



Voiture particulière (différents états de la chaussée)											
Vitesse en fonction de la longueur de la trace de freinage (20-100km/h)											
Vitesse au début de la trace		revêtement sec [m/s ²]									
		neige [m/s ²]			revêtement humide/mouillé [m/s ²]						
		2.5	3	3.5	5.5	6	6.5	7	7.5	8	8.5
km/h	m/s	Longueur de la trace selon les différentes conditions de la chaussée									
20	5.6	6.2 m	5.1 m	4.4 m	2.8 m	2.6 m	2.4 m	2.2 m	2.1 m	1.9 m	1.8 m
22	6.1	7.5 m	6.2 m	5.3 m	3.4 m	3.1 m	2.9 m	2.7 m	2.5 m	2.3 m	2.2 m
24	6.7	8.9 m	7.4 m	6.3 m	4.0 m	3.7 m	3.4 m	3.2 m	3.0 m	2.8 m	2.6 m
26	7.2	10.4 m	8.7 m	7.5 m	4.7 m	4.3 m	4.0 m	3.7 m	3.5 m	3.3 m	3.1 m
28	7.8	12.1 m	10.1 m	8.6 m	5.5 m	5.0 m	4.7 m	4.3 m	4.0 m	3.8 m	3.6 m
30	8.3	13.9 m	11.6 m	9.9 m	6.3 m	5.8 m	5.3 m	5.0 m	4.6 m	4.3 m	4.1 m
32	8.9	15.8 m	13.2 m	11.3 m	7.2 m	6.6 m	6.1 m	5.6 m	5.3 m	4.9 m	4.6 m
34	9.4	17.8 m	14.9 m	12.7 m	8.1 m	7.4 m	6.9 m	6.4 m	5.9 m	5.6 m	5.2 m
36	10.0	20.0 m	16.7 m	14.3 m	9.1 m	8.3 m	7.7 m	7.1 m	6.7 m	6.3 m	5.9 m
38	10.6	22.3 m	18.6 m	15.9 m	10.1 m	9.3 m	8.6 m	8.0 m	7.4 m	7.0 m	6.6 m
40	11.1	24.7 m	20.6 m	17.6 m	11.2 m	10.3 m	9.5 m	8.8 m	8.2 m	7.7 m	7.3 m
42	11.7	27.2 m	22.7 m	19.4 m	12.4 m	11.3 m	10.5 m	9.7 m	9.1 m	8.5 m	8.0 m
44	12.2	29.9 m	24.9 m	21.3 m	13.6 m	12.4 m	11.5 m	10.7 m	10.0 m	9.3 m	8.8 m
46	12.8	32.7 m	27.2 m	23.3 m	14.8 m	13.6 m	12.6 m	11.7 m	10.9 m	10.2 m	9.6 m
48	13.3	35.6 m	29.6 m	25.4 m	16.2 m	14.8 m	13.7 m	12.7 m	11.9 m	11.1 m	10.5 m
50	13.9	38.6 m	32.2 m	27.6 m	17.5 m	16.1 m	14.8 m	13.8 m	12.9 m	12.1 m	11.3 m
52	14.4	41.7 m	34.8 m	29.8 m	19.0 m	17.4 m	16.0 m	14.9 m	13.9 m	13.0 m	12.3 m
54	15.0	45.0 m	37.5 m	32.1 m	20.5 m	18.8 m	17.3 m	16.1 m	15.0 m	14.1 m	13.2 m
56	15.6	48.4 m	40.3 m	34.6 m	22.0 m	20.2 m	18.6 m	17.3 m	16.1 m	15.1 m	14.2 m
58	16.1	51.9 m	43.3 m	37.1 m	23.6 m	21.6 m	20.0 m	18.5 m	17.3 m	16.2 m	15.3 m
60	16.7	55.6 m	46.3 m	39.7 m	25.3 m	23.1 m	21.4 m	19.8 m	18.5 m	17.4 m	16.3 m
62	17.2	59.3 m	49.4 m	42.4 m	27.0 m	24.7 m	22.8 m	21.2 m	19.8 m	18.5 m	17.4 m
64	17.8	63.2 m	52.7 m	45.1 m	28.7 m	26.3 m	24.3 m	22.6 m	21.1 m	19.8 m	18.6 m
66	18.3	67.2 m	56.0 m	48.0 m	30.6 m	28.0 m	25.9 m	24.0 m	22.4 m	21.0 m	19.8 m
68	18.9	71.4 m	59.5 m	51.0 m	32.4 m	29.7 m	27.4 m	25.5 m	23.8 m	22.3 m	21.0 m
70	19.4	75.6 m	63.0 m	54.0 m	34.4 m	31.5 m	29.1 m	27.0 m	25.2 m	23.6 m	22.2 m
72	20.0	80.0 m	66.7 m	57.1 m	36.4 m	33.3 m	30.8 m	28.6 m	26.7 m	25.0 m	23.5 m
74	20.6	84.5 m	70.4 m	60.4 m	38.4 m	35.2 m	32.5 m	30.2 m	28.2 m	26.4 m	24.9 m
76	21.1	89.1 m	74.3 m	63.7 m	40.5 m	37.1 m	34.3 m	31.8 m	29.7 m	27.9 m	26.2 m
78	21.7	93.9 m	78.2 m	67.1 m	42.7 m	39.1 m	36.1 m	33.5 m	31.3 m	29.3 m	27.6 m
80	22.2	98.8 m	82.3 m	70.5 m	44.9 m	41.2 m	38.0 m	35.3 m	32.9 m	30.9 m	29.0 m
82	22.8	103.8 m	86.5 m	74.1 m	47.2 m	43.2 m	39.9 m	37.1 m	34.6 m	32.4 m	30.5 m
84	23.3	108.9 m	90.7 m	77.8 m	49.5 m	45.4 m	41.9 m	38.9 m	36.3 m	34.0 m	32.0 m
86	23.9	114.1 m	95.1 m	81.5 m	51.9 m	47.6 m	43.9 m	40.8 m	38.0 m	35.7 m	33.6 m
88	24.4	119.5 m	99.6 m	85.4 m	54.3 m	49.8 m	46.0 m	42.7 m	39.8 m	37.3 m	35.1 m
90	25.0	125.0 m	104.2 m	89.3 m	56.8 m	52.1 m	48.1 m	44.6 m	41.7 m	39.1 m	36.8 m
92	25.6	130.6 m	108.8 m	93.3 m	59.4 m	54.4 m	50.2 m	46.6 m	43.5 m	40.8 m	38.4 m
94	26.1	136.4 m	113.6 m	97.4 m	62.0 m	56.8 m	52.4 m	48.7 m	45.5 m	42.6 m	40.1 m
96	26.7	142.2 m	118.5 m	101.6 m	64.6 m	59.3 m	54.7 m	50.8 m	47.4 m	44.4 m	41.8 m
98	27.2	148.2 m	123.5 m	105.9 m	67.4 m	61.8 m	57.0 m	52.9 m	49.4 m	46.3 m	43.6 m
100	27.8	154.3 m	128.6 m	110.2 m	70.1 m	64.3 m	59.4 m	55.1 m	51.4 m	48.2 m	45.4 m

Cette table n'est valable que dans le cas où la trace se termine au point d'arrêt du véhicule. Pour la vitesse initiale, il faut encore additionner la perte de vitesse due à l'accroissement de la décélération (début de la décélération jusqu'à atteindre la moitié de la décélération maximale, 0,2 s). Exemple: longueur de trace (s) 16.1 m, décélération (a) 7.5 m/s², temps d'accroissement (t_s) 0.2 s ==> Vitesse au début de la trace: 56 km/h. Calcul de la vitesse initiale: v₀ = v + (t_s*0.5*a) = 15.6 + (0.2*3.75) = 16.35 m/s ==> 58.9 km/h ≈ 59 km/h



Voiture particulière (différents états de la chaussée)											
Vitesse en fonction de la longueur de la trace de freinage (100-180km/h)											
Vitesse au début de la trace		revêtement sec [m/s ²]									
		neige [m/s ²]			revêtement humide/mouillé [m/s ²]						
		2.5	3	3.5	5.5	6	6.5	7	7.5	8	8.5
km/h	m/s	Longueur de la trace selon les différentes conditions de la chaussée									
100	27.8	154.3 m	128.6 m	110.2 m	70.1 m	64.3 m	59.4 m	55.1 m	51.4 m	48.2 m	45.4 m
102	28.3	160.6 m	133.8 m	114.7 m	73.0 m	66.9 m	61.8 m	57.3 m	53.5 m	50.2 m	47.2 m
104	28.9	166.9 m	139.1 m	119.2 m	75.9 m	69.5 m	64.2 m	59.6 m	55.6 m	52.2 m	49.1 m
106	29.4	173.4 m	144.5 m	123.9 m	78.8 m	72.2 m	66.7 m	61.9 m	57.8 m	54.2 m	51.0 m
108	30.0	180.0 m	150.0 m	128.6 m	81.8 m	75.0 m	69.2 m	64.3 m	60.0 m	56.3 m	52.9 m
110	30.6	186.7 m	155.6 m	133.4 m	84.9 m	77.8 m	71.8 m	66.7 m	62.2 m	58.4 m	54.9 m
112	31.1	193.6 m	161.3 m	138.3 m	88.0 m	80.7 m	74.5 m	69.1 m	64.5 m	60.5 m	56.9 m
114	31.7	200.6 m	167.1 m	143.3 m	91.2 m	83.6 m	77.1 m	71.6 m	66.9 m	62.7 m	59.0 m
116	32.2	207.7 m	173.0 m	148.3 m	94.4 m	86.5 m	79.9 m	74.2 m	69.2 m	64.9 m	61.1 m
118	32.8	214.9 m	179.1 m	153.5 m	97.7 m	89.5 m	82.6 m	76.7 m	71.6 m	67.1 m	63.2 m
120	33.3	222.2 m	185.2 m	158.7 m	101.0 m	92.6 m	85.5 m	79.4 m	74.1 m	69.4 m	65.4 m
122	33.9	229.7 m	191.4 m	164.1 m	104.4 m	95.7 m	88.3 m	82.0 m	76.6 m	71.8 m	67.6 m
124	34.4	237.3 m	197.7 m	169.5 m	107.9 m	98.9 m	91.3 m	84.7 m	79.1 m	74.2 m	69.8 m
126	35.0	245.0 m	204.2 m	175.0 m	111.4 m	102.1 m	94.2 m	87.5 m	81.7 m	76.6 m	72.1 m
128	35.6	252.8 m	210.7 m	180.6 m	114.9 m	105.3 m	97.2 m	90.3 m	84.3 m	79.0 m	74.4 m
130	36.1	260.8 m	217.3 m	186.3 m	118.5 m	108.7 m	100.3 m	93.1 m	86.9 m	81.5 m	76.7 m
132	36.7	268.9 m	224.1 m	192.1 m	122.2 m	112.0 m	103.4 m	96.0 m	89.6 m	84.0 m	79.1 m
134	37.2	277.1 m	230.9 m	197.9 m	126.0 m	115.5 m	106.6 m	99.0 m	92.4 m	86.6 m	81.5 m
136	37.8	285.4 m	237.9 m	203.9 m	129.7 m	118.9 m	109.8 m	101.9 m	95.1 m	89.2 m	84.0 m
138	38.3	293.9 m	244.9 m	209.9 m	133.6 m	122.5 m	113.0 m	105.0 m	98.0 m	91.8 m	86.4 m
140	38.9	302.5 m	252.1 m	216.0 m	137.5 m	126.0 m	116.3 m	108.0 m	100.8 m	94.5 m	89.0 m
142	39.4	311.2 m	259.3 m	222.3 m	141.4 m	129.7 m	119.7 m	111.1 m	103.7 m	97.2 m	91.5 m
144	40.0	320.0 m	266.7 m	228.6 m	145.5 m	133.3 m	123.1 m	114.3 m	106.7 m	100.0 m	94.1 m
146	40.6	329.0 m	274.1 m	235.0 m	149.5 m	137.1 m	126.5 m	117.5 m	109.7 m	102.8 m	96.8 m
148	41.1	338.0 m	281.7 m	241.4 m	153.6 m	140.8 m	130.0 m	120.7 m	112.7 m	105.6 m	99.4 m
150	41.7	347.2 m	289.4 m	248.0 m	157.8 m	144.7 m	133.5 m	124.0 m	115.7 m	108.5 m	102.1 m
152	42.2	356.5 m	297.1 m	254.7 m	162.1 m	148.6 m	137.1 m	127.3 m	118.8 m	111.4 m	104.9 m
154	42.8	366.0 m	305.0 m	261.4 m	166.4 m	152.5 m	140.8 m	130.7 m	122.0 m	114.4 m	107.6 m
156	43.3	375.6 m	313.0 m	268.3 m	170.7 m	156.5 m	144.4 m	134.1 m	125.2 m	117.4 m	110.5 m
158	43.9	385.2 m	321.0 m	275.2 m	175.1 m	160.5 m	148.2 m	137.6 m	128.4 m	120.4 m	113.3 m
160	44.4	395.1 m	329.2 m	282.2 m	179.6 m	164.6 m	151.9 m	141.1 m	131.7 m	123.5 m	116.2 m
162	45.0	405.0 m	337.5 m	289.3 m	184.1 m	168.8 m	155.8 m	144.6 m	135.0 m	126.6 m	119.1 m
164	45.6	415.1 m	345.9 m	296.5 m	188.7 m	172.9 m	159.6 m	148.2 m	138.4 m	129.7 m	122.1 m
166	46.1	425.2 m	354.4 m	303.7 m	193.3 m	177.2 m	163.6 m	151.9 m	141.7 m	132.9 m	125.1 m
168	46.7	435.6 m	363.0 m	311.1 m	198.0 m	181.5 m	167.5 m	155.6 m	145.2 m	136.1 m	128.1 m
170	47.2	446.0 m	371.7 m	318.6 m	202.7 m	185.8 m	171.5 m	159.3 m	148.7 m	139.4 m	131.2 m
172	47.8	456.5 m	380.5 m	326.1 m	207.5 m	190.2 m	175.6 m	163.1 m	152.2 m	142.7 m	134.3 m
174	48.3	467.2 m	389.4 m	333.7 m	212.4 m	194.7 m	179.7 m	166.9 m	155.7 m	146.0 m	137.4 m
176	48.9	478.0 m	398.4 m	341.4 m	217.3 m	199.2 m	183.9 m	170.7 m	159.3 m	149.4 m	140.6 m
178	49.4	489.0 m	407.5 m	349.3 m	222.3 m	203.7 m	188.1 m	174.6 m	163.0 m	152.8 m	143.8 m
180	50.0	500.0 m	416.7 m	357.1 m	227.3 m	208.3 m	192.3 m	178.6 m	166.7 m	156.3 m	147.1 m