

## REPARATION

weighing procedure inside closed hangar from cabin any object unintentionally left on Flight Manual and mandatory documents are on board use wheel valve via the specific drain valve ratic fluid and coolant liquid at the operating levels iding seats to most forward position aps to fully retracted position control surfaces in neutral position sales (min. capacity 300 kg) under each wheel

## LEVELLING

**LEVELLING** the aircraft (the reference for longitudinal levelling is made putting a level on the cabin floor as shown in the Aircraft Maintenance Manual), longitudinal attitude deflating nose tire

## WEIGHING

weight shown on each scale  
at weighing procedure three times  
late empty weight

### DETERMINATION OF C.G. LOCATION

a plumb bob tangent to the wing leading edge and trace a reference mark on the floor (see Figure on Para. 2.5 or 2.6)

Repeat the operation for other wing

Draw a taught line between the two marks

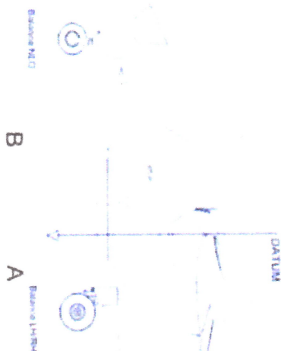
Measure the distance between the reference line and both main and nose wheel (A and B distances respectively)

Using the recorded data it is possible to determine the aircraft C.G. location and the aircraft moment (see following table)

## 2.5. WEIGHING RECORD

Model **P2006T** S/N: 44035 Weighing no. 1 Date: 06/08/2014

*Datum:* leading edge vertical




	Kg or Lbs	Meters or feet
Nose wheel weight	$W_n = 1150$	Plumb bob distance LH wheel $A_n = 0.815$
LH wheel weight	$W_l = 3820$	Plumb bob distance RH wheel $A_r = 0.815$
RH wheel weight	$W_r = 3640$	Average distance $(A_n + A_r)/2$ $A = 0.815$
$W_n + W_l + W_r = 7960$		Plumb bob distance from nose wheel $B = 2.130$

Empty weight  $W_e = W_1 + W_2 = 863.0$  [kg] or [lbs]

$\frac{W_1 \cdot A - W_2 \cdot B}{W_e} =$	0.46	$\frac{D}{1.339} \cdot 100 =$	31.0%
$D =$	$\frac{[m]}{[m] \text{ or } [F]}$		

Empty weight moment:  $M = (D \cdot W_e) = 353.0$  [m · kg] or [ft · lbs]

Maximum takeoff weight	W <sub>T</sub> = 1230.0	[kg] or [lbs]	Signature 
Empty weight	W <sub>e</sub> = 863.0	[kg] or [lbs]	
Max. useful load W <sub>T</sub> - W <sub>e</sub>	W <sub>u</sub> = 367.0	[kg] or [lbs]	