

TRANSPORT CANADA AERODROME STANDARDS

Aircraft Pavement Design & Evaluation Chart Packages

This document lists the aircraft for which “Pavement Design & Evaluation Charts” (DEC’s) are presently available. Charts have been developed for both flexible and rigid pavements.

The charts have been converted to Adobe Acrobat file format and organized into a series of “small” file packages to facilitate download over the Internet. The aircraft models contained in each file package are listed below along with the names of the chart package and Adobe Acrobat (pdf) file.

DEC Package “A” – Filename “DEC_A.pdf” contains the following aircraft:

(Download File Size: 2348 KB)

<u>Aircraft Model</u>	<u>Max Weight (kN)</u>	<u>Min Weight (kN)</u>	<u>Tire Pressure (MPa)</u>
A300-B, B2	1353	840	1.16
A300-B4-200	1627	1236	1.28
A300-B4-200 (Opt Bogie)	1627	1236	1.16
A300-B4-600R	1693	1275	1.35
A300-B4-600R (Opt Bogie)	1693	1275	1.21
A300-C4	1627	1216	1.24
A310-200, 200C	1509	800	1.46
A310-300 (Configuration 1)	1480	1108	1.19
A310-300 (Configuration 2)	1549	1118	1.48
A310-300 (Configuration 3)	1617	1118	1.29
A310-322 SR, BB	1500	1064	1.45
A310-324	1540	800	1.24
A310-325	1608	1100	1.38
A318-100	607	382	0.89
A319-100 (Configuration 1)	632	382	0.89
A319-100 (Configuration 2)	690	382	1.07
A319-100 (Configuration 3)	744	382	1.38
A320-100	667	390	1.21
A320-200 (Configuration 1)	725	402	1.03
A320-200 (Configuration 2)	744	422	1.14
A320-200 (Configuration 3)	759	441	1.44
A320-200 (Opt Bogie)	725	402	1.22
A320-212 (Opt 4-Wheel Bogie)	764	490	1.22
A321-100 (Configuration 1)	769	461	1.28
A321-100 (Configuration 2)	818	461	1.36
A321-200	877	461	1.46

A330-200 (Configuration 1)	2137	1650	1.34
A330-200 (Configuration 2)	2264	1650	1.42
A330-300 (Configuration 1)	2088	1638	1.31
A330-300 (Configuration 2)	2137	1657	1.33
A330-300 (Configuration 3)	2264	1697	1.42
A340-200 (Configuration 1)	2559	1657	1.32
A340-200 (Configuration 2)	2706	1697	1.42
A340-300 (Configuration 1)	2559	1706	1.32
A340-300 (Configuration 2)	2706	1765	1.42
A340-500, 600	3590	1750	1.42
A380-800 (6W Main Gear)	5514	2758	1.47
A380-800 (4W Wing Gear)	5514	2758	1.47
Antonov AN-24	207	130	0.42
Antonov AN-124-100	3844	2000	1.03
Antonov AN-225	5884	4500	1.13
ATR 42 (Aerospatiale)	182	110	0.72
ATR 72 (Aerospatiale)	211	125	0.79
Aurora (CP-140) (P-3 Orion)	600	275	1.31

DEC Package “B” – Filename “DEC_B.pdf” contains the following aircraft:

(Download File Size: 3056 KB)

<u>Aircraft Model</u>	<u>Max Weight (kN)</u>	<u>Min Weight (kN)</u>	<u>Tire Pressure (MPa)</u>
B-52 (Bomber)	2170	1500	1.65
B1-B Bomber (Rockwell)	2123	1400	1.65
B707-120, 120B	1150	700	1.17
B707-320, 320B, 320C, 420	1484	800	1.24
B717-100, 200, 300	543	310	1.10
B720, 720B	1045	700	1.01
B727-100, 100C	756	450	1.14
B727-200	770	450	1.15
B727-200 (Advanced)	934	450	1.19
B727-200F (Advanced)	907	450	1.15
B737-100	445	260	1.02
B737-200, 200C, Advanced	572	300	1.26
B737-300	623	325	1.40
B737-400	670	350	1.28
B737-500	596	320	1.34
B737-600	645	357	1.30
B737-700	690	370	1.39
B737-800	777	406	1.47
B737-900	777	420	1.47
B737-BBJ	763	421	1.47

B747-100, 100B, 100SF	3350	1700	1.55
B747-100SR	2690	1600	1.04
B747-200B,200C,200F,200M	3720	1750	1.38
B747-300, 300M, 300SR	3720	1760	1.31
B747-400, 400F, 400M	3905	1800	1.38
B747-400D (Domestic)	2729	1782	1.04
B747-SP	3127	1500	1.26
B757-200 Series	1134	570	1.24
B757-300	1200	640	1.24
B767-200	1410	800	1.31
B767-200 ER	1726	830	1.31
B767-300	1566	860	1.38
B767-300 ER	1784	890	1.38
B777-200	2389	1335	1.28
B777-200 ER	2823	1343	1.48
B777-200 LR	3345	1424	1.50
B777-300	2945	1562	1.48
B777-300 ER	3345	1646	1.50
BAC-111 Series 400	390	220	0.97
BAC-111 Series 475	440	230	0.57
BAC-111 Series 500	467	250	1.10
BAe-146-100	376	230	0.84
BAe-146-200	416	235	0.97
BAe-146-300	436	245	1.10
BAe-ATP	232	140	0.85
Beech 1900C, 1900D	76	47	0.67
Beech 2000 Starship	65	44	0.54
Beech 35, 36 Series (Bonanza)	16	10	0.28
Beech 55,56,58 Series (Baron)	25	16	0.39
Beech Jet 400, 400A	73	48	0.86
Beech King Air 100, 200 Series	56	36	0.73
Beech King Air 300, 300C 350, 350C	67	40	0.73
Beech King Air 90 Series	49	27	0.38
Beech Queen Air 65, 70 80 Series	40	25	0.33
Bombardier 415 (Canadair CL-215, 415)	196	130	0.53
Bombardier BD-700 Global Express, XRS	437	230	1.15
Bombardier Challenger 300	168	100	1.21
Bombardier Challenger 800	237	151	1.12
Bombardier Challenger CL 600, 601, 604	215	119	1.21
Bombardier CRJ100, CRJ200, CRJ440	237	136	1.12
Bombardier CRJ700 Series	335	195	1.06

Bombardier CRJ900 Series	377	212	1.06
Bombardier Dash 8 Q100, Q200 Series	162	103	0.90
Bombardier Dash 8 Q300 Series	192	116	0.67
Bombardier Dash 8 Q400	287	168	0.67
Bombardier Global 5000	391	224	1.15

DEC Package “C - D” – Filename “DEC_C-D.pdf” contains the following aircraft:

(Download File Size: 2442 KB)

<u>Aircraft Model</u>	<u>Max Weight (kN)</u>	<u>Min Weight (kN)</u>	<u>Tire Pressure (MPa)</u>
C-123K Provider (Fairchild/Republic)	267	180	0.69
C-141B Starlifter (Lockheed)	1553	600	1.31
C-17A (Globemaster III)	2736	1255	0.95
C-5 Galaxy (Lockheed)	3723	1665	0.77
Canadair CL-41A (CT-114 Tutor)	49	24	0.37
Cessna 114B (Commander)	15	10	0.35
Cessna 152	8	5	0.20
Cessna 172 (Skyhawk)	11	7	0.19
Cessna 180 (Skywagon)	13	8	0.21
Cessna 182 (Skylane)	14	9	0.25
Cessna 185 (Skywagon)	15	8	0.25
Cessna 208 (Caravan)	36	18	0.60
Cessna 210 (Centurion)	18	11	0.38
Cessna 310	25	16	0.42
Cessna 337 (Skymaster)	21	14	0.38
Cessna 401	28	20	0.45
Cessna 402C, 414A (Chancellor)	31	19	0.48
Cessna 421 (Golden Eagle)	34	22	0.55
Cessna 441 (Conquest II)	44	26	0.66
Cessna 501 (Citation I – Eagle)	56	30	0.69
Cessna 525 (Citation Jet)	47	29	0.68
Cessna 550 (Citation II)	64	35	0.69
Cessna 550 (Citation Bravo)	67	39	0.69
Cessna 560 (Citation V, Ultra, Encore)	75	56	0.69
Cessna 560 XL (Citation Excel)	90	58	1.48
Cessna 650	99	53	1.02

(Citation III, VI)			
Cessna 650 (Citation VII)	104	62	1.16
Cessna 750 (Citation X)	160	96	1.16
Cessna Conquest	45	26	0.59
Cessna T303 (Crusader)	23	15	0.40
CF-18	249	110	1.38
Convair 240	190	125	0.64
Convair 340, 440, 540	222	140	0.47
Convair 580	259	150	0.59
Convair 5800	280	150	0.59
Convair 600	210	140	0.73
Convair 640	245	140	0.52
Convair 880	860	400	1.03
Convair 990	1135	600	1.28
Dassault Falcon 10	84	50	0.93
Dassault Falcon 20	128	75	0.92
Dassault Falcon 2000	164	93	1.36
Dassault Falcon 2000EX	189	100	1.51
Dassault Falcon 50	173	90	0.93
Dassault Falcon 900	202	103	1.30
DC-10-10, 10CF, 15	2037	1035	1.34
DC-10-20,20CF,30CF,40CF	2485	1640	1.14
DC-10-30, 30ER, 40	2593	1220	1.22
DC-3	147	80	0.31
DC-4	335	200	0.53
DC-6, 6B	480	300	0.73
DC-7 (All Models)	640	400	0.89
DC-8-10, 20 Series	1226	600	1.01
DC-8-43, 55, 61, 71	1470	800	1.30
DC-8-61F, 63F	1557	1001	1.32
DC-8-62, 62F, 63, 72, 73	1593	800	1.35
DC-9-10, 15	404	300	0.93
DC-9-21	445	300	1.02
DC-9-30, 32	485	300	1.05
DC-9-41, 50, 51	543	300	1.17
DHC1 Chipmunk	10	7	0.21
DHC2 Beaver	25	14	0.17
DHC3 Otter	36	20	0.20
DHC4 Caribou	130	90	0.28
DHC5 Buffalo	187	115	0.41
DHC6 Twin Otter Series 300	56	35	0.26
DHC7 Dash 7	209	120	0.74
DHS-2 Conair Firecat	116	80	0.62
Dornier 228 Series	63	32	0.90
Dornier 328 Jet	155	93	1.13
Dornier 328-110 (Turboprop)	138	90	0.80
Dornier SA227 (Metro,	74	43	0.73

Merlin, Expediter)			
Douglas A-26 Invader	120	90	0.48
Douglas B-26 Invader	156	105	0.48

DEC Package “E - K” – Filename “DEC_E-K.pdf” contains the following aircraft:

(Download File Size: 1686 KB)

<u>Aircraft Model</u>	<u>Max Weight (kN)</u>	<u>Min Weight (kN)</u>	<u>Tire Pressure (MPa)</u>
Embraer 170, 175	368	208	1.04
Embraer 190, 195	481	266	1.10
Embraer EMB-110 (Bandeirante)	59	35	0.62
Embraer EMB-120 (Brasilia) Series	119	71	0.76
Embraer ERJ-145 Series	237	123	0.90
Fokker 50	205	125	0.59
Fokker 60	226	131	0.62
Fokker 70	410	225	0.81
Fokker 100	452	243	0.94
Fokker F27 Friendship	205	120	0.57
Fokker F28 Fellowship	325	175	0.53
Gulfstream G100 (IAI-1125-Astra SPX)	111	61	0.86
Gulfstream G159	156	100	0.83
Gulfstream G200 (IAI-1126-Galaxy)	159	88	0.86
Gulfstream II	294	163	1.04
Gulfstream III	312	170	1.21
Gulfstream IV	334	189	1.21
Gulfstream V	405	215	1.37
Hawker 1000 (BAe 1000A)	138	77	0.83
Hawker 400XP (Beech Jet 400A)	73	58	0.86
Hawker 800, 800 XP (HS-125-800, 800XP)	125	74	0.83
Hercules C-130, 082, 182, 282, 382	778	360	0.67
Hercules L-100 (Commercial)	693	340	0.74
HS/BAe 125 (All Series to 600)	112	61	0.83
HS/BAe 700	114	62	0.88
HS/BAe 748	227	120	0.51
Ilyushin IL-18	625	350	0.80
Ilyushin IL-62, 62M	1648	651	1.65

Ilyushin IL-76T	1677	822	0.64
Ilyushin IL-76TD	1775	920	0.66
Ilyushin IL-86	2054	1089	0.88
Jetstream 31, 32 (BAe)	69	44	0.39
Jetstream 41 (BAe)	107	63	0.83
KC-10 (McDonnell Douglas)	2593	1800	1.22
KC-135 Stratotanker (Boeing)	1342	800	1.38

DEC Package “L – Z” – Filename “DEC_L-Z.pdf” contains the following aircraft:

(Download File Size: 1732 KB)

<u>Aircraft Model</u>	<u>Max Weight (kN)</u>	<u>Min Weight (kN)</u>	<u>Tire Pressure (MPa)</u>
L-1011-1 Tristar	1913	1070	1.35
L-1011-100, 200 Tristar	2073	1090	1.35
L-1011-250 Tristar	2269	1108	1.35
L-1011-500 Tristar	2295	1070	1.35
Learjet 24F (Bombardier)	62	32	0.79
Learjet 25D, 25F (Bombardier)	69	34	0.79
Learjet 25G (Bombardier)	75	37	0.79
Learjet 28, 29 (Longhorn) (Bombardier)	69	37	0.79
Learjet 31A, 35A, 36A (Bombardier)	83	45	0.79
Learjet 40, 45, 45XR (Bombardier)	98	61	0.79
Learjet 55B, 55C (Bombardier)	97	58	1.24
Learjet 60 (Bombardier)	106	63	1.48
Lockheed 188 Electra	503	255	0.95
MD-11	2805	1200	1.38
MD-81	628	350	1.14
MD-82	670	350	1.14
MD-83	716	355	1.14
MD-87	628	335	1.14
MD-88	670	350	1.14
MD-90-30	699	392	1.14
MD-90-30ER	739	392	1.14
MD-90-50, 55	772	410	1.14
Mitsubishi MU-2Srs	52	32	0.48
Piper Aerostar	29	20	0.48
Piper Apache	21	13	0.29
Piper Archer II, III	12	7	0.17

Piper Arrow III, IV	14	8	0.21
Piper Aztec	30	18	0.42
Piper Cheyenne I, II	41	23	0.55
Piper Cheyenne III	50	31	0.69
Piper Commanche	21	13	0.29
Piper Cub (& Super Cub)	8	5	0.13
Piper Dakota	14	8	0.17
Piper Malibu, Mirage Meridian	21	14	0.35
Piper Mojave	33	23	0.42
Piper Navajo	29	18	0.42
Piper Saratoga	16	10	0.38
Piper Saratoga II	16	11	0.27
Piper Seminole	17	11	0.25
Piper Seneca III, V	22	14	0.38
Piper Warrior II, III	11	7	0.17
Saab 2000	226	136	0.69
Saab 340 A, B	131	81	0.82
Sepecat Jaguar (Configuration 1)	154	76	0.58
Sepecat Jaguar (Configuration 2)	108	76	0.58
Shorts 330	102	66	0.55
Shorts 360	121	77	0.54
Shorts Sherpa	114	80	0.54
Shorts Skyvan	67	35	0.28
Swearingen SJ30-2	60	36	1.07
T-33 Trainer (CT-133) (Lockheed)	54	38	0.42
Transall C-160	500	285	0.38
Tupolev TU-134	463	285	0.59
Tupolev TU-154	961	525	0.93
Tupolev TU-204, 214 224, 234	1096	560	1.38
VC10 Series	1590	785	1.01