

Mass & Balance Sheet and Performance Calculations for DA40-NG Rev 2.3

FLIGHT ACADEMY								
Date:		Tail Number:			Callsign:	Route:	·	
	Mass (Kg)	Lever arm (m)	Mo	oment (Kg/m)		of Gravity Positio		
Empty Mass					94 95 96	97 98	99 100 If MÄM 40-574	0 101
Front Seats		2.300			1310		is carried out	
Rear Seats		3.250			1280			
Std. Baggage		3.650			」			
Short Extension		3.970			1216			
Baggage Ext. FWD		3.890			9 1150			
Baggage Ext. AFT		4.540			Hight Mass (kg) 1150 — — — — — — — — — — — — — — — — — — —			
Zero Fuel Mass					ight 1080 — 1080			
Fuel Carried		2.630						
Taxi Fuel	- 0.64	2.630	- 1.683		1000			
Takeoff Mass								
Trip Fuel Used -		2.630		-	940	242 242		
Landing Mass					2.40 2.42 2.44	2.46 2.48 of Gravity Positio	2.50 2.52 2.53	4 2.56 ≥ 2000
1USG = 3.78	5L 1USG JET-A	A1 = 3.18Kg Std - 89	Kg Li	R - 124Kg	Cerner	or Gravity i ositio		
T/O Distan	ce:	l M	eters	(Ground roll Ove	r 50ft. Obstacle ; Without fairings)		V Speed	S
Initial Climb Rate:		Ft'/M		(Without fairings)		VR	Vo	
Cruise Climb Rate:		Ft'/Mi		(Without fairings)		V 50	Vs	UP
LDG Distance:		Meter		(Ground roll Ove	r 50 ft. obstacle)	VY	Vs	т/О
Accelerate-Stop:		Meters		ers [T/O Ground Roll + 70m + LDG Ground Roll]		VREF	- Vso)
Fuel Calculations Local - 70%		Local - 70% @ 6.1 G	6.1 GPH		Name	Mass (Va)	ass (Kg) PIC Approval	
Trip		Traffic Pattern - 60% @ 5.1 G	ıel	T	Name	Mass (Kg)	PIC A	pprovai
(Block Time	Reserve	Extra Required	Front	Instructor			License Nº:	
Time				Student				
USG			Rear	्र Observer			Signature:	
Kg			11 6 7	Bags				