

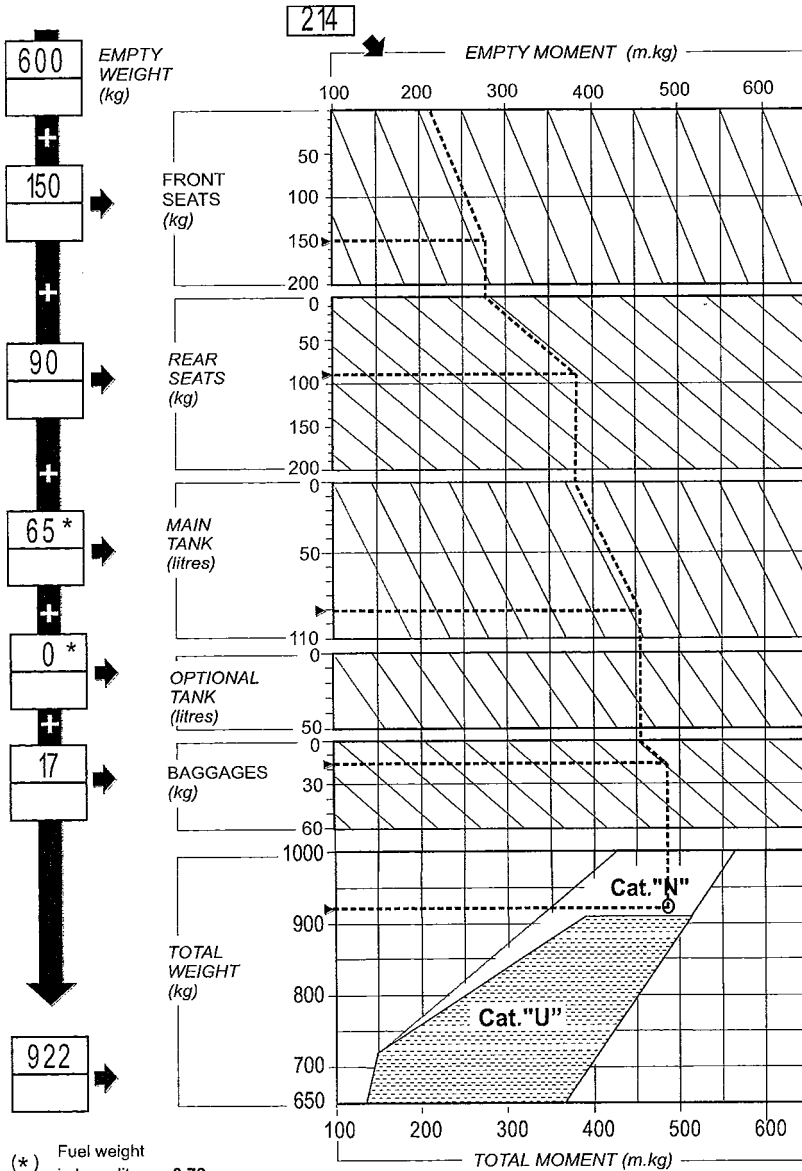
SECTION 6

WEIGHT AND BALANCE

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WEIGHT AND BALANCE DIAGRAM



(* Fuel weight
in kg = litres x 0,72

USE OF WEIGHT AND BALANCE DIAGRAM

- 1) Calculate the weight of the fully loaded aircraft:
 - empty weight (from the Weight & Balance Data Sheet)
 - + pilot and passengers weights
 - + baggage weight
 - + standard fuel
 - + additional fuel (as relevant).
 Make sure that the total weight does not exceed 1000 kg (2205 lb) in cat. N and 910 kg (2006 lb) in cat. U.

- 2) Place the empty aircraft moment (from the Weight and Balance Data Sheet) on the upper scale of the diagram, and proceed with your own data as in the following example, indicated by dashed line on the diagram. Loading is acceptable when the resulting point falls within the Center of Gravity moment envelope.

EXAMPLE (dashed line on the diagram)

Licensed empty weight (sample airplane)	(1548 ft.lb)	<u>214 m.kg</u>
Weight of the empty aircraft.....	(1323 lb)	600 kg
Pilot & front passenger	(331 lb)	150 kg
Rear passenger.....	(198 lb)	90 kg
Fuel *, main tank 90 l (24 imp/20 US gal).....	(143 lb)	65 kg
Fuel *, optional tank.....	(0 lb)	0 kg
Baggage	(37.5 lb)	17 kg
TOTAL WEIGHT	(2033 lb)	<u>922 kg</u>

Weight and balance: correct, within the Center of Gravity moment envelope.

*: 1 litre AVGAS = 0.72 kg (1.6 lb)

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