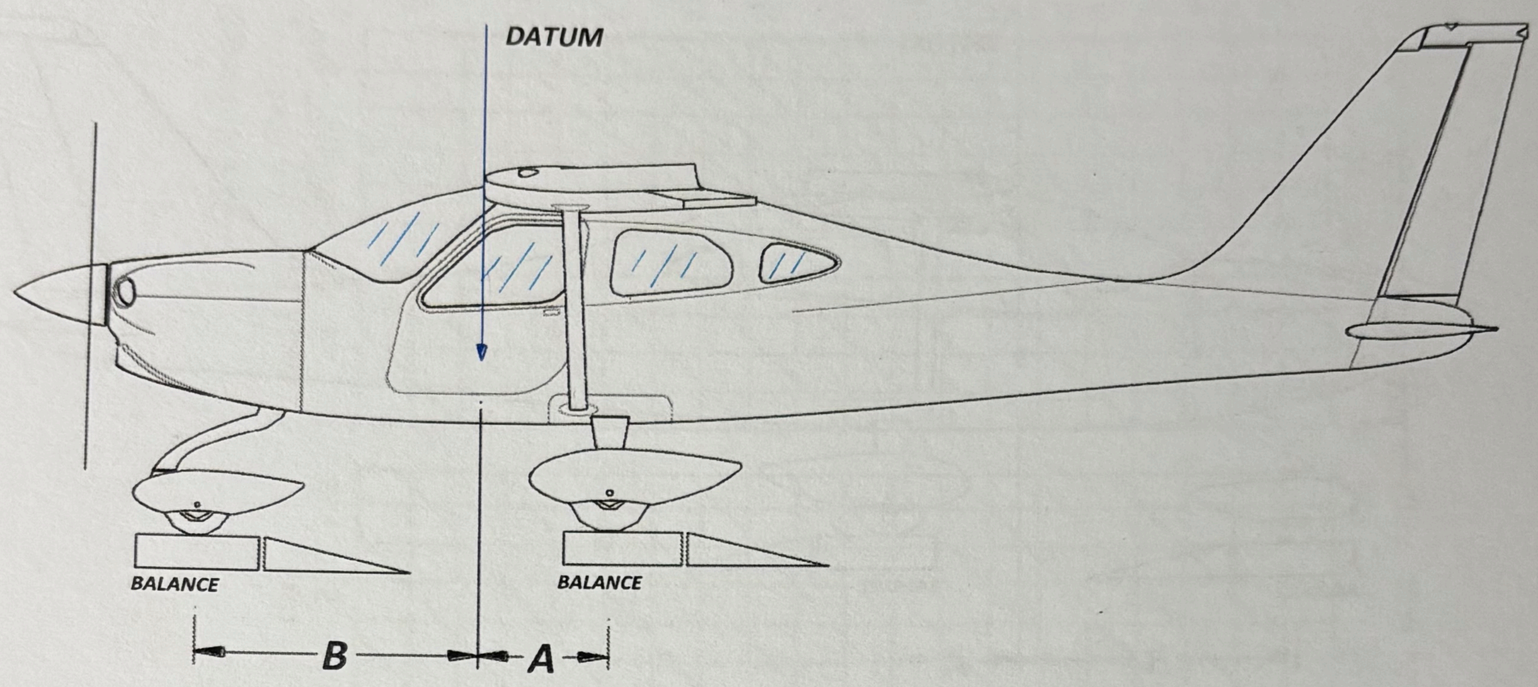
## 2.5. WEIGHING RECORD

*Model* **P2010** *S/N:* 171/US *Weighing no.* 1 *Date:* 08/AUG/2022

*Datum*: leading edge vertical




| | ~~kg~~ or lbs |
|---|---|
| Nose wheel weight | $W_1$ = 326 |
| LH wheel weight | $W_L$ = 705 |
| RH wheel weight | $W_R$ = 710 |
| $W_2 = W_L + W_R$ = | 1415 |

| | ~~meters~~ or feet |
|---|---|
| Plumb bob distance LH wheel | $A_L$ = 2,237 |
| Plumb bob distance RH wheel | $A_R$ = 2,237 |
| Average distance $(A_L + A_R)/2$ | A = 2,237 |
| Plumb bob distance from nose wheel | B = 4,634 |

Empty weight $We = W_1 + W_2$ = 1741 [~~kg~~] or [lbs]

$$D = \frac{W_2 \cdot (A - 0.013) - W_1 (B + 0.013)}{We} = \quad [m] \longrightarrow D\% = \frac{D}{1.378} \cdot 100$$

$$D = \frac{W_2 \cdot (A - 0.043) - W_1 (B + 0.043)}{We} = 0{,}907 \quad [ft] \longrightarrow D\% = \frac{D}{4.520} \cdot 100 = 20{,}1\%$$

Empty weight moment: $M = (D \cdot We)$ = 1580 [m · ~~kg~~] or [ft · lbs]

| | | | |
|---|---|---|---|
| Maximum takeoff weight | $W_T$ = 2557 | [~~kg~~] or [lbs] | Signature |
| Empty weight | We = 1741 | [kg] or [lbs] | |
| Max. useful load $W_T$ - We | Wu = 816 | [kg] or [lbs] | |