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France

**FROM: Airport Operations**

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## **Subject: Pavement French system**

### **Objective:**

In this document, Airbus provides the method of converting the pavement bearing strength from French system to Pavement Classification Number (PCN).

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In the French standard landing gear method, the pavement is characterized by 3 values corresponding to the allowable leg load for each standard type of landing gear.

For example, if pavement bearing strength equals 20T / RSI ; 40T/J ; 100T/B , it means that:

- 20 tons is the maximum allowable leg load for aircraft fitted with one wheel landing gears (RSI Isolated single wheel) and with a tire pressure of 6 bars.
- 40 tons is the maximum allowable leg load for aircraft fitted with dual wheels landing gears (J for dual) with a tire pressure of 9 bars and a wheel track of 70 cm.
- 100 tons is the maximum allowable leg load for aircraft fitted with bogie landing gear (B for bogie) with a tire pressure of 12 bars and a wheel track of 75 cm and wheel base of 140cm.

The tables given next pages provide the conversion for each of the gear type. The values mentioned in the above example are underlined in yellow.

French system to PCN conversion - Single Wheel									
LEG LOAD (in tons)	WHEEL LOAD (in tons)	FLEXIBLE PCN				RIGID PCN			
		A	B	C	D	A	B	C	D
0	0	0	0	0	0	0	0	0	0
1	1	2	2	2	2	2	2	2	2
2	2	3	4	4	4	4	4	4	4
3	3	5	5	6	6	5	5	5	6
4	4	6	7	8	8	7	7	7	7
5	5	7	9	10	10	8	8	9	9
6	6	9	10	11	12	10	10	10	10
7	7	10	12	13	14	11	12	12	12
8	8	11	14	15	16	13	13	13	14
9	9	13	15	17	17	14	15	15	15
10	10	14	17	19	19	16	16	17	17
11	11	16	18	20	21	17	18	18	19
12	12	17	20	22	23	19	19	20	20
13	13	18	22	24	25	20	21	21	22
14	14	20	23	26	27	21	22	23	23
15	15	21	25	28	29	23	24	24	25
16	16	22	27	29	31	24	25	26	27
17	17	24	28	31	33	26	27	28	28
18	18	25	30	33	34	27	28	29	30
19	19	27	31	35	36	29	30	31	32
20	20	28	33	37	38	30	31	32	33
21	21	29	35	38	40	31	33	34	35
22	22	31	36	40	42	33	34	35	36
23	23	32	38	42	44	34	36	37	38
24	24	33	40	44	46	36	37	39	40
25	25	35	41	46	48	37	39	40	41
26	26	36	43	47	49	39	40	42	43
27	27	38	45	49	51	40	42	43	44
28	28	39	46	51	53	41	43	45	46
29	29	40	48	53	55	43	45	46	48
30	30	42	49	55	57	44	46	48	49
31	31	43	51	56	59	46	48	49	51
32	32	44	53	58	61	47	49	51	52
33	33	46	54	60	63	48	51	52	54
34	34	47	56	62	65	50	52	54	55
35	35	49	58	64	66	51	53	55	57
36	36	50	59	65	68	52	55	57	59
37	37	51	61	67	70	54	56	59	60
38	38	53	62	69	72	55	58	60	62
39	39	54	64	71	74	57	59	62	63
40	40	55	66	73	76	58	61	63	65
41	41	57	67	74	78	59	62	65	67
42	42	58	69	76	80	61	64	66	68
43	43	60	71	78	82	62	65	68	70
44	44	61	72	80	83	63	67	69	71
45	45	62	74	82	85	65	68	71	73
46	46	64	75	83	87	66	69	72	74
47	47	65	77	85	89	68	71	74	76
48	48	66	79	87	91	69	72	75	78
49	49	68	80	89	93	70	74	77	79
50	50	69	82	91	95	72	75	78	81

French system to PCN conversion - Tandem									
LEG LOAD (in tons)	WHEEL LOAD (in tons)	FLEXIBLE PCN				RIGID PCN			
		A	B	C	D	A	B	C	D
0	0	0	0	0	0	0	0	0	0
2	1	2	2	2	2	2	2	2	3
4	2	4	4	4	5	4	4	5	5
6	3	6	6	6	7	6	7	7	7
8	4	8	8	9	10	8	9	9	10
10	5	10	10	11	13	10	11	12	13
12	6	12	13	14	16	13	14	15	16
14	7	14	15	16	19	15	17	18	19
16	8	16	17	19	23	18	19	21	22
18	9	19	20	22	26	20	22	24	25
20	10	21	23	26	29	23	25	27	28
22	11	23	25	29	32	26	28	30	31
24	12	26	28	32	36	29	31	33	34
26	13	29	31	36	39	32	34	36	38
28	14	32	34	39	42	35	37	39	41
30	15	35	37	42	46	38	40	43	44
32	16	38	41	46	49	41	43	46	48
34	17	41	44	49	52	44	47	49	51
36	18	44	47	52	55	47	50	53	55
38	19	47	51	55	59	50	53	56	58
40	20	50	54	59	62	54	57	60	62
42	21	53	57	62	65	57	60	63	65
44	22	57	61	65	69	60	64	67	69
46	23	61	64	69	72	64	67	70	73
48	24	65	67	72	75	67	71	74	76
50	25	68	71	75	78	71	74	78	80
52	26	71	74	79	82	74	78	81	84
54	27	75	77	82	85	78	82	85	88
56	28	78	81	85	88	81	85	89	91
58	29	82	84	89	92	85	89	92	95
60	30	85	88	92	95	89	93	96	99
62	31	89	91	95	98	92	97	100	103
64	32	92	94	99	101	96	100	104	107
66	33	96	98	102	105	100	104	108	110
68	34	99	101	105	108	104	108	112	114
70	35	103	104	109	111	108	112	115	118
72	36	106	108	112	115	111	116	119	122
74	37	110	111	115	118	115	120	123	126
76	38	113	114	119	121	119	124	127	130
78	39	116	118	122	124	123	128	131	134
80	40	120	121	125	128	127	132	135	138
82	41	123	125	129	131	131	136	139	142
84	42	127	128	132	134	135	140	143	146
86	43	130	131	135	138	139	144	147	150
88	44	134	135	139	141	143	148	151	154
90	45	137	138	142	144	147	152	155	158
92	46	141	141	145	147	151	156	159	162
94	47	144	145	149	151	155	160	163	166
96	48	147	148	152	154	159	163	167	170
98	49	151	152	155	157	163	167	171	174
100	50	154	155	159	161	167	171	175	178

French system to PCN conversion - Bogie (Dual tandem)									
LEG LOAD (in tons)	WHEEL LOAD (in tons)	FLEXIBLE PCN				RIGID PCN			
		A	B	C	D	A	B	C	D
0	0.0	0	0	0	0	0	0	0	0
2	0.5	1	1	1	1	1	1	1	1
4	1.0	2	2	2	2	2	2	2	2
6	1.5	3	3	3	3	3	3	3	3
8	2.0	4	4	4	4	4	4	4	4
10	2.5	5	5	5	6	5	6	5	6
12	3.0	6	6	6	7	7	7	6	7
14	3.5	6	7	7	8	8	7	8	9
16	4.0	7	8	8	10	9	8	9	10
18	4.5	8	9	9	11	10	9	10	12
20	5.0	9	10	11	13	11	10	12	13
22	5.5	11	11	12	15	12	11	13	15
24	6.0	12	12	13	17	12	13	15	17
26	6.5	13	13	15	19	13	14	16	19
28	7.0	14	15	16	21	14	15	18	20
30	7.5	15	16	18	23	15	17	19	22
32	8.0	16	17	19	25	16	18	21	24
34	8.5	17	18	21	27	17	19	23	26
36	9.0	19	20	23	29	18	21	25	29
38	9.5	20	21	25	32	19	23	27	31
40	10.0	21	23	26	34	21	24	28	33
42	10.5	22	24	28	36	22	26	30	35
44	11.0	24	26	30	39	23	27	32	37
46	11.5	25	27	32	41	25	29	34	39
48	12.0	26	29	34	43	26	31	36	42
50	12.5	28	30	36	46	28	33	39	44
52	13.0	29	32	38	48	29	34	41	46
54	13.5	31	34	41	51	31	36	43	49
56	14.0	32	36	43	54	32	38	45	51
58	14.5	34	38	45	56	34	40	47	54
60	15.0	35	39	47	59	35	42	50	56
62	15.5	37	41	49	61	37	44	52	59
64	16.0	38	43	51	64	39	46	54	61
66	16.5	40	45	54	67	40	48	57	64
68	17.0	41	47	56	69	42	50	59	66
70	17.5	43	49	58	72	44	52	61	69
72	18.0	45	51	60	75	46	55	64	72
74	18.5	46	53	63	77	48	57	66	74
76	19.0	48	55	65	80	49	59	69	77
78	19.5	50	58	67	82	51	61	71	80
80	20.0	52	60	70	85	53	64	74	83
82	20.5	54	62	72	88	55	66	76	85
84	21.0	56	64	75	90	57	68	79	88
86	21.5	57	66	77	93	59	71	82	91
88	22.0	59	68	79	96	61	73	84	94
90	22.5	61	70	82	98	63	75	87	97
92	23.0	63	73	84	101	66	78	90	100
94	23.5	66	75	87	103	68	80	92	102
96	24.0	68	77	90	106	70	83	95	105
98	24.5	70	79	92	109	72	85	98	108
100	25.0	72	82	95	111	74	88	101	111
102	25.5	74	84	97	114	77	90	103	114
104	26.0	76	86	100	117	79	93	106	117
106	26.5	78	89	103	119	81	96	109	120
108	27.0	81	91	105	122	84	98	112	123
110	27.5	83	93	108	125	86	101	115	126
112	28.0	85	96	111	127	88	104	118	129
114	28.5	87	98	113	130	91	106	121	132
116	29.0	89	100	116	132	93	109	124	136
118	29.5	91	103	119	135	96	112	127	139
120	30.0	93	105	122	138	98	115	130	142
122	30.5	95	108	124	140	101	117	133	145
124	31.0	98	110	127	143	103	120	136	148
126	31.5	100	113	130	146	106	123	139	151
128	32.0	102	115	132	148	109	126	142	155
130	32.5	105	117	135	151	111	129	145	158
132	33.0	108	120	138	154	114	132	148	161
134	33.5	110	122	140	156	117	135	151	164
136	34.0	113	125	143	159	119	138	154	168
138	34.5	115	127	146	162	122	141	157	171
140	35.0	118	130	149	164	125	144	161	174