

LOAD and BALANCE SHEET / FLIGHT RELEASE

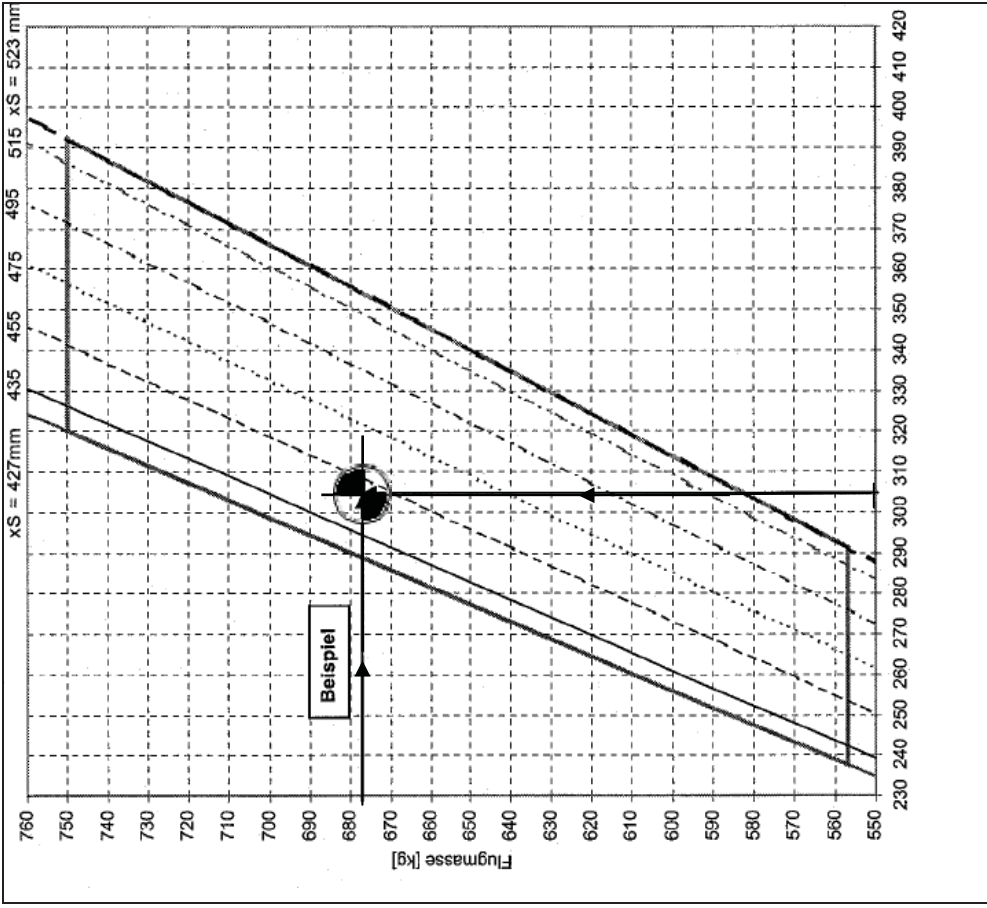
ALL WEIGHTS IN KILOGRAMMS



OPS TYPE: [4] [5] [5S] [5SP] [7W] A/C REG: **O E** A/C TYPE: **A 2 1 0** DATE OF FLT: EOBT UTC:
 STUDENT (SPIC): SESSION IDENT: CDR/PIC/FI:
 DEPARTURE: DESTINATION: ALTERNATE 1: ALTERNATE 2: MINIMUM FUEL:
 OAT °C: QNH [HPA]: RWY/INTERSECTION/CONDITION: TODA / TODR:
 [] DRY [] WET /
 d d m m y y

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LOAD & BALANCE	WEIGHT [kg]	x ARM [m]	= MOMENT [kgm]
BASIC EMPTY MASS AND MOMENT			
COCKPIT SEATS +		0,515	
BAGGAGE CPT +		1,3	
ZERO FUEL CONDITIONS =			
TAKEOFF FUEL (0,72kg / L) +		0,325	
TAKEOFF CONDITIONS =			
MAX	7 5 0		
TRIP FUEL (0,72kg / L) -		0,325	
LANDING CONDITIONS =			
MAX	7 5 0		



CHECKED/PREPARED BY (SIGNATURE): APPROVED BY* (COMMANDER/FI)

Master Weight & Balance Info Sheet

Aquila A210

OE-CSS
OE-CVV

OE-CUU
OE-CYY



AIRCRAFT BASIC DATA

OE-CSS		
Crew	BEW	BEM
0	509	219
Crew	DOW	DOM
1	588	303
2	667	344

OE-CUU		
Crew	BEW	BEM
0	512	220
Crew	DOW	DOM
1	591	304
2	670	345

OE-CVV		
Crew	BEW	BEM
0	526	231
Crew	DOW	DOM
1	605	312
2	684	352

OE-CYY		
Crew	BEW	BEM
0	514	216
Crew	DOW	DOM
1	593	305
2	672	346

Abbreviations:

BEW: Basic Empty Weight
BEM: Basic Empty Moment
DOW: Dry Operating Weight
DOM: Dry Operating Moment
MTOW: Max. Take Off Weight
MLW: Max. Landing Weight

DRY OPERATING LOAD

COCKPIT SEATS		
Weight	Occupants	Moment
70		36
79	1P	41
80		41
90		46
100		52
108	1P+1C	56
110		57
120		62
130		67
140		72
150		77
158	2P	81
159	1P+1F	82
160		82
170		88
177	1P+1M	91
180		93
190		98
200		103

Source: EU OPS 1.610

Pilot: 79 kg (85 kg - 6 kg Baggage)
Male: 98 kg (104 kg - 6 kg Baggage)
Female: 80 kg (86 kg - 6 kg Baggage)
Child (2 to <12y): 29 kg (35 kg - 6 kg Baggage)
Infant (>0 to <2y): 0 kg

USEFUL LOAD

USEABLE FUEL				
Fuel Level	Useable Fuel (Liter)	Useable Fuel (Kg)	Moment	Endurance (Fuel Flow 22 l/hr = 21, 4 + Safety Margin)
	5	4	1	00:12
	10	7	2	00:30
	15	11	4	00:42
	20	14	5	00:54
1/4	25	18	6	01:06
	30	22	7	01:24
	35	25	8	01:36
	40	29	9	01:48
	45	32	11	02:00
	50	36	12	02:18
1/2	55	40	13	02:30
	60	43	14	02:42
	65	47	15	03:00
	70	50	16	03:12
	75	54	18	03:24
	80	58	19	03:36
3/4	85	61	20	03:54
	90	65	21	04:06
	95	68	22	04:18
	100	72	23	04:30
	105	76	25	04:46
FULL	110	79	26	05:00

BAGGAGE	
Weight	Moment
5	7
10	13
15	20
20	60
25	33
30	39

Fuel Flow: (acc. POH)

55% Power / 3000 ft: 15,5 l/h
65% Power / 3000 ft: 16,4 l/h
75% Power / 3000 ft: 21,4 l/h
85% Power / 3000 ft: 22,0 l/h