

WEIGHING REPORT

Model: DA 40 NG Serial Number: **40.N329** Registration: _____

Data with reference to the Type Certificate Data Sheet and the Airplane Flight Manual.

Reference Plane: Vertical plane 2194 mm (86.38 in) in front of the leading edge of wing at the root rib.

Horizontal reference line: Wedge 600:31 (2.96°), 2910mm (114.57 in) aft of the step in the cockpit trim.

Equipment Inventory - dated: 27. Mär. 17 Cause for Weighing: Production

Weight and Balance Calculations (Weighing at the wheels)

Weight Condition: Include brake fluid, engine oil (MAX level), coolant, and unusable fuel (2 x 1 US gal / 2 x 3.8 liters).

Support	Gross	Tare	Net	Lever Arm	
MAIN G _{1LH}	389,5 kg	0 k	389,5 kg	X _{1LH} =	2735 mm
MAIN G _{1RH}	395.5 kg	0 k	395,5 kg	X _{1RH} =	2735 mm
NOSE G ₂	139 kg	0 k	139 kg	X ₂ =	884.5 mm
Empty Weight			924 kg		

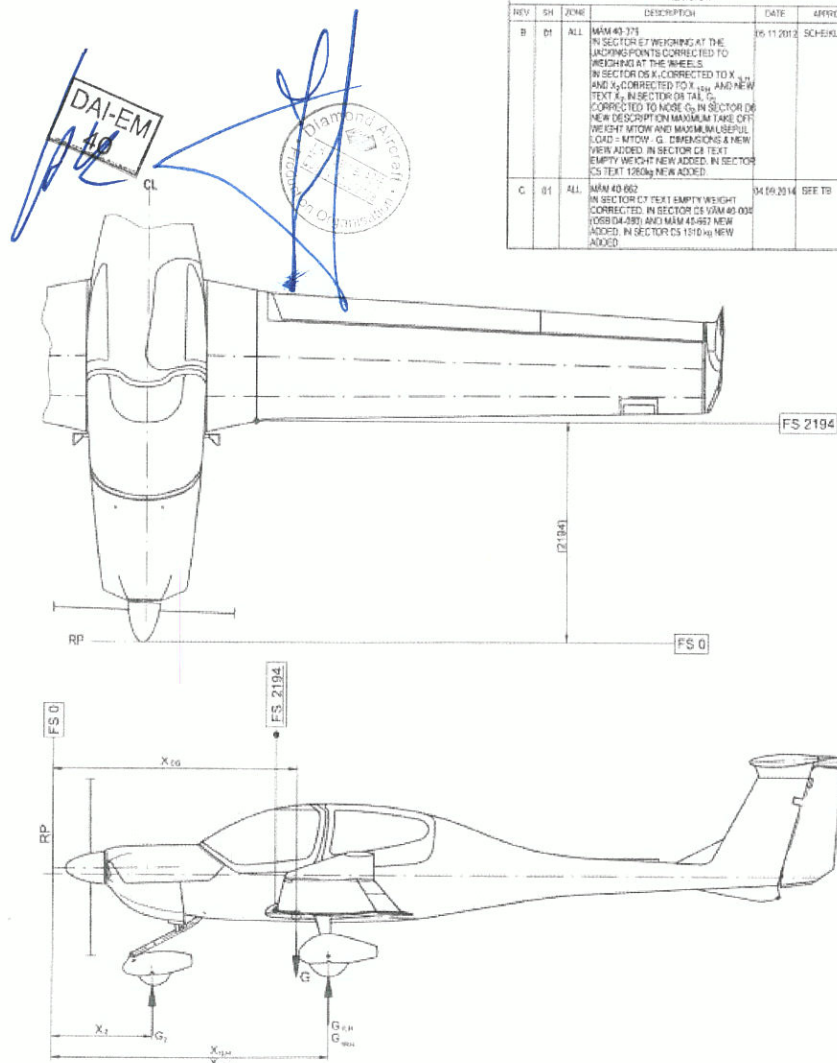
Calculate the Empty Weight, $G = \text{MAIN } G_{1LH} + \text{MAIN } G_{1RH} + \text{NOSE } G_2$. <i>Empty Weight must be between 849,5kg and 958,5kg.</i> <i>If MÄM 40-662 is installed. Empty Weight must between 849,5kg and 988,5kg.</i>	G = 924 kg
Calculate the Empty Weight Moment, $M = ((G_{1LH} + G_{1RH}) * X_1) + (G_2 * X_2)$.	M = 2269,5 kgm
Calculate the Empty Weight Center-of-Gravity position, $X_{CG} = M/G$.	X_{CG} = 2,456 m
Maximum Take Off Weight MTOW	VÄM 40-004 (OSB D4-080) 1280 kg MÄM 40-662 1310 kg
Maximum useful load = MTOW - G.	386 kg

Record the Empty Weight (G) and the Empty-Weight Moment (M) in the Airplane Flight Manual.

Place/Date	Authorizing Stamp	Authorizing Signature
Wr. Neustadt 30. Mär. 17		

Trim of Empty Weight Center-of-Gravity Position:

Mass Trim Weight in kg:	0	New Empty Weight in kg:	924
Moment Arm in m:	7,214	New Empty Weight Moment in kgm:	2269,5
Moment Trim Weight in kg	0,0	New Empty Weight CG in m:	2,46
Date/Trim:		performed by:	



REV	SH	ZONE	DESCRIPTION	DATE	APPROVAL
B	01	ALL	MÄM 40-775 IN SECTOR E7 WEIGHING AT THE LANDING POINTS CORRECTED TO WEIGHING AT THE WHEELS IN SECTOR OS K, CORRECTED TO X _{1LH} AND X _{1RH} CORRECTED TO X _{1LH} AND NEW TEXT X ₁ IN SECTOR ON TAL G ₂ CORRECTED TO NOSE G ₂ IN SECTOR D6 NEW DESCRIPTION MAXIMUM TAKE OFF WEIGHT MTOW AND MAXIMUM USEFUL LOAD - MTOW - G ₂ DIMENSIONS & NEW VIEW ADDED IN SECTOR C8 TEXT EMPTY WEIGHT NEW ADDED IN SECTOR C5 TEXT 1280kg NEW ADDED	26.11.2012	SCH-EL
C	01	ALL	MÄM 40-662 IN SECTOR C7 TEXT EMPTY WEIGHT CORRECTED. IN SECTOR C6 VÄM 40-004 (OSB D4-080) AND MÄM 40-662 NEW ADDED. IN SECTOR C5 1310kg NEW ADDED	04.09.2014	GEE TB

DIMENSIONS: METRIC	IDENTIFICATION MARKING: DP-S-17-00001	Diamond Aircraft Industries N. A. Otto-Straße 5 A-2700 Wiener Neustadt	
FIRST ANGLE PROJECTION: A2	CLASSIFICATION: NONE	DEPARTMENT: Schuster	DATE: 16.03.2017
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM	INTERCHANGEABLE PART: NO	CHECKED: Genster	PROJECT: DA 40 NG
DIMENSION TOLERANCES: 2 DECIMAL ±0.25, 3 DECIMAL ±0.15, DECIMAL ±0.1, HOLE ±0.1	THIS DRAWING WAS PRODUCED USING SOFTWARE: SOLID EDGE ST6	OR: N/A	TITLE: WEIGHING REPORT (WEIGHING AT THE WHEELS)
	FILENAME: D44-0810-00-00c.dft	STRESS: Krassnik	DRAWING: DAIA
		MANUF: N/A	DWGNO: D44-0810-00-00
		SYSTEM: N/A	SCALE: NTS
		APPROVED: Scheibl	REV: C
			CODE: 710197
			SH: 01 OF 01