TTT- Aviation Oy Ltd.
Nordicflite Oy Ltd

W&B / Performance calculation
C152 OH-CLE 25.1.2015

Date: _____ / _____ / _____

PIC: _____ Student: _____

PAX: _____

Route: _____

Filed by: _____

Approved by:_____

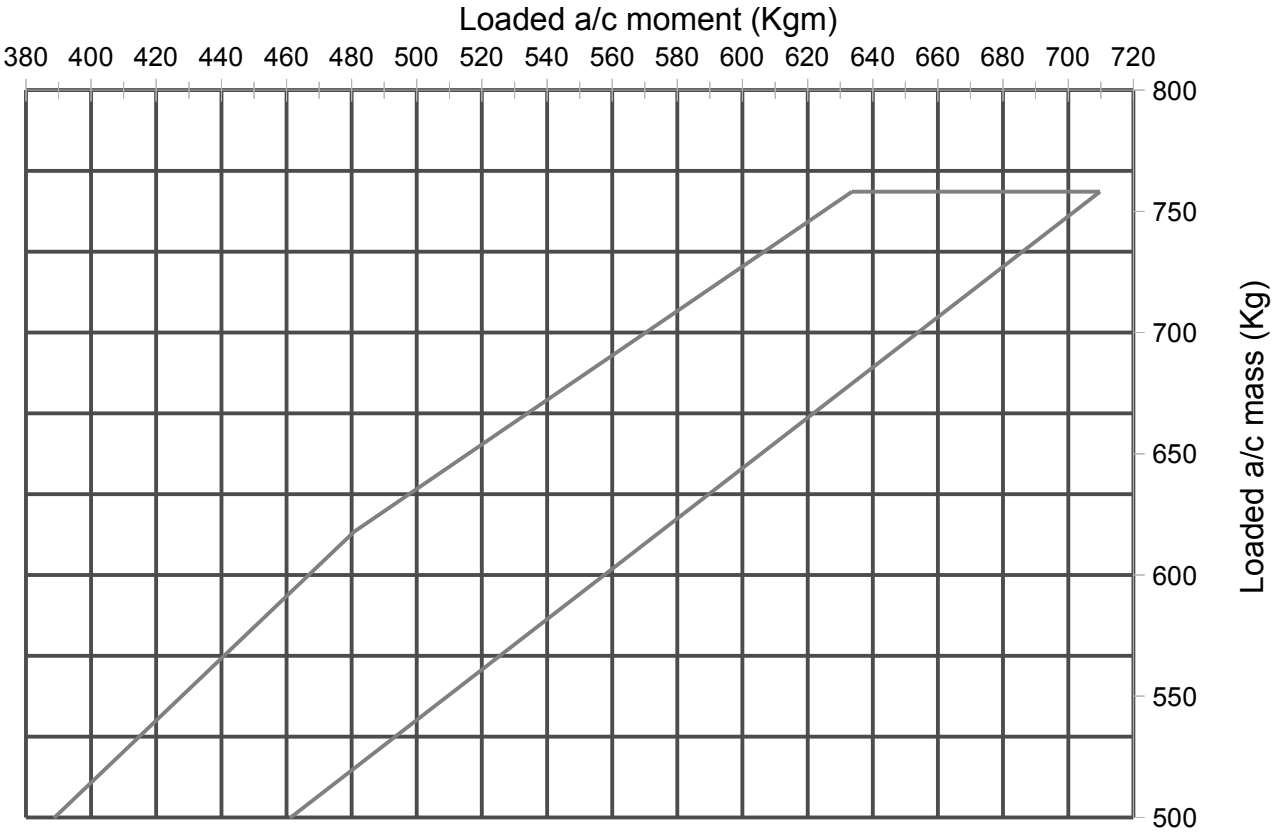
WEIGHT & BALANCE			
	MASS	ARM	MOM. (Kgm)
BASIC WEIGHT (BW)	545,5	-	422,9
FRONT SEATS		1	
BAGGAGE AREA 1 (max 54 kg)		1,63	
BAGGAGE AREA 2 (max 18 kg)		2,13	
ZERO FUEL WEIGHT		-	
FUEL (max 64,9 kg)		1,06	
RAMP WEIGHT		-	
TAXI FUEL	- 2	1,06	- 2,1
TAKE-OFF WEIGHT		-	
ROUTE FUEL		1,06	
LDG WEIGHT AT DEST.		-	

BASIC DATA					
A/C	MTOW - kg	BW - kg	Usable fuel	Max. fuel	MOM - kgm
OH-CLE	758	545,5	90,2 / 64,9 kg	98 l / 70,6 kg	422,9

SEATS 1 & 2	
MASS	MOM.
kg	kgm
50	50
55	54
60	59
65	64
70	69
75	74
80	79
85	84
90	89
95	94

BAGGAGE (max 54 kg)		
MASS	MOM - kgm	
kg	Fwd	Aft
2	3	4
4	7	9
6	10	13
8	13	17
10	16	21
18	29	38
30	49	-
40	65	-
50	82	-
54	88	-

FUEL		
Amount	Mass	Moment - kgm
liters	kg	
5	3,6	3,8
10	7,1	7,5
20	14,2	15,0
30	21,3	22,6
40	28,4	30,1
50	35,5	37,6
60	42,6	45,1
70	49,7	52,6
80	56,8	60,2
90	63,9	67,7
98	70,6	74,8
Consumption	24 L/H	



CESSNA 152 TAKE-OFF DISTANCE / SHORT FIELD

CONDITIONS:
Flaps 10° / Max. power before brake release / Dry, level hard surface runway / Wind calm

NOTES:
1. Take-off using short field technique
2. Before take-off at or over 3000 ft altitude, mixture should be leaned to afford maximum power
3. Decrease distances by 10 % for each 9 kts of headwind. When departing in a tailwind up to 10 kts, increase distances by 10 % for each 2 kts of tailwind.
4. When operating on a dry grass runway, increase ground roll by 15 %

MASS kg 757	LIFT-OFF SPEED / SPEED @ 15m / 50 ft 50 54 KIAS	PRESSURE ALTITUDE ft	0° C		10° C		20° C		30° C		40° C	
			GND ROLL m	15 m / 50 ft m	GND ROLL m	15 m / 50 ft m	GND ROLL m	15 m / 50 ft m	GND ROLL m	15 m / 50 ft m	GND ROLL m	15 m / 50 ft m
		0	195	363	212	393	230	424	247	456	267	489
		1000	215	399	233	433	251	466	271	501	293	539
		2000	236	440	256	477	277	515	299	555	322	597
		3000	261	488	282	527	305	570	329	616	355	666
		4000	287	541	311	585	335	634	363	686	392	744
		5000	317	600	343	652	370	707	401	770	344	838
		6000	349	671	379	730	410	796	443	870	479	953

CESSNA 152 LANDING DISTANCE / SHORT FIELD

CONDITIONS:
Flaps 30° / Idle power / Max. braking / Dry, level hard surface runway / Wind calm

NOTES:
1. Landing using short-field technique as described in POH section IV
2. Decrease distance by 10 % for 9 kts of headwind. When landing in a tailwind up to 10 kts, distances should be decreased by 10 % for each 2 kts of tailwind.
3. When operating on a dry grass runway, increase ground roll by 45 %.
4. If landing should be performed without flaps, increase approach speed by 7 KIAS and landing distance by 35 %.

MASS kg 757	LIFT-OFF SPEED / SPEED @ 15 m / 50 ft KIAS 50 54	PRESSURE ALTITUDE ft	0° C		10° C		20° C		30° C		40° C	
			GND ROLL m	15 m / 50 ft m	GND ROLL m	15 m / 50 ft m	GND ROLL m	15 m / 50 ft m	GND ROLL m	15 m / 50 ft m	GND ROLL m	15 m / 50 ft m
		0	137	354	142	362	148	370	152	378	157	386
		1000	142	361	148	370	152	378	158	387	163	316
		2000	148	370	152	378	158	387	163	396	169	405
		3000	152	378	158	389	165	398	171	407	175	415
		4000	158	389	165	398	171	407	177	418	183	427
		5000	165	398	171	407	177	418	183	427	189	437
		6000	171	408	177	418	184	430	191	439	197	450

Departure		Destination	
QNH		QNH	
TEMPERATURE		TEMPERATURE	
PRESSURE ALTITUDE (at AD)		PRESSURE ALTITUDE (at AD)	
TAKE-OFF RUN AVAILABLE		LANDING RUN AVAILABLE	
GROUND ROLL REQUIRED @ TAKE-OFF		GROUND ROLL REQUIRED @ LANDING	
TAKE-OFF DISTANCE TO CLEAR 50 FT OBSTACLE		LANDING DISTANCE REQUIRED TO CLEAR 50 FT OBSTACLE	
EXPECTED RUNWAY, WIND, CROSSWIND, HEADWIND COMPONENT		EXPECTED RUNWAY, WIND, CROSSWIND, HEADWIND COMPONENT	

Personal maximun crosswind component (kts)	

MAXIMUM CROSSWIND COMPONENT OH-CLE 12 KTS

RUNWAY AVAILABLE

EFHF 18/36 TORA = TODA = 1280 m, LDA 18 = 1080 m, LDA 36 = 1160 m
EFHF 09/27 TORA = TODA = 1024 m, LDA 09 = 1024 m, LDA 27 = 985 m
EFTP 06/24 TORA = TODA = LDA = 2700 m
EFTU 08/26 TORA = TODA = LDA = 2500 m
EFLP 06/24 TORA = TODA = LDA = 2500 m

25.1.2015