

	FLIGHT PLANNING		2.05.40	P 1
	QUICK DETERMINATION OF F-PLN		SEQ 100	REV 19

INTRODUCTION

The following flight planning tables allow the planner to determine trip fuel consumption and trip time required to cover a given air distance.

These tables are established for :

- Takeoff
- Climb profile : 250kt/300kt/M.82
- Cruise Mach number : M.80/M.82/M.84/LR
- Descent profile : Cruise Mach number/300kt/250kt
- Approach and landing : 450 kg – 6 minute IFR
- ISA
- CG = 37 %
- Normal air conditioning
- Anti ice OFF

They are based upon a reference landing weight of 220 000 kg.

- Note :**
1. In the tables, the asterisk (*) means that a step climb of 4000 feet must be flown to reach the corresponding FL.
 2. To obtain a flight plan at optimum cruise level, the highest flight level desired within the flight has to be selected in the table.
 3. For each degree Celsius above ISA temperature apply fuel correction $0.015 \text{ (kg}^\circ\text{C/NM)} \times \Delta \text{ ISA}(\text{}^\circ\text{C}) \times \text{air distance (NM)}$.

CORRECTION FOR DEVIATION FROM REFERENCE LANDING WEIGHT

The fuel consumption must be corrected when the actual landing weight is different from the reference landing weight.

If it is lower (or greater) than the reference landing weight, subtract (or add) the value given in the correction part of the table per 1000 kg below (or above) the reference landing weight.

EXAMPLE

TO BE ISSUED LATER

virgin atlantic A340-600 <i>Flight Crew Operating Manual</i>	FLIGHT PLANNING QUICK DETERMINATION OF F-PLN		2.05.40	P 2
			SEQ 080	REV 19

TO BE ISSUED LATER

 A340-600 Flight Crew Operating Manual	FLIGHT PLANNING		2.05.40	P 3
	QUICK DETERMINATION OF F-PLN		SEQ 060	REV 19

FLIGHT PLANNING FROM BRAKE RELEASE TO LANDING CLIMB : 250KT/300KT/M.82 - CRUISE : M.80 - DESCENT : M.80/300KT/250KT IMC PROCEDURE : 450 KG (6MIN)									
REF. LANDING WEIGHT = 220000 KG NORMAL AIR CONDITIONING ANTI-ICING OFF				ISA CG = 37.0 %		FUEL CONSUMED (KG)			
AIR DIST. (NM)	FLIGHT LEVEL						CORRECTION ON FUEL CONSUMPTION (KG/1000KG)		
	310	330	350	370	390	410	FL310 FL330	FL350 FL370	FL390 FL410
200	5178 0.38	5170 0.38	5175 0.38				12	13	
300	6789 0.51	6701 0.51	6635 0.52	6594 0.52	6589 0.52	6610 0.51	15	17	20
400	8406 1.04	8237 1.04	8100 1.05	8003 1.05	7969 1.05	7989 1.05	18	21	26
500	10026 1.17	9779 1.17	9571 1.18	9418 1.18	9355 1.18	9378 1.18	22	25	33
600	11650 1.30	11325 1.30	11046 1.31	10837 1.31	10748 1.31	10776 1.31	25	29	39
700	13279 1.43	12877 1.43	12527 1.44	12263 1.44	12148 1.44	12183 1.44	28	33	46
800	14914 1.55	14433 1.56	14012 1.57	13694 1.57	13555 1.57	13601 1.57	31	38	53
900	16554 2.08	15995 2.09	15504 2.10	15133 2.10	14970 2.10	15031 2.10	35	42	61
1000	18198 2.21	17562 2.22	17000 2.23	16578 2.23	16394 2.23	16478 2.23	38	46	68
1100	19847 2.34	19133 2.35	18502 2.36	18030 2.36	17824 2.36	17933 2.36	42	50	76
1200	21501 2.47	20710 2.48	20009 2.49	19488 2.49	19262 2.49	19400 2.49	45	55	84
1300	23160 2.59	22292 3.01	21521 3.02	20952 3.03	20707 3.02	20879 3.02	49	59	92
1400	24824 3.12	23879 3.13	23038 3.15	22423 3.16	22160 3.16	22370 3.15	52	64	100
1500	26493 3.25	25472 3.26	24562 3.28	23901 3.29	23622 3.29	23876 3.29	56	69	109
1600	28167 3.38	27070 3.39	26090 3.41	25385 3.42	25110 3.42	25395 3.42	60	73	116
1700	29845 3.51	28672 3.52	27624 3.54	26876 3.55	26592 3.55	26927 3.55	63	78	123
1800	31532 4.03	30281 4.05	29164 4.07	28374 4.08	28083 4.08	28473 4.08	67	84	129
1900	33227 4.16	31895 4.18	30709 4.20	29878 4.21	29582 4.21	30032 4.21	71	89	136
2000	34926 4.29	33515 4.31	32261 4.33	31390 4.34	31091 4.34	31607 4.34	75	94	143
2100	36632 4.42	35141 4.44	33819 4.46	32947 4.47	32619 4.47	33202 4.47	78	100	150
2200	38342 4.55	36771 4.57	35383 4.59	34482 5.00	34157 5.00	34813 5.00	82	106	157
2300	40059 5.07	38407 5.10	36952 5.12	36025 5.13	35706 5.13	36398 5.13*	86	111	164
2400	41781 5.20	40049 5.23	38527 5.25	37576 5.27	37265 5.27	37951 5.27*	90	116	171
2500	43509 5.33	41696 5.36	40152 5.38	39134 5.40	38835 5.40	39513 5.40*	94	122	178
2600	45243 5.46	43349 5.49	41745 5.51	40702 5.53	40418 5.53	41085 5.53*	99	127	185
2700	46982 5.59	45007 6.01	43345 6.04	42278 6.06	42012 6.06	42666 6.06*	103	132	192
PACK FLOW LO ΔFUEL = - 0.3 %		PACK FLOW HI/OR/ AND CARGO COOL ON ΔFUEL = + 2 %			ENGINE ANTI ICE ON ΔFUEL = + 2 %		TOTAL ANTI ICE ON ΔFUEL = + 5 %		

	FLIGHT PLANNING		2.05.40	P 4
	QUICK DETERMINATION OF F-PLN		SEQ 060	REV 19

FLIGHT PLANNING FROM BRAKE RELEASE TO LANDING CLIMB : 250KT/300KT/M.82 - CRUISE : M.80 - DESCENT : M.80/300KT/250KT IMC PROCEDURE : 450 KG (6MIN)									
REF. LANDING WEIGHT = 220000 KG NORMAL AIR CONDITIONING ANTI-ICING OFF				ISA CG = 37.0 %		FUEL CONSUMED (KG)			
AIR DIST. (NM)	FLIGHT LEVEL						CORRECTION ON FUEL CONSUMPTION (KG/1000KG)		
	310	330	350	370	390	410	FL310 FL330	FL350 FL370	FL390 FL410
2800	48728 6.11	46730 6.14	44951 6.17	43863 6.19	43618 6.19	44256 6.19*	109	138	200
2900	50476 6.24	48406 6.27	46564 6.30	45456 6.32	45235 6.32	45855 6.32*	114	144	207
3000	52229 6.37	50090 6.40	48184 6.43	47058 6.45	46864 6.45	47463 6.45*	117	151	215
3100	54070 6.50	51779 6.53	49815 6.56	48670 6.58	48506 6.58	49081 6.58*	121	157	224
3200	55845 7.03	53475 7.06	51453 7.09	50291 7.11	50169 7.11	50709 7.11*	125	164	233
3300	57626 7.16	55178 7.19	53099 7.23	51922 7.24	51847 7.24	52347 7.24*	130	171	240
3400	59415 7.28	56888 7.32	54753 7.36	53562 7.38	53539 7.37	53998 7.38*	132	178	248
3500	61209 7.41	58605 7.45	56414 7.49	55212 7.51	55246 7.51	55662 7.51*	136	185	256
3600	63010 7.54	60328 7.58	58083 8.02	56872 8.04	56968 8.04	57338 8.04*	141	192	264
3700	64818 8.07	62058 8.11	59760 8.15	58543 8.17	58707 8.17	59026 8.17*	145	199	272
3800	66632 8.20	63795 8.24	61445 8.28	60224 8.30	60461 8.30	60726 8.30*	149	207	280
3900	68453 8.32	65539 8.37	63137 8.41	61915 8.43	62262 8.43*	62438 8.43*	154	215	288
4000	70280 8.45	67292 8.49	64838 8.54	63615 8.56	63974 8.56*	64161 8.56*	159	223	297
4100	72114 8.58	69051 9.02	66555 9.07	65327 9.09	65693 9.09*	65898 9.09*	163	232	305
4200	73955 9.11	70818 9.15	68287 9.20	67054 9.22	67431 9.22*	67649 9.22*	168	240	314
4300	75804 9.24	72592 9.28	70029 9.33	68796 9.35	69174 9.35*	69412 9.35*	173	249	322
4400	77661 9.37	74374 9.41	71781 9.46	70548 9.49	70927 9.48*	71188 9.49*	178	261	329
4500	79524 9.49	76164 9.54	73542 9.59	72312 10.02	72690 10.01*	72983 10.02*	183	270	337
4600	81395 10.02	77962 10.07	75314 10.12	74089 10.15	74464 10.14*	74794 10.15*	188	280	345
4700	83274 10.15	79767 10.20	77097 10.25	75881 10.28	76251 10.27*	76621 10.28*	193	290	356
4800	85160 10.28	81580 10.33	78890 10.38	77685 10.41	78047 10.40*	78463 10.41*	199	299	365
4900	87053 10.41	83403 10.46	80693 10.51	79600 10.54	79856 10.53*	80320 10.54*	204	308	374
5000	88954 10.53	85234 10.59	82506 11.04	81439 11.07	81680 11.06*	82192 11.07*	210	317	382
5100	90862 11.06	87073 11.12	84331 11.17	83294 11.20	83516 11.20*	84156 11.20*	215	325	391
5200	92779 11.19	88921 11.25	86167 11.30	85184 11.33	85366 11.33*	86074 11.33*	221	334	400
5300	94704 11.32	90777 11.38	88014 11.43	87095 11.46	87228 11.46*	88008 11.47*	227	347	409
PACK FLOW LO ΔFUEL = - 0.3 %		PACK FLOW HI/OR/ AND CARGO COOL ON ΔFUEL = + 2 %			ENGINE ANTI ICE ON ΔFUEL = + 2 %		TOTAL ANTI ICE ON ΔFUEL = + 5 %		

 A340-600 <i>Flight Crew Operating Manual</i>	FLIGHT PLANNING				2.05.40	P 5
	QUICK DETERMINATION OF F-PLN				SEQ 060	REV 19

FLIGHT PLANNING FROM BRAKE RELEASE TO LANDING CLIMB : 250KT/300KT/M.82 - CRUISE : M.80 - DESCENT : M.80/300KT/250KT IMC PROCEDURE : 450 KG (6MIN)									
REF. LANDING WEIGHT = 220000 KG NORMAL AIR CONDITIONING ANTI ICING OFF				ISA CG = 37.0 %		FUEL CONSUMED (KG)			
AIR DIST. (NM)	FLIGHT LEVEL						CORRECTION ON FUEL CONSUMPTION (KG/1000KG)		
	310	330	350	370	390	410	FL310 FL330	FL350 FL370	FL390 FL410
5400	96636 11.45	92642 11.50	89871 11.56	89022 12.00	89103 11.59*	89957 12.00*	233	353	417
5500	98576 11.58	94516 12.03	91741 12.09	90956 12.13*	90991 12.12*	91845 12.13*	239	362	426
5600	100526 12.10	96398 12.16	93739 12.22	92851 12.26*	92893 12.25*	93745 12.26*	245	371	437
5700	102484 12.23	98289 12.29	95643 12.35	94756 12.39*	94809 12.38*	95655 12.38*	252	380	445
5800	104449 12.36	100190 12.42	97558 12.49	96672 12.51*	96739 12.51*	97576 12.51*	262	389	454
5900	106422 12.49	102108 12.55	99488 13.02	98598 13.04*	98686 13.04*	99509 13.04*	269	398	463
6000	108404 13.02	104038 13.08	101434 13.15	100538 13.17*	100652 13.17*	101455 13.17*	277	408	472
6100	110395 13.15	105977 13.21	103393 13.28	102490 13.30*	102684 13.30*	103412 13.30*	284	414	482
6200	112395 13.27	107926 13.34	105365 13.41	104455 13.43*	104689 13.43*	105384 13.43*	292	422	492
6300	114402 13.40	110011 13.47	107350 13.54	106433 13.56*	106710 13.56*	107369 13.56*	303	433	503
6400	116419 13.53	111992 14.00	109352 14.07	108425 14.09*	108751 14.09*	109368 14.09*	311	443	513
6500	118447 14.06	113984 14.13	111369 14.20	110430 14.22*	110810 14.22*	111384 14.22*	320	453	523
6600	120485 14.19	115987 14.26	113400 14.33	112449 14.35*	112887 14.35*	113411 14.35*	328	464	533
6700	122658 14.31	118004 14.39	115445 14.46	114481 14.48*	114982 14.48*	115451 14.48*	334	474	543
6800	124725 14.44	120059 14.52	117508 14.59	116526 15.01*	117106 15.01*	117507 15.01*	343	484	552
6900	126803 14.57	122130 15.05	119591 15.12	118587 15.14*	119251 15.14*	119578 15.14*	352	495	562
7000	128891 15.10	124214 15.17	121765 15.25*	120662 15.27*	121406 15.28*	121666 15.27*	361	506	573
7100	130988 15.23	126314 15.30	123856 15.38*	122756 15.40*	123495 15.40*	123773 15.40*	367	517	583
7200	133096 15.36	128429 15.43	125961 15.51*	124866 15.53*	125598 15.53*	125899 15.53*	377	527	593
7300	135217 15.49	130556 15.56	128079 16.04*	127031 16.06*	127714 16.06*	128041 16.05*	387	539	604
7400	137350 16.01	132697 16.09	130210 16.16*	129182 16.19*	129843 16.19*	130200 16.18*	390	551	615
7500	139494 16.14	134857 16.22	132353 16.29*	131350 16.31*	131984 16.32*	132376 16.31*	386	562	626
7600	141648 16.27	137032 16.35	134512 16.42*	133535 16.44*	134140 16.45*	134572 16.44*	397	555	631
7700	143818 16.40	139221 16.48	136684 16.55*	135742 16.57*	136311 16.57*	136788 16.57*	407	561	639
7800	145999 16.53	141424 17.01	138870 17.08*	137966 17.10*	138494 17.10*	139022 17.10*	418	572	648
7900	148191 17.06	143650 17.14	141069 17.21*	140212 17.23*	140692 17.23*	141281 17.23*	429	584	661
PACK FLOW LO ΔFUEL = - 0.3 %		PACK FLOW HI OR/ AND CARGO COOL ON ΔFUEL = + 2 %			ENGINE ANTI ICE ON ΔFUEL = + 2 %		TOTAL ANTI ICE ON ΔFUEL = + 5 %		

FLIGHT PLANNING
QUICK DETERMINATION OF F-PLN

FLIGHT PLANNING FROM BRAKE RELEASE TO LANDING CLIMB : 250KT/300KT/M.82 - CRUISE : M.80 - DESCENT : M.80/300KT/250KT IMC PROCEDURE : 450 KG (6MIN)									
REF. LANDING WEIGHT = 220000 KG NORMAL AIR CONDITIONING ANTI ICING OFF				ISA CG = 37.0 %		FUEL CONSUMED (KG) TIME (H.MIN)			
AIR DIST. (NM)	FLIGHT LEVEL						CORRECTION ON FUEL CONSUMPTION (KG/1000KG)		
	310	330	350	370	390	410	FL310 FL330	FL350 FL370	FL390 FL410
8000		145891 17.27	143288 17.34*	142482 17.36*	142907 17.36*	143570 17.36*	497	595	673
8100		148246 17.40	145524 17.46*	144777 17.49*	145142 17.49*	145876 17.49*	518	608	687
8200			147775 17.59*	147091 18.02*	147391 18.02*	148203 18.02*		621	701
8300									
8400									
8500									
8600									
8700									
8800									
8900									
9000									
PACK FLOW LO ΔFUEL = - 0.3 %		PACK FLOW HI OR/ AND CARGO COOL ON ΔFUEL = + 2 %			ENGINE ANTI ICE ON ΔFUEL = + 2 %		TOTAL ANTI ICE ON ΔFUEL = + 5 %		

 A340-600 Flight Crew Operating Manual	FLIGHT PLANNING		2.05.40	P 7
	QUICK DETERMINATION OF F-PLN		SEQ 060	REV 19

FLIGHT PLANNING FROM BRAKE RELEASE TO LANDING CLIMB : 250KT/300KT/M.82 - CRUISE : M.82 - DESCENT : M.82/300KT/250KT IMC PROCEDURE : 450 KG (6MIN)									
REF. LANDING WEIGHT = 220000 KG NORMAL AIR CONDITIONING ANTI-ICING OFF				ISA CG = 37.0 %		FUEL CONSUMED(KG)			
AIR DIST. (NM)	FLIGHT LEVEL						CORRECTION ON FUEL CONSUMPTION (KG/1000KG)		
	310	330	350	370	390	410	FL310 FL330	FL350 FL370	FL390 FL410
200	5191 0.38	5177 0.38	5181 0.38				12	13	
300	6831 0.51	6725 0.51	6655 0.51	6616 0.51	6603 0.51	6614 0.51	15	17	20
400	8477 1.03	8279 1.04	8135 1.04	8041 1.04	7990 1.04	7984 1.04	18	21	25
500	10125 1.16	9837 1.16	9621 1.17	9472 1.17	9383 1.17	9361 1.17	20	25	31
600	11777 1.28	11399 1.29	11112 1.29	10908 1.30	10783 1.30	10747 1.30	23	29	37
700	13434 1.41	12966 1.41	12608 1.42	12350 1.42	12189 1.42	12140 1.42	26	34	42
800	15096 1.53	14538 1.54	14109 1.55	13798 1.55	13601 1.55	13541 1.55	29	38	49
900	16762 2.06	16116 2.07	15617 2.07	15253 2.08	15021 2.08	14953 2.08	32	42	55
1000	18432 2.18	17698 2.19	17130 2.20	16713 2.21	16449 2.21	16379 2.21	35	46	62
1100	20106 2.31	19286 2.32	18649 2.33	18180 2.33	17883 2.33	17812 2.33	39	51	68
1200	21785 2.43	20878 2.44	20173 2.46	19652 2.46	19324 2.46	19254 2.46	42	55	75
1300	23468 2.56	22475 2.57	21703 2.58	21130 2.59	20772 2.59	20706 2.59	45	59	82
1400	25155 3.08	24078 3.10	23239 3.11	22614 3.12	22227 3.12	22168 3.12	49	64	89
1500	26847 3.21	25686 3.22	24781 3.24	24106 3.25	23690 3.25	23642 3.25	52	69	97
1600	28544 3.33	27299 3.35	26328 3.36	25603 3.37	25176 3.37	25127 3.37	56	73	104
1700	30244 3.46	28917 3.47	27881 3.49	27107 3.50	26658 3.50	26622 3.50	59	78	112
1800	31952 3.58	30540 4.00	29440 4.02	28617 4.03	28147 4.03	28128 4.03	63	83	119
1900	33665 4.11	32172 4.13	31006 4.15	30133 4.16	29645 4.16	29644 4.16	67	88	126
2000	35383 4.23	33810 4.25	32580 4.27	31657 4.28	31151 4.28	31173 4.28	71	93	133
2100	37105 4.36	35453 4.38	34160 4.40	33220 4.41	32669 4.41	32723 4.41	74	98	140
2200	38832 4.48	37102 4.51	35746 4.53	34763 4.54	34196 4.54	34289 4.54	78	104	147
2300	40564 5.01	38757 5.03	37338 5.05	36313 5.07	35732 5.07	35868 5.07	82	109	154
2400	42301 5.13	40417 5.16	38982 5.18	37871 5.20	37277 5.20	37461 5.20	86	114	161
2500	44043 5.26	42084 5.28	40594 5.31	39436 5.32	38831 5.32	39067 5.32*	91	120	168
2600	45789 5.38	43756 5.41	42213 5.44	41009 5.45	40395 5.45	40641 5.45*	95	125	175
2700	47541 5.51	45434 5.54	43840 5.56	42590 5.58	41969 5.58	42224 5.58*	100	130	182
PACK FLOW LO ΔFUEL = - 0.3 %		PACK FLOW HI/OR/ AND CARGO COOL ON ΔFUEL = + 2 %			ENGINE ANTI ICE ON ΔFUEL = + 2 %		TOTAL ANTI ICE ON ΔFUEL = + 4.5 %		

	FLIGHT PLANNING		2.05.40	P 8
	QUICK DETERMINATION OF F-PLN		SEQ 060	REV 19

FLIGHT PLANNING FROM BRAKE RELEASE TO LANDING CLIMB : 250KT/300KT/M.82 - CRUISE : M.82 - DESCENT : M.82/300KT/250KT IMC PROCEDURE : 450 KG (6MIN)									
REF. LANDING WEIGHT = 220000 KG NORMAL AIR CONDITIONING ANTI-ICING OFF				ISA CG = 37.0 %		FUEL CONSUMED(KG)			
AIR DIST. (NM)	FLIGHT LEVEL						TIME (H.MIN) CORRECTION ON FUEL CONSUMPTION (KG/1000KG)		
	310	330	350	370	390	410	FL310 FL330	FL350 FL370	FL390 FL410
2800	49299 6.03	47179 6.06	45474 6.09	44179 6.11	43552 6.11	43814 6.11*	104	135	189
2900	51066 6.16	48878 6.19	47114 6.22	45776 6.23	45146 6.23	45413 6.23*	111	141	196
3000	52838 6.28	50584 6.31	48762 6.35	47380 6.36	46749 6.36	47020 6.36*	116	147	203
3100	54615 6.41	52297 6.44	50416 6.47	48994 6.49	48362 6.49	48636 6.49*	119	153	211
3200	56473 6.53	54017 6.57	52077 7.00	50620 7.02	49990 7.02	50262 7.02*	124	158	219
3300	58271 7.06	55744 7.09	53746 7.13	52254 7.15	51629 7.15	51897 7.15*	128	164	226
3400	60074 7.18	57478 7.22	55422 7.25	53897 7.27	53279 7.27	53543 7.27*	133	171	235
3500	61884 7.31	59220 7.34	57107 7.38	55549 7.40	54941 7.40	55197 7.40*	136	177	243
3600	63699 7.43	60969 7.47	58800 7.51	57211 7.53	56614 7.53	56862 7.53*	141	183	251
3700	65523 7.56	62725 8.00	60501 8.04	58882 8.06	58301 8.06	58538 8.06*	147	189	259
3800	67357 8.08	64489 8.12	62210 8.16	60563 8.19	60000 8.19	60223 8.19*	152	196	267
3900	69198 8.21	66262 8.25	63926 8.29	62253 8.31	61710 8.31	61918 8.31*	157	203	275
4000	71046 8.33	68044 8.38	65652 8.42	63952 8.44	63432 8.44	63623 8.44*	163	210	283
4100	72900 8.46	69833 8.50	67386 8.55	65662 8.57	65223 8.57*	65339 8.57*	168	217	291
4200	74762 8.58	71631 9.03	69129 9.07	67384 9.10	66961 9.10*	67067 9.10*	173	224	299
4300	76632 9.11	73436 9.15	70880 9.20	69116 9.22	68707 9.22*	68807 9.22*	179	231	308
4400	78509 9.23	75251 9.28	72640 9.33	70858 9.35	70466 9.35*	70557 9.35*	184	239	316
4500	80393 9.36	77074 9.41	74409 9.45	72610 9.48	72232 9.48*	72319 9.48*	190	247	325
4600	82284 9.48	78906 9.53	76188 9.58	74374 10.01	74008 10.01*	74092 10.01*	196	256	332
4700	84190 10.01	80746 10.06	77977 10.11	76150 10.14	75795 10.13*	75880 10.14*	202	264	340
4800	86104 10.13	82594 10.18	79774 10.24	77938 10.26	77593 10.26*	77679 10.26*	208	273	351
4900	88026 10.26	84455 10.31	81580 10.36	79736 10.39	79401 10.39*	79490 10.39*	214	281	360
5000	89955 10.39	86325 10.44	83397 10.49	81545 10.52	81219 10.51*	81313 10.52*	220	290	369
5100	91894 10.51	88204 10.56	85227 11.02	83460 11.05	83049 11.04*	83151 11.05*	226	299	378
5200	93841 11.04	90092 11.09	87066 11.15	85314 11.18	84891 11.17*	85001 11.18*	232	310	387
5300	95796 11.16	91990 11.22	88915 11.27	87182 11.30	86743 11.30*	86935 11.30*	238	319	396
PACK FLOW LO ΔFUEL = - 0.3 %		PACK FLOW HI/OR/ AND CARGO COOL ON ΔFUEL = + 2 %			ENGINE ANTI ICE ON ΔFUEL = + 2 %		TOTAL ANTI ICE ON ΔFUEL = + 4.5 %		

	FLIGHT PLANNING		2.05.40	P 9
	QUICK DETERMINATION OF F-PLN		SEQ 060	REV 19

FLIGHT PLANNING FROM BRAKE RELEASE TO LANDING CLIMB : 250KT/300KT/M.82 - CRUISE : M.82 - DESCENT : M.82/300KT/250KT IMC PROCEDURE : 450 KG (6MIN)									
REF. LANDING WEIGHT = 220000 KG NORMAL AIR CONDITIONING ANTI-ICING OFF				ISA CG = 37.0 %		FUEL CONSUMED(KG)			
AIR DIST. (NM)	FLIGHT LEVEL						TIME (H.MIN) CORRECTION ON FUEL CONSUMPTION (KG/1000KG)		
	310	330	350	370	390	410	FL310 FL330	FL350 FL370	FL390 FL410
5400	97760	93898	90774	89063	88606	88837	244	326	405
	11.29	11.34	11.40	11.43	11.42*	11.43*			
5500	99733	95816	92645	90957	90480	90754	251	335	414
	11.41	11.47	11.53	11.56	11.55*	11.56*			
5600	101718	97742	94527	92868	92367	92690	257	344	423
	11.54	11.59	12.05	12.09	12.08*	12.09*			
5700	103712	99680	96528	94815	94267	94629	264	353	433
	12.06	12.12	12.18	12.21*	12.21*	12.21*			
5800	105715	101627	98440	96742	96178	96555	273	362	443
	12.19	12.25	12.31	12.34*	12.33*	12.34*			
5900	107726	103580	100366	98680	98102	98492	280	372	451
	12.31	12.37	12.44	12.47*	12.46*	12.47*			
6000	109749	105542	102309	100631	100040	100442	287	381	460
	12.44	12.50	12.56	12.59*	12.59*	12.59*			
6100	111781	107514	104267	102593	101992	102403	294	391	470
	12.56	13.03	13.09	13.12*	13.12*	13.12*			
6200	113821	109623	106236	104566	103956	104375	305	397	480
	13.09	13.15	13.22	13.25*	13.24*	13.25*			
6300	115871	111626	108219	106550	105933	106358	312	407	489
	13.21	13.28	13.35	13.37*	13.37*	13.37*			
6400	117932	113640	110217	108546	107967	108353	320	415	499
	13.34	13.40	13.47	13.50*	13.50*	13.50*			
6500	120007	115665	112228	110555	109980	110361	325	426	509
	13.46	13.53	14.00	14.02*	14.02*	14.02*			
6600	122226	117704	114251	112576	112013	112383	333	436	520
	13.59	14.06	14.13	14.15*	14.15*	14.15*			
6700	124332	119754	116289	114608	114066	114415	341	446	530
	14.11	14.18	14.26	14.28*	14.28*	14.28*			
6800	126451	121816	118344	116653	116135	116460	349	455	540
	14.24	14.31	14.38	14.40*	14.41*	14.40*			
6900	128582	123890	120414	118713	118224	118521	357	466	550
	14.36	14.44	14.51	14.53*	14.53*	14.53*			
7000	130723	125978	122500	120785	120329	120594	362	477	560
	14.49	14.56	15.04	15.06*	15.06*	15.06*			
7100	132875	128078	124599	122871	122452	122681	370	487	570
	15.02	15.09	15.17	15.18*	15.19*	15.18*			
7200	135042	130191	126793	124969	124592	124782	379	497	580
	15.14	15.22	15.29*	15.31*	15.32*	15.31*			
7300	137225	132316	128931	127084	126742	126899	381	508	591
	15.27	15.34	15.42*	15.44*	15.44*	15.44*			
7400	139421	134456	131080	129212	128879	129029	390	518	601
	15.39	15.47	15.54*	15.56*	15.57*	15.56*			
7500	141629	136612	133240	131381	131027	131174	390	529	612
	15.52	16.00	16.07*	16.09*	16.09*	16.09*			
7600	143854	138783	135415	133542	133187	133333	399	527	616
	16.04	16.12	16.19*	16.21*	16.22*	16.21*			
7700	146091	140968	137603	135721	135363	135511	408	537	625
	16.17	16.25	16.32*	16.34*	16.34*	16.34*			
7800	148341	143172	139804	137915	137550	137704	418	548	635
	16.29	16.37	16.44*	16.47*	16.47*	16.47*			
7900		145391	142019	140124	139751	139913	446	554	644
		16.50	16.57*	16.59*	16.59*	16.59*			
PACK FLOW LO ΔFUEL = - 0.3 %		PACK FLOW HI/OR/ AND CARGO COOL ON ΔFUEL = + 2 %			ENGINE ANTI ICE ON ΔFUEL = + 2 %		TOTAL ANTI ICE ON ΔFUEL = + 4.5 %		

virgin atlantic A340-600 <i>Flight Crew Operating Manual</i>	FLIGHT PLANNING QUICK DETERMINATION OF F-PLN		2.05.40	P 10
			SEQ 050	REV 19

FLIGHT PLANNING FROM BRAKE RELEASE TO LANDING CLIMB : 250KT/300KT/M.82 - CRUISE : M.82 - DESCENT : M.82/300KT/250KT IMC PROCEDURE : 450 KG (6MIN)									
REF. LANDING WEIGHT = 220000 KG NORMAL AIR CONDITIONING ANTI-ICING OFF				ISA CG = 37.0 %		FUEL CONSUMED(KG)			
AIR DIST. (NM)	FLIGHT LEVEL						CORRECTION ON FUEL CONSUMPTION (KG/1000KG)		
	310	330	350	370	390	410	FL310 FL330	FL350 FL370	FL390 FL410
8000		147624 17.03	144251 17.09*	142350 17.12*	141966 17.12*	142137 17.12*	456	564	652
8100			146496 17.22*	144597 17.25*	144197 17.25*	144383 17.25*		574	664
8200			148754 17.35*	146859 17.37*	146442 17.37*	146647 17.37*		585	675
8300					148701 17.50*	148925 17.50*			687
8400									
8500									
8600									
8700									
8800									
8900									
9000									
PACK FLOW LO ΔFUEL = - 0.3 %		PACK FLOW HI OR/ AND CARGO COOL ON ΔFUEL = + 2 %			ENGINE ANTI ICE ON ΔFUEL = + 2 %			TOTAL ANTI ICE ON ΔFUEL = + 4.5 %	

 A340-600 Flight Crew Operating Manual	FLIGHT PLANNING		2.05.40	P 11
	QUICK DETERMINATION OF F-PLN		SEQ 060	REV 19

FLIGHT PLANNING FROM BRAKE RELEASE TO LANDING CLIMB : 250KT/300KT/M.82 - CRUISE : M.84 - DESCENT : M.84/300KT/250KT IMC PROCEDURE : 450 KG (6MIN)									
REF. LANDING WEIGHT = 220000 KG NORMAL AIR CONDITIONING ANTI-ICING OFF				ISA CG = 37.0 %		FUEL CONSUMED (KG)			
AIR DIST. (NM)	FLIGHT LEVEL					CORRECTION ON FUEL CONSUMPTION (KG/1000KG)			
	310	330	350	370	390	410	FL310 FL330	FL350 FL370	FL390 FL410
200	5214 0.38	5197 0.38	5197 0.38				12	13	
300	6915 0.50	6808 0.51	6735 0.51	6688 0.51	6669 0.51	6671 0.51	15	17	19
400	8621 1.03	8426 1.03	8280 1.03	8175 1.03	8118 1.03	8105 1.03	18	22	25
500	10332 1.15	10050 1.15	9830 1.16	9667 1.16	9574 1.16	9548 1.16	21	26	32
600	12047 1.27	11678 1.28	11386 1.28	11167 1.28	11037 1.28	10999 1.28	25	30	38
700	13767 1.39	13312 1.40	12949 1.40	12673 1.41	12507 1.41	12460 1.41	28	35	44
800	15495 1.51	14952 1.52	14517 1.53	14185 1.53	13985 1.53	13930 1.53	32	39	51
900	17227 2.04	16598 2.04	16091 2.05	15706 2.06	15472 2.06	15418 2.06	35	44	58
1000	18965 2.16	18249 2.17	17671 2.18	17233 2.18	16966 2.18	16915 2.18	39	48	66
1100	20708 2.28	19906 2.29	19257 2.30	18767 2.31	18469 2.31	18422 2.31	42	53	73
1200	22456 2.40	21568 2.41	20849 2.43	20309 2.43	19979 2.43	19941 2.43	46	58	80
1300	24210 2.53	23237 2.54	22447 2.55	21857 2.56	21497 2.56	21472 2.56	50	62	88
1400	25970 3.05	24911 3.06	24051 3.07	23413 3.08	23024 3.08	23016 3.08	54	67	97
1500	27735 3.17	26592 3.18	25662 3.20	24976 3.21	24575 3.21	24573 3.21	58	72	104
1600	29505 3.29	28278 3.31	27279 3.32	26547 3.33	26123 3.33	26143 3.33	62	77	112
1700	31283 3.41	29970 3.43	28902 3.45	28124 3.46	27680 3.46	27725 3.46	66	83	119
1800	33067 3.54	31670 3.55	30531 3.57	29710 3.58	29245 3.58	29320 3.58	70	88	126
1900	34856 4.06	33379 4.08	32170 4.09	31303 4.11	30821 4.11	30929 4.11	74	94	133
2000	36652 4.18	35095 4.20	33817 4.22	32936 4.23	32410 4.23	32557 4.23	78	99	141
2100	38453 4.30	36817 4.32	35471 4.34	34549 4.36	34010 4.36	34204 4.36	82	106	148
2200	40259 4.42	38545 4.45	37131 4.47	36169 4.48	35620 4.48	35868 4.48*	87	111	156
2300	42073 4.55	40280 4.57	38843 4.59	37798 5.00	37240 5.01	37498 5.00*	92	116	163
2400	43891 5.07	42023 5.09	40525 5.12	39434 5.13	38870 5.13	39136 5.13*	97	122	171
2500	45716 5.19	43771 5.21	42215 5.24	41081 5.25	40513 5.25	40785 5.25*	101	129	178
2600	47547 5.31	45589 5.34	43913 5.36	42735 5.38	42167 5.38	42444 5.38*	107	133	186
2700	49384 5.43	47360 5.46	45619 5.49	44399 5.50	43831 5.50	44111 5.50*	112	140	193
PACK FLOW LO ΔFUEL = - 0.3 %		PACK FLOW HI/OR/ AND CARGO COOL ON ΔFUEL = + 2 %			ENGINE ANTI ICE ON ΔFUEL = + 1.5 %			TOTAL ANTI ICE ON ΔFUEL = + 3.5 %	

	FLIGHT PLANNING		2.05.40	P 12
	QUICK DETERMINATION OF F-PLN		SEQ 060	REV 19

FLIGHT PLANNING FROM BRAKE RELEASE TO LANDING CLIMB : 250KT/300KT/M.82 - CRUISE : M.84 - DESCENT : M.84/300KT/250KT IMC PROCEDURE : 450 KG (6MIN)									
REF. LANDING WEIGHT = 220000 KG NORMAL AIR CONDITIONING ANTI-ICING OFF				ISA CG = 37.0 %		FUEL CONSUMED (KG)			
AIR DIST. (NM)	FLIGHT LEVEL					CORRECTION ON FUEL CONSUMPTION (KG/1000KG)			
	310	330	350	370	390	410	FL310 FL330	FL350 FL370	FL390 FL410
2800	51229 5.56	49136 5.58	47332 6.01	46070 6.03	45507 6.03	45788 6.03*	116	146	201
2900	53154 6.08	50919 6.11	49056 6.14	47751 6.15	47195 6.15	47475 6.15*	121	152	209
3000	55021 6.20	52710 6.23	50791 6.26	49445 6.28	48895 6.28	49172 6.28*	126	159	219
3100	56895 6.32	54509 6.35	52534 6.39	51151 6.40	50615 6.40	50880 6.40*	131	166	227
3200	58777 6.44	56315 6.48	54287 6.51	52866 6.53	52348 6.53	52598 6.53*	134	172	235
3300	60666 6.57	58130 7.00	56048 7.03	54592 7.05	54095 7.05	54327 7.05*	138	179	243
3400	62562 7.09	59953 7.12	57820 7.16	56328 7.18	55855 7.18	56069 7.18*	144	187	252
3500	64465 7.21	61784 7.25	59601 7.28	58076 7.30	57630 7.30	57823 7.30*	149	194	260
3600	66379 7.33	63623 7.37	61391 7.41	59835 7.43	59420 7.43	59588 7.43*	154	201	269
3700	68303 7.46	65470 7.49	63191 7.53	61603 7.55	61298 7.55*	61365 7.55*	160	209	277
3800	70235 7.58	67325 8.02	64999 8.06	63383 8.08	63098 8.08*	63154 8.08*	165	216	286
3900	72174 8.10	69188 8.14	66819 8.18	65173 8.20	64908 8.20*	64954 8.20*	171	224	295
4000	74122 8.22	71060 8.26	68647 8.30	66978 8.33	66730 8.32*	66769 8.33*	177	232	304
4100	76080 8.34	72940 8.39	70486 8.43	68798 8.45	68562 8.45*	68596 8.45*	183	241	313
4200	78046 8.47	74829 8.51	72334 8.55	70629 8.58	70405 8.57*	70435 8.58*	189	251	321
4300	80020 8.59	76729 9.03	74192 9.08	72472 9.10	72259 9.10*	72287 9.10*	195	259	331
4400	82002 9.11	78636 9.16	76063 9.20	74329 9.23	74123 9.22*	74158 9.23*	201	268	339
4500	84000 9.23	80553 9.28	77944 9.33	76201 9.35	76001 9.35*	76044 9.35*	208	278	350
4600	86008 9.36	82479 9.40	79836 9.45	78164 9.48	77890 9.47*	77945 9.48*	214	287	359
4700	88026 9.48	84423 9.53	81739 9.57	80070 10.00	79790 10.00*	79860 10.00*	221	296	368
4800	90054 10.00	86379 10.05	83654 10.10	81989 10.13	81703 10.12*	81789 10.13*	227	305	378
4900	92092 10.12	88345 10.17	85575 10.22	83927 10.25	83631 10.24*	83798 10.25*	234	314	387
5000	94140 10.24	90322 10.30	87507 10.35	85888 10.38	85571 10.37*	85769 10.38*	241	326	397
5100	96198 10.37	92312 10.42	89451 10.47	87865 10.50	87523 10.49*	87757 10.50*	248	333	406
5200	98265 10.49	94311 10.54	91406 11.00	89911 11.02*	89488 11.02*	89789 11.02*	255	343	416
5300	100344 11.01	96321 11.07	93477 11.12	91907 11.15*	91467 11.14*	91785 11.15*	265	352	427
PACK FLOW LO ΔFUEL = - 0.3 %		PACK FLOW HI/OR/ AND CARGO COOL ON ΔFUEL = + 2 %			ENGINE ANTI ICE ON ΔFUEL = + 1.5 %			TOTAL ANTI ICE ON ΔFUEL = + 3.5 %	

	FLIGHT PLANNING		2.05.40	P 13
	QUICK DETERMINATION OF F-PLN		SEQ 060	REV 19

FLIGHT PLANNING FROM BRAKE RELEASE TO LANDING CLIMB : 250KT/300KT/M.82 - CRUISE : M.84 - DESCENT : M.84/300KT/250KT IMC PROCEDURE : 450 KG (6MIN)									
REF. LANDING WEIGHT = 220000 KG NORMAL AIR CONDITIONING ANTI-ICING OFF				ISA CG = 37.0 %		FUEL CONSUMED (KG)			
AIR DIST. (NM)	FLIGHT LEVEL						CORRECTION ON FUEL CONSUMPTION (KG/1000KG)		
	310	330	350	370	390	410	FL310 FL330	FL350 FL370	FL390 FL410
5400	102424 11.13	98342 11.19	95466 11.25	93916 11.27*	93460 11.27*	93793 11.27*	272	362	436
5500	104513 11.26	100376 11.31	97467 11.37	95936 11.39*	95467 11.39*	95812 11.39*	280	372	446
5600	106611 11.38	102427 11.44	99482 11.49	97968 11.52*	97487 11.51*	97843 11.52*	288	382	456
5700	108720 11.50	104613 11.56	101517 12.02	100014 12.04*	99524 12.04*	99888 12.04*	295	389	466
5800	110839 12.02	106700 12.08	103573 12.14	102073 12.16*	101620 12.16*	101947 12.16*	306	399	476
5900	112968 12.14	108802 12.21	105643 12.27	104145 12.29*	103698 12.29*	104018 12.29*	314	409	486
6000	115107 12.27	110918 12.33	107727 12.39	106229 12.41*	105791 12.41*	106102 12.41*	323	419	498
6100	117374 12.39	113047 12.45	109831 12.52	108328 12.53*	107901 12.54*	108200 12.53*	328	430	509
6200	119549 12.51	115189 12.58	111948 13.04	110440 13.06*	110031 13.06*	110313 13.06*	336	440	520
6300	121736 13.03	117347 13.10	114081 13.17	112566 13.18*	112177 13.19*	112443 13.18*	344	452	531
6400	123935 13.16	119515 13.22	116229 13.29	114705 13.30*	114340 13.31*	114584 13.30*	350	463	542
6500	126147 13.28	121693 13.35	118398 13.41	116859 13.43*	116526 13.44*	116739 13.43*	358	474	551
6600	128371 13.40	123886 13.47	120703 13.54*	119029 13.55*	118754 13.56*	118911 13.55*	367	485	562
6700	130607 13.52	126095 13.59	122915 14.06*	121212 14.08*	121027 14.08*	121097 14.08*	376	496	573
6800	132855 14.05	128319 14.12	125140 14.18*	123412 14.20*	123241 14.20*	123301 14.20*	386	508	584
6900	135119 14.17	130558 14.24	127381 14.30*	125658 14.32*	125469 14.33*	125522 14.32*	384	519	596
7000	137408 14.29	132811 14.36	129635 14.43*	127898 14.45*	127711 14.45*	127762 14.45*	398	531	608
7100	139714 14.41	135084 14.49	131902 14.55*	130154 14.57*	129967 14.57*	130017 14.57*	399	545	621
7200	142034 14.54	137367 15.01	134184 15.07*	132426 15.09*	132236 15.09*	132289 15.09*	408	552	632
7300	144372 15.06	139659 15.13	136482 15.19*	134718 15.22*	134522 15.22*	134580 15.22*	418	544	634
7400	146724 15.18	141965 15.26	138794 15.32*	137029 15.34*	136822 15.34*	136891 15.34*	427	555	642
7500		144293 15.38	141120 15.44*	139356 15.46*	139136 15.46*	139218 15.46*	466	567	653
7600		146817 15.50*	143465 15.56*	141714 15.59*	141465 15.58*	141575 15.59*	493	577	666
7700			145828 16.08*	144102 16.11*	143814 16.11*	143966 16.11*		590	679
7800			148206 16.21*	146567 16.23*	146180 16.23*	146420 16.23*		606	695
7900				148969 16.35*	148561 16.35*	148822 16.35*		658	707
PACK FLOW LO ΔFUEL = - 0.3 %		PACK FLOW HI OR/ AND CARGO COOL ON ΔFUEL = + 2 %			ENGINE ANTI ICE ON ΔFUEL = + 1.5 %		TOTAL ANTI ICE ON ΔFUEL = + 3.5 %		

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 A340-600 <i>Flight Crew Operating Manual</i>	FLIGHT PLANNING		2.05.40	P 15
	QUICK DETERMINATION OF F-PLN		SEQ 060	REV 19

FLIGHT PLANNING FROM BRAKE RELEASE TO LANDING CLIMB : 250KT/300KT/M.82 - CRUISE : LONG RANGE - DESCENT : M.82/300KT/250KT IMC PROCEDURE : 450 KG (6MIN)									
REF. LANDING WEIGHT = 220000 KG NORMAL AIR CONDITIONING ANTI-ICING OFF				ISA CG = 37.0 %		FUEL CONSUMED(KG)			
AIR DIST. (NM)	FLIGHT LEVEL						CORRECTION ON FUEL CONSUMPTION (KG/1000KG)		
	310	330	350	370	390	410	FL310 FL330	FL350 FL370	FL390 FL410
200	5068 0.39	5073 0.38	5083 0.38				12	13	
300	6638 0.52	6586 0.52	6542 0.51	6516 0.51	6509 0.51	6522 0.51	16	17	19
400	8215 1.06	8106 1.05	8008 1.04	7938 1.04	7901 1.04	7904 1.04	21	22	25
500	9799 1.20	9633 1.18	9480 1.17	9367 1.17	9301 1.16	9295 1.16	25	26	31
600	11388 1.33	11165 1.32	10957 1.30	10801 1.30	10707 1.29	10694 1.29	29	31	37
700	12984 1.47	12703 1.45	12441 1.43	12242 1.42	12119 1.42	12101 1.41	33	35	43
800	14587 2.00	14247 1.58	13930 1.56	13688 1.55	13539 1.55	13517 1.54	37	40	50
900	16196 2.14	15797 2.11	15427 2.09	15141 2.08	14968 2.07	14944 2.07	42	44	57
1000	17812 2.27	17354 2.25	16931 2.22	16600 2.21	16405 2.20	16380 2.19	46	49	63
1100	19435 2.41	18916 2.38	18441 2.35	18065 2.33	17849 2.33	17831 2.32	50	53	70
1200	21064 2.54	20485 2.51	19957 2.48	19536 2.46	19300 2.45	19289 2.45	54	58	77
1300	22699 3.07	22059 3.04	21479 3.01	21014 2.99	20760 2.98	20756 2.97	59	63	85
1400	24342 3.21	23640 3.17	23008 3.13	22497 3.12	22227 3.11	22233 3.10	63	68	93
1500	25992 3.34	25228 3.30	24545 3.26	23988 3.25	23703 3.23	23723 3.22	68	73	100
1600	27648 3.47	26822 3.43	26088 3.39	25485 3.37	25187 3.36	25223 3.35	72	78	108
1700	29312 4.00	28422 3.56	27637 3.52	26988 3.50	26702 3.48	26735 3.48	77	84	115
1800	30981 4.14	30029 4.09	29193 4.05	28497 4.03	28207 4.01	28257 4.00	81	89	122
1900	32655 4.27	31642 4.22	30757 4.17	30014 4.16	29722 4.14	29790 4.13	85	95	129
2000	34335 4.40	33262 4.35	32325 4.30	31539 4.28	31247 4.26	31337 4.25	90	100	135
2100	36022 4.53	34888 4.48	33900 4.43	33115 4.41	32784 4.39	32906 4.38	94	106	142
2200	37715 5.06	36521 5.00	35481 4.95	34667 4.94	34332 4.91	34489 4.91	99	111	149
2300	39415 5.19	38160 5.13	37069 5.08	36228 5.06	35889 5.04	36086 5.03	104	118	156
2400	41122 5.32	39805 5.26	38663 5.21	37797 5.19	37457 5.17	37683 5.16*	108	123	163
2500	42836 5.45	41458 5.39	40327 5.34	39375 5.32	39034 5.29	39258 5.28*	114	128	170
2600	44556 5.58	43117 5.51	41945 5.46	40962 5.44	40624 5.42	40842 5.41*	119	134	177
2700	46283 6.11	44860 6.04	43570 5.59	42558 5.57	42225 5.54	42436 5.54*	124	139	184
PACK FLOW LO ΔFUEL = - 0.1 %		PACK FLOW HI/OR/ AND CARGO COOL ON ΔFUEL = + 2 %			ENGINE ANTI ICE ON ΔFUEL = + 2 %		TOTAL ANTI ICE ON ΔFUEL = + 5 %		

 A340-600 Flight Crew Operating Manual	FLIGHT PLANNING		2.05.40	P 16
	QUICK DETERMINATION OF F-PLN		SEQ 060	REV 19

FLIGHT PLANNING FROM BRAKE RELEASE TO LANDING CLIMB : 250KT/300KT/M.82 - CRUISE : LONG RANGE - DESCENT : M.82/300KT/250KT IMC PROCEDURE : 450 KG (6MIN)									
REF. LANDING WEIGHT = 220000 KG NORMAL AIR CONDITIONING ANTI-ICING OFF				ISA CG = 37.0 %		FUEL CONSUMED(KG)			
AIR DIST. (NM)	FLIGHT LEVEL						CORRECTION ON FUEL CONSUMPTION (KG/1000KG)		
	310	330	350	370	390	410	FL310 FL330	FL350 FL370	FL390 FL410
2800	48017 6.24	46542 6.16	45202 6.12	44164 6.10	43836 6.07	44037 6.07*	131	144	191
2900	49855 6.37	48232 6.29	46843 6.24	45778 6.22	45458 6.19	45648 6.19*	134	151	198
3000	51612 6.50	49929 6.41	48489 6.37	47402 6.35	47092 6.32	47268 6.32*	139	157	205
3100	53376 7.03	51633 6.54	50140 6.50	49032 6.48	48737 6.44	48898 6.45*	141	163	213
3200	55148 7.15	53346 7.07	51798 7.02	50669 7.00	50382 6.57	50537 6.57*	146	170	221
3300	56929 7.28	55067 7.19	53465 7.15	52315 7.13	52037 7.10	52188 7.10*	151	176	230
3400	58718 7.41	56796 7.32	55139 7.28	53971 7.26	53702 7.22	53850 7.23*	156	183	237
3500	60515 7.54	58534 7.44	56822 7.40	55636 7.38	55378 7.35	55523 7.35*	162	189	245
3600	62320 8.06	60281 7.57	58513 7.53	57311 7.51	57066 7.48	57207 7.48*	167	196	253
3700	64133 8.19	62035 8.09	60213 8.06	58997 8.04	58768 8.00	58903 8.00*	172	203	260
3800	65951 8.32	63798 8.22	61920 8.19	60693 8.16	60480 8.13	60610 8.13*	177	210	268
3900	67777 8.44	65569 8.34	63636 8.31	62398 8.29	62205 8.26	62327 8.26*	183	217	276
4000	69610 8.57	67346 8.47	65361 8.44	64114 8.42	63988 8.38*	64056 8.38*	188	225	284
4100	71451 9.10	69132 8.59	67100 8.57	65841 8.54	65726 8.51*	65798 8.51*	194	233	291
4200	73300 9.22	70926 9.12	68849 9.09	67584 9.07	67473 9.03*	67552 9.03*	199	241	299
4300	75159 9.35	72728 9.24	70607 9.22	69338 9.20	69237 9.16*	69317 9.16*	205	249	307
4400	77027 9.47	74540 9.37	72374 9.34	71103 9.32	71007 9.29*	71087 9.29*	211	259	313
4500	78904 10.00	76363 9.49	74152 9.47	72880 9.45	72786 9.41*	72869 9.41*	217	269	321
4600	80790 10.12	78194 10.02	75940 9.59	74670 9.57	74577 9.54*	74664 9.54*	223	278	330
4700	82685 10.25	80035 10.14	77739 10.12	76474 10.10	76380 10.07*	76473 10.07*	229	288	338
4800	84591 10.37	81884 10.27	79547 10.25	78289 10.22	78194 10.19*	78293 10.19*	235	297	349
4900	86507 10.49	83744 10.39	81365 10.37	80116 10.35	80021 10.32*	80125 10.32*	241	305	357
5000	88432 11.01	85611 10.52	83194 10.50	82063 10.47	81858 10.45*	81970 10.44*	247	314	366
5100	90367 11.14	87488 11.04	85048 11.02	83933 11.00	83709 10.57*	83831 10.57*	253	323	375
5200	92312 11.26	89375 11.17	86914 11.15	85828 11.12	85572 11.10*	85758 11.10*	260	335	384
5300	94267 11.38	91272 11.29	88790 11.27	87739 11.25	87446 11.22*	87664 11.22*	266	344	393
PACK FLOW LO ΔFUEL = - 0.1 %		PACK FLOW HI/OR/ AND CARGO COOL ON ΔFUEL = + 2 %			ENGINE ANTI ICE ON ΔFUEL = + 2 %		TOTAL ANTI ICE ON ΔFUEL = + 5 %		

	FLIGHT PLANNING		2.05.40	P 17
	QUICK DETERMINATION OF F-PLN		SEQ 060	REV 19

FLIGHT PLANNING FROM BRAKE RELEASE TO LANDING CLIMB : 250KT/300KT/M.82 - CRUISE : LONG RANGE - DESCENT : M.82/300KT/250KT IMC PROCEDURE : 450 KG (6MIN)									
REF. LANDING WEIGHT = 220000 KG NORMAL AIR CONDITIONING ANTI-ICING OFF				ISA CG = 37.0 %		FUEL CONSUMED (KG)			
AIR DIST. (NM)	FLIGHT LEVEL						TIME (H.MIN) CORRECTION ON FUEL CONSUMPTION (KG/1000KG)		
	310	330	350	370	390	410	FL310 FL330	FL350 FL370	FL390 FL410
5400	96232 11.50	93180 11.42	90679 11.40	89695 11.37*	89333 11.35*	89604 11.35*	273	350	402
5500	98207 12.02	95097 11.54	92711 11.52	91601 11.50*	91233 11.48*	91509 11.47*	279	359	411
5600	100194 12.14	97025 12.06	94639 12.04	93518 12.03*	93147 12.00*	93423 12.00*	289	368	421
5700	102187 12.26	98963 12.19	96580 12.17	95445 12.15*	95073 12.13*	95352 12.13*	296	378	432
5800	104189 12.38	100915 12.31	98535 12.29	97383 12.28*	97012 12.25*	97290 12.25*	303	387	440
5900	106202 12.50	103001 12.43	100506 12.42	99332 12.40*	98965 12.38*	99238 12.38*	310	397	450
6000	108226 13.02	104980 12.56	102472 12.54	101295 12.53*	100935 12.50*	101200 12.50*	321	403	460
6100	110261 13.14	106971 13.08	104448 13.07	103270 13.05*	102918 13.03*	103175 13.03*	329	413	469
6200	112306 13.26	108975 13.21	106438 13.20	105258 13.18*	104915 13.15*	105164 13.15*	337	422	479
6300	114524 13.38	110991 13.33	108443 13.32	107259 13.31*	106977 13.28*	107166 13.28*	341	432	489
6400	116603 13.50	113019 13.46	110463 13.45	109275 13.43*	109013 13.41*	109182 13.41*	349	442	499
6500	118689 14.02	115058 13.58	112497 13.57	111304 13.56*	111066 13.53*	111212 13.53*	358	451	509
6600	120782 14.15	117112 14.10	114544 14.10	113346 14.08*	113133 14.06*	113255 14.06*	363	461	520
6700	122887 14.27	119178 14.23	116607 14.22	115401 14.21*	115214 14.18*	115312 14.18*	371	471	530
6800	125004 14.39	121257 14.35	118689 14.35	117471 14.33*	117315 14.31*	117384 14.31*	380	481	540
6900	127136 14.52	123349 14.48	120800 14.48	119555 14.46*	119433 14.43*	119471 14.43*	390	490	549
7000	129279 15.04	125456 15.00	122930 15.00	121653 14.58*	121568 14.56*	121571 14.56*	399	500	559
7100	131434 15.16	127577 15.12	125113 15.12*	123763 15.11*	123698 15.08*	123684 15.08*	409	510	569
7200	133602 15.28	129712 15.25	127247 15.25*	125889 15.23*	125823 15.21*	125814 15.21*	418	520	579
7300	135786 15.41	131861 15.37	129394 15.37*	128063 15.36*	127962 15.33*	127961 15.33*	421	531	590
7400	137985 15.53	134025 15.49	131554 15.50*	130225 15.48*	130113 15.46*	130122 15.46*	430	542	601
7500	140197 16.05	136211 16.02	133727 16.02*	132402 16.01*	132277 15.58*	132299 15.58*	424	547	611
7600	142424 16.17	138435 16.14	135916 16.15*	134598 16.13*	134456 16.11*	134494 16.11*	434	548	611
7700	144668 16.29	140679 16.26	138118 16.27*	136810 16.26*	136649 16.23*	136706 16.23*	445	559	620
7800	146925 16.41	143048 16.38	140334 16.40*	139040 16.38*	138856 16.36*	138936 16.36*	462	565	629
7900		145342 16.50	142565 16.52*	141287 16.51*	141077 16.48*	141182 16.48*	509	576	641
PACK FLOW LO ΔFUEL = - 0.1 %		PACK FLOW HI OR/ AND CARGO COOL ON ΔFUEL = + 2 %			ENGINE ANTI ICE ON ΔFUEL = + 2 %		TOTAL ANTI ICE ON ΔFUEL = + 5 %		

FLIGHT PLANNING
QUICK DETERMINATION OF F-PLN

FLIGHT PLANNING FROM BRAKE RELEASE TO LANDING CLIMB : 250KT/300KT/M.82 - CRUISE : LONG RANGE - DESCENT : M.82/300KT/250KT IMC PROCEDURE : 450 KG (6MIN)									
REF. LANDING WEIGHT = 220000 KG NORMAL AIR CONDITIONING ANTI-ICING OFF				ISA CG = 37.0 %		FUEL CONSUMED (KG)			
AIR DIST. (NM)	FLIGHT LEVEL						CORRECTION ON FUEL CONSUMPTION (KG/1000KG)		
	310	330	350	370	390	410	FL310 FL330	FL350 FL370	FL390 FL410
8000		147654 17.02	144813 17.05*	143556 17.03*	143315 17.01*	143452 17.01*	525	586	652
8100			147076 17.17*	145843 17.16*	145568 17.13*	145743 17.13*		598	665
8200				148148 17.28*	147837 17.25*	148049 17.25*		648	677
8300									
8400									
8500									
8600									
8700									
8800									
8900									
9000									
PACK FLOW LO ΔFUEL = - 0.1 %		PACK FLOW HI OR/ AND CARGO COOL ON ΔFUEL = + 2 %			ENGINE ANTI ICE ON ΔFUEL = + 2 %			TOTAL ANTI ICE ON ΔFUEL = + 5 %	