

Dr. Thomas Plane

**RV-4 Specifications****Exterior Dimensions**

Span	23 ft
Length	20 ft 4 in
Height	5 ft 5 in
Wing Area	110 sq ft

Weights

Empty Weight	905 - 913 lbs
Gross Weight	1500 lbs

Loadings

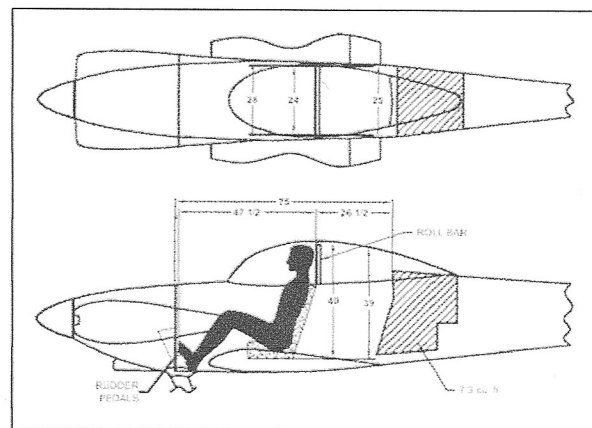
Wing Loading	13.64 lb/sq ft
Power Loading	10.0 - 8.33 lb/hp

Powerplant/Systems

Engine	150-180 hp
Propeller	Fixed or C/S
Fuel Capacity	32 US gal

Other

Baggage	50 lbs
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Interior Dimensions and Baggage Area



RV-4 Performance

Performance

	150 hp	160 hp	180 hp
Solo Weight 1160 lbs			
Gross Weight 1500 lbs			
Empty weight and performance measured with fixed pitch wood propeller			
Speeds and ranges in statute mph (sm)			
Speed - Solo Weight			
Top Speed	201 mph	205 mph	213 mph
Cruise [75% @ 8000 ft]	189 mph	193 mph	201 mph
Cruise [55% @ 8000 ft]	171 mph	174 mph	182 mph
Stall Speed	48 mph	48 mph	48 mph
Speed - Gross Weight			
Top Speed	200 mph	204 mph	212 mph
Cruise [75% @ 8000 ft]	188 mph	192 mph	200 mph
Cruise [55% @ 8000 ft]	170 mph	173 mph	180 mph
Stall Speed	54 mph	54 mph	54 mph
Ground Performance - Solo Weight			
Takeoff Distance	325 ft	300 ft	260 ft
Landing Distance	300 ft	300 ft	300 ft
Ground Performance - Gross Weight			
Takeoff Distance	475 ft	450 ft	400 ft
Landing Distance	425 ft	425 ft	425 ft
Climb/Ceiling - Solo Weight			
Rate of Climb	1,850 fpm	2,050 fpm	2,450 fpm
Ceiling	21,700 ft	24,000 ft	28,600 ft
Climb/Ceiling - Gross Weight			
Rate of Climb	1,500 fpm	1,650 fpm	1,950 fpm
Ceiling	18,000 ft	19,500 ft	23,000 ft
Range			
Range [75% @ 8000 ft]	640 sm	640 sm	590 sm
Range [55% @ 8000 ft]	790 sm	790 sm	725 sm

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LUKE Z. Plane



RV-8/8A Specifications

RV-8 Specifications

RV-8

Exterior Dimensions

Span	24 ft
Length	21 ft
Height	5 ft 7 in
Wing Area	116 sq ft

Weights

Empty Weight	1067 - 1120 lbs
Gross Weight	1800 lbs

Loadings

Wing Loading	15.5 lb/sq ft
Power Loading	12 - 9 lb/hp

Powerplant/Systems

Engine	150-200 hp
Propeller [in prototype]	Fixed or C/S
Fuel Capacity	42 US gal

Other

Baggage	125 lbs
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RV-8A

Exterior Dimensions

Span	24 ft
Length	20 ft 10 in
Height	7 ft 4 in
Wing Area	116 sq ft

Weights

Empty Weight	1067 - 1120 lbs
Gross Weight	1800 lbs

Loadings

Wing Loading	15.5 lb/sq ft
Power Loading	12 - 9 lb/hp

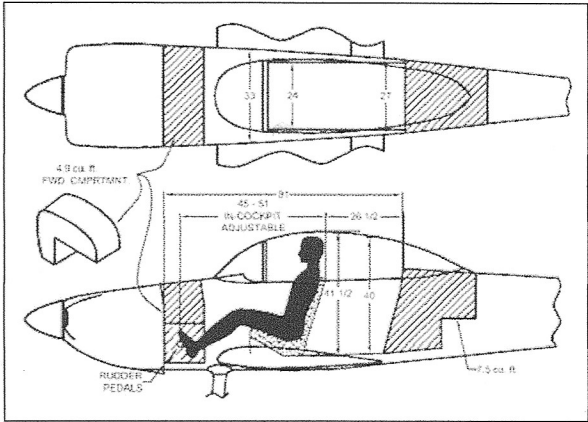
Powerplant/Systems

Engine	150-200 hp
Propeller [in prototype]	Fixed or C/S
Fuel Capacity	42 US gal

Other

Baggage	125 lbs
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Interior Dimensions and Baggage Area





RV-8/8A Performance

RV - 8

Solo Weight 1400 lbs
Gross Weight 1800 lbs
Empty weight and performance measured with Hartzell 2 Blade C/S prop
Speeds and ranges in statute mph (sm)

Speed - Solo Weight

Top Speed	206 mph	214 mph	222 mph
Cruise [75% @ 8000 ft]	197 mph	204 mph	212 mph
Cruise [55% @ 8000 ft]	175 mph	182 mph	189 mph
Stall Speed	51 mph	51 mph	51 mph

Speed - Gross Weight

Top Speed	205 mph	213 mph	221 mph
Cruise [75% @ 8000 ft]	195 mph	203 mph	210 mph
Cruise [55% @ 8000 ft]	173 mph	180 mph	187 mph
Stall Speed	58 mph	58 mph	58 mph

Ground Performance - Solo Weight

Takeoff Distance	300 ft	275 ft	250 ft
Landing Distance	350 ft	350 ft	350 ft

Ground Performance - Gross Weight

Takeoff Distance	650 ft	575 ft	500 ft
Landing Distance	500 ft	500 ft	500 ft

Climb/Ceiling - Solo Weight

Rate of Climb	2,000 fpm	2,300 fpm	2,700 fpm
Ceiling	21,000 ft	23,000 ft	25,500 ft

Climb/Ceiling - Gross Weight

Rate of Climb	1,400 fpm	1,650 fpm	1,900 fpm
Ceiling	18,500 ft	20,500 ft	22,500 ft

Range

Range [75% @ 8000 ft]	855 sm	790 sm	780 sm
Range [55% @ 8000 ft]	1,030 sm	955 sm	940 sm

RV - 8A

Solo Weight 1400 lbs
Gross Weight 1800 lbs
Empty weight and performance measured with Hartzell 2 Blade C/S prop
Speeds and ranges in statute mph (sm)

Speed - Solo Weight

Top Speed	204 mph	212 mph	220 mph
Cruise [75% @ 8000 ft]	195 mph	202 mph	210 mph
Cruise [55% @ 8000 ft]	173 mph	180 mph	187 mph
Stall Speed	51 mph	51 mph	51 mph

Speed - Gross Weight

Top Speed	203 mph	211 mph	219 mph
Cruise [75% @ 8000 ft]	193 mph	201 mph	208 mph
Cruise [55% @ 8000 ft]	171 mph	178 mph	184 mph
Stall Speed	58 mph	58 mph	58 mph

Ground Performance - Solo Weight

Takeoff Distance	300 ft	275 ft	250 ft
Landing Distance	350 ft	350 ft	350 ft

Ground Performance - Gross Weight

Takeoff Distance	650 ft	575 ft	500 ft
Landing Distance	500 ft	500 ft	500 ft

Climb/Ceiling - Solo Weight

Rate of Climb	1,900 fpm	2,200 fpm	2,600 fpm
Ceiling	20,000 ft	22,000 ft	24,500 ft

Climb/Ceiling - Gross Weight

Rate of Climb	1,350 fpm	1,600 fpm	1,800 fpm
Ceiling	17,500 ft	19,500 ft	21,500 ft

Range

Range [75% @ 8000 ft]	845 sm	780 sm	770 sm
Range [55% @ 8000 ft]	1020 sm	945 sm	930 sm

24 F+5 fpm

15+ lbs for RV8

TOTAL PERFORMANCE

VAN'S AIRCRAFT

The WORLD LEADER
in KIT AIRCRAFT

14401 Kell Road NE Aurora, Oregon 97002, USA

Our Plane

RV-6/6A Specifications

Specifications

RV-6

Exterior Dimensions

Span	23 ft
Length	20 ft 2 in
Height	5 ft 3 in
Wing Area	110 sq ft

Weights

Empty Weight	965 lbs
Gross Weight	1600 lbs

ours will be
set at 1850

Loadings

Wing Loading	14.5 lb/sq ft
Power Loading	10 lb/hp @ 180 hp

Powerplant/Systems

Engine	150-180 hp
Propeller	Fixed or C/S
Fuel Capacity	38 US gal

Other

Baggage	60 lbs
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RV-6A

Exterior Dimensions

Span	23 ft
Length	19 ft 9 in
Height	6 ft 8 in
Wing Area	110 sq ft

Weights

Empty Weight	985 lbs
Gross Weight	1650 lbs

Loadings

Wing Loading	15 lb/sq ft
Power Loading	10.3 lb/hp

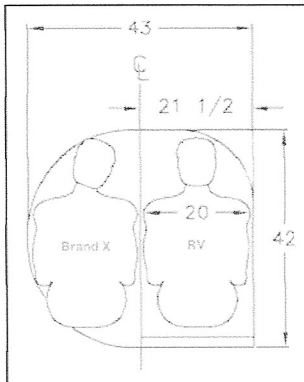
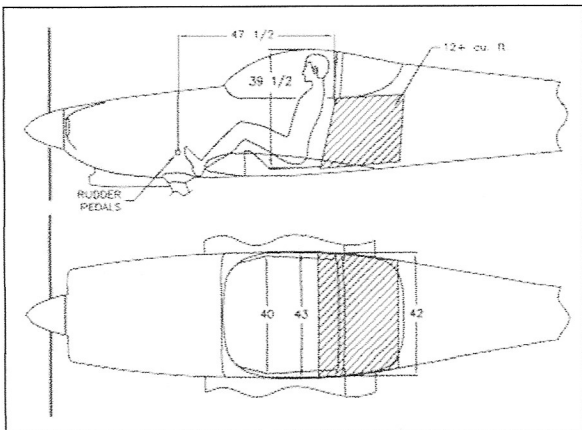
Powerplant/Systems

Engine	150-180 hp
Propeller	Fixed or C/S
Fuel Capacity	38 US gal

Other

Baggage	60 lbs
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Interior Dimensions and Baggage Area



TOTAL PERFORMANCE

VAN'S AIRCRAFT

The WORLD LEADER
in KIT AIRCRAFT

14401 Kell Road NE Aurora, Oregon 97002, USA

RV-6/6A Performance

PERFORMANCE

Solo weight 1375
RV-6
Empty
Solo Weight 965 lbs
Gross Weight 1600 lbs
Speeds and ranges in statute mph (sm)
Empty weight and performance measured with Fixed pitch prop

1067 + 389 = 1456
(228)
Set gross 1800
505 lbs useful

	150 hp	160 hp	180 hp
Speed - Solo Weight			
Top Speed	198 mph	202 mph	210 mph
Cruise [75% @ 8000 ft]	187 mph	191 mph	199 mph
Cruise [55% @ 8000 ft]	169 mph	172 mph	179 mph
Stall Speed	49 mph	49 mph	49 mph
Speed - Gross Weight			
Top Speed	197 mph	201 mph	209 mph
Cruise [75% @ 8000 ft]	186 mph	190 mph	198 mph
Cruise [55% @ 8000 ft]	168 mph	171 mph	178 mph
Stall Speed	55 mph	55 mph	55 mph
Ground Performance - Solo Weight			
Takeoff Distance	325 ft	300 ft	270 ft
Landing Distance	300 ft	300 ft	300 ft
Ground Performance - Gross Weight			
Takeoff Distance	550 ft	535 ft	475 ft
Landing Distance	500 ft	500 ft	500 ft
Climb/Ceiling - Solo Weight			
Rate of Climb	1,710 fpm	1,900 fpm	2,275 fpm
Ceiling	19,300 ft	21,500 ft	25,700 ft
Climb/Ceiling - Gross Weight			
Rate of Climb	1,355 fpm	1,500 fpm	1,790 fpm
Ceiling	15,800 ft	17,400 ft	20,800 ft
Range			
Range [75% @ 8000 ft]	775 sm	775 sm	720 sm
Range [55% @ 8000 ft]	950 sm	950 sm	880 sm

RV-6A

Solo Weight 985 lbs
Gross Weight 1650 lbs
Speeds and ranges in statute mph (sm)
Empty weight and performance measured with Fixed pitch prop

	150 hp	160 hp	180 hp
Speed - Solo Weight			
Top Speed	196 mph	200 mph	208 mph
Cruise [75% @ 8000 ft]	185 mph	189 mph	197 mph
Cruise [55% @ 8000 ft]	167 mph	170 mph	177 mph
Stall Speed	49 mph	49 mph	49 mph
Speed - Gross Weight			
Top Speed	195 mph	199 mph	207 mph
Cruise [75% @ 8000 ft]	184 mph	188 mph	196 mph
Cruise [55% @ 8000 ft]	166 mph	169 mph	176 mph
Stall Speed	55 mph	55 mph	55 mph
Ground Performance - Solo Weight			
Takeoff Distance	325 ft	300 ft	270 ft
Landing Distance	300 ft	300 ft	300 ft
Ground Performance - Gross Weight			
Takeoff Distance	560 ft	535 ft	485 ft
Landing Distance	500 ft	500 ft	500 ft
Climb/Ceiling - Solo Weight			
Rate of Climb	1,665 fpm	1,850 fpm	2,225 fpm
Ceiling	18,500 ft	20,500 ft	24,700 ft
Climb/Ceiling - Gross Weight			
Rate of Climb	1,305 fpm	1,450 fpm	1,740 fpm
Ceiling	14,750 ft	13,300 ft	19,700 ft
Range			
Range [75% @ 8000 ft]	760 sm	760 sm	705 sm
Range [55% @ 8000 ft]	875 sm	875 sm	810 sm

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SHM James
Cowl & Plenum
Should add
10-12 mph

C/S should
Add approx 10%
Climb performance