

11-18-42

BU. OF AERO., NAVY DEPT.
PERFORMANCE DATA

MODEL R4D-1 LAND.

(A)	CARGO-TROOP-TRANSPORT				FERRY	
GROSS WEIGHT LBS	26000				29000	
WEIGHT EMPTY "	16632					
FUEL GALS.	300	500	804	500	1000	1604
(1) CARGO TROOP MARK	6400	5200	3400	8200	3750	650
(2) " " "	1139	1139	1139	1139	1411	2096
WING LOADING	26.3	26.3	26.3	29.4	29.4	29.4
POWER LOADING	12.4	12.4	12.4	13.8	13.8	13.8
ENGINE	2 R-1830-92 (16:9)					
ENGINE RATING (BHP/RPM/ALT)	NORMAL				MILITARY	
	1050/2550/SL-7500				None	
	1200/2700/T.O.					
ENG. RATS FOR PERK						
VM-SEA LEVEL MPH	212	212	212	210	210	210
- 7500' "	229	229	229	227	227	227
- 10000' "	226			224		
- 15000' "	219			217		
- 20000' "	210			204		
- " "						
- " "						
- " "						
- " "						
CLIMB-S.L. FT/MIN	930	930	930	730	730	730
" "						
TIME-10000' MIN	12.1	12.1	12.1	15.0	15.0	15.0
-20000' "	31.5	31.5	31.5	42.4	42.4	42.4
SERVICE CEIL. FT	26000	26000	26000	23700	23700	23700
VS-GR. WEIGHT MPH	64.0	64.0	64.0	67.6	67.6	67.6
-LESS FUEL "	61.8	60.2	57.8	64.0	60.2	55.3
END/60% VM	5.5/137	9.3/137	15.2/137	8.5/136	17.8/136	29.8/136
/75 " "	3.7/172	6.3/172	10.2/172	6.1/170	12.4/170	20.2/170
/90 " "	1.8/206	3.0/206	4.8/206	3.0/204	6.0/204	9.6/204
/VM	1.2/229	2.0/229	3.2/229	2.0/227	4.0/227	6.4/227
MAX END/VAV*	6.1	10.4	17.3	9.1	19.4	33.4
" RANGE/VAV*	755/135	1280/134	2105/133	1170/137	2450/136	4115/135
TAKE-OFF: CALM FT.	995	995	995	1329	1329	1329
(LAND)-15 KN. "	634	634	634	869	869	869
-25 KN. "	435	435	435	614	614	614
TAKE-OFF (SEA) SEC	—	—	—	—	—	—

*AT 7500 FT.

REMARKS IFF equipment in all loadings. Weight empty includes the complete radio installation as delivered. (554 lbs.)

Useful load = (1) + (2)

(1) Cargo, troops, etc.

(2) Crew (3 men), trapped fuel and oil, full oil tanks (58 gals.) and auxiliary fuel tank installation where included in the above loadings.

BU. OF AERO., NAVY DEPT.
GENERAL DATA

11-18-42

MODEL R4D-1 LAND.

GENERAL

GROSS WEIGHT _____ LBS. C.G. _____ % M.A.C. C.G. FROM T. L. _____ INS.
MAX. CENTER OF GRAVITY RANGE _____ TO _____ % M.A.C.

SPAN _____ 95'-0" HEIGHT, LEVEL _____
" , FOLDED _____ " , ON WHEELS _____ 16'-11"
LENGTH, LEVEL _____ 64'-6" " , " " , FOLDED _____
" , ON WHEELS _____ " , HOIST. ATTITUDE _____

WING AREA _____ 987 SQ. FT. M.A.C. _____ 138.1 INS.
WING SECTION NACA 2215 to 2206

DISP, MAIN FLOAT _____ --- LBS. DISP, AUX. FLOAT _____ --- LBS.
BEAM, MN. FL., HULL _____ ---

PROPELLER

TYPE _____ Ham. Std. C.S. NO. OF BLADES _____ 3
DIAMETER _____ 11'-7" BLADE DES. NO. _____ 6353

FUEL TANKAGE

FIXED TANKS (PROTECTED) _____ NONE GALS. TOTAL, FIXED TANKS _____ 804 GALS.
" " (UNPROTECT) _____ 804 GALS. " , " (PROT. REMOVED) _____ --- GALS.
AUX. TANKS, ~~PROTECT~~ _____
8-100 gal. tanks for installation in fuselage

OIL TANKAGE

TOTAL (~~PROTECT~~ UNPROTECT) _____ 58 GALS. TOTAL (PROT. REMOVED) _____ --- GALS.

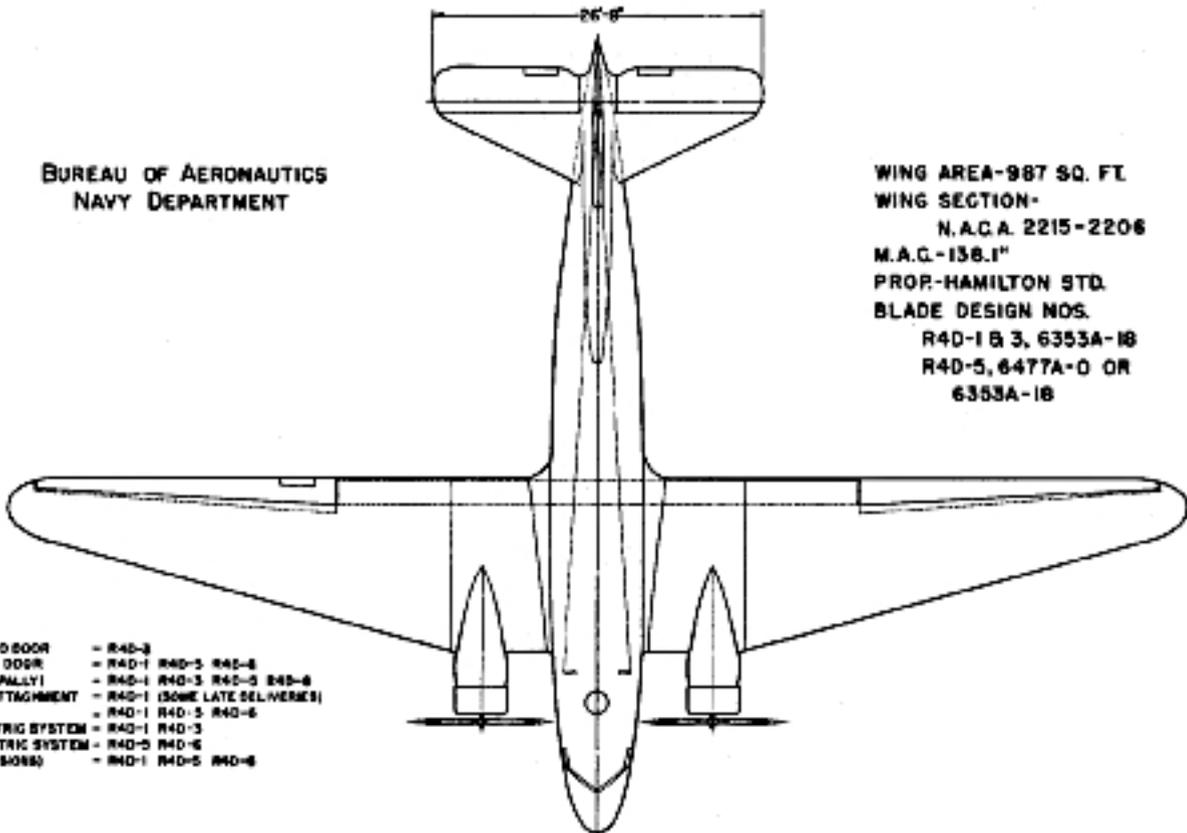
PROV. FOR BOMBS, ETC.

None

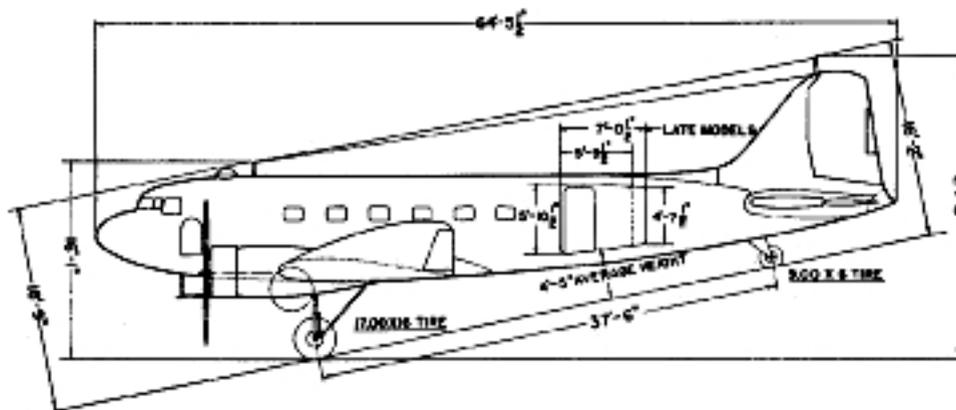
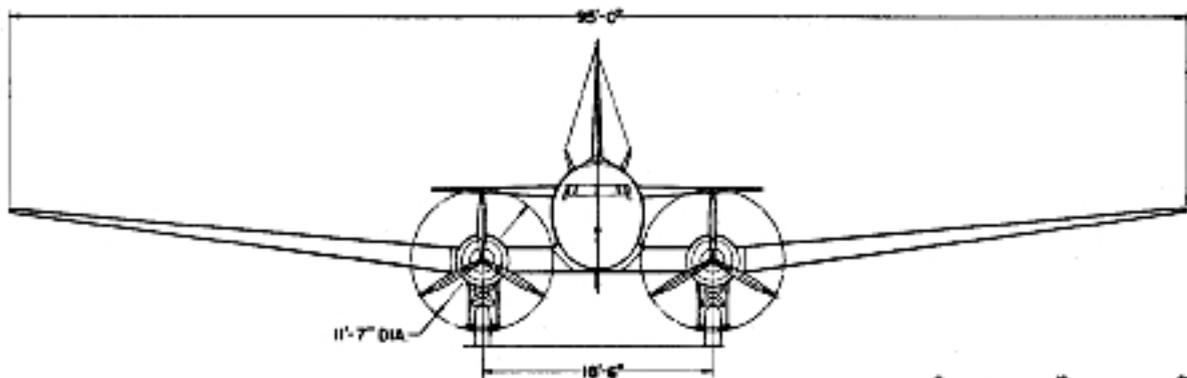
REMARKS

BUREAU OF AERONAUTICS
NAVY DEPARTMENT

WING AREA-987 SQ. FT.
WING SECTION-
N.A.C.A. 2215-2206
M.A.C.-138.1"
PROP-HAMILTON STD.
BLADE DESIGN NOS.
R4D-1 & 3, 6353A-1B
R4D-5, 6477A-0 OR
6353A-1B



- NARROW CARGO DOOR - R4D-3
- WIDE CARGO DOOR - R4D-1 R4D-5 R4D-6
- TROOP SPRINGALLY - R4D-1 R4D-3 R4D-5 R4D-6
- GLIDER TOW ATTACHMENT - R4D-1 (SOME LATE DELIVERIES)
- ASTRODOME - R4D-1 R4D-5 R4D-6
- 12 VOLT ELECTRIC SYSTEM - R4D-1 R4D-3
- 24 VOLT ELECTRIC SYSTEM - R4D-5 R4D-6
- LITTER (PROVISIONS) - R4D-1 R4D-5 R4D-6



MODEL R4D-1,3,5&6

NAVAER