



### MASS & BALANCE

A/C Type	T.Registration	S.N.	Flight Type
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ELITALIANA S.p.A.Via Salaria  
2061 - 00138 - ROMA

AW-109 S	I-PNTD	22140	EMS
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Masses	Kg	CG Long.	MM Long.	CG Lat.	MM Lat.	Note
Dry Mass	2198	3444.63	7571296.48	15.76	34640.48	
Pilot mass	85	1385	117725	335	28475	
Copilot mass	85	1385	117725	-325	-27625	
Consumable loads	10	4280	42800	0	0	
<b>Dry operating Mass</b>	<b>2378</b>	<b>3300.9</b>	<b>7849546.48</b>	<b>14.92</b>	<b>35490.48</b>	

Spinning seat (DOCTOR)	85	2210	187850	304.8	25908	
Right fixed seat (ASSISTANT)	85	3492	296820	450	38250	
Central fixed seat	0	3492	0	0	0	
Stretcher section	0	2869	0	-450	0	
<b>Passengers Load</b>	<b>170</b>	<b>2851</b>	<b>484670</b>	<b>377.4</b>	<b>64158</b>	
Cabin load	32	2690.75	86104	-281.25	-9000	
Baggage Load	47.5	5767	273932.5	0	0	
Rescue Hoist Load	0	3190	0	953.5	0	
Floats (57,54)	0	3543	0	0	0	
<b>Traffic Load</b>	<b>249.5</b>	<b>3385.6</b>	<b>844706.5</b>	<b>221.07</b>	<b>55158</b>	

<b>C</b>	<b>Zero Fuel Load Tot (A+B)</b>	<b>2627.50</b>	<b>3308.94</b>	<b>8694252.98</b>	<b>34.50</b>	<b>90648.48</b>
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<b>D1</b>	<b>Principal Fuel Tank</b>	<b>500</b>	<b>3922.00</b>	<b>1961000.00</b>	<b>58000.00</b>	<b>29000000.00</b>
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<b>D</b>	<b>TOT Fuel Load</b>	<b>500</b>	<b>3922.00</b>	<b>1961000.00</b>	<b>58000.00</b>	<b>29000000.00</b>
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<b>E</b>	<b>Trip and Taxi Fuel</b>	<b>230.619</b>	<b>3666</b>	<b>955404.46</b>	<b>14248</b>	<b>21776844.68</b>
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<b>F</b>	<b>Remaining Fuel Load(D-E)</b>	<b>269.38</b>	<b>3733</b>	<b>1005595.54</b>	<b>26814</b>	<b>7223155.32</b>
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<b>G</b>	<b>TO Mass Tot (C+D)</b>	<b>3127.50</b>	<b>3406.96</b>	<b>10655252.98</b>	<b>9301.57</b>	<b>29090648.48</b>
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<b>H</b>	<b>Final MIX LDG M.&amp; M.</b>	<b>2910.72</b>	<b>3381.50</b>	<b>9842611.39</b>	<b>2512.71</b>	<b>7313803.80</b>
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<b>Helicopter Tecnical Logbook</b>	<b>Standard Variant Id.</b>	<b>Filled up by:</b>		<b>Commander:</b>	
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<b>HTL n°</b>		<b>Hospital Flight Type</b>	Melillo	Melillo
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<b>Page n°</b>		<b>EMS</b>	Signature:		
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<b>Flight n°</b>		<b>BASE ELISOCORSO DI:</b>		<b>Date</b>	06/12/2014
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### OPERATIVE FLIGHT PLAN

SELECT AWG SPEED:  
90

DEPARTURE BASE AND ENROUTE DATA		PRUA	FREQ. RADIO AIDS	INS. W.P. NAME OR ICAO CODE
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<b>DEPT 1° LEG</b>	LIRV	Degrees		
	N 42° 25' 49" E 12° 3' 51"	NM		
<b>2° LEG</b>	LIRA	148°		
	N 41° 47' 58" E 12° 35' 50"	45		
<b>3° LEG</b>	LIRG	28°		
	N 41° 59' 46" E 12° 44' 5"	13		
<b>4° LEG</b>	LIRV	311°		
	N 42° 25' 49" E 12° 3' 51"	40		

#### INFO WAYPOINTS AND ENROUTE NOTES

AVERAGE CONS kg/min	ESTIMATE ENDURANCE (MINUTES OF FLIGHT)					FLIGHT TIME min		
	INITIAL FUEL LOAD KG		ENDURANCE h min.		Res VFR	Res VFRN	MAX	REST
3.335	500		2	29	23	27	127	62
LEG	(min)	(Kg)	(Kg)	(Kg)	(Kg)	(min)	0	0
N°	E.E.T.	Estimated necessary fuel	Estimated residual fuel	Real residual fuel	Real fuel consumption	E.T.E.	Start up time	Stop time
2	30	100	400	0	0	0	00:00	00:00
3	9	30	370	0	0	0	00:00	00:00
4	26	87	283	0	0	0	00:00	00:00
<b>TOT</b>	<b>65</b>	<b>231</b>	<b>283</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>TOTAL FLIGHT TIME</b>	

MASS KG	1° LEG	2° LEG	3° LEG	Warnings
<b>ZERO FUEL LOAD</b>	2627.5	2627.5	2627.5	Exceeded limits
<b>RESERVE+CONT. F</b>	71.70	68.20	71.04	Limits ok
<b>RE-FUEL</b>		0	0	FUEL
<b>LOAD (patient)</b>	0	0	0	Fill in flight
<b>RESIDUAL PAY LOAD</b>	47.5	147.55	177.57	Residual P.L. x 3175 Kg
<b>TAKE OFF MASS</b>	3127.50	3027.45	2997.43	TO/LDG Mass OK (3175 Kg) check FM for Cat. A TO/LDGS
<b>LANDING MASS</b>	3027.45	2997.43	2910.72	