs; flaps 10
V1	Take Off Decision Speed	158 kts	5,000 ft ; 880,000 lbs; flaps 20
Vr	Take Off Rotation Speed	173 kts	5,000 ft ; 880,000 lbs; flaps 20
V2	Take Off Safety Speed	181 kts	5,000 ft ; 880,000 lbs; flaps 20

**Upper**

Vmo	Maximum Operating Speed, Knots	335 kts	
Mmo	Maximum Operating Speed, MACH	0.88 MACH	
Vle	Maximum Landing Gear Extended Speed	320 kts	0.82 Mach
Vlo	Maximum Landing Gear Operation Speed	270 kts	0.82 Mach
Vfe	Maximum Flaps Extended Speed	280 kts	Flaps 1
Vfe	Maximum Flaps Extended Speed	260 kts	Flaps 5
Vfe	Maximum Flaps Extended Speed	240 kts	Flaps 10
Vfe	Maximum Flaps Extended Speed	230 kts	Flaps 20
Vfe	Maximum Flaps Extended Speed	205 kts	Flaps 25
Vfe	Maximum Flaps Extended Speed	180 kts	Flaps 30

**Landing**

Vref	Landing Approach Speed	188 kts	850,000 lbs; Flaps 25; Gear Down
Vref	Landing Approach Speed	181 kts	850,000 lbs; Flaps 30; Gear Down
Vref	Landing Approach Speed	134 kts	450,000 lbs; Flaps 25; Gear Down
Vref	Landing Approach Speed	129 kts	450,000 lbs; Flaps 30; Gear Down

# Beech Super King Air 350 Specifications

# Flight Plan DB

<b>Type Code</b>	B350	<b>AcftId</b>	81	<b>Registration</b>	VH-ZAR
<b>Manu.</b>	Beech	<b>Configuration</b>		<b>Configuration</b>	Standard
<b>Model</b>	Super King Air 350	<b>Colour/Markings</b>		<b>Operating/Hire</b>	\$400.00
<b>Variant</b>					

Aviation      Metric

<b>Seats</b>	11
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<b>Range</b>	<b>Maximum</b>	1,894 nm	3,508 km
	<b>Low</b>		

<b>Runway</b>	<b>Take Off Required</b>	4,193 ft	1,278 m
	<b>Landing Required</b>	3,300 ft	1,006 m

<b>Ceiling</b>	<b>All Engines</b>	35,000 ft	10,668 m
	<b>One Engine</b>		

<b>Fuel</b>	<b>Type</b>	AVTUR
	<b>Specific Gravity</b>	0.8
<b>Fuel Units</b>	LBS	L
<b>Capacity</b>	3,599	2,041

<b>Weight</b>			
	<b>Weight Units</b>	LBS	KG
	<b>Maximum Taxi</b>		
<b>Maximum Take Off (MTOW)</b>	15,000	6,804	
<b>Maximum Landing (MLW)</b>			
<b>Maximum Zero Fuel (MZFW)</b>			
<b>Basic Empty (BEW)</b>			
<b>Flight Sim Empty (FSEmpty)</b>	11,393	5,168	
<b>Fuel Weight</b>	3,599	1,632	
<b>Flight Sim Total (FSTot)</b>	14,992	6,800	

**Wake Category**

H > 136,000 kg

M Between 7,000 and 136,000 kg

L < 7,000 kg

<b>Performance</b>			
<b>IAS</b>	<b>Cruise</b>	185 kts	<b>MACH</b>
	<b>Altitude</b>	30,000 ft	
<b>Fuel Flow</b>	<b>Cruise</b>	575 lbs/h	
	<b>Climb</b>	1500 lbs/h	
	<b>Climb Rate</b>	1,500 ft/min	
	<b>Climb</b>	1500 lbs/h	
	<b>Touch Down</b>	105 kts	
	<b>Descent</b>	1,000 ft/min	
	<b>Rate</b>	300 lbs/h	
	<b>Descent</b>	300 lbs/h	
<b>Performance Category</b>	B - 91kts to 120 kts IAS		<b>Taxi</b> 575 lbs/h

**TakeOff**

V1	Take Off Decision Speed	108 kts	Flaps up; 5,000 ft; 15,000 lbs
Vr	Take Off Rotation Speed	111 kts	Flaps up; 5,000 ft; 15,000 lbs
V2	Take Off Safety Speed	117 kts	Flaps up; 5,000 ft; 15,000 lbs
V1	Take Off Decision Speed	104 kts	Flaps up; 5,000 ft; <10,000 lbs
Vr	Take Off Rotation Speed	104 kts	Flaps up; 5,000 ft; <10,000 lbs
V2	Take Off Safety Speed	111 kts	Flaps up; 5,000 ft; <10,000 lbs

**Best**

Vb	Turbulence Penetration Speed (also Vturb)	170 kts
Vx	Best Angle-of-Climb, all engines	125 kts
Vy	Best Rate-of-Climb, all engines	140 kts
Vg	Best Glide, engine off	135 kts

**Guide**

Gcc	Cruise Climb Speed	170 kts	Sea Level to 10,000ft
Gcc	Cruise Climb Speed	160 kts	10,000 to 15,000ft
Gcc	Cruise Climb Speed	150 kts	15,000 to 20,000ft
Gcc	Cruise Climb Speed	140 kts	20,000 to 25,000ft
Gcc	Cruise Climb Speed	130 kts	25,000 to 30,000ft
Gcc	Cruise Climb Speed	120 kts	35,000 to 40,000ft

**Upper**

Vmo	Maximum Operating Speed, Knots	263 kts	
Mmo	Maximum Operating Speed, MACH	0.58 MACH	
Va	Maximum Control Deflection (also Vman)	184 kts	
Vle	Maximum Landing Gear Extended Speed	184 kts	
Vlo	Maximum Landing Gear Operation Speed	184 kts	Extension
Vlo	Maximum Landing Gear Operation Speed	166 kts	Retraction
Vfe	Maximum Flaps Extended Speed	220 kts	Flaps Approach
Vfe	Maximum Flaps Extended Speed	158 kts	Flaps Down

**Landing**

Vref	Landing Approach Speed	109 kts	15,000 lbs; flaps & gear down
Vref	Landing Approach Speed	105 kts	14,000 lbs; flaps & gear down
Vref	Landing Approach Speed	102 kts	13,000 lbs; flaps & gear down
Vref	Landing Approach Speed	100 kts	12,000 lbs; flaps & gear down
Vref	Landing Approach Speed	100 kts	11,000 lbs; flaps & gear down
Vref	Landing Approach Speed	100 kts	10,000 lbs; flaps & gear down

**Lower**

Vmc	Minimum Control Speed (with one engine operating)	94 kts	Flaps Up
Vmc	Minimum Control Speed (with one engine operating)	93 kts	Flaps Approach

# Dassault Falcon 50 Specifications

# Flight Plan DB

<b>Type Code</b>	FA50	<b>AcftId</b>	82	<b>Registration</b>	VH-ZAR
<b>Manu.</b>	Dassault			<b>Configuration</b>	Standard
<b>Model</b>	Falcon 50			<b>Colour/Markings</b>	
<b>Variant</b>				<b>Operating/Hire</b>	\$1,000.00

Aviation      Metric

<b>Seats</b>
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<b>Range</b>	<b>Maximum</b>
	<b>Low</b>

<b>Runway</b>	<b>Take Off Required</b>	5,310 ft	1,618 m
	<b>Landing Required</b>		

<b>Ceiling</b>	<b>All Engines</b>
	<b>One Engine</b>

<b>Fuel</b>	<b>Type</b>	AVTUR
	<b>Specific Gravity</b>	0.8
<b>Fuel Units</b>	LBS	L
<b>Capacity</b>	15,325	8,689

<b>Weight</b>			
	<b>Weight Units</b>	LBS	KG
	<b>Maximum Taxi</b>	40,780	18,497
	<b>Maximum Take Off (MTOW)</b>	38,800	17,599
	<b>Maximum Landing (MLW)</b>	35,715	16,200
	<b>Maximum Zero Fuel (MZFW)</b>	25,570	11,598
	<b>Basic Empty (BEW)</b>		
	<b>Flight Sim Empty (FSEmpty)</b>	21,870	9,920
	<b>Fuel Weight</b>	15,325	6,951
	<b>Flight Sim Total (FSTot)</b>	37,195	16,871

**Wake Category**

H > 136,000 kg

M Between 7,000 and 136,000 kg

L < 7,000 kg

<b>Performance</b>			
	<b>Cruise</b>	<b>Climb</b>	<b>Touch Down</b>
<b>IAS</b>	<b>MACH</b> 0.8	<b>Cruise Climb</b> 260 kts	<b>IAS</b> 120 kts
<b>Altitude</b>	35,000 ft	<b>Climb Rate</b> 1,000 ft/min	<b>Descent</b>
<b>Fuel Flow</b>	<b>Cruise</b> 2460 lbs/h	<b>Climb</b>	<b>Rate</b>
			<b>Descent</b> 1650 lbs/h
<b>Performance Category</b>	B - 91kts to 120 kts IAS		<b>Taxi</b>

**TakeOff**

V1	Take Off Decision Speed	111 kts	Sea lvl; 38,000 lbs; flaps 20°	
Vr	Take Off Rotation Speed	122 kts	Sea lvl; 38,000 lbs; flaps 20°	=V2
Vfr	Flaps Up	137 kts	Sea lvl; 38,000 lbs; flaps 20°	
V1	Take Off Decision Speed	96 kts	Sea lvl; 32,000 lbs; flaps 20°	
Vr	Take Off Rotation Speed	112 kts	Sea lvl; 32,000 lbs; flaps 20°	=V2
Vfr	Flaps Up	127 kts	Sea lvl; 32,000 lbs; flaps 20°	
V1	Take Off Decision Speed	91 kts	Sea lvl; 24,000 lbs; flaps 20°	
Vr	Take Off Rotation Speed	98 kts	Sea lvl; 24,000 lbs; flaps 20°	=V2
Vfr	Flaps Up	113 kts	Sea lvl; 24,000 lbs; flaps 20°	

**Best**

Vg	Best Glide, engine off	160 kts		
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**Upper**

Vmo	Maximum Operating Speed, Knots			
Vne	Never Exceed Speed	370 kts		
Vle	Maximum Landing Gear Extended Speed	220 kts		
Vlo	Maximum Landing Gear Operation Speed	190 kts		
Vmo	Maximum Operating Speed, Knots	350 kts	Sea Level	
Vmo	Maximum Operating Speed, Knots	370 kts	10,000 ft	
Mmo	Maximum Operating Speed, MACH	0.87 MACH	Above 24,000 ft	
Vfe	Maximum Flaps Extended Speed	200 kts	Flaps (Slats Only)	
Vfe	Maximum Flaps Extended Speed	190 kts	Flaps 20°	
Vfe	Maximum Flaps Extended Speed	175 kts	Flaps 48°	

**Landing**

Vref	Landing Approach Speed	131 kts	Slats & Flaps 48°; 38,000 lbs
Vref	Landing Approach Speed	120 kts	Slats & Flaps 48°; 32,000 lbs
Vref	Landing Approach Speed	104 kts	Slats & Flaps 48°; 24,000 lbs

**Lower**

Vso	Stalling Speed, landing configuration (flaps down)	83 kts	
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# Aerospatale-British Aerospace Concorde Specifications

# Flight Plan DB

<b>Type Code</b>	CONC	<b>AcftId</b>	107	<b>Registration</b>	G -ZAR
<b>Manu.</b>	Aerospatale-British Aerospace			<b>Configuration</b>	Standard
<b>Model</b>	Concorde			<b>Colour/Markings</b>	
<b>Variant</b>				<b>Operating/Hire</b>	\$50,000.00

Aviation      Metric

<b>Seats</b>		128	
<b>Range</b>	<b>Maximum Low</b>	3,371 nm	6,243 km
<b>Runway</b>	<b>Take Off Required Landing Required</b>	6,562 ft	2,000 m
<b>Ceiling</b>	<b>All Engines One Engine</b>	60,000 ft	18,288 m

<b>Fuel</b>	<b>Type</b>	AVTUR
	<b>Specific Gravity</b>	0.8
<b>Fuel Units</b>	KG	L
<b>Capacity</b>	106,242	132,803

<b>Weight</b>			
	<b>Weight Units</b>	LBS	KG
	<b>Maximum Taxi</b>		
<b>Maximum Take Off (MTOW)</b>		407,154	184,682
<b>Maximum Landing (MLW)</b>		244,486	110,897
<b>Maximum Zero Fuel (MZFW)</b>			
<b>Basic Empty (BEW)</b>		172,930	78,440
<b>Flight Sim Empty (FSEmpty)</b>		172,930	78,440
<b>Fuel Weight</b>		234,224	106,242
<b>Flight Sim Total (FSTot)</b>		407,154	184,682

**Wake Category**

- H > 136,000 kg
- M Between 7,000 and 136,000 kg
- L < 7,000 kg

<b>Performance</b>			
<b>IAS</b>	<b>Cruise</b>	430 kts	<b>MACH</b> 2
	<b>Altitude</b>	55,000 ft	
<b>Fuel Flow</b>	<b>Cruise</b>	1300 kg/h	
	<b>Climb</b>	<b>Cruise Climb</b>	250 kts
	<b>Climb Rate</b>	2,000 ft/min	
	<b>Climb</b>	2200 kg/h	
	<b>Touch Down</b>	<b>IAS</b>	155 kts
	<b>Descent</b>	<b>Rate</b>	2,000 ft/min
	<b>Descent</b>	350 kg/h	
<b>Performance Category</b>	D - 141kts to 165kts IAS		<b>Taxi</b> 100 kg/h

These figures need verification: Fuel Capacity.

**TakeOff**

V1	Take Off Decision Speed	120 kts	Min - For Generalised Speed Range
Vr	Take Off Rotation Speed	139 kts	Min - For Generalised Speed Range
V2	Take Off Safety Speed	175 kts	Min - For Generalised Speed Range
V1	Take Off Decision Speed	190 kts	Max - For Generalised Speed Range
Vr	Take Off Rotation Speed	205 kts	Max - For Generalised Speed Range
V2	Take Off Safety Speed	225 kts	Max - For Generalised Speed Range

**Upper**

Mmo	Maximum Operating Speed, MACH	2.04 MACH	51,000ft
Mmo	Maximum Operating Speed, MACH		
Vvd	Maximum Visor Down Speed	325 kts	0.8 Mach
Vnd	Maximum Nose Down Speed	270 kts	
Vle	Maximum Landing Gear Extended Speed	270 kts	0.7 Mach
Vmo	Maximum Operating Speed, Knots	400 kts	5,000 - 32,000ft
Mmo	Maximum Operating Speed, MACH	0.65 MACH	5,000ft
Vmo	Maximum Operating Speed, Knots	400 kts	32,000ft
Mmo	Maximum Operating Speed, MACH	1.07 MACH	32,000ft
Vmo	Maximum Operating Speed, Knots	530 kts	44,000ft
Mmo	Maximum Operating Speed, MACH	1.75 MACH	44,000ft
Mmo	Maximum Operating Speed, MACH	2.00 MACH	50,000ft
Mmo	Maximum Operating Speed, MACH	2.04 MACH	51,000 - 60,000ft

**Landing**

Vref	Landing Approach Speed	150 kts	Min - For Generalised Speed Range
Vref	Landing Approach Speed	162 kts	Max - For Generalised Speed Range

**Lower**

Vla	Lowest Authorized Speed	300 kts	60,000 - 41,000ft
Vla	Lowest Authorized Speed	250 kts	41,000 - 15,000ft