

Aircraft Serial Number

1431

ANNEX 5

WEIGHT AND BALANCE



SECTION 6

WEIGHT AND BALANCE

Serial No.	1431
Date of Weighing	14-Nov-13
Department	Quality Assurance
Name	Rick Breitenbach

Remarks
 {For Use with Pilatus Interior code # EX-6S-STD-2S Only}
 Installed Pilatus Executive Interior and Cabin Entertainment System
 Stair Lighting installed

	1. Weighing		2. Weighing	
Weight	[lb]	[kg]	[lb]	[kg]
Nose landing gear	811.31	368.00	811.31	368.00
LH main landing gear	2,925.55	1,327.00	2,925.55	1,327.00
RH main landing gear	2,912.32	1,321.00	2,912.32	1,321.00
Aft jacking point	0.00	0.00	0.00	0.00
Main Landing Gear	[in]	[mm]	[in]	[mm]
LH main landing gear shock absorber extension (Fig. 1)	9.06	230.00	8.98	228.00
RH main landing gear shock absorber extension (Fig. 1)	8.90	226.00	8.90	226.00
Distance main landing gear axle - wing jacking point (LH)	22.52	572.02	22.60	573.97
Distance main landing gear axle - wing jacking point (RH)	22.67	575.90	22.67	575.90
Nose Landing Gear	[in]	[mm]	[in]	[mm]
Nose landing gear shock absorber extension (Fig. 1)	2.76	70.00	2.87	73.00
Distance nose landing gear axle - wing jacking point	117.57	2,986.17	117.58	2,986.52
Distance to Reference Line	[in]	[mm]	[in]	[mm]
Reference line - nose landing gear (Fig. 2)	111.57	2,833.83	111.55	2,833.48
Reference line - LH main landing gear (Fig. 2)	251.65	6,392.02	251.73	6,393.97
Reference line - RH main landing gear (Fig. 2)	251.81	6,395.90	251.81	6,395.90
Reference line - aft jacking point	463.39	11,770.00	463.39	11,770.00
Basic Aircraft (Dry)	Average 1st and 2nd weighing		Average 1st and 2nd weighing	
Total aircraft weight	6649.18	[lb]	3016.00	[kg]
Total aircraft moment (Moments)	1560192.59	[lb-in]	17975.27	[kg-m]
C.G. Arm (distance) (Fig. 2)	234.64	[in]	5.96	[m]
C.G. Arm (%MAC)	33.63	[%MAC]	33.63	[%MAC]
Basic Aircraft (incl. 14.9 kg unusable fuel)	Average 1st and 2nd weighing		Average 1st and 2nd weighing	
Total aircraft weight	6682.03	[lb]	3030.90	[kg]
Total aircraft moment (Moments)	1567604.15	[lb-in]	18060.66	[kg-m]
C.G. Arm (distance)	234.60	[in]	5.96	[m]
C.G. Arm (%MAC)	33.56	[%MAC]	33.56	[%MAC]

Model: PC-12/47E	Serial No.: 1431		Registration No.: N56KJ		Date: 14-Nov-13	
Item	Weight		C.G. Arm		Moment	
	[lb]	[kg]	[in]	[m]	[lb·in]	[kg·m]
1. Weight, C.G. Arm, Moment (Fig. 6-1)	6649.18	3016.00	234.64	5.96	1560192.59	17975.27
2. Unuseable fuel (MSN 141 and up)	32.90	14.90	225.60	5.73	7422.00	85.39
3. Optional equipment, if applicable	0.00	0.00	0.00	0.00	0.00	0.00
4. Optional equipment, if applicable	0.00	0.00	0.00	0.00	0.00	0.00
5. Optional equipment, if applicable	0.00	0.00	0.00	0.00	0.00	0.00
6. Total Basic Empty Weight, Resulting C.G. Arm, Total Moment (sum 1 through 5)	6682.03	3030.90	234.60	5.96	1567604.15	18060.66

AIRPLANE USEFUL LOAD - NORMAL CATEGORY OPERATION

Maximum Ramp Weight	-	Basic Empty Weight	=	Useful Load
10495.00 [lb]	-	6682.03 [lb]	=	3812.97 [lb]
4760.00 [kg]	-	3030.90 [kg]	=	1729.10 [kg]

The Basic Empty Weight, C.G., and Useful Load are for the airplane following modifications by Pilatus Business Aircraft LTD FAA Certified Repair Station Number ZP8R849Y.

Refer to Figure 6-3 "Weight and Balance Record" when further modifications to the airplane have been made.