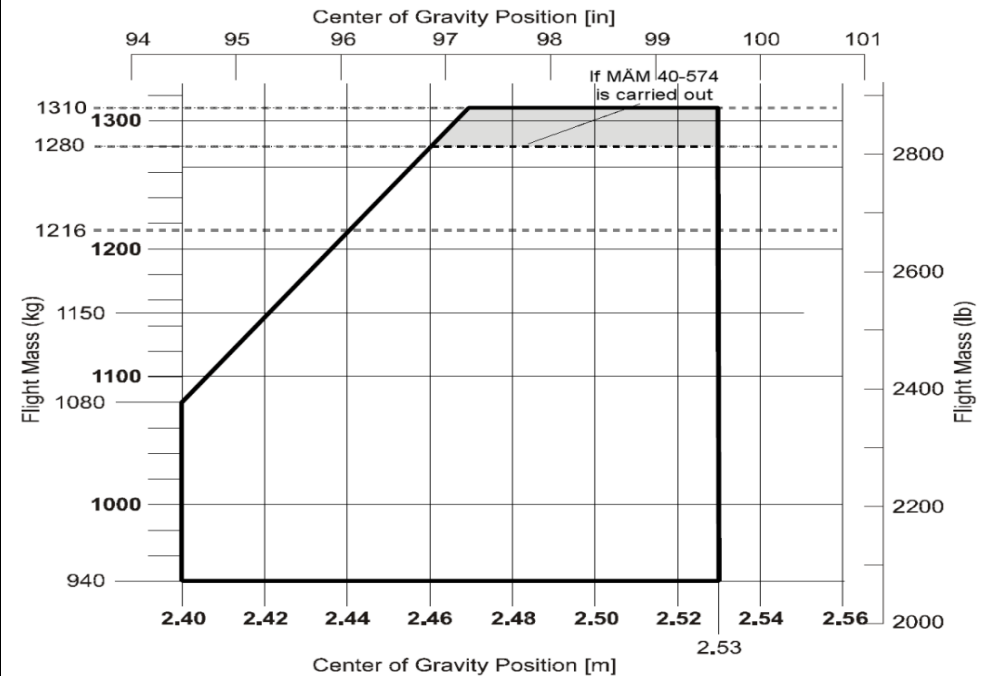


Mass & Balance Sheet and Performance Calculations for DA40-NG Rev 2.3

Date: _____ Tail Number: _____ Callsign: _____ Route: _____

	Mass (Kg)	Lever arm (m)	Moment (Kg/m)
Empty Mass			
Front Seats		2.300	
Rear Seats		3.250	
Std. Baggage		3.650	
Short Extension		3.970	
Baggage Ext. FWD		3.890	
Baggage Ext. AFT		4.540	
Zero Fuel Mass			
Fuel Carried		2.630	
Taxi Fuel	- 0.64	2.630	- 1.683
Takeoff Mass			
Trip Fuel Used	-	2.630	-
Landing Mass			
1USG = 3.785L 1USG JET-A1 = 3.18Kg Std - 89Kg LR - 124Kg			



T/O Distance:		Meters	(Ground roll Over 50ft. Obstacle ; Without fairings)	V Speeds			
Initial Climb Rate:		Ft'/Min	(Without fairings)	V _R		V _O	
Cruise Climb Rate:		Ft'/Min	(Without fairings)	V ₅₀		V _{S UP}	
LDG Distance:		Meters	(Ground roll Over 50 ft. obstacle)	V _Y		V _{S T/O}	
Accelerate-Stop:		Meters	[T/O Ground Roll + 70m + LDG Ground Roll]	V _{REF}	-	V _{S0}	

Fuel Calculations		Local - 70% @ 6.1 GPH Traffic Pattern - 60% @ 5.1 GPH			Front Seats	Name		Mass (Kg)	PIC Approval	
	Trip (Block Time)	Reserve	Extra	Minimum Fuel Required		Instructor			License N°:	
Time					Rear Seats	Student			Signature:	
USG						Observer				
Kg						Bags				