



Council of the  
European Union

Brussels, 12 January 2015  
(OR. en)

5159/15  
ADD 15

ENV 9

**COVER NOTE**

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From:	European Commission
date of receipt:	9 January 2015
To:	General Secretariat of the Council
Subject:	Annex to Commission Directive ../.../EU of XXX establishing common noise assessment methods according to Directive 2002/49/EC

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Delegations will find attached document D034332/03 - Part 15.

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Encl.: D034332/03 - Part 15

**EN**

**Table I-7: Jet engine coefficients**

ACFTID	Thrust rating	E (lb)	F (lb/kt)	Ga (lb/ft)	Gb (lb/ft <sup>2</sup> )	H (lb/°C)	K1 (lb/EPR)	K2 (lb/EPR <sup>2</sup> )	K3 (lb/(N1/√θ))	K4 (lb/(N1/√θ) <sup>2</sup> )
1900D	MaxClimb	2548,8	-6,7075	-0,014	0	-0,72				
1900D	MaxTakeoff	3374,6	-9,6869	-0,0046	0	-0,504				
707320	General	-25447,4	-6,79039	-0,01775	0	0	33299,8	-5817		
707320	MaxClimb	15943,8	-13,9584	0,1672	5,7074E-06	0				
707320	MaxTakeoff	18044,7	-15,7976	0,1893	6,4595E-06	0				
707QN	General	-25447,4	-6,79039	-0,01775	0	0	33299,8	-5817		
707QN	MaxClimb	15943,8	-13,9584	0,1672	5,7074E-06	0				
707QN	MaxTakeoff	18044,7	-15,7976	0,1893	6,4595E-06	0				
717200	MaxClimb	15541,5	-17,8282	0,253495	0	0				
717200	MaxClimbHiTemp	22232	-18,025	-0,201	0	-218				
717200	MaxTakeoff	17542,7	-19,588	0,234981	0	0				
717200	MaxTkoffHiTemp	22280,7	-19,819	-0,097	0	-154,5				
720B	General	-27419,9	-5,81791	-0,01175	0	0	35654,5	-6560,9		
720B	MaxClimb	14540,1	-13,4149	0,121548	1,78264E-06	0				
720B	MaxTakeoff	16768,6	-15,471	0,140178	2,0559E-06	0				
727100	General	-14205,5	-4,53212	0	0	0	16602,8	-1403,02		
727100	MaxClimb	12029,2	-7,99864	-0,05203	5,44617E-06	0				
727100	MaxTakeoff	13218,9	-8,78972	-0,05717	5,9848E-06	0				
727D15	General	-14773,7	-5,09534	0	0	0	17717,3	-1845,07		
727D15	MaxClimb	14249,6	-8,103	-0,0436	0	-103				
727D15	MaxTakeoff	14935,3	-7,459	0,3337	0	-14,78				
727D15	MaxTkoffHiTemp	15524,3	-7,066	0	0	-32,38				
727D17	General	-14773,7	-5,09534	0	0	0	17717,3	-1845,07		
727D17	MaxClimb	13812,7	-7,52948	0,207702	-0,000025939	0				
727D17	MaxTakeoff	15519,8	-8,46009	0,233373	-0,000029145	0				
727EM1	MaxClimb	12029,2	-7,99864	-0,05203	5,44617E-06	0				

727EM1	MaxTakeoff	13218,9	-8,78972	-0,05717	5,9848E-06	0				
727EM2	General	-14773,7	-5,09534	0	0	0	17717,3	-1845,07		
727EM2	MaxClimb	14249,6	-8,103	-0,0436	0	-103				
727EM2	MaxTakeoff	14935,3	-7,459	0,3337	0	-14,78				
727EM2	MaxTkoffHiTemp	15524,3	-7,066	0	0	-32,38				
727Q15	General	-14773,7	-5,09534	0	0	0	17717,3	-1845,07		
727Q15	MaxClimb	14249,6	-8,103	-0,0436	0	-103				
727Q15	MaxTakeoff	14935,3	-7,459	0,3337	0	-14,78				
727Q15	MaxTkoffHiTemp	15524,3	-7,066	0	0	-32,38				
727Q7	General	-14205,5	-4,53212	0	0	0	16602,8	-1403,02		
727Q7	MaxClimb	12029,2	-7,99864	-0,05203	5,44617E-06	0				
727Q7	MaxTakeoff	13218,9	-8,78972	-0,05717	5,9848E-06	0				
727Q9	General	-14095,4	-4,77532	0	0	0	16666,2	-1490,42		
727Q9	MaxClimb	12746,2	-8,11613	-0,00049	-4,53384E-06	0				
727Q9	MaxTakeoff	13705,6	-8,72702	-0,00053	-4,8751E-06	0				
727QF	General	-10908	-23,3571	-0,0723	-0,00000138	0	10929,8	2380,86		
727QF	MaxClimb	11266	-9,335	0,169297	-4,70391E-06	0				
727QF	MaxClimbHiTemp	13966	-9,335	0	0	-90				
727QF	MaxContHiTemp	14687	-9,335	0	0	-90				
727QF	MaxContinuous	11987	-9,335	0,158001	-4,70391E-06	0				
727QF	MaxTakeoff	14100	-12,25	0,1495	-0,00001175	0				
727QF	MaxTkoffHiTemp	16800	-12,25	0	0	-90				
737	General	-14095,4	-4,77532	0	0	0	16666,2	-1490,42		
737	MaxClimb	12740,1	-7,93589	-0,02662	-4,2762E-07	0				
737	MaxTakeoff	13847,9	-8,62596	-0,02894	-4,648E-07	0				
737300	General	11106	-10,09	-0,0409	0	0			-369,8	4,835
737300	MaxClimb	17383,1	-15,6072	0,148043	-0,000001	-24,2				
737300	MaxClimbHiTemp	20363,9	-17,0452	-0,06578	-0,000001	-119				
737300	MaxTakeoff	19347	-25,8689	0,456499	-0,0000112	-14,78				
737300	MaxTkoffHiTemp	21143,7	-26,2402	0,398451	-0,000014	-79,95				
7373B2	General	11106	-10,09	-0,0409	0	0			-369,8	4,835
7373B2	MaxClimb	18623,5	-16,4797	0,169674	0	-9,126				

7373B2	MaxClimbHiTemp	21906,6	-17,4327	-0,07536	0	-132,5			
7373B2	MaxTakeoff	21480,7	-25,888	0,225791	0	-8,441			
7373B2	MaxTkoffHiTemp	25393,2	-25,7175	-0,0246	0	-141,3			
737400	General	21384	-13,79	-0,0435	0	0		-615,8	6,409
737400	MaxClimb	19662,2	-18,221	0,207237	0	0			
737400	MaxClimbHiTemp	22875,1	-18,001	-0,07615	0	-124,7			
737400	MaxTakeoff	22116,3	-26,0175	0,259442	0	0			
737400	MaxTkoffHiTemp	26883,2	-26,1707	-0,04324	0	-159,7			
737500	General	11106	-10,09	0,0409	0	0		-369,8	4,835
737500	MaxClimb	17530,9	-16,3556	0,153997	-0,0000013	-23,39			
737500	MaxClimbHiTemp	20510,5	-17,1336	-0,07687	-0,0000004	-122,3			
737500	MaxTakeoff	19629,4	-26,7504	0,550433	-0,0000217	-7,999			
737500	MaxTkoffHiTemp	22636,2	-28,0937	0,225263	0,0000409	-105,6			
737700	MaxClimb	22106,7	-23,7147	0,165546	0,0000065	0			
737700	MaxClimbHiTemp	29618,1	-24,596	-0,273	0	-249,1			
737700	MaxTakeoff	23534,8	-29,3547	0,308407	0	0			
737700	MaxTkoffHiTemp	29335,5	-28,632	-0,105	0	-195,6			
737800	MaxClimb	22403,5	-27,2645	0,305603	0	0			
737800	MaxClimbHiTemp	26593,3	-26,293	-0,078	0	-174,4			
737800	MaxTakeoff	26089,1	-29,1098	0,143559	0	0			
737800	MaxTkoffHiTemp	30143,2	-29,773	-0,029	0	-145,2			
737D17	General	-14773,7	-5,09534	0	0	0	17717,3	-1845,07	
737D17	MaxClimb	13083,2	-7,13185	0,196733	-0,000024569	0			
737D17	MaxTakeoff	15519,8	-8,46009	0,233373	-0,000029145	0			
737N17	General	-14773,7	-5,09534	0	0	0	17717,3	-1845,07	
737N17	MaxClimb	13083,2	-7,13185	0,196733	-0,000024569	0			
737N17	MaxTakeoff	15519,8	-8,46009	0,233373	-0,000029145	0			
737N9	General	-14095,4	-4,77532	0	0	0	16666,2	-1490,42	
737N9	MaxClimb	12740,1	-7,93589	-0,02662	-4,2762E-07	0			
737N9	MaxTakeoff	13847,9	-8,62596	-0,02894	-4,648E-07	0			
737QN	General	-14095,4	-4,77532	0	0	0	16666,2	-1490,42	
737QN	MaxClimb	12740,1	-7,93589	-0,02662	-4,2762E-07	0			

737QN	MaxTakeoff	13847,9	-8,62596	-0,02894	-4,648E-07	0				
74710Q	General	-141079	-11,7298	-0,02833	0	0	201105	-53843		
74710Q	MaxClimb	36791,4	-43,5074	0,3004	-0,0000092	0				
74710Q	MaxTakeoff	42780,7	-50,59	0,349279	-0,000010697	0				
747200	General	-141079	-11,7298	-0,02833	0	0	201105	-53843		
747200	MaxClimb	36791,4	-43,5074	0,3004	-0,0000092	0				
747200	MaxTakeoff	42780,7	-50,59	0,349279	-0,000010697	0				
74720A	General	-32370	-7,83	-0,02105	0	0	47590	0		
74720A	MaxClimb	34860	-35	0,4962	0	0				
74720A	MaxTakeoff	40870	-40,11	0,4435	0	0				
74720B	General	-28110	-10,05	-0,03543	0	0	46375	0		
74720B	MaxClimb	39594	-38,08	0,5262	0	0				
74720B	MaxTakeoff	48866	-43,68	0,6641	0	0				
747400	General	-49250	0	0	0	0	62210	0		
747400	MaxClimb	44157,4	-42,6142	0,635772	0	0				
747400	MaxClimbHiTemp	56826,2	-45,4912	-0,20856	0	-392,3				
747400	MaxTakeoff	53290,5	-53,434	0,606283	0	0				
747400	MaxTkoffHiTemp	66921,4	-54,5627	-0,1278	0	-410,2				
7478	IdleApproach	5920	-19,02	0,225	0	0				
7478	MaxClimb	50523	-39,8663	0,842437	-0,000015	0				
7478	MaxClimbHiTemp	56739,2	-27,469	-0,1411	-0,000015	-343,137				
7478	MaxTakeoff	64247,2	-66,0662	0,481932	0,000004	0				
7478	MaxTkoffHiTemp	80923,7	-71,3162	-0,30655	-0,00001	-520,464				
747SP	General	-141079	-11,7298	-0,02833	0	0	201105	-53843		
747SP	MaxClimb	36791,4	-43,5074	0,3004	-0,0000092	0				
747SP	MaxTakeoff	42780,7	-50,59	0,349279	-0,000010697	0				
757300	MaxClimb	29549,2	-30,6086	0,398179	0	0				
757300	MaxClimbHiTemp	36157	-30,9643	-0,16465	0	-250,7				
757300	MaxTakeoff	40175,5	-35,323	-0,11328	0	0				
757300	MaxTkoffHiTemp	46892,4	-35,6127	-0,53031	0	-241,7				
757PW	General	-44951	-0,83	0,0198	0	0	52972	0		
757PW	MaxClimb	27775,1	-27,6876	0,381725	0	0				

757PW	MaxClimbHiTemp	34748,3	-29,9467	-0,16641	0	-250,7			
757PW	MaxTakeoff	36214,8	-48,2704	0,908044	0	0			
757PW	MaxTkoffHiTemp	45592,5	-49,7383	0,213208	0	-290,6			
757RR	General	-44907	-21,97	-0,0589	0	0	46999	0	
757RR	MaxClimb	30065,2	-32,4779	0,397321	0	0			
757RR	MaxClimbHiTemp	36735,1	-32,445	-0,16871	0	-258,4			
757RR	MaxTakeoff	37802,1	-38,2839	0,527181	0	0			
757RR	MaxTkoffHiTemp	45336,5	-39,1302	-0,00514	0	-257,4			
767300	General	-49250	0	0	0	0	62210	0	
767300	MaxClimb	45480	-41,9	0,559	0	0			
767300	MaxTakeoff	56370	-53	0,251	0	0			
767400	MaxClimb	45902,7	-39,5895	0,633446	0	0			
767400	MaxClimbHiTemp	63647,5	-41,082	-0,55	0	-562,3			
767400	MaxTakeoff	60475,4	-56,8041	0,478788	0	0			
767400	MaxTkoffHiTemp	72425,5	-55,569	-0,236	0	-416,2			
767CF6	General	62790	-35,03	-0,1177	0	0			-1610,37
767CF6	MaxClimb	38057	-43,24	0,705	0	0			14
767CF6	MaxTakeoff	44769	-48,34	0,5	0	0			
767JT9	General	-39777	-17,367	-0,0467	0	0	56550	0	
767JT9	MaxClimb	38700	-34,5	0,49	0	0			
767JT9	MaxTakeoff	43190	-38,3	0,876	0	0			
777200	General	32710	0	0	0	0			-1258
777200	MaxClimb	67093,7	-85,7553	1,8498	-0,000076	0			16,16
777200	MaxClimbHiTemp	82096,7	-72,2859	-0,32818	-0,0000179	-637			
777200	MaxTakeoff	93672,6	-122,251	1,1818	-0,0000806	0			
777200	MaxTkoffHiTemp	114758,6	-125,38	-0,159	-0,0000261	-702,4			
777300	MaxClimb	64636,2	-70,833	0,880073	0	0			
777300	MaxClimbHiTemp	90015,1	-70,745	-0,852	0	-823			
777300	MaxTakeoff	87833,8	-97,7894	0,27543	0	0			
777300	MaxTkoffHiTemp	103835,2	-97,831	-0,632	0	-549,1			
7773ER	IdleApproach	8950	-27,25	0,131	0	0			
7773ER	MaxClimb	92110	-119	1,14	-0,000007	0			

7773ER	MaxClimbHiTemp	96550	-69,4	-0,542	-0,00005	-533			
7773ER	MaxTakeoff	112250	-120	0,713	-0,00011	0			
7878R	IdleApproach	3425	-12,03	0,0955	0	0			
7878R	MaxClimb	61142,6	-78,8116	1,219801	-0,000039	0			
7878R	MaxClimbHiTemp	65000	-55	0,1	-0,00002	-404,274			
7878R	MaxTakeoff	71214,6	-93,4796	0,652462	0,000002	0			
7878R	MaxTkoffHiTemp	86784,2	-92	-0,27021	-0,00001	-520,488			
A300-622R	General	-148952	-6,71	-0,03	0	0	203740	-50104,7	
A300-622R	IdleApproach	8432,8	-47,7662	0,750523	-0,000059071	0			
A300-622R	IdleApproachHiTemp	8432,8	-47,7662	0,750523	-0,000059071	0			
A300-622R	MaxClimb	44457,2	-45,778	0,735506	-0,000015775	0			
A300-622R	MaxClimbHiTemp	52183,7	-44,1929	0	0	-271			
A300-622R	MaxTakeoff	56307,1	-50,9157	0,405632	-2,0986E-06	0			
A300-622R	MaxTkoffHiTemp	61250,3	-51,5373	0	0	-192			
A300B4-203	General	-132687	-30,4092	-0,10796	4,02686E-07	0		2535,75	-8,23842
A300B4-203	MaxClimb	43416,5	-35	-0,12523	6,27209E-07	0			
A300B4-203	MaxTakeoff	49336,9	-39,8243	-0,14231	7,12738E-07	0			
A310-304	General	41317	-32,9	-0,0857	-0,0000016	0	-1131,6	11,8	
A310-304	IdleApproach	4613,2	-22,0136	0,082133	-2,7376E-06	0			
A310-304	IdleApproachHiTemp	4613,2	-22,0136	0,082133	-2,7376E-06	0			
A310-304	MaxClimb	42008	-49,5706	1,64076	-0,000043059	0			
A310-304	MaxClimbHiTemp	55143,3	-37,4839	0	0	-505			
A310-304	MaxTakeoff	50530,5	-51,1538	1,26398	-0,000012839	0			
A310-304	MaxTkoffHiTemp	71457,7	-50,7768	0	0	-608			
A319-131	General	-105513	-6,58	0,006828	-8,055E-07	0	149900	-42300	
A319-131	IdleApproach	1219,5	-7,22737	0,154266	-0,000007955	0			
A319-131	IdleApproachHiTemp	1219,5	-7,22737	0,154266	-0,000007955	0			
A319-131	MaxClimb	14957,2	1,71654	0,442593	-0,000013824	0			
A319-131	MaxClimbHiTemp	12977,6	18,59062	0	0	-78,7			

A319-131	MaxTakeoff	21435,4	-21,3236	0,309465	1,26125E-05	0			
A319-131	MaxTkoffHiTemp	23853,8	-18,7311	0	0	-76,8			
A320-211	General	24380	-18,534	-0,07842	-2,509E-07	0		-669,457	6,9451
A320-211	IdleApproach	2858,8	-14,7325	0,096537	-6,7861E-06	0			
A320-211	IdleApproachHiTemp	2858,8	-14,7325	0,096537	-6,7861E-06	0			
A320-211	MaxClimb	16859,1	-4,3786	0,183576	2,9851E-06	0			
A320-211	MaxClimbHiTemp	19148,5	-6,50173	0	0	-95			
A320-211	MaxTakeoff	23652,9	-22,9338	0,295879	-5,4631E-06	0			
A320-211	MaxTkoffHiTemp	27385	-23,3	0	0	-132			
A320-232	General	-65083,3	-7,25	-0,01918	2,575E-08	0	87817,6	-18693,1	
A320-232	IdleApproach	1138,9	-6,52566	0,1667	-9,2579E-06	0			
A320-232	IdleApproachHiTemp	1138,9	-6,52566	0,1667	-9,2579E-06	0			
A320-232	MaxClimb	15539,2	-4,08932	0,438331	-0,00001439	0			
A320-232	MaxClimbHiTemp	14111,4	10,67953	0	0	-82,2			
A320-232	MaxTakeoff	24746,2	-25,2473	0,304165	9,2451E-06	0			
A320-232	MaxTkoffHiTemp	29506,5	-24,4165	0	0	-139			
A321-232	General	-26190,2	-6,6	-0,0197	-3,408E-07	0	33032,2	0	
A321-232	IdleApproach	1274,1	-7,34054	0,175187	-0,000011478	0			
A321-232	IdleApproachHiTemp	1274,1	-7,34054	0,175187	-0,000011478	0			
A321-232	MaxClimb	21870,8	-21,4867	0,380647	-5,5566E-06	0			
A321-232	MaxClimbHiTemp	24158,5	-16,8504	0	0	-147			
A321-232	MaxTakeoff	28636,4	-26,7318	0,249782	-3,9163E-06	0			
A321-232	MaxTkoffHiTemp	31608,2	-25,9736	0	0	-114			
A330-301	General	-36339,3	-31,32	-0,1297	0	0		484,645	4,0056
A330-301	IdleApproach	4572,4	-26,0005	0,013461	2,8669E-06	0			
A330-301	IdleApproachHiTemp	4572,4	-26,0005	0,013461	2,8669E-06	0			
A330-301	MaxClimb	34249,9	25,9859	0,764157	-8,1437E-07	0			
A330-301	MaxClimbHiTemp	46667,8	10,51272	0	0	-346			
A330-301	MaxTakeoff	61384,5	-48,4678	0,582821	-6,2628E-06	0			
A330-301	MaxTkoffHiTemp	69058	-46,465	0	0	-288			



A330-343	General	-127410	-9,31	-0,0386	0,000000569	0	162922	-29498,6		
A330-343	IdleApproach	3134,3	-13,0338	0,085938	1,7155E-06	0				
A330-343	IdleApproachHiTemp	3134,3	-13,0338	0,085938	1,7155E-06	0				
A330-343	MaxClimb	44462	-12,031	0,711026	5,12762E-06	0				
A330-343	MaxClimbHiTemp	63522,4	-50,7504	0	0	-411				
A330-343	MaxTakeoff	69831	-77,9676	0,882955	-0,000026894	0				
A330-343	MaxTkoffHiTemp	85732,2	-78,8957	0	0	-451				
A340-211	General	19716	-17,65	-0,0878	0	0			-590,77	7,341
A340-211	IdleApproach	4019,5	-20,508	-0,02271	1,16972E-05	0				
A340-211	IdleApproachHiTemp	4019,5	-20,508	-0,02271	1,16972E-05	0				
A340-211	MaxClimb	26802,9	-28,8264	0,31673	3,50144E-06	0				
A340-211	MaxClimbHiTemp	31091,8	-31,4492	0	0	-160				
A340-211	MaxTakeoff	29929,8	-30,7732	0,29922	-4,1757E-06	0				
A340-211	MaxTkoffHiTemp	34594,4	-30,094	0	0	-175				
A340-642	IdleApproach	6529,4	-29,9521	0,272155	-0,000020281	0				
A340-642	IdleApproachHiTemp	6529,4	-29,9521	0,272155	-0,000020281	0				
A340-642	MaxClimb	42621,6	-44,2784	0,484124	2,668E-07	0				
A340-642	MaxClimbHiTemp	50112	-60,5262	0	0	-212				
A340-642	MaxTakeoff	55248,1	-61,4744	0,506968	-9,6324E-06	0				
A340-642	MaxTkoffHiTemp	63276,8	-59,6458	0	0	-300				
A380-841	IdleApproach	10914,8	-31,2899	-2,1424	0,000260636	0				
A380-841	IdleApproachHiTemp	10914,8	-31,2899	-2,1424	0,000260636	0				
A380-841	MaxClimb	63586,2	-53,9292	1,23082	-0,00003343	0				
A380-841	MaxClimbHiTemp	72974,3	-52,6993	0	0	-420				
A380-841	MaxTakeoff	71176,1	-84,4052	0,220679	0,000428339	0				
A380-841	MaxTkoffHiTemp	90820,8	-94,5354	0	0	-610				
A380-861	IdleApproach	8921,7	-30,2153	-0,87777	0,000104691	0				
A380-861	IdleApproachHiTemp	8921,7	-30,2153	-0,87777	0,000104691	0				
A380-861	MaxClimb	66053,2	-61,754	0,977183	-0,000025178	0				

A380-861	MaxClimbHiTemp	73729,7	-65,1895	0	0	-324			
A380-861	MaxTakeoff	70053,6	-76,0931	0,838794	-0,000010766	0			
A380-861	MaxTkoffHiTemp	83320,5	-82,3362	0	0	-432			
BAC111	MaxClimb	9827,9	-5,89674	-0,01966	0	0			
BAC111	MaxTakeoff	11168,1	-6,70084	-0,02234	0	0			
BAE146	General	-13783	-9,9585	0,056057	-1,23124E-05	0		304,295	-0,84327
BAE146	MaxClimb	6339,4	-9,9585	0,056057	-0,0000035	0			
BAE146	MaxTakeoff	6542,4	-9,9585	0,056057	-0,0000035	0			
BAE300	General	-13783	-9,9585	0,056057	-1,23124E-05	0		304,295	-0,84327
BAE300	MaxClimb	6339,4	-9,9585	0,056057	-0,0000035	0			
BAE300	MaxTakeoff	6542,4	-9,9585	0,056057	-0,0000035	0			
CIT3	MaxClimb	2987,4	-3,4992	0,06123	-1,1664E-06	0			
CIT3	MaxTakeoff	3319,3	-3,888	0,068032	-0,000001296	0			
CL600	MaxClimb	5543,3	-5,6542	0,08442	0	0			
CL600	MaxTakeoff	6159,2	-6,2824	0,0938	0	0			
CL601	MaxClimb	6517,3	-6,6476	0,09776	0	0			
CL601	MaxTakeoff	7241,4	-7,3862	0,10862	0	0			
CNA208	MaxClimb	2953,9	-8,581	-0,00453	-7,2035E-07	-1,44			
CNA208	MaxTakeoff	3245,2	-11,69	-0,01053	-6,777E-07	-1,62			
CNA500	General	1743,1	-1,64678	-0,00201	-1,5642E-07	0		-49,6794	0,545
CNA500	MaxClimb	1919,5	-1,99614	0,0615	-2,40502E-06	0			
CNA500	MaxTakeoff	2132,8	-2,21793	0,068333	-2,67224E-06	0			
CNA510	General	4234,6	-1,68388	0,001047	-5,78019E-08	0		-103,817	0,811333
CNA510	MaxClimb	1486	-1,60533	0	-1,04748E-07	0			
CNA510	MaxTakeoff	1492,8	-1,87734	0	-2,55208E-06	0			
CNA525C	General	1528,4	-2,83667	-0,00013	2,55648E-07	0		-51,50512788	0,72401346
CNA525C	MaxClimb	3001,7	-2,38854	0,004585	-1,4045E-07	0			
CNA525C	MaxTakeoff	3464,1	-2,5254	0,001981	-1,46353E-06	0			
CNA55B	General	1373,8	-2,2903	-8,9E-05	3,2273E-08	0		-44,861	0,66327
CNA55B	MaxClimb	2323,1	-2,4386	0,002159	-2,1456E-07	0			
CNA55B	MaxTakeoff	2658,7	-2,6269	-0,00359	1,7262E-07	0			

CNA560E	General	1533,4	-2,49247	0,011973	-6,90894E-07	0			-53,9835	0,839574
CNA560E	MaxClimb	3194,3	-2,53358	0,028038	2,70832E-07	0				
CNA560E	MaxTakeoff	3316,5	-2,7005	0,04349	-6,52616E-07	0				
CNA560U	MaxClimb	2597,5	-2,22178	0,023781	6,12239E-08	0				
CNA560U	MaxTakeoff	2920	-2,0264	0,025133	2,95314E-07	0				
CNA560XL	MaxClimb	3454,5	-3,98132	-0,0704	0	0				
CNA560XL	MaxTakeoff	3838,3	-4,42368	-0,07823	0	0				
CNA680	General	2904,8	-4,80092	-0,00174	5,62892E-07	0			-101,327	1,3401
CNA680	MaxClimb	5520,2	-5,32711	-0,02377	1,89918E-06	0				
CNA680	MaxTakeoff	5683	-6,55907	-0,00159	8,72971E-07	0				
CNA750	General	4778,6	-6,56521	0,000671	-4,11321E-07	0			-146,712	1,9748
CNA750	MaxClimb	6097,8	-7,0102	-0,00528	3,74689E-08	0				
CNA750	MaxTakeoff	6127,8	-7,07624	-0,00394	3,95764E-08	0				
CONCRD	MaxClimb	33252,1	-26,6	0,2328	0	0				
CONCRD	MaxTakeoff	39653	-31,722	0,2776	0	0				
CRJ9-ER	General	6087,3	-9,35507	-0,04736	1,55476E-07	-1,4767			-183,9266	2,785981
CRJ9-ER	IdleApproach	1163,1	-4,5855	-0,0238	1,63611E-06	-0,0249				
CRJ9-ER	MaxClimb	10438,3	-9,64192	0,15855	-3,00077E-07	-1,3095				
CRJ9-ER	MaxClimbHiTemp	12973,4	-9,57675	-0,05589	3,05523E-07	-100,415				
CRJ9-ER	MaxTakeoff	13260,6	-16,6244	0,19849	-7,00045E-06	-1,6224				
CRJ9-ER	MaxTkoffHiTemp	16247,3	-17,4575	0,077341	-1,06353E-05	-109,219				
CRJ9-LR	General	6087,3	-9,35507	-0,04736	1,55476E-07	-1,4767			-183,9266	2,785981
CRJ9-LR	IdleApproach	1163,1	-4,5855	-0,0238	1,63611E-06	-0,0249				
CRJ9-LR	MaxClimb	10438,3	-9,64192	0,15855	-3,00077E-07	-1,3095				
CRJ9-LR	MaxClimbHiTemp	12973,4	-9,57675	-0,05589	3,05523E-07	-100,415				
CRJ9-LR	MaxTakeoff	13260,6	-16,6244	0,19849	-7,00045E-06	-1,6224				
CRJ9-LR	MaxTkoffHiTemp	16247,3	-17,4575	0,077341	-1,06353E-05	-109,219				
DC1010	General	25027,6	-27,4313	-0,07828	0	0			-694,556	8,02362
DC1010	MaxClimb	30596	-28,4416	-0,10164	5,0902E-07	0				
DC1010	MaxTakeoff	35985,4	-30,9909	-0,11075	5,5465E-07	0				
DC1030	MaxClimb	38520	-29,38	0,49	0	0				
DC1030	MaxTakeoff	49310	-42,42	0,61	0	0				

DC1040	General	-143602	-14,4996	-0,05026	0	0	204567	-54761,9		
DC1040	MaxClimb	34087,9	-12,9859	-0,04641	2,3241E-07	0				
DC1040	MaxTakeoff	41594,9	-22,3071	-0,07971	3,9923E-07	0				
DC850	General	-22582,8	-6,58409	-0,02081	0	0	29070,9	-4341,84		
DC850	MaxClimb	14243,5	-5,6565	-0,02021	1,0123E-07	0				
DC850	MaxTakeoff	15670,3	-5,8955	-0,02107	1,0551E-07	0				
DC860	General	-27959,5	-6,35297	-0,01835	0	0	35850,3	-6157,74		
DC860	MaxClimb	15558,7	-7,2339	-0,02585	1,2947E-07	0				
DC860	MaxTakeoff	16740,5	-4,9394	-0,01765	8,8401E-08	0				
DC870	General	11106	-10,09	-0,0409	0	0			-369,8	4,835
DC870	MaxClimb	18859	-17,91	0,1953	0	-2,034				
DC870	MaxTakeoff	20758	-20,65	0,2173	0	0				
DC8QN	General	-27959,5	-6,35297	-0,01835	0	0	35850,3	-6157,74		
DC8QN	MaxClimb	15558,7	-7,2339	-0,02585	1,2947E-07	0				
DC8QN	MaxTakeoff	16740,5	-4,9394	-0,01765	8,8401E-08	0				
DC910	General	-10596,5	-1,51369	-0,00525	0	0	11541,7	162,698		
DC910	MaxClimb	11194,3	-3,0274	-0,01082	5,4181E-08	0				
DC910	MaxTakeoff	12308,2	-0,478	0,001708	8,55E-09	0				
DC930	General	-13523,2	-2,66888	-0,00925	0	0	15803,6	-1257,94		
DC930	MaxClimb	11561,8	-2,94773	-0,01053	5,2756E-08	0				
DC930	MaxTakeoff	12972	-2,31038	-0,00826	4,1349E-08	0				
DC93LW	General	-13523,2	-2,66888	-0,00925	0	0	15803,6	-1257,94		
DC93LW	MaxClimb	11561,8	-2,94773	-0,01053	5,2756E-08	0				
DC93LW	MaxTakeoff	12972	-2,31038	-0,00826	4,1349E-08	0				
DC950	General	-13523,2	-2,66888	-0,00925	0	0	15803,6	-1257,94		
DC950	MaxClimb	12365,4	-2,54939	-0,00911	4,5627E-08	0				
DC950	MaxTakeoff	14698,5	-2,13511	-0,00763	3,8212E-08	0				
DC95HW	General	-13523,2	-2,66888	-0,00925	0	0	15803,6	-1257,94		
DC95HW	MaxClimb	12365,4	-2,54939	-0,00911	4,5627E-08	0				
DC95HW	MaxTakeoff	14698,5	-2,13511	-0,00763	3,8212E-08	0				
DC9Q7	General	-10596,5	-1,51369	-0,00525	0	0	11541,7	162,698		
DC9Q7	MaxClimb	11194,3	-3,0274	-0,01082	5,4181E-08	0				

DC9Q7	MaxTakeoff	12308,2	-0,478	0,001708	8,55E-09	0				
DC9Q9	General	-13523,2	-2,66888	-0,00925	0	0	15803,6	-1257,94		
DC9Q9	MaxClimb	11561,8	-2,94773	-0,01053	5,2756E-08	0				
DC9Q9	MaxTakeoff	12972	-2,31038	-0,00826	4,1349E-08	0				
DHC8	General	2010,7	-19,409	0,07743	0	0			54,6666	-0,0828
DHC8	MaxClimb	6323,6	-21,4445	0,088232	0	0				
DHC8	MaxTakeoff	7026,2	-23,8272	0,098036	0	0				
DHC830	General	1623,1	-18,411	0,075104	0	0			72,6356	-0,17951
DHC830	MaxClimb	6679	-21,9919	0,090305	0	0				
DHC830	MaxTakeoff	7421,1	-24,4354	0,100339	0	0				
DO228	MaxClimb	2571	-7,9721	0,07004	-4,9292E-06	0				
DO228	MaxTakeoff	2524,3	-8,067	0,06042	-6,8678E-06	0				
DO328	MaxClimb	7752,5	-23,2	0,225	-0,0000158	0				
DO328	MaxTakeoff	8138,2	-28,1	0,199	-0,000021	0				
ECLIPSE500	MaxClimb	947,7	-0,73662	0,018307	2,63346E-07	-0,0571				
ECLIPSE500	MaxClimbHiTemp	1077,4	-1,20966	-0,00912	1,28125E-07	-9,84248				
ECLIPSE500	MaxTakeoff	1039,2	-1,57439	0,034769	-0,000002274	-0,0323				
ECLIPSE500	MaxTkoffHiTemp	1258,9	-1,6144	-0,00748	3,13285E-08	-10,7499				
ECLIPSE500	ReduceClimb	1084,2	-1,38862	0,009974	7,08687E-08	0,048579				
ECLIPSE500	ReduceClimbHiTemp	1168,6	-1,50732	-0,01586	3,07776E-07	-11,2558				
EMB120	MaxClimb	4668	-11,932	0,0664	0	-5,663				
EMB120	MaxTakeoff	5212	-12,45	0,0728	0	-6,87				
EMB145	MaxClimb	5554,3	-6,86092	0,065416	0	-4,036				
EMB145	MaxTakeoff	7499,5	-9,12812	0,045563	0	-22,89				
EMB14L	MaxClimb	6432,5	-7,56929	0,069004	0	-5,419				
EMB14L	MaxTakeoff	7246,1	-8,61031	0,232825	0	-0,9689				
EMB170	IdleApproach	945	-3,5	-0,01	0	0				
EMB170	MaxClimb	11716	-13,423	0,25	-0,000019	0				
EMB170	MaxTakeoff	13350	-17,43	0,1875	-0,000013	-4,47				

EMB175	IdleApproach	945	-3,5	-0,01	0	0				
EMB175	MaxClimb	11716	-13,423	0,25	-0,000019	0				
EMB175	MaxTakeoff	13350	-17,43	0,1875	-0,000013	-4,47				
EMB190	IdleApproach	1080	-3,65	0,011	0	0				
EMB190	MaxClimb	15137	-14,3	0,239	-0,0000187	0				
EMB190	MaxTakeoff	17499	-18,99	0,3207	-0,000021	-4,29				
EMB195	IdleApproach	1080	-3,65	0,011	0	0				
EMB195	MaxClimb	15137	-14,3	0,239	-0,0000187	0				
EMB195	MaxTakeoff	17499	-18,99	0,3207	-0,000021	-4,29				
F10062	MaxClimb	10472	-9,57	0,137	0	0				
F10062	MaxTakeoff	13551	-16,56	0,2804	0	0				
F10065	MaxClimb	10970	-10,52	0,1238	0	0				
F10065	MaxTakeoff	14814	-16,72	0,065	0	0				
F28MK2	MaxClimb	8408	-4,72	0,1048	0	0				
F28MK2	MaxTakeoff	9851	-7,68	0,0889	0	0				
F28MK4	MaxClimb	8459	-4,874	0,0997	0	0				
F28MK4	MaxTakeoff	9905	-7,445	0,0765	0	0				
FAL20	MaxClimb	4102	-2,3831	-0,11465	1,02126E-05	0				
FAL20	MaxTakeoff	4017,4	-3,4567	0,058024	-2,49247E-06	0				
GII	MaxClimb	9827,9	-5,89674	-0,01966	0	0				
GII	MaxTakeoff	11324	-9,697	0,1539	-0,000004	0				
GII	MaxTkoffHiTemp	12833	-8,35	0,0346	-0,000004	-74,58				
GII	ReduceClimb	6030	0	-0,0081	0,0000002	0				
GII	ReduceTakeoff	9060	-7,27	0,121	-0,000003	0				
GII	ReduTkoffHiTemp	10266	-6,25	0,0277	-0,0000003	-59,7				
GIIB	MaxClimb	9827,9	-5,89674	-0,01966	0	0				
GIIB	MaxTakeoff	11324	-9,697	0,1539	-0,000004	0				
GIIB	MaxTkoffHiTemp	12833	-8,35	0,0346	-0,000004	-74,58				
GIIB	ReduceClimb	5369	0	-0,0081	0	0				
GIIB	ReduceTakeoff	9060	-7,27	0,121	-0,000003	0				
GIIB	ReduTkoffHiTemp	10266	-6,25	0,0277	-0,0000003	-59,7				
GIV	MaxClimb	10770	-10,96	0,1784	-0,000001	0				

GIV	MaxClimbHiTemp	11805	-9,4	-0,0624	0	-89				
GIV	MaxTakeoff	13725	-18,2	0,3189	-0,00002	0				
GIV	MaxTkoffHiTemp	17129	-17,6	-0,0472	0,0000003	-114				
GV	MaxClimb	12400	-11,6	0,12	0	0				
GV	MaxClimbHiTemp	14900	-11,2	-0,11	0	-107				
GV	MaxTakeoff	14600	-18,86	0,1649	0	0				
GV	MaxTkoffHiTemp	18970	-18,4	-0,115	0	-126,5				
IA1125	MaxClimb	3114,4	-3,4992	0,04125	-2,81988E-06	0				
IA1125	MaxTakeoff	3460,5	-3,888	0,045834	-3,1332E-06	0				
L1011	General	-80222,2	-25,0263	0	0	0	92893,5	-10186,1		
L1011	MaxClimb	34204,8	-43,8172	0,270193	2,0153E-06	0				
L1011	MaxTakeoff	40720	-52,1633	0,321659	2,3992E-06	0				
L10115	MaxClimb	39532,9	-44,0258	0,27148	2,02494E-06	0				
L10115	MaxTakeoff	46840	-52,1633	0,321659	2,3992E-06	0				
LEAR25	MaxClimb	2560,9	-1,8352	-0,01509	1,95912E-06	0				
LEAR25	MaxTakeoff	2845,4	-2,03911	-0,01677	2,1768E-06	0				
LEAR35	MaxClimb	3071	-3,4992	-0,00397	1,38915E-06	0				
LEAR35	MaxTakeoff	3412,2	-3,888	-0,00441	1,5435E-06	0				
MD11GE	MaxClimb	47037	-45,71	0,854	0	-368,1				
MD11GE	MaxTakeoff	57156	-42,73	0,303	0	-357,5				
MD11PW	MaxClimb	51197	-59,27	0,416	0	-357				
MD11PW	MaxTakeoff	57661	-51,3	0,513	0	-426,6				
MD81	General	-15384	-10	0,019	0	0	17917	0		
MD81	MaxClimb	18040,9	-8,83022	-0,02993	0	-114,3				
MD81	MaxClimbHiTemp	21047,1	-12,8373	-0,07163	0	-151,8				
MD81	MaxTakeoff	18810,5	-11,1271	0,092622	0	-2,101				
MD81	MaxTkoffHiTemp	22678,5	-14,546	-0,05823	0	-138,4				
MD82	General	-13488	-10	0,025	0	0	16750	0		
MD82	MaxClimb	16810,1	-5,36467	0,048334	0	-60,8				
MD82	MaxClimbHiTemp	22606,4	-13,9975	-0,09177	0	-168,1				
MD82	MaxTakeoff	19344,5	-15,5531	0,333164	0	-1,031				
MD82	MaxTkoffHiTemp	24452	-16,6869	0,005711	0	-162,5				

MD83	General	-13845	-13,33	0,019	0	0	17500	0		
MD83	MaxClimb	18075,2	-7,63873	0,058915	0	-64,7				
MD83	MaxClimbHiTemp	23181,6	-13,4908	-0,09344	0	-164				
MD83	MaxTakeoff	20080,8	-11,9047	0,191099	0	-4,078				
MD83	MaxTkoffHiTemp	25460,4	-15,5681	-0,05468	0	-176,1				
MD9025	General	-31899	-8,5718	-0,0276	0	0	37206	0		
MD9025	MaxClimb	23881	-30,625	0,2551	0	0				
MD9025	MaxClimbHiTemp	27078,4	-30,625	0	0	-213,2				
MD9025	MaxTakeoff	23066	-23,5769	0,3147	0	0				
MD9025	MaxTkoffHiTemp	28697,1	-23,5769	0	0	-225,2				
MD9028	General	-31899	-8,5718	-0,0276	0	0	37206	0		
MD9028	MaxClimb	23421	-26,5453	0,2599	0	0				
MD9028	MaxClimbHiTemp	26678,6	-26,5453	0	0	-217,2				
MD9028	MaxTakeoff	25656	-25,3418	0,2419	0	0				
MD9028	MaxTkoffHiTemp	30520	-25,3418	0	0	-194,6				
MU3001	General	1743,1	-1,64678	-0,00201	-1,5642E-07	0			-49,6794	0,545
MU3001	MaxClimb	1919,5	-1,99614	0,0615	-2,40502E-06	0				
MU3001	MaxTakeoff	2132,8	-2,21793	0,068333	-2,67224E-06	0				
PA42	MaxClimb	2295,2	-6,6307	0,041917	5,8567E-07	0				
PA42	MaxTakeoff	2219,6	-5,9898	0,044468	2,8008E-07	0				