

A1
(X) B-35/per

Performance of the XB-35 at 155,000 LBS.

These performances are based on computations of the drag results obtained from the N9-M.

Maximum speed at military power at 35,000ft.	386 mph
Maximum rate of climb at military power	1270ft/min
Service ceiling (four engines)	39,400 ft.
(three engines)	23,200 ft.
Range with 10,000 lbs. of bombs cruise altitude-35,000 ft.) average speed-250 mph)	4,600 miles
cruise altitude-25,000 ft.) average speed-230 mph)	5,1000 miles
Takeoff distance to clear 50 ft.	4,800 ft.

Physical Characteristics

Wing span	172 ft.
Wing Area	4000 ft. ²
Wing Aspect Ratio	7.38
Mean Aerodynamic Chord	26.3 ft.
Taper Ratio	0.25
Airfoil Sections	
Root	NACA 65,3-019
Tip	NACA 65,3-018
Length	53.1 ft.
Height	20.28
Design Gross Weight	155,000 lbs.
Weight Empty	95,339 lbs.
Engine:	
Make	Pratt & Whitney
Model Number	XR-4360-17,-21
Propeller Gear Ratio	.381:1 dual rotation
Power rating:	
Normal	2500 BHP at 2700 rpm S.L. to 35000 ft.

Physical Characteristics (Cont'd)

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Engine (Cont'd)

Power rating:(Cont'd)

Military and Takeoff
(5 Minutes)

3000 BHP at 2700rpm
S.L. to 35,000 ft.

Propeller:

Make

Type

Number of blades

Blade number

Diameter

Hamilton Standard
dual rotation, pusher
eight

2C15B1-0, 2C15B2-0

15' 1" (Propeller
farthest from engine)

15' 1" (Propeller
nearest engine)

Thickness ratio at 3/4 station

0.056