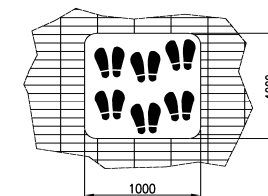


CLASSE 1 Transito pedonale (folla compatta) - carico dinamico = 630 daN/m² uniformemente distribuito

Materiale : Nastro laminato decapato DD11 UNI EN 10111 $f_y=340$ N/mm² (snervamento minimo)

L_n : luce massima [cm] tra gli appoggi

f = freccia elastica = $L_n/200 \leq 5$ mm



Barre Portanti

interasse barre [mm]		25X2		25X3		30X2		30X3		40X2		40X3		50X2		50X3		60X3		70X3		80X3	
		L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]
11	resist	233.90	49.79	286.46	74.69	280.68	59.75	343.76	89.63	374.23	79.67	458.34	119.51	467.79	99.59	572.93	149.38	687.51	179.26	802.10	209.14	916.68	239.01
11	freccia	131.67	5.00	145.71	5.00	150.96	5.00	167.06	5.00	187.31	5.00	207.29	5.00	221.43	5.00	245.06	5.00	280.97	5.00	315.40	5.00	348.62	5.00
11	min	131.67	5.00	145.71	5.00	150.96	5.00	167.06	5.00	187.31	5.00	207.29	5.00	221.43	5.00	245.06	5.00	280.97	5.00	315.40	5.00	348.62	5.00
15	resist	200.69	36.66	245.80	54.99	240.83	43.99	294.96	65.99	321.11	58.66	393.28	87.99	401.39	73.32	491.60	109.98	589.91	131.98	688.23	153.97	786.55	175.97
15	freccia	121.96	5.00	134.97	5.00	139.83	5.00	154.75	5.00	173.51	5.00	192.02	5.00	205.12	5.00	227.00	5.00	260.26	5.00	292.16	5.00	322.93	5.00
15	min	121.96	5.00	134.97	5.00	139.83	5.00	154.75	5.00	173.51	5.00	192.02	5.00	205.12	5.00	227.00	5.00	260.26	5.00	292.16	5.00	322.93	5.00
17	resist	188.70	32.41	231.11	48.62	226.44	38.89	277.34	58.34	301.93	51.86	369.78	77.79	377.41	64.82	462.23	97.23	554.67	116.68	647.12	136.13	739.57	155.57
17	freccia	118.26	5.00	130.88	5.00	135.59	5.00	150.06	5.00	168.24	5.00	186.19	5.00	198.89	5.00	220.11	5.00	252.37	5.00	283.30	5.00	313.14	5.00
17	min	118.26	5.00	130.88	5.00	135.59	5.00	150.06	5.00	168.24	5.00	186.19	5.00	198.89	5.00	220.11	5.00	252.37	5.00	283.30	5.00	313.14	5.00
21	resist	170.12	26.34	208.35	39.51	204.14	31.61	250.02	47.41	272.19	42.15	333.36	63.22	340.23	52.68	416.70	79.02	500.04	94.83	583.38	110.63	666.72	126.44
21	freccia	112.29	5.00	124.27	5.00	128.74	5.00	142.48	5.00	159.74	5.00	176.79	5.00	188.85	5.00	208.99	5.00	239.62	5.00	268.98	5.00	297.32	5.00
21	min	112.29	5.00	124.27	5.00	128.74	5.00	142.48	5.00	159.74	5.00	176.79	5.00	188.85	5.00	208.99	5.00	239.62	5.00	268.98	5.00	297.32	5.00
25	resist	156.22	22.21	191.33	33.32	187.46	26.66	229.60	39.98	249.95	35.54	306.13	53.31	312.44	44.43	382.66	66.64	459.19	79.97	535.72	93.29	612.26	106.62
25	freccia	107.60	5.00	119.08	5.00	123.37	5.00	136.53	5.00	153.08	5.00	169.41	5.00	180.97	5.00	200.27	5.00	229.62	5.00	257.76	5.00	284.91	5.00
25	min	107.60	5.00	119.08	5.00	123.37	5.00	136.53	5.00	153.08	5.00	169.41	5.00	180.97	5.00	200.27	5.00	229.62	5.00	257.76	5.00	284.91	5.00
28	resist	147.83	19.89	181.05	29.84	177.40	23.87	217.26	35.80	236.53	31.83	289.69	47.74	295.66	39.78	362.11	59.67	434.53	71.61	506.95	83.54	579.37	95.48
28	freccia	104.67	5.00	115.84	5.00	120.01	5.00	132.82	5.00	148.91	5.00	164.80	5.00	176.04	5.00	194.82	5.00	223.37	5.00	250.74	5.00	277.16	5.00
28	min	104.67	5.00	115.84	5.00	120.01	5.00	132.82	5.00	148.91	5.00	164.80	5.00	176.04	5.00	194.82	5.00	223.37	5.00	250.74	5.00	277.16	5.00
33	resist	136.50	16.96	167.18	25.44	163.80	20.35	200.62	30.53	218.40	27.14	267.49	40.70	273.00	33.92	334.36	50.88	401.23	61.05	468.10	71.23	534.98	81.41
33	freccia	100.58	5.00	111.31	5.00	115.32	5.00	127.63	5.00	143.09	5.00	158.36	5.00	169.16	5.00	187.21	5.00	214.64	5.00	240.95	5.00	266.33	5.00
33	min	100.58	5.00	111.31	5.00	115.32	5.00	127.63	5.00	143.09	5.00	158.36	5.00	169.16	5.00	187.21	5.00	214.64	5.00	240.95	5.00	266.33	5.00
45	resist	117.57	12.58	143.99	18.87	141.08	15.10	172.79	22.65	188.11	20.13	230.39	30.20	235.14	25.16	287.99	37.74	345.58	45.29	403.18	52.84	460.78	60.39
45	freccia	93.35	5.00	103.31	5.00	107.03	5.00	118.44	5.00	132.80	5.00	146.97	5.00	156.99	5.00	173.74	5.00	199.20	5.00	223.61	5.00	247.17	5.00
45	min	93.35	5.00	103.31	5.00	107.03	5.00	118.44	5.00	132.80	5.00	146.97	5.00	156.99	5.00	173.74	5.00	199.20	5.00	223.61	5.00	247.17	5.00
66	resist	98.05	8.75	120.09	13.13	117.66	10.50	144.10	15.75	156.88	14.00	192.14	21.00	196.10	17.50	240.17	26.25	288.21	31.50	336.24	36.75	384.28	42.00
66	freccia	85.25	5.00	94.34	5.00	97.74	5.00	108.17	5.00	121.28	5.00	134.21	5.00	143.37	5.00	158.66	5.00	181.91	5.00	204.21	5.00	225.72	5.00
66	min	85.25	5.00	94.34	5.00	97.74	5.00	108.17	5.00	121.28	5.00	134.21	5.00	143.37	5.00	158.66	5.00	181.91	5.00	204.21	5.00	225.72	5.00
86	resist	86.70	6.84	106.18	10.26	104.04	8.21	127.42	12.31	138.72	10.95	169.89	16.42	173.40	13.68	212.37	20.52	254.84	24.63	297.31	28.73	339.79	32.84
86	freccia	80.16	5.00	88.71	5.00	91.91	5.00	101.71	5.00	114.04	5.00	126.21	5.00	134.81	5.00	149.20	5.00	171.06	5.00	192.02	5.00	212.25	5.00
86	min	80.16	5.00	88.71	5.00	91.91	5.00	101.71	5.00	114.04	5.00	126.21	5.00	134.81	5.00	149.20	5.00	171.06	5.00	192.02	5.00	212.25	5.00
105	resist	79.15	5.70	96.93	8.55	94.98	6.84	116.32	10.26	126.63	9.12	155.09	13.68	158.29	11.40	193.87	17.10	232.64	20.53	271.42	23.95	310.19	27.37
105	freccia	76.59	5.00	84.76	5.00	87.81	5.00	97.18	5.00	108.96	5.00	120.58	5.00	128.81	5.00	142.55	5.00	163.44	5.00	183.47	5.00	202.80	5.00
105	min	76.59	5.00	84.76	5.00	87.81	5.00	97.18	5.00	108.96	5.00	120.58	5.00	128.81	5.00	142.55	5.00	163.44	5.00	183.47	5.00	202.80	5.00

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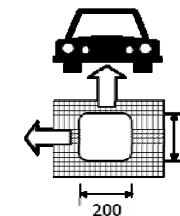
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CLASSE 2 Transito autovetture
carico dinamico = 1000 daN impronta 200x200 mm

 Materiale : Nastro laminato decapato DD11 UNI EN 10111 $f_y=340 \text{ N/mm}^2$ (snervamento minimo)

 L_n : luce massima [cm] tra gli appoggi

 f = freccia elastica = $L_n/200 \leq 5 \text{ mm}$

Barre Portanti

interasse barre [mm]		25X2		25X3		30X2		30X3		40X2		40X3		50X2		50X3		60X3		70X3		80X3	
		L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]
11	resist	45.97	1.80	63.95	3.37	61.79	2.63	87.69	5.14	102.07	5.16	148.11	10.61	153.86	9.14	225.80	19.35	320.75	32.15	432.96	49.84	562.44	73.23
11	freccia	63.72	5.00	72.69	5.00	76.12	5.00	86.92	5.00	101.02	5.00	115.47	5.00	126.00	5.00	144.09	5.00	172.75	5.00	201.43	5.00	230.12	5.00
11	min	45.97	1.80	63.95	3.37	61.79	2.63	86.92	5.00	101.02	5.00	115.47	5.00	126.00	5.00	144.09	5.00	172.75	5.00	201.43	5.00	230.12	5.00
15	resist	36.88	1.19	50.31	2.14	48.70	1.67	68.05	3.16	78.80	3.14	113.20	6.30	117.50	5.42	171.25	11.26	242.20	18.50	326.05	28.46	422.80	41.61
15	freccia	58.01	5.00	66.12	5.00	69.23	5.00	79.01	5.00	91.79	5.00	104.89	5.00	114.43	5.00	130.84	5.00	156.83	5.00	182.84	5.00	208.87	5.00
15	min	36.88	1.19	50.31	2.14	48.70	1.67	68.05	3.16	78.80	3.14	104.89	5.00	114.43	5.00	130.84	5.00	156.83	5.00	182.84	5.00	208.87	5.00
17	resist	33.93	1.01	45.90	1.80	44.46	1.41	61.70	2.62	71.27	2.59	101.91	5.14	105.74	4.42	153.60	9.11	216.79	14.88	291.46	22.82	377.62	33.28
17	freccia	55.89	5.00	63.68	5.00	66.67	5.00	76.07	5.00	88.36	5.00	100.96	5.00	110.14	5.00	125.92	5.00	150.92	5.00	175.94	5.00	200.98	5.00
17	min	33.93	1.01	45.90	1.80	44.46	1.41	61.70	2.62	71.27	2.59	100.96	5.00	105.74	4.42	125.92	5.00	150.92	5.00	175.94	5.00	200.98	5.00
21	resist	29.73	0.79	39.60	1.36	38.41	1.07	52.62	1.94	60.51	1.90	85.77	3.69	88.93	3.17	128.39	6.43	180.49	10.40	242.05	15.84	313.09	22.99
21	freccia	52.54	5.00	59.84	5.00	62.63	5.00	71.44	5.00	82.94	5.00	94.75	5.00	103.35	5.00	118.14	5.00	141.57	5.00	165.02	5.00	188.50	5.00
21	min	29.73	0.79	39.60	1.36	38.41	1.07	52.62	1.94	60.51	1.90	85.77	3.69	88.93	3.17	118.14	5.00	141.57	5.00	165.02	5.00	188.50	5.00
25	resist	26.88	0.65	35.31	1.09	34.30	0.86	46.45	1.53	53.20	1.48	74.80	2.84	77.50	2.43	111.25	4.87	155.80	7.81	208.45	11.81	269.20	17.08
25	freccia	49.98	5.00	56.90	5.00	59.55	5.00	67.89	5.00	78.81	5.00	90.00	5.00	98.16	5.00	112.19	5.00	134.42	5.00	156.68	5.00	178.95	5.00
25	min	26.88	0.65	35.31	1.09	34.30	0.86	46.45	1.53	53.20	1.48	74.80	2.84	77.50	2.43	111.25	4.87	134.42	5.00	156.68	5.00	178.95	5.00
28	resist	25.27	0.58	32.90	0.95	31.99	0.75	42.98	1.32	49.09	1.27	68.63	2.41	71.07	2.06	101.61	4.09	141.91	6.51	189.55	9.81	244.51	14.14
28	freccia	48.42	5.00	55.10	5.00	57.66	5.00	65.73	5.00	76.27	5.00	87.09	5.00	94.98	5.00	108.55	5.00	130.04	5.00	151.57	5.00	173.11	5.00
28	min	25.27	0.58	32.90	0.95	31.99	0.75	42.98	1.32	49.09	1.27	68.63	2.41	71.07	2.06	101.61	4.09	130.04	5.00	151.57	5.00	173.11	5.00
33	resist	23.24	0.49	29.86	0.79	29.06	0.63	38.60	1.08	43.89	1.03	60.84	1.92	62.95	1.64	89.43	3.20	124.38	5.04	165.69	7.54	213.35	10.82
33	freccia	46.29	5.00	52.64	5.00	55.08	5.00	62.76	5.00	72.81	5.00	83.12	5.00	90.63	5.00	103.56	5.00	124.05	5.00	144.57	5.00	165.11	5.00
33	min	23.24	0.49	29.86	0.79	29.06	0.63	38.60	1.08	43.89	1.03	60.84	1.92	62.95	1.64	89.43	3.20	124.05	5.00	144.57	5.00	165.11	5.00
45	resist	20.21	0.37	25.31	0.58	24.70	0.46	32.05	0.76	36.13	0.71	49.20	1.28	50.83	1.09	71.25	2.07	98.20	3.19	130.05	4.71	166.80	6.69
45	freccia	42.66	5.00	48.47	5.00	50.69	5.00	57.72	5.00	66.91	5.00	76.35	5.00	83.23	5.00	95.07	5.00	113.84	5.00	132.65	5.00	151.47	5.00
45	min	20.21	0.37	25.31	0.58	24.70	0.46	32.05	0.76	36.13	0.71	49.20	1.28	50.83	1.09	71.25	2.07	98.20	3.19	130.05	4.71	151.47	5.00
66	resist	17.56	0.29	21.34	0.41	20.88	0.33	26.32	0.52	29.35	0.48	39.02	0.82	40.23	0.70	55.34	1.28	75.29	1.92	98.87	2.77	126.07	3.88
66	freccia	38.86	5.00	44.08	5.00	46.09	5.00	52.41	5.00	60.71	5.00	69.22	5.00	75.44	5.00	86.13	5.00	103.09	5.00	120.09	5.00	137.10	5.00
66	min	17.56	0.29	21.34	0.41	20.88	0.33	26.32	0.52	29.35	0.48	39.02	0.82	40.23	0.70	55.34	1.28	75.29	1.92	98.87	2.77	126.07	3.88
86	resist	16.24	0.25	19.35	0.34	18.98	0.27	23.47	0.42	25.96	0.38	33.94	0.63	34.94	0.54	47.41	0.95	63.87	1.40	83.33	2.00	105.78	2.76
86	freccia	36.63	5.00	41.51	5.00	43.39	5.00	49.30	5.00	57.06	5.00	65.04	5.00	70.86	5.00	80.88	5.00	96.77	5.00	112.70	5.00	128.66	5.00
86	min	16.24	0.25	19.35	0.34	18.98	0.27	23.47	0.42	25.96	0.38	33.94	0.63	34.94	0.54	47.41	0.95	63.87	1.40	83.33	2.00	105.78	2.76
105	resist	15.45	0.24	18.17	0.30	17.84	0.25	21.76	0.36	23.94	0.32	30.91	0.53	31.79	0.45	42.68	0.78	57.06	1.13	74.05	1.59	93.66	2.19
105	freccia	35.15	5.00	39.80	5.00	41.59	5.00	47.24	5.00	54.64	5.00	62.25	5.00	67.81	5.00	77.38	5.00	92.56	5.00	107.78	5.00	123.03	5.00
105	min	15.45	0.24	18.17	0.30	17.84	0.25	21.76	0.36	23.94	0.32	30.91	0.53	31.79	0.45	42.68	0.78	57.06	1.13	74.05	1.59	93.66	2.19

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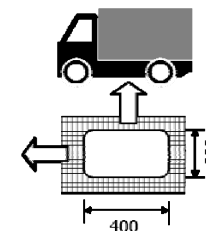
CLASSE 3 Transito autocarri leggeri

carico dinamico = 3000 daN impronta 400x200 mm

Materiale : Nastro laminato decapato DD11 UNI EN 10111 $f_y=340$ N/mm² (snervamento minimo)

L_n : luce massima [cm] tra gli appoggi

f = freccia elastica = $L_n/200 \leq 5$ mm



Barre Portanti

interasse barre [mm]		25X2		25X3		30X2		30X3		40X2		40X3		50X2		50X3		60X3		70X3		80X3	
		L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]
11	resist	31.99	0.99	37.98	1.32	37.26	1.06	45.90	1.59	50.69	1.45	66.04	2.40	67.95	2.03	91.93	3.60	123.58	5.26	160.99	7.47	204.15	10.32
11	freccia	48.35	5.00	54.15	5.00	56.40	5.00	63.51	5.00	72.91	5.00	82.62	5.00	89.73	5.00	102.01	5.00	121.57	5.00	141.21	5.00	160.93	5.00
11	min	31.99	0.99	37.98	1.32	37.26	1.06	45.90	1.59	50.69	1.45	66.04	2.40	67.95	2.03	91.93	3.60	121.57	5.00	141.21	5.00	160.93	5.00
15	resist	27.29	0.70	33.44	1.06	32.90	0.86	39.35	1.17	42.93	1.05	54.40	1.66	55.83	1.40	73.75	2.37	97.40	3.35	125.35	4.63	157.60	6.28
15	freccia	44.69	5.00	49.89	5.00	51.90	5.00	58.29	5.00	66.75	5.00	75.50	5.00	81.92	5.00	93.01	5.00	110.69	5.00	128.47	5.00	146.33	5.00
15	min	27.29	0.70	33.44	1.06	32.90	0.86	39.35	1.17	42.93	1.05	54.40	1.66	55.83	1.40	73.75	2.37	97.40	3.35	125.35	4.63	146.33	5.00
17	resist	25.33	0.59	31.97	0.99	31.49	0.81	37.23	1.06	40.42	0.93	50.64	1.45	51.91	1.21	67.87	2.03	88.93	2.82	113.82	3.86	142.54	5.18
17	freccia	43.35	5.00	48.32	5.00	50.25	5.00	56.37	5.00	64.47	5.00	72.87	5.00	79.03	5.00	89.68	5.00	106.66	5.00	123.75	5.00	140.91	5.00
17	min	25.33	0.59	31.97	0.99	31.49	0.81	37.23	1.06	40.42	0.93	50.64	1.45	51.91	1.21	67.87	2.03	88.93	2.82	113.82	3.86	140.91	5.00
21	resist	22.53	0.46	28.79	0.79	28.04	0.62	34.21	0.91	36.84	0.78	45.26	1.16	46.31	0.97	59.46	1.57	76.83	2.14	97.35	2.87	121.03	3.79
21	freccia	41.25	5.00	45.86	5.00	47.65	5.00	53.34	5.00	60.89	5.00	68.72	5.00	74.47	5.00	84.42	5.00	100.30	5.00	116.28	5.00	132.35	5.00
21	min	22.53	0.46	28.79	0.79	28.04	0.62	34.21	0.91	36.84	0.78	45.26	1.16	46.31	0.97	59.46	1.57	76.83	2.14	97.35	2.87	121.03	3.79
25	resist	20.63	0.39	25.94	0.61	25.30	0.48	32.15	0.83	34.40	0.69	41.60	0.98	42.50	0.82	53.75	1.30	68.60	1.72	86.15	2.27	106.40	2.97
25	freccia	39.65	5.00	43.99	5.00	45.68	5.00	51.04	5.00	58.16	5.00	65.56	5.00	70.99	5.00	80.41	5.00	95.44	5.00	110.59	5.00	125.81	5.00
25	min	20.63	0.39	25.94	0.61	25.30	0.48	32.15	0.83	34.40	0.69	41.60	0.98	42.50	0.82	53.75	1.30	68.60	1.72	86.15	2.27	106.40	2.97
28	resist	19.55	0.35	24.33	0.54	23.76	0.43	30.64	0.76	33.03	0.65	39.54	0.89	40.36	0.74	50.54	1.15	63.97	1.51	79.85	1.97	98.17	2.55
28	freccia	38.67	5.00	42.86	5.00	44.48	5.00	49.64	5.00	56.50	5.00	63.63	5.00	68.87	5.00	77.96	5.00	92.47	5.00	107.10	5.00	121.81	5.00
28	min	19.55	0.35	24.33	0.54	23.76	0.43	30.64	0.76	33.03	0.65	39.54	0.89	40.36	0.74	50.54	1.15	63.97	1.51	79.85	1.97	98.17	2.55
33	resist	18.20	0.30	22.30	0.45	21.81	0.36	27.71	0.59	30.99	0.58	36.95	0.78	37.65	0.65	46.48	0.98	58.13	1.26	71.90	1.61	87.78	2.06
33	freccia	37.32	5.00	41.31	5.00	42.84	5.00	47.73	5.00	54.23	5.00	61.00	5.00	65.98	5.00	74.61	5.00	88.41	5.00	102.34	5.00	116.34	5.00
33	min	18.20	0.30	22.30	0.45	21.81	0.36	27.71	0.59	30.99	0.58	36.95	0.78	37.65	0.65	46.48	0.98	58.13	1.26	71.90	1.61	87.78	2.06
45	resist	16.18	0.25	19.27	0.34	18.90	0.27	23.35	0.41	25.82	0.38	33.07	0.65	33.61	0.53	40.42	0.74	49.40	0.92	60.02	1.14	72.27	1.43
45	freccia	34.97	5.00	38.70	5.00	40.09	5.00	44.51	5.00	50.40	5.00	56.55	5.00	61.07	5.00	68.93	5.00	81.52	5.00	94.24	5.00	107.03	5.00
45	min	16.18	0.25	19.27	0.34	18.90	0.27	23.35	0.41	25.82	0.38	33.07	0.65	33.61	0.53	40.42	0.74	49.40	0.92	60.02	1.14	72.27	1.43
66	resist	14.41	0.22	16.62	0.26	16.35	0.21	19.53	0.29	21.30	0.26	26.95	0.41	27.65	0.34	35.11	0.57	41.76	0.66	49.62	0.79	58.69	0.96
66	freccia	32.44	5.00	35.90	5.00	37.19	5.00	41.17	5.00	46.41	5.00	51.90	5.00	55.95	5.00	62.99	5.00	74.30	5.00	85.74	5.00	97.26	5.00
66	min	14.41	0.22	16.62	0.26	16.35	0.21	19.53	0.29	21.30	0.26	26.95	0.41	27.65	0.34	35.11	0.57	41.76	0.66	49.62	0.79	58.69	0.96
86	resist	13.53	0.22	15.30	0.24	15.09	0.19	17.63	0.24	19.04	0.21	23.56	0.31	24.13	0.26	31.19	0.43	37.96	0.55	44.44	0.64	51.93	0.76
86	freccia	30.87	5.00	34.21	5.00	35.44	5.00	39.23	5.00	44.10	5.00	49.19	5.00	52.96	5.00	59.52	5.00	70.07	5.00	80.75	5.00	91.53	5.00
86	min	13.53	0.22	15.30	0.24	15.09	0.19	17.63	0.24	19.04	0.21	23.56	0.31	24.13	0.26	31.19	0.43	37.96	0.55	44.44	0.64	51.93	0.76
105	resist	13.01	0.22	14.51	0.22	14.33	0.18	16.49	0.22	17.70	0.18	21.54	0.26	22.02	0.22	28.04	0.35	35.69	0.49	41.35	0.56	47.89	0.65
105	freccia	29.45	5.00	33.08	5.00	34.27	5.00	37.92	5.00	42.57	5.00	47.40	5.00	50.98	5.00	57.22	5.00	67.26	5.00	77.45	5.00	87.72	5.00
105	min	13.01	0.22	14.51	0.22	14.33	0.18	16.49	0.22	17.70	0.18	21.54	0.26	22.02	0.22	28.04	0.35	35.69	0.49	41.35	0.56	47.89	0.65

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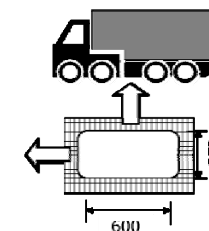
CLASSE 4 Transito autotreni/autoarticolati

carico dinamico = 9000 daN impronta 600x250 mm

Materiale : Nastro laminato decapato DD11 UNI EN 10111 $f_y=340$ N/mm² (snervamento minimo)

L_n : luce massima [cm] tra gli appoggi

f = freccia elastica = $L_n/200 \leq 5$ mm



Barre Portanti

interasse barre [mm]		25X2		25X3		30X2		30X3		40X2		40X3		50X2		50X3		60X3		70X3		80X3	
		L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]
11	resist	24.07	0.53	29.86	0.81	29.16	0.64	37.50	1.17	42.12	1.18	48.98	1.44	49.77	1.18	59.66	1.62	72.71	1.99	88.13	2.47	105.93	3.07
11	freccia	42.49	5.00	47.02	5.00	48.71	5.00	53.91	5.00	60.44	5.00	67.12	5.00	72.07	5.00	80.70	5.00	94.62	5.00	108.76	5.00	123.05	5.00
11	min	24.07	0.53	29.86	0.81	29.16	0.64	37.50	1.17	42.12	1.18	48.98	1.44	49.77	1.18	59.66	1.62	72.71	1.99	88.13	2.47	105.93	3.07
15	resist	21.04	0.42	25.31	0.58	24.80	0.47	30.95	0.73	34.37	0.70	44.13	1.27	44.72	1.03	52.08	1.26	61.80	1.45	73.28	1.73	86.53	2.09
15	freccia	39.47	5.00	43.68	5.00	45.25	5.00	50.08	5.00	56.15	5.00	62.16	5.00	66.57	5.00	74.29	5.00	86.77	5.00	99.47	5.00	112.33	5.00
15	min	21.04	0.42	25.31	0.58	24.80	0.47	30.95	0.73	34.37	0.70	44.13	1.27	44.72	1.03	52.08	1.26	61.80	1.45	73.28	1.73	86.53	2.09
17	resist	20.06	0.39	23.84	0.52	23.39	0.42	28.83	0.63	31.86	0.58	41.54	1.12	42.75	0.97	49.63	1.17	58.27	1.29	68.48	1.52	80.26	1.81
17	freccia	38.32	5.00	42.41	5.00	43.94	5.00	48.63	5.00	54.52	5.00	60.34	5.00	64.55	5.00	71.93	5.00	83.87	5.00	96.04	5.00	108.36	5.00
17	min	20.06	0.39	23.84	0.52	23.39	0.42	28.83	0.63	31.86	0.58	41.54	1.12	42.75	0.97	49.63	1.17	58.27	1.29	68.48	1.52	80.26	1.81
21	resist	18.66	0.36	21.74	0.44	21.37	0.36	25.81	0.51	28.27	0.45	36.16	0.78	37.14	0.67	46.13	1.06	53.23	1.09	61.62	1.23	71.30	1.44
21	freccia	36.49	5.00	40.38	5.00	41.83	5.00	46.30	5.00	51.91	5.00	57.44	5.00	61.37	5.00	68.21	5.00	79.29	5.00	90.61	5.00	102.10	5.00
21	min	18.66	0.36	21.74	0.44	21.37	0.36	25.81	0.51	28.27	0.45	36.16	0.78	37.14	0.67	46.13	1.06	53.23	1.09	61.62	1.23	71.30	1.44
25	resist	17.71	0.34	20.31	0.40	20.00	0.32	23.75	0.43	25.83	0.38	32.50	0.60	33.33	0.51	43.75	1.01	49.80	0.98	56.95	1.06	65.20	1.21
25	freccia	35.06	5.00	38.80	5.00	40.20	5.00	44.48	5.00	49.87	5.00	55.20	5.00	58.96	5.00	65.38	5.00	75.82	5.00	86.48	5.00	97.32	5.00
25	min	17.71	0.34	20.31	0.40	20.00	0.32	23.75	0.43	25.83	0.38	32.50	0.60	33.33	0.51	43.75	1.01	49.80	0.98	56.95	1.06	65.20	1.21
28	resist	17.17	0.34	19.51	0.38	19.23	0.31	22.59	0.39	24.46	0.34	30.44	0.52	31.19	0.44	40.54	0.83	47.87	0.93	54.33	0.97	61.77	1.09
28	freccia	34.17	5.00	37.82	5.00	39.18	5.00	43.36	5.00	48.61	5.00	53.80	5.00	57.47	5.00	63.66	5.00	73.69	5.00	83.96	5.00	94.39	5.00
28	min	17.17	0.34	19.51	0.38	19.23	0.31	22.59	0.39	24.46	0.34	30.44	0.52	31.19	0.44	40.54	0.83	47.87	0.93	54.33	0.97	61.77	1.09
33	resist	16.50	0.34	18.49	0.36	18.25	0.29	21.13	0.35	22.73	0.30	27.85	0.44	28.48	0.37	36.48	0.63	45.44	0.87	51.01	0.87	57.44	0.94
33	freccia	32.94	5.00	36.46	5.00	37.77	5.00	41.80	5.00	46.87	5.00	51.87	5.00	55.40	5.00	61.32	5.00	70.80	5.00	80.51	5.00	90.40	5.00
33	min	16.50	0.34	18.49	0.36	18.25	0.29	21.13	0.35	22.73	0.30	27.85	0.44	28.48	0.37	36.48	0.63	45.44	0.87	51.01	0.87	57.44	0.94
45	resist	15.49	0.35	16.98	0.34	16.80	0.28	18.95	0.30	20.14	0.25	23.97	0.33	24.44	0.27	30.42	0.42	38.30	0.58	46.06	0.76	50.98	0.76
45	freccia	30.38	5.00	34.04	5.00	35.32	5.00	39.08	5.00	43.82	5.00	48.50	5.00	51.80	5.00	57.33	5.00	65.89	5.00	74.66	5.00	83.61	5.00
45	min	15.49	0.35	16.98	0.34	16.80	0.28	18.95	0.30	20.14	0.25	23.97	0.33	24.44	0.27	30.42	0.42	38.30	0.58	46.06	0.76	50.98	0.76
66	resist	14.60	0.39	15.65	0.35	15.53	0.29	17.04	0.28	17.88	0.22	20.57	0.25	20.91	0.21	25.11	0.29	30.66	0.35	37.22	0.44	44.79	0.62
66	freccia	27.64	5.00	30.84	5.00	32.08	5.00	36.02	5.00	40.51	5.00	44.83	5.00	47.89	5.00	53.00	5.00	60.77	5.00	68.53	5.00	76.48	5.00
66	min	14.60	0.39	15.65	0.35	15.53	0.29	17.04	0.28	17.88	0.22	20.57	0.25	20.91	0.21	25.11	0.29	30.66	0.35	37.22	0.44	44.79	0.62
86	resist	14.16	0.44	14.99	0.37	14.89	0.31	16.09	0.28	16.75	0.21	18.88	0.23	19.15	0.18	22.47	0.23	26.86	0.27	32.04	0.33	38.03	0.40
86	freccia	26.00	5.00	28.93	5.00	30.06	5.00	33.66	5.00	38.44	5.00	42.61	5.00	45.52	5.00	50.37	5.00	57.75	5.00	64.95	5.00	72.30	5.00
86	min	14.16	0.44	14.99	0.37	14.89	0.31	16.09	0.28	16.75	0.21	18.88	0.23	19.15	0.18	22.47	0.23	26.86	0.27	32.04	0.33	38.03	0.40
105	resist	13.90	0.49	14.60	0.39	14.51	0.33	15.52	0.29	16.08	0.21	17.87	0.22	18.10	0.17	20.89	0.21	24.59	0.23	28.95	0.27	33.99	0.32
105	freccia	24.90	5.00	27.63	5.00	28.69	5.00	32.06	5.00	36.55	5.00	41.10	5.00	43.90	5.00	48.58	5.00	55.70	5.00	62.56	5.00	69.51	5.00
105	min	13.90	0.49	14.60	0.39	14.51	0.33	15.52	0.29	16.08	0.21	17.87	0.22	18.10	0.17	20.89	0.21	24.59	0.23	28.95	0.27	33.99	0.32

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TABELLA SINOTTICA

Classe 1 : Transito pedonale (folla compatta) carico dinamico = 630 daN/m² uniformemente distribuito

Classe 2 : Transito autovetture carico dinamico = 1000 daN impronta 200x200 mm

Classe 3 : Transito autocarri leggeri carico dinamico = 3000 daN impronta 400x200 mm

Classe 4 : Transito autotreni/autoarticolati carico dinamico = 9000 daN impronta 600x250 mm



Materiale : Nastro laminato decapato DD11 UNI EN 10111 $f_y=340$ N/mm² (snervamento minimo)

L_n = luce massima [cm] tra gli appoggi

interasse barre [mm]		Barre Portanti										
		25X2	25X3	30X2	30X3	40X2	40X3	50X2	50X3	60X3	70X3	80X3
		L_n [cm]	L_n [cm]	L_n [cm]	L_n [cm]	L_n [cm]	L_n [cm]	L_n [cm]	L_n [cm]	L_n [cm]	L_n [cm]	L_n [cm]
11	classe 1	131.67	145.71	150.96	167.06	187.31	207.29	221.43	245.06	280.97	315.40	348.62
	classe 2	45.97	63.95	61.79	86.92	101.02	115.47	126.00	144.09	172.75	201.43	230.12
	classe 3	31.99	37.98	37.26	45.90	50.69	66.04	67.95	91.93	121.57	141.21	160.93
	classe 4	24.07	29.86	29.16	37.50	42.12	48.98	49.77	59.66	72.71	88.13	105.93
	Min	24.07	29.86	29.16	37.50	42.12	48.98	49.77	59.66	72.71	88.13	105.93
15	classe 1	121.96	134.97	139.83	154.75	173.51	192.02	205.12	227.00	260.26	292.16	322.93
	classe 2	36.88	50.31	48.70	68.05	78.80	104.89	114.43	130.84	156.83	182.84	208.87
	classe 3	27.29	33.44	32.90	39.35	42.93	54.40	55.83	73.75	97.40	125.35	146.33
	classe 4	21.04	25.31	24.80	30.95	34.37	44.13	44.72	52.08	61.80	73.28	86.53
	Min	21.04	25.31	24.80	30.95	34.37	44.13	44.72	52.08	61.80	73.28	86.53
17	classe 1	118.26	130.88	135.59	150.06	168.24	186.19	198.89	220.11	252.37	283.30	313.14
	classe 2	33.93	45.90	44.46	61.70	71.27	100.96	105.74	125.92	150.92	175.94	200.98
	classe 3	25.33	31.97	31.49	37.23	40.42	50.64	51.91	67.87	88.93	113.82	140.91
	classe 4	20.06	23.84	23.39	28.83	31.86	41.54	42.75	49.63	58.27	68.48	80.26
	Min	20.06	23.84	23.39	28.83	31.86	41.54	42.75	49.63	58.27	68.48	80.26
21	classe 1	112.29	124.27	128.74	142.48	159.74	176.79	188.85	208.99	239.62	268.98	297.32
	classe 2	29.73	39.60	38.41	52.62	60.51	85.77	88.93	118.14	141.57	165.02	188.50
	classe 3	22.53	28.79	28.04	34.21	36.84	45.26	46.31	59.46	76.83	97.35	121.03
	classe 4	18.66	21.74	21.37	25.81	28.27	36.16	37.14	46.13	53.23	61.62	71.30
	Min	18.66	21.74	21.37	25.81	28.27	36.16	37.14	46.13	53.23	61.62	71.30
25	classe 1	107.60	119.08	123.37	136.53	153.08	169.41	180.97	200.27	229.62	257.76	284.91
	classe 2	26.88	35.31	34.30	46.45	53.20	74.80	77.50	111.25	134.42	156.68	178.95
	classe 3	20.63	25.94	25.30	32.15	34.40	41.60	42.50	53.75	68.60	86.15	106.40
	classe 4	17.71	20.31	20.00	23.75	25.83	32.50	33.33	43.75	49.80	56.95	65.20
	Min	17.71	20.31	20.00	23.75	25.83	32.50	33.33	43.75	49.80	56.95	65.20
28	classe 1	104.67	115.84	120.01	132.82	148.91	164.80	176.04	194.82	223.37	250.74	277.16
	classe 2	25.27	32.90	31.99	42.98	49.09	68.63	71.07	101.61	130.04	151.57	173.11
	classe 3	19.55	24.33	23.76	30.64	33.03	39.54	40.36	50.54	63.97	79.85	98.17
	classe 4	17.17	19.51	19.23	22.59	24.46	30.44	31.19	40.54	47.87	54.33	61.77
	Min	17.17	19.51	19.23	22.59	24.46	30.44	31.19	40.54	47.87	54.33	61.77
33	classe 1	100.58	111.31	115.32	127.63	143.09	158.36	169.16	187.21	214.64	240.95	266.33
	classe 2	23.24	29.86	29.06	38.60	43.89	60.84	62.95	89.43	124.05	144.57	165.11
	classe 3	18.20	22.30	21.81	27.71	30.99	36.95	37.65	46.48	58.13	71.90	87.78
	classe 4	16.50	18.49	18.25	21.13	22.73	27.85	28.48	36.48	45.44	51.01	57.44
	Min	16.50	18.49	18.25	21.13	22.73	27.85	28.48	36.48	45.44	51.01	57.44
45	classe 1	93.35	103.31	107.03	118.44	132.80	146.97	156.99	173.74	199.20	223.61	247.17
	classe 2	20.21	25.31	24.70	32.05	36.13	49.20	50.83	71.25	98.20	130.05	151.47
	classe 3	16.18	19.27	18.90	23.35	25.82	33.07	33.61	40.42	49.40	60.02	72.27
	classe 4	15.49	16.98	16.80	18.95	20.14	23.97	24.44	30.42	38.30	46.06	50.98
	Min	15.49	16.98	16.80	18.95	20.14	23.97	24.44	30.42	38.30	46.06	50.98
66	classe 1	85.25	94.34	97.74	108.17	121.28	134.21	143.37	158.66	181.91	204.21	225.72
	classe 2	17.56	21.34	20.88	26.32	29.35	39.02	40.23	55.34	75.29	98.87	126.07
	classe 3	14.41	16.62	16.35	19.53	21.30	26.95	27.65	35.11	41.76	49.62	58.69
	classe 4	14.60	15.65	15.53	17.04	17.88	20.57	20.91	25.11	30.66	37.22	44.79
	Min	14.41	15.65	15.53	17.04	17.88	20.57	20.91	25.11	30.66	37.22	44.79
86	classe 1	80.16	88.71	91.91	101.71	114.04	126.21	134.81	149.20	171.06	192.02	212.25
	classe 2	16.24	19.35	18.98	23.47	25.96	33.94	34.94	47.41	63.87	83.33	105.78
	classe 3	13.53	15.30	15.09	17.63	19.04	23.56	24.13	31.19	37.96	44.44	51.93
	classe 4	14.16	14.99	14.89	16.09	16.75	18.88	19.15	22.47	26.86	32.04	38.03
	Min	13.53	14.99	14.89	16.09	16.75	18.88	19.15	22.47	26.86	32.04	38.03
105	classe 1	76.59	84.76	87.81	97.18	108.96	120.58	128.81	142.55	163.44	183.47	202.80
	classe 2	15.45	18.17	17.84	21.76	23.94	30.91	31.79	42.68	57.06	74.05	93.66
	classe 3	13.01	14.51	14.33	16.49	17.70	21.54	22.02	28.04	35.69	41.35	47.89
	classe 4	13.90	14.60	14.51	15.52	16.08	17.87	18.10	20.89	24.59	28.95	33.99
	Min	13.90	14.60	14.51	15.52	16.08	17.87	18.10	20.89	24.59	28.95	33.99

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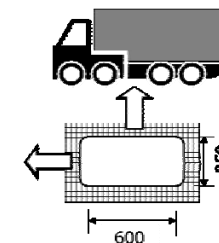
CLASSE 4 Transito autotreni/autoarticolati

carico dinamico = 9000 daN impronta 600x250 mm

Materiale : Nastro laminato decapato DD11 UNI EN 10111 $f_y=340$ N/mm² (snervamento minimo)

L_n : luce massima [cm] tra gli appoggi

f = freccia elastica = $L_n/200 \leq 5$ mm



Barre Portanti

interasse barre [mm]		25X4		30X4		40X4		50X4		60X4		70X4		80X4					
		L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]	L_n [cm]	f [mm]				
13	resist	32.15	0.96	40.79	1.44	51.58	1.55	63.72	1.85	78.55	2.31	96.09	2.92	116.32	3.67				
13	freccia	48.55	5.00	55.67	5.00	69.46	5.00	83.72	5.00	98.31	5.00	113.11	5.00	128.06	5.00				
13	min	32.15	0.96	40.79	1.44	51.58	1.55	63.72	1.85	78.55	2.31	96.09	2.92	116.32	3.67				
16	resist	28.54	0.74	35.60	1.02	47.73	1.39	57.71	1.52	69.90	1.85	84.31	2.27	100.93	2.80				
16	freccia	46.23	5.00	53.00	5.00	65.92	5.00	79.16	5.00	92.73	5.00	106.53	5.00	120.47	5.00				
16	min	28.54	0.74	35.60	1.02	47.73	1.39	57.71	1.52	69.90	1.85	84.31	2.27	100.93	2.80				
22	resist	24.28	0.54	29.46	0.66	42.66	1.19	50.61	1.21	59.67	1.35	70.39	1.60	82.75	1.92				
22	freccia	42.93	5.00	49.22	5.00	61.08	5.00	72.89	5.00	85.05	5.00	97.43	5.00	109.98	5.00				
22	min	24.28	0.54	29.46	0.66	42.66	1.19	50.61	1.21	59.67	1.35	70.39	1.60	82.75	1.92				
28	resist	21.85	0.44	25.96	0.51	36.42	0.79	46.55	1.08	53.83	1.11	62.43	1.27	72.36	1.48				
28	freccia	40.64	5.00	46.59	5.00	57.81	5.00	68.67	5.00	79.87	5.00	91.30	5.00	102.88	5.00				
28	min	21.85	0.44	25.96	0.51	36.42	0.79	46.55	1.08	53.83	1.11	62.43	1.27	72.36	1.48				

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