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WEIGHT AND BALANCE FORM

Registration No.		Serial No.		Type	
Owner					
Address					
A.P.		A.P. No.		Date		Signature	

Instruments	ASI	Altimeter					
Instruments							
GPS		Water System		Fuel		Battery	
O2 system		Auxiliary instruments					

NB:

Parachutes and other items of personal equipment are not to be present in the sailplane during weighing: Fuel in Motorgliders as specified by manufacturer for determining weight and balance.

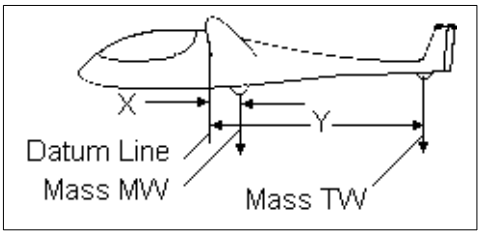
The distances X and Y (distance from main wheel and tail wheel / skid respectively to the datum point) must be accurately measured. This may be done easily using a plumb bob at the relevant reference point, ideally this should be measured from both sides of the aircraft and a mean value obtained from these values for use in the calculation.

	X (mm)	Y (mm)	Mass MW (kg)	Mass TW (kg)
Dimensions / Weight			6	

Calculation

$$CG(empty) = \frac{(MW(kg))\,x\,(X(mm)) + (TW(kg)\,x\,(Y(mm))}{(MW(kg)) + TW(kg))}$$

CG (empty) =



Permitted Forward Limit		Calculated C of G		Minimum cockpit		Front kg	NA	Rear kg	NA
Permitted rear limit		Total weight		Maximum cockpit		Front kg	NA	Rear kg	NA

Glossary of terms

Datum line	Reference line through leading edge or point ahead of leading edge (as per manufacturers specification. Any distance measured forward of the datum are taken as negative and those behind taken as positive.
Mass MW	Mass measured at the main wheel acting through axle
Mass TW	Mass measured at the tail wheel acting through axle or skid at point of contact
Dimension X	Distance from main wheel to datum
Dimension Y	Distance from tail wheel to datum
Levelling	All measurements are taken with sailplane levelled according to the manufacturer's manual.