FI_MFI_003 Revision nº. 02 Date: 04/09/2019	**WEIGHT AND BALANCE SHEET** **SUPER PETREL LS**	SCODA aeronáutica

Serial N°: S0387

WEIGHT AND BALANCE

	STATION (in)
DATUM (MAIN LANDING GEAR SHAFT)	0
PILOT	33
PASSENGER	33
FUEL	12
BAGGAGE	13
BALLAST	82,5
NOSE WHEEL	81

STANDARD OCCUPANT WEIGHT (lb)	190,0
STANDARD OCCUPANT WEIGHT (lb) (FOR MINIMUM FLYING WEIGHT)	120,0
AIRCRAFT'S FUEL CAPACITY (gal)	25,0
FUEL RESERVE CAPACITY (lb)	11,0
MAX. WEIGHT OF BAGGAGE (lb)	66,0

*ARMS POSITIVE IN FRONT OF DATUM

EMPTY WEIGHT C.G. (EWCG)

ITEM	WEIGHT (Lb)	ARM (in)	MOMENT (in.lb)
LEFT WHEEL	427,9	0	0,0
RIGHT WHEEL	423,5	0	0,0
NOSE	4,4	81	356,4
TOTAL	855,8		356,4

$$EWCG = \frac{\sum MOMENTS}{\sum WEIGHTS}$$

EWCG (in)	0,4

*INCLUDING ALL FLUIDS AND EQUIPMENTS ON EQUIPMENT LIST

FORWARD C.G.

ITEM	WEIGHT (Lb)	ARM (in)	MOMENT (in.lb)
EMPTY WEIGHT	855,8	0,4	356,4
PILOT	190,0	33	6270,0
PASSENGER	190,0	33	6270,0
FUEL	150,0	12	1800,0
BAGGAGE	44,2	13	574,6
MOVABLE BALLAST	0,0	82,5	0,0
TOTAL	1430,0		15271,0

$$CG = \frac{\sum MOMENTS}{\sum WEIGHTS}$$

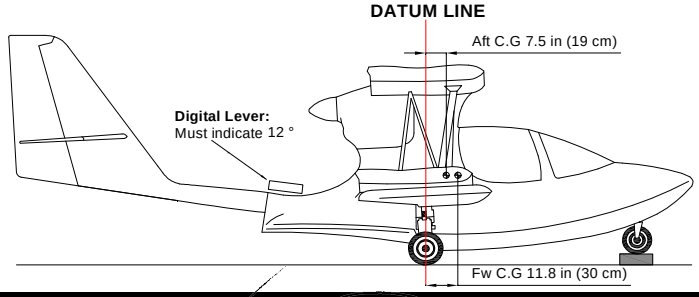
$CG_{FORWARD}$ (in)	10,7

AFT C.G.

ITEM	WEIGHT (Lb)	ARM (in)	MOMENT (in.lb)
EMPTY WEIGHT	855,8	0,4	356,4
PILOT	120,0	33	3960,0
PASSENGER	0,0	33	0,0
FUEL	11,0	12	132,0
BAGGAGE	0,0	13	0,0
MOVABLE BALLAST	39,4	82,5	3247,9
TOTAL	1026,2		7696,3

$$CG = \frac{\sum MOMENTS}{\sum WEIGHTS}$$

CG_{AFT} (in)	7,5



Responsible: Fernando Abbud

Date: October 06th, 2021