

**ENGINEERING & RESEARCH CORPORATION**  
**RIVERDALE, MARYLAND**  
**WEIGHT AND BALANCE**  
**ERCOUPE MODEL 415-C**

SERIAL NO. \_\_\_\_\_

NC \_\_\_\_\_

PRODUCTION CERTIFICATE NO. 17

Approved by: \_\_\_\_\_  
Weight & Balance Engineer

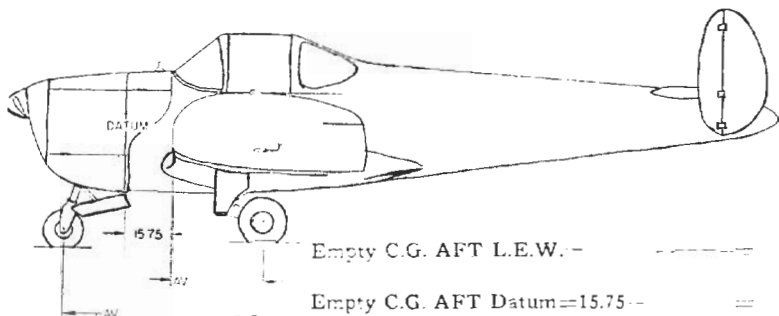
Verified by: \_\_\_\_\_  
Inspector for the Authority

Date of Manufacture \_\_\_\_\_

EMPTY WEIGHT DATA		
	NET WEIGHT	
	Actual	Computed
Rear Right Wheel		
Rear Left Wheel		
Nose Wheel		
Total Weight		

Gross Weight = 1260

Useful Load =



L.E.M.A.C. is 16.6 AFT DATUM

M.A.C. = 57.1

APPROVED C. G. LIMITS

FWD.: 26.4 AFT Datum

RWD.: 30.3 AFT Datum

BAGGAGE ALLOWANCE

1. Pilot & No Passenger	65
2. Pilot & Passenger (Max. Fuel)	
3. Pilot & Passenger (Min. Fuel)	
4. Max. Baggage Never to Exceed	65
5. Minimum Fuel—Gals.	12

EXTREME C. G. POSITIONS

	Forward C. G.			Rearward C. G.		
	WT.	ARM	MOM.	WT.	ARM	MOM.
Empty Weight $\frac{\text{Actual}}{\text{Computed}}$						
Pilot	170	37	6290	170	37	6290
Gasoline—Fuselage Tank	36	7	252	36	7	252
Gasoline—Wing Tank—L.	54	25	1350	36	25	900
Gasoline—Wing Tank—R.	54	25	1350			
Oil	8	-14	-112	8	-14	-112
Passenger				170	37	6290
Baggage					57	
Total						
H. C. G. AFT Datum						
H. C. G. % M. A. C. $\frac{-16.6}{57.1}$						

EQUIPMENT LIST

Spec. No.	Item	Unit Wt.	Arm
101	Propeller	14 lbs.	- 32
104-c	Carburetor Air Heater	5 lbs.	- 2
105-c	Fuel Pump	2 lbs.	- 27
106-a	Engine	166 lbs.	- 22
102-b	Landing Gear (Main)	28 lbs.	+ 44
103-b	Landing Gear (Nose)	9 lbs.	- 16
302-b	Battery (12 Volt)	25 lbs.	+ 55
107-a	Starter	14 lbs.	- 7
308-a	Generator	10 lbs.	- 8
	Voltage Regulator	2 lbs.	+ 50