

- CHAPTER 2 -

LEADING PARTICULARS

2.1	<u>Dimensions</u>	<u>English</u>	<u>Metric</u>
	Wing Span	34 ft. 4 in.	10,46 m.
	Length	25 ft. 5 in.	7,75 m.
	Height	7 ft.	2,13 m.
	Wing Area	172.5 sq.ft.	16,03 m. ²
	Undercarriage Wheel Track	8 ft. 11 in.	2,72 m.
2.2	<u>Weights</u>		
	Weight Empty - See Chapter 5		
	Disposable Load - See Chapter 5		
		<u>Type 1A-1</u>	<u>Type 1B-2</u>
	Maximum gross weight	1930 lb. (875 kg)	1930 lb. (875 kg)
	Wing Loading	11.2 psf (55 kg/m)	11.2 psf (55 kg/m)
	Power Loading	13.8 lb/bhp (6.1 kg/CV)	13.3 lb/bhp (5.9 kg/CV)
2.3	<u>Performance</u>		
2.3.1	<u>General Data</u>	<u>English</u>	<u>Metric</u>
	Maximum true level speed at Sea Level	140 mph	225 km/hr
	Maximum true level speed at 5,000 ft. 1524 m.	134 mph	215 km/hr
	Economical True Cruising Speed (2100 rpm) at Sea Level	124 mph	200 km/hr
	Economical True Cruising Speed (2100 rpm) at 5000 ft.-1524 m.	121 mph	194 km/hr
	Stalling Speed Indicated - Flaps Up	52 mph	83 km/hr
	Stalling Speed Indicated - Flaps Down 30°	44 mph	70 km/hr

2.3.1

(cont'd)

	<u>English</u>	<u>Metric</u>
Take-off to clear 50 ft. (15,24 m.)		
Still air - Distance	290 yds	265 m.
- Time	17 sec.	17 sec.
Landing Distance over 50 ft. (15,24 m.)		
Still air - With Brakes	310 yds.	284 m.
- No Brakes	624 yds.	570 m.
Landing run, still air		
- With Brakes	155 yds.	141 m.
- No Brakes	466 yds.	430 m.
Maximum Rate of Climb		
- at Sea Level	900 ft/min.	4,57 m/sec.
- at 5,000 ft. - 15,24 m.	650 ft/min.	3,30 m/sec.
- at 10,000 ft. - 30,48 m.	410 ft./min.	2,10 m/sec.
Service Ceiling	17,200 ft.	5200 m.
Absolute Ceiling	19,400 ft.	5900 m.
Endurance at Economical Cruising Power (25 Imp. Gal.)	3.9 hrs.	3.9 hrs.
Range, still air	485 mi.	780 km.
Air miles per gallon at cruising	19.4	
Air kilometers per litre at cruising		6,87 km/litre
Cruising consumption	6.4 gph	29 litres/hr.
Maximum indicated Flap Speed	85 mph	136 km/hr
Maximum indicated Diving Speed (V_{ne})	200 mph	319 km/hr