

Ing. Carlo de Blasio di Palizzi

STUDIO DI INGEGNERIA

COLLAUDO STATICO

DEPOSITO ATM – VIA FONTANESI
PARCHEGGIO PUBBLICO A ROTAZIONE
E DEPOSITERIA AUTO RIMOSSE
CON ANNESSA PALAZZINA UFFICI

Relazione di verifica della congruità delle deformazioni

SETTORE C.C.F.
S. C. C.
Rel. P. C. C.
Al sen. C. C. C.
Al sen. C. C. C.

Torino,

23 MAG 2002

IL FUNZIONARIO DELEGATO

2001/10.1086
P. C. C.
P. C. C.
P. C. C.
P. C. C.



VIA DEI MERCANTI N. 30 – 10121 TORINO

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Cod. Fisc.: DBI CRL 54B03 F839B

P.IVA: 05204340018

OTA

STUDIO DI INGEGNERIA

Nome travata : SOLAIO DEPOSITERIA ZONA A "CIELO APERTO"
 Combinazione : tensioni ammissibili.
 Schema statico : carrelli agli appoggi.
 Unità di misura : Kgf; cm; cm²; cm⁴; Kgf/cm; Kgf/cm²; Kgf/cm².

SEZIONI UTILIZZATE

Jg=408750; E=311769

DESCRIZIONE CAMPATE

Camp.: Descriz. | Sem. | Incl. | Lungh. | Modo Sin. | Modo Des. |
 1' C1 1' 0' 734.1 2.1 2.1

CARICHI APPLICATI

Nro.	Con.	Camp.	Tipo	Sistema	carico 1	carico 2	dist. 1	dist. 2
1	1	1	Forza concentrata	Globale	-3935.	-	367.	- (*)
2	1	1	Forza concentrata	Globale	-2445.	-	57.	- (*)
3	1	1	Forza concentrata	Globale	-2445.	-	512.	- (*)

SOLLECITAZIONI

Progressive	Momento	minime Taglio	Deformaz.	Momento	massime Taglio	Deformaz.
> 0.1 0.1	0.	4962.1	0.	0.	4962.1	0.
14.1 14.1	71454.6	4962.1	.02401	71454.6	4962.1	.02401
30.1 30.1	148863.8	4962.1	.04989	148863.8	4962.1	.04989
44.1 44.1	220318.4	4962.1	.07355	220318.4	4962.1	.07355
57.1 57.1	282841.1	4962.1	.09397	282841.1	4962.1	.09397
57.1 57.1	282841.1	2517.1	.09397	282841.1	2517.1	.09397
101.1 101.1	394313.9	2517.1	.16285	394313.9	2517.1	.16285
146.1 146.1	505786.5	2517.1	.22595	505786.5	2517.1	.22595
190.1 190.1	617259.2	2517.1	.28162	617259.2	2517.1	.28162
234.1 234.1	728731.9	2517.1	.32824	728731.9	2517.1	.32824
278.1 278.1	840204.6	2517.1	.36417	840204.6	2517.1	.36417
323.1 323.1	951677.3	2517.1	.38777	951677.3	2517.1	.38777
367.1 367.1	1063150.	2517.1	.3974	1063150.	2517.1	.3974
403.1 403.1	1011752.	-1417.9	.39399	1011752.	-1417.9	.39399
440.1 440.1	960354.1	-1417.9	.38063	960354.1	-1417.9	.38063
476.1 476.1	908956.1	-1417.9	.35782	908956.1	-1417.9	.35782
512.1 512.1	857558.2	-1417.9	.32609	857558.2	-1417.9	.32609
512.1 512.1	857558.2	-3862.9	.32609	857558.2	-3862.9	.32609
548.1 548.1	720348.9	-3862.9	.28694	720348.9	-3862.9	.28694
583.1 583.1	583139.6	-3862.9	.241	583139.6	-3862.9	.241
619.1 619.1	445930.3	-3862.9	.18956	445930.3	-3862.9	.18956
654.1 654.1	308720.9	-3862.9	.1339	308720.9	-3862.9	.1339
690.1 690.1	171511.6	-3862.9	.07534	171511.6	-3862.9	.07534
704.1 704.1	115886.2	-3862.9	.05106	115886.2	-3862.9	.05106
720.1 720.1	55625.4	-3862.9	.02456	55625.4	-3862.9	.02456
734.1 734.1	0.	-3862.9	0.	0.	-3862.9	0.

(*) I CARICHI SONO OTTENUTI DIVIDENDO PER 6 I CARICHI TRASMESSI DALLE RUOTE DEGLI AUTOMEZZI. 6 È IL NUMERO DI PANNELLI CONSIDERATI COLLABORANTI TRASVERSALMENTE

NELLA PAGINA SEGUENTE SI RIPISTA IL GRAFICO QUALITATIVO DELLA DEFORMATA;

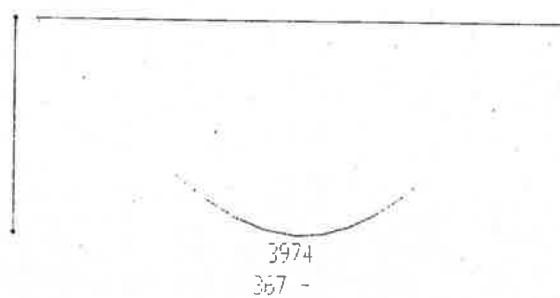
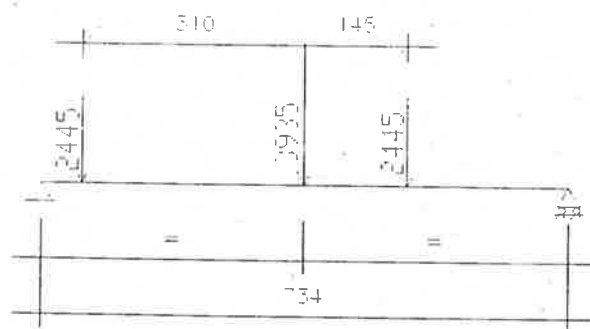
DEFORMATA ELASTICA MASSIMA 0.3974 cm
 DEFORMATA MASSIMA MISURATA 0.1360 cm

0.3974 > 0.1360

LA DIFFERENZA È DOVUTA, OLTRE AD UNA MAGGIORE COLLABORAZIONE TRASVERSALE, AL SEMI-INCASSTO CHE SI HA ALLE ESTREMITA' PER EFFETTO DEL GETTO DI COMPLETAMENTO.

Ing. Carlo de Blasio di Palizzi

STUDIO DI INGEGNERIA



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P.IVA: 05204340018

STUDIO DI INGEGNERIA

Nome travata : TRAVE DEPOSITERIA A "CIELO APERTO"

Condizione : tensioni ammissibili.
 Schema statico : carrelli agli appoggi.
 Unità di misura : Kgf; cm; cm²; cm⁴; Kgf/cm; Kgf/cm².

SEZIONI UTILIZZATE

1. Sezione a T : largh.=105; alt.=110; sp.ala=44; sp.an.=60;
 A=8590; Jg=8633070.76823077; E=311789.

DESCRIZIONE CAMPATE

Camp.	Descriz.	Sez.	Incl.	Lungh.	Modo	Sin.	Mod.	Des.
1	C1	1	0	780.	2.		2.	
2	C2	1	0	780.	3.		3.	
3	C3	1	0	780.	8.		8.	

CARICHI APPLICATI

Sez.	Camp.	Tipo	Sistema	carico 1	carico 2	dist. 1	dist. 2
1	1	C1 Forma concentrata	Globale	-11534.	-	185.	-
2	2	C2 Forma concentrata	Globale	-11534.	-	365.	-
3	3	C3 Forma concentrata	Globale	-10387.	-	415.	-
4	4	C4 Forma concentrata	Globale	-10387.	-	625.	-

SOLLECITAZIONI

Progressive	Momento	minime		Deformat.	Momento	massime	
		Taglio	Deformat.			Taglio	Deformat.
0.	0.	0.	-2705.9	0.	0.	0.	0.
22.	22.	-60881.6	-2705.9	-0.00129	0.	0.	0.
45.	45.	-121763.3	-2705.9	-0.00457	0.	0.	0.
48.	48.	-130286.7	-2705.9	-0.00439	0.	0.	0.
71.	71.	-191168.3	-2705.9	-0.00714	0.	0.	0.
93.	93.	-252050.	-2705.9	-0.00936	0.	0.	0.
139.	139.	-375624.1	-2705.9	-0.0137	0.	0.	0.
184.	184.	-499198.2	-2705.9	-0.01775	0.	0.	0.
230.	230.	-622772.3	-2705.9	-0.02142	0.	0.	0.
276.	276.	-746346.4	-2705.9	-0.0246	0.	0.	0.
321.	321.	-869920.5	-2705.9	-0.02711	0.	0.	0.
367.	367.	-993494.6	-2705.9	-0.02914	0.	0.	0.
413.	413.	-1117068.7	-2705.9	-0.0303	0.	0.	0.
459.	459.	-1240642.9	-2705.9	-0.03059	0.	0.	0.
504.	504.	-1364216.9	-2705.9	-0.02992	0.	0.	0.
550.	550.	-1487791.	-2705.9	-0.0282	0.	0.	0.
596.	596.	-1611365.1	-2705.9	-0.02532	0.	0.	0.
641.	641.	-1734939.1	-2705.9	-0.0211	0.	0.	0.
687.	687.	-1858513.3	-2705.9	-0.01572	0.	0.	0.
733.	733.	-1982087.5	-2705.9	-0.01251	0.	0.	0.
778.	778.	-2080176.6	-2705.9	-0.00893	0.	0.	0.
825.	825.	-2188200.	-2705.9	-0.0084	0.	0.	0.
871.	871.	-2249681.7	-2705.9	-0.00439	0.	0.	0.
917.	917.	-2310563.3	-2705.9	0.	0.	0.	0.
963.	963.	-2370563.3	0.	0.	0.	22346.1	0.
1009.	1009.	-2430563.3	0.	0.	0.	22346.1	0.00477
1055.	1055.	-2490563.3	0.	0.	0.	22346.1	0.00984
1101.	1101.	-2550563.3	0.	0.	0.	22346.1	0.01057
1147.	1147.	-2610563.3	0.	0.	0.	22346.1	0.01587
1193.	1193.	-2670563.3	0.	0.	0.	22346.1	0.02127
1239.	1239.	-2730563.3	0.	0.	662031.4	22346.1	0.02869
1285.	1285.	-2790563.3	0.	0.	1353085.1	22346.1	0.03587
1331.	1331.	-2850563.3	0.	0.	1353085.1	10812.1	0.03587
1377.	1377.	-2910563.3	0.	0.	1267194.1	10812.1	0.04485
1423.	1423.	-2970563.3	0.	0.	2261503.	10812.1	0.05266
1469.	1469.	-3030563.3	0.	0.	2715411.	10812.1	0.05898
1515.	1515.	-3090563.3	0.	0.	3169521.	10812.1	0.06352
1561.	1561.	-3150563.3	0.	0.	3613630.	10812.1	0.06592
1607.	1607.	-3210563.3	0.	0.	3613630.	0.	0.06592
1653.	1653.	-3270563.3	0.	0.	3613630.	0.	0.06592
1699.	1699.	-3330563.3	0.	0.	3597535.9	0.	0.06583
1745.	1745.	-3390563.3	0.	0.	3597535.9	0.	0.06583
1791.	1791.	-3450563.3	0.	0.	3110981.9	0.	0.06326
1837.	1837.	-3510563.3	0.	0.	2634389.9	0.	0.05861

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STUDIO DI INGEGNERIA

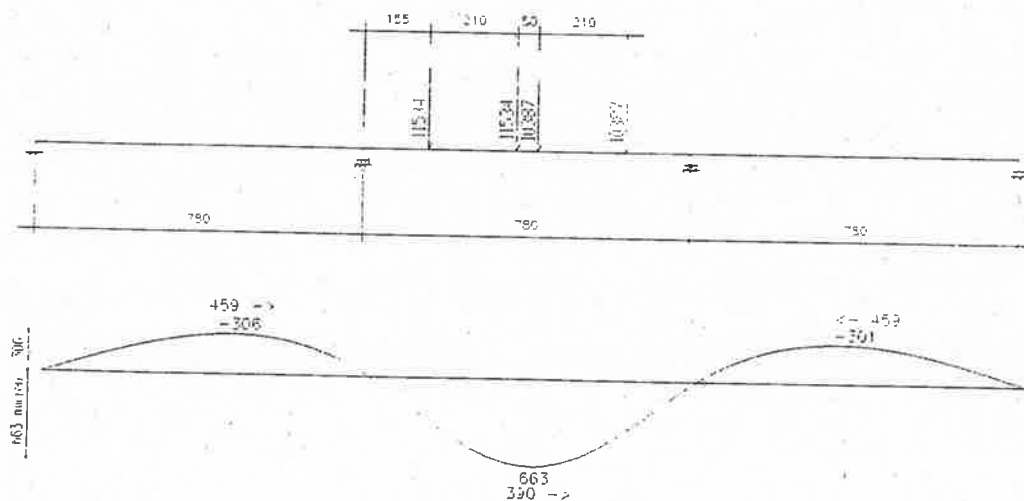
1301.	841.	0.	-11108.9	0.	1187816.9	0.05211
1302.	843.	0.	-11109.9	0.	1721143.3	0.04435
1303.	845.	0.	-11108.9	0.	1154670.9	0.03541
1304.	848.	0.	-11495.9	0.	1154671.8	0.03542
1305.	856.	0.	-11495.9	0.	589810.7	0.02819
1307.	887.	-74849.9	-11495.9	0.		0.01698
1309.	909.	-558506.9	-11495.9	0.		0.01563
1312.	932.	-1042164.1	-11495.9	0.		0.01041
1315.	935.	-1109878.2	-11495.9	0.		0.00969
1318.	958.	-1593533.9	-11495.9	0.		0.00489
1320.	980.	-2077190.8	-11495.9	0.		
1322.	0.	-2077190.9	0.	0.	2663.1	0.
1323.	10.	-2017271.9	0.	-0.00432	2663.1	0.
1325.	45.	-1957351.9	0.	-0.00826	2663.1	0.
1329.	48.	-1948964.2	0.	-0.00879	2663.1	0.
1331.	71.	-1889045.3	0.	-0.01231	2663.1	0.
1333.	93.	-1829126.3	0.	-0.01648	2663.1	0.
1339.	139.	-1707506.2	0.	-0.01086	2663.1	0.
1344.	194.	-1585886.	0.	-0.01492	2663.1	0.
1350.	230.	-1464268.9	0.	-0.01775	2663.1	0.
1356.	276.	-1342645.8	0.	-0.01945	2663.1	0.
1361.	321.	-1221025.6	0.	-0.03011	2663.1	0.
1367.	367.	-1099405.5	0.	-0.02892	2663.1	0.
1373.	413.	-977788.3	0.	-0.02867	2663.1	0.
1379.	459.	-856165.2	0.	-0.01678	2663.1	0.
1384.	504.	-734545.1	0.	-0.01421	2663.1	0.
1388.	550.	-612924.9	0.	-0.01108	2663.1	0.
1386.	596.	-491304.8	0.	-0.01747	2663.1	0.
1381.	641.	-369684.7	0.	-0.01349	2663.1	0.
1347.	687.	-248064.5	0.	-0.00921	2663.1	0.
1389.	739.	-128145.6	0.	-0.00793	2663.1	0.
1391.	782.	-118216.6	0.	-0.00481	2663.1	0.
1395.	735.	-119837.9	0.	-0.0045	2663.1	0.
1319.	758.	-59919.	0.	-0.01226	2663.1	0.
1340.	780.	0.	0.	0.	2663.1	0.

DI SEGUITO SI RIPORTA IL GRAFICO QUALITATIVO DELLA DEFORMATA;

DEFORMATA ELASTICA MASSIMA
DEFORMATA MASSIMA MISURATA

0.0664 cm
0.0624 cm

0.0664 > 0.0624



Nome travata : SOLAIO DEPOSITERIA ZONA "COPERTA"

Inclinazione : tensioni ammissibili.

Sostegno statico : carrelli agli appoggi.

Unità di misura : Kg; cm; cm²; cm³; Kg/cm; Kg/cm²; Kg/cm³.

SEZIONI UTILIZZATE

E=348710; E=311769

DESCRIZIONE CAMPATE

Cam.	Descriz.	(Sec.)	(Incl.)	(Lungh.)	(Modo Sin.)	(Modo Des.)
1	C1	11	0	1055.1	1	1

CARICHI APPLICATI

Nr.	Cam.	Camp.	Tipo	Sistema	Carico 1	Carico 2	Edist. 1	Edist. 2
1	1	1	1) Forza concentrata	Globale	-1160.1	-	138.1	-
2	1	1	1) Forza concentrata	Globale	-1565.1	-	521.1	-
3	1	1	1) Forza concentrata	Globale	-1160.1	-	668.1	-

SOLLECITAZIONI

Progressive	Momento	minime			Momento	Massime		
		Taglio	Deformaz.			Taglio	Deformaz.	
1.1	0.	0.	0.	0.	0.	0.	0.	0.
18.1	18.1	0.	0.	0.	37286.3	1367.4	0.00143	
37.1	30.	0.	0.	0.	71001.4	1367.4	0.01268	
46.1	46.	0.	0.	0.	108307.7	1367.4	0.06495	
76.1	76.	0.	0.	0.	180710.1	1367.4	0.10772	
107.1	107.	0.	0.	0.	253112.5	1367.4	0.1495	
138.1	138.	0.	0.	0.	325515.	1367.4	0.18989	
169.1	138.	0.	0.	0.	325515.	1207.4	0.18989	
191.1	151.	0.	0.	0.	377834.8	1207.4	0.24407	
224.1	124.	0.	0.	0.	433154.7	1207.4	0.2941	
268.1	1268.	0.	0.	0.	482474.6	1207.4	0.33942	
311.1	1311.	0.	0.	0.	534794.4	1207.4	0.37944	
354.1	1354.	0.	0.	0.	587114.3	1207.4	0.41358	
398.1	1398.	0.	0.	0.	639434.2	1207.4	0.44129	
441.1	1441.	0.	0.	0.	691754.	1207.4	0.46187	
484.1	1484.	0.	0.	0.	744073.9	1207.4	0.47506	
528.1	1528.	0.	0.	0.	796393.8	1207.4	0.47994	
572.1	1572.	0.	-657.6	0.	796393.8	0.	0.47998	
616.1	1616.	0.	-657.6	0.	773377.1	0.	0.47768	
660.1	1660.	0.	-657.6	0.	750360.5	0.	0.46985	
704.1	1704.	0.	-657.6	0.	727343.8	0.	0.45664	
748.1	1748.	0.	-657.6	0.	704327.2	0.	0.43822	
792.1	1792.	0.	-1817.6	0.	704327.2	0.	0.43822	
836.1	1836.	0.	-1817.6	0.	626680.8	0.	0.40901	
880.1	1880.	0.	-1817.6	0.	549034.4	0.	0.37311	
924.1	1924.	0.	-1817.6	0.	471389.	0.	0.33136	
968.1	1968.	0.	-1817.6	0.	393741.6	0.	0.28458	
1012.1	2012.	0.	-1817.6	0.	316095.2	0.	0.23359	
1056.1	2056.	0.	-1817.6	0.	238448.8	0.	0.17914	
1100.1	2100.	0.	-1817.6	0.	160802.4	0.	0.12235	
1144.1	2144.	0.	-1817.6	0.	83156.	0.	0.06373	
1188.1	2188.	0.	-1817.6	0.	54528.6	0.	0.04186	
1232.1	2232.	0.	-1817.6	0.	28627.5	0.	0.02199	
1276.1	2276.	0.	-1817.6	0.	0.	0.	0.	

(*) I CARICHI SONO OTTENUTI DIVIDENDO PER 6 I CARICHI TRASMESSI DALLE RUOTE DEGLI AUTOMEZZI. 6 È IL NUMERO DI PANNELLI CONSIDERATI COLLABORANTI TRASVERSALMENTE

NELLA PAGINA SEGUENTE SI RIPISTA IL GRAFICO QUALITATIVO DELLA DEFORMATA;

DEFORMATA ELASTICA MASSIMA
DEFORMATA MASSIMA MISURATA

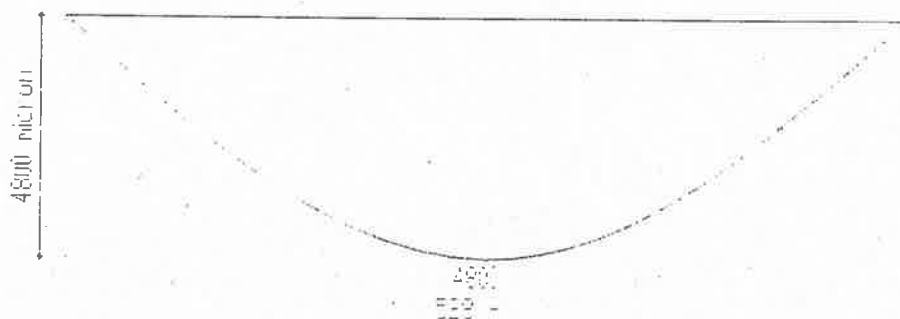
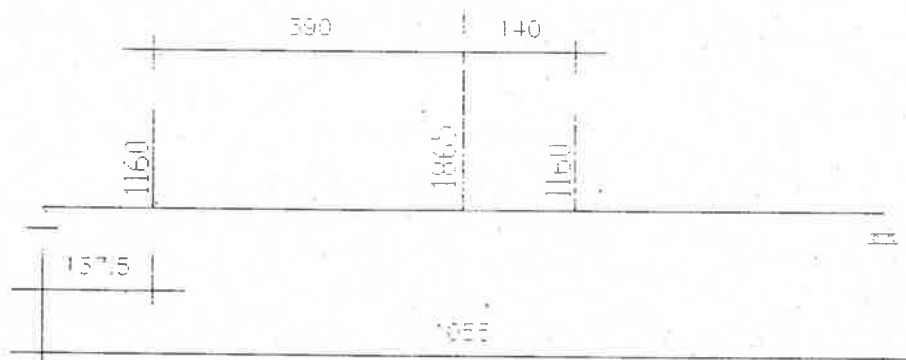
0.4800 cm
0.1080 cm

Ing. Carlo de Blasio di Palizzi

STUDIO DI INGEGNERIA

$$0.4800 > 0.1080$$

LA DIFFERENZA È DOVUTA, OLTRE AD UNA MAGGIORE COLLABORAZIONE TRASVERSALE, AL SEMI-INCASTRO CHE SI HA ALLE ESTREMITÀ PER EFFETTO DEL GETTO DI COMPLETAMENTO.



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Cod. Fisc.: DBI CRL 54B03 F839B

P.IVA: 05204340018

Nome travata : SOLAIO PARCHEGGIO PLURIPIANO

Condizione : tensioni ammissibili.
 Sistema statico : carrelli agli appoggi.
 Unità di misura : Kg/m; cm; cm²; cm⁴; Kg/cm; Kg/cm²; Kg/cm³.

SEZIONI UTILIZZATE

Iq=545710; E=311769

DESCRIZIONE CAMPATE

Camp. Descri. (Set. Incl. (Lung. (Modo Sin. (Modo Des.
 1 1 1 0 1145. 1 1

CARICHI APPLICATI

Nr.	Dir.	Camp.	Tipo	Sistema	Carico 1	Carico 2	Dist. 1	Dist. 2
1	1	1	1) Forza concentrata	Globale	-4000.	-	392.	-
2	1	1	1) Forza concentrata	Globale	-4000.	-	519.	-
3	1	1	1) Forza concentrata	Globale	-4000.	-	838.	-
4	1	1	1) Forza concentrata	Globale	-4000.	-	763.	-

SOLLECITAZIONI

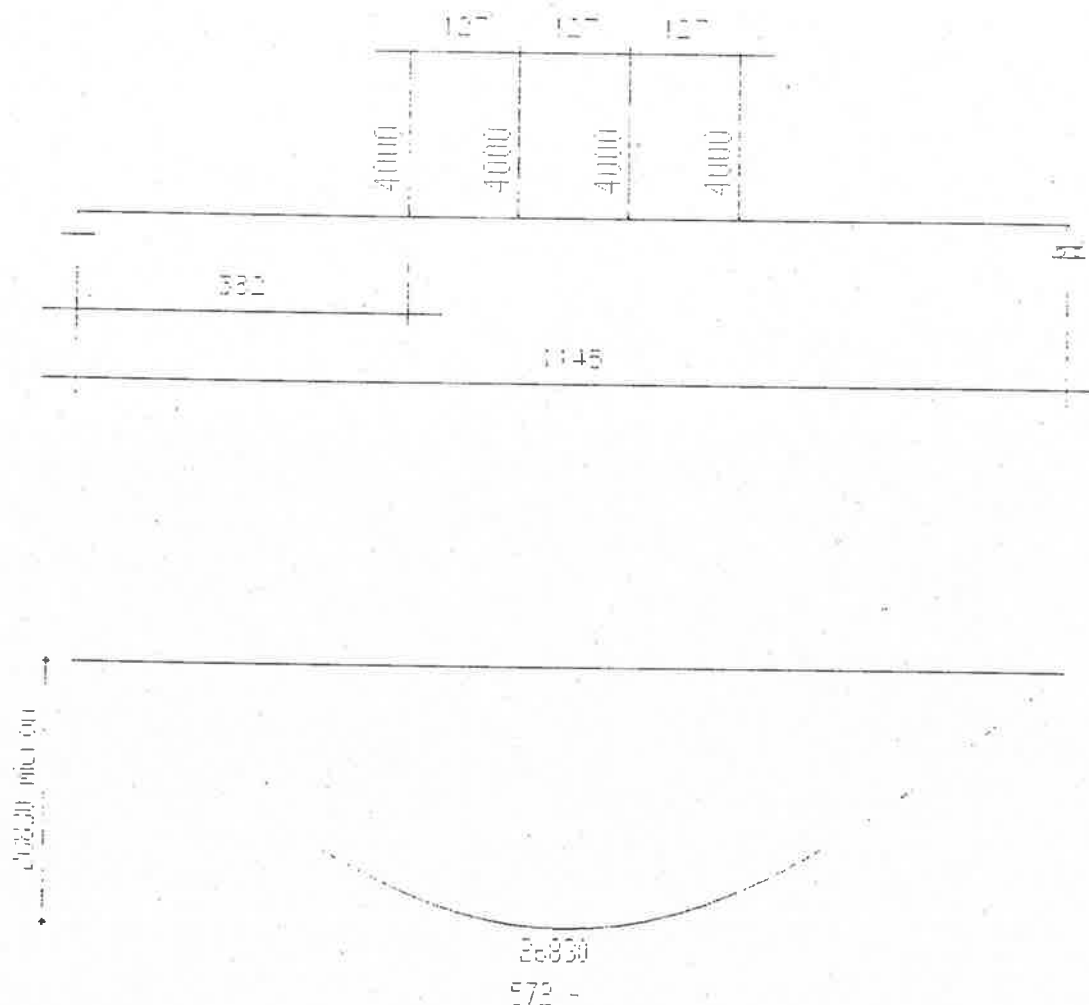
Progressive	Momento	minime		Deformaz.	Momento	massime	
		Taglio	Deformaz.			Taglio	Deformaz.
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.0	16.0	0.0	0.0	0.0	126000.	8000.	1.1325
32.0	32.0	0.0	0.0	0.0	160000.	8000.	1.23348
48.0	48.0	0.0	0.0	0.0	396000.	8000.	1.34614
64.0	64.0	0.0	0.0	0.0	719750.	8000.	1.64139
100.0	100.0	0.0	0.0	0.0	1053500.	8000.	1.92931
166.0	166.0	0.0	0.0	0.0	1387250.	8000.	1.20682
216.0	216.0	0.0	0.0	0.0	1721000.	8000.	1.46961
257.0	257.0	0.0	0.0	0.0	2054750.	8000.	1.71519
298.0	298.0	0.0	0.0	0.0	2388500.	8000.	1.93987
340.0	340.0	0.0	0.0	0.0	2722250.	8000.	2.14024
382.0	382.0	0.0	0.0	0.0	3056000.	8000.	2.31293
382.0	382.0	0.0	0.0	0.0	3056000.	4000.	2.31293
414.0	414.0	0.0	0.0	0.0	3183000.	4000.	2.42382
446.0	446.0	0.0	0.0	0.0	3310000.	4000.	2.51395
477.0	477.0	0.0	0.0	0.0	3437000.	4000.	2.58389
509.0	509.0	0.0	0.0	0.0	3564000.	4000.	2.64096
509.0	509.0	0.0	0.0	0.0	3564000.	..	2.64096
541.0	541.0	0.0	0.0	0.0	3564000.	..	2.67146
572.0	572.0	0.0	0.0	0.0	3564000.	..	2.67146
604.0	604.0	0.0	0.0	0.0	3564000.	..	2.67146
636.0	636.0	0.0	0.0	0.0	3564000.	..	2.64096
636.0	636.0	0.0	-4000.	0.0	3564000.	..	2.64096
668.0	668.0	0.0	-4000.	0.0	3437000.	..	2.58389
700.0	700.0	0.0	-4000.	0.0	3310000.	..	2.51395
731.0	731.0	0.0	-4000.	0.0	3183000.	..	2.42382
763.0	763.0	0.0	-4000.	0.0	3056000.	..	2.31293
763.0	763.0	0.0	-8000.	0.0	3056000.	..	2.31293
805.0	805.0	0.0	-8000.	0.0	2722250.	..	2.14024
846.0	846.0	0.0	-8000.	0.0	2388500.	..	1.93987
887.0	887.0	0.0	-8000.	0.0	2054750.	..	1.71519
920.0	920.0	0.0	-8000.	0.0	1721000.	..	1.46961
971.0	971.0	0.0	-8000.	0.0	1387250.	..	1.20682
1013.0	1013.0	0.0	-8000.	0.0	1053500.	..	1.92931
1055.0	1055.0	0.0	-8000.	0.0	719750.	..	1.64139
1097.0	1097.0	0.0	-8000.	0.0	396000.	..	1.34614
1111.0	1111.0	0.0	-8000.	0.0	160000.	..	1.23348
1129.0	1129.0	0.0	-8000.	0.0	126000.	..	1.1325
1145.0	1145.0	0.0	-8000.	0.0	0.0	..	0.0

DI SEGUITO SI RIPORTA IL GRAFICO QUALITATIVO DELLA DEFORMATA;

DEFORMATA ELASTICA MASSIMA	2.6830 cm
DEFORMATA MASSIMA MISURATA	0.0976 cm

$$2.6830 > 0.0976$$

LA DIFFERENZA È DOVUTA, OLTRE AD UNA MAGGIORE COLLABORAZIONE TRASVERSALE, AL SEMI-INCASTRO CHE SI HA ALLE ESTREMITÀ PER EFFETTO DEL GETTO DI COMPLETAMENTO.



STUDIO DI INGEGNERIA

Nome travata : TRAVE PARCHEGGIO PLURIPIANO

Destinazione : tensioni ammissibili.

Sistema statico : carrelli agli appoggi.

Unità di misura : Kgf; cm; cm²; cm⁴; Kgf/cm; Kg/cm²; Kgf/cm³.

SEZIONI UTILIZZATE

Eg=20530; E=311789

DESCRIZIONE CAMPATE

Ord.	Descriz.	Sez.	Incl.	Lungh.	Modo	Sin.	Modo	Pos.
1	C1	1	0	500.	2.	2.	2.	
2	C2	1	0	500.	3.	3.	3.	
3	C3	1	0	500.	3.	3.	3.	

CARICHI APPLICATI

Ord.	Sez.	Camp.	Tipo	Sistema	Carico	liberico	2 dist.	1 dist.
1	C1	1	Forza concentrata	Globale	-4550.		167.	
2	C2	1	Forza concentrata	Globale	-4550.		334.	
3	C3	1	Forza concentrata	Globale	-4550.		167.	

SOLLECITAZIONI

Progressive	Momento	minime Taglio	Deformaz.	Momento	massime Taglio	Deformaz.
15.0	15.0	-947.1	0.	0.	0.	0.
15.0	15.0	-14490.7	-947.1	-0.00382	0.	0.
22.0	22.0	-21309.9	-947.1	-0.00561	0.	0.
38.0	38.0	-35800.6	-947.1	-0.00839	0.	0.
95.0	95.0	-80461.9	-947.1	-0.02062	0.	0.
132.0	132.0	-115113.2	-947.1	-0.03071	0.	0.
179.0	179.0	-169784.5	-947.1	-0.03904	0.	0.
226.0	226.0	-214446.9	-947.1	-0.04498	0.	0.
274.0	274.0	-259107.1	-947.1	-0.0479	0.	0.
321.0	321.0	-303768.4	-947.1	-0.04717	0.	0.
368.0	368.0	-348429.7	-947.1	-0.04116	0.	0.
415.0	415.0	-393091.	-947.1	-0.03225	0.	0.
462.0	462.0	-437752.3	-947.1	-0.0188	0.	0.
479.0	479.0	-452243.	-947.1	-0.015	0.	0.
495.0	495.0	-459062.2	-947.1	-0.0073	0.	0.
500.0	500.0	-473551.9	-947.1	0.	0.	0.
500.0	0.	-473352.9	0.	0.	0.	0.
515.0	15.0	-369135.	0.	0.	6814.9	0.
521.0	22.0	-310217.9	0.	0.	6814.9	.00797
537.0	38.0	-115950.	0.	0.	6814.9	.01192
570.0	70.0	0.	0.	0.	6814.9	.01065
601.0	100.0	0.	0.	4171.	6814.9	.03892
632.0	135.0	0.	0.	214192.	6814.9	.05919
667.0	167.0	0.	0.	444412.9	6814.9	.07695
687.0	167.0	0.	0.	664533.9	6814.9	.09179
695.0	195.0	0.	0.	664533.9	1164.9	.09179
711.0	211.0	0.	0.	717195.9	1164.9	.11115
727.0	211.0	0.	0.	789857.9	1164.9	.107
751.0	250.0	0.	0.	852513.9	1164.9	.14922
779.0	279.0	0.	-1195.1	951519.9	0.	.10902
806.0	306.0	0.	-2185.1	788536.8	0.	.10696
834.0	334.0	0.	-2285.1	714553.7	0.	.10299
866.0	366.0	0.	-2285.1	660570.7	0.	.09141
898.0	398.0	0.	-6935.1	660570.7	0.	.09141
930.0	430.0	0.	-6935.1	441505.4	0.	.07661
962.0	462.0	-215690.3	-6935.1	112440.2	0.	.05393
979.0	479.0	-320267.5	-6935.1	3374.9	0.	.03991
995.0	495.0	-369480.3	-6935.1	0.	0.	.02167
1000.0	500.0	-474057.4	-6935.1	0.	0.	.01193
1000.0	0.	-474057.4	0.	0.	0.	.00798
1015.0	15.0	-459551.3	0.	0.	949.1	0.
1021.0	22.0	-452724.8	0.	-0.00731	949.1	0.
1037.0	38.0	-438118.7	0.	-0.0131	949.1	0.
1095.0	95.0	-393509.9	0.	-0.01692	949.1	0.
1100.0	0.	-393509.9	0.	-0.01118	949.1	0.

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P.IVA: 05204340018

STUDIO DI INGEGNERIA

113.1132.1	-348800.9	0.	-0.04221	948.1
1178.1178.1	-304092.1	0.	-0.04711	948.1
1118.1118.1	-159383.1	0.	-0.04795	948.1
1114.1114.1	-114674.1	0.	-0.04503	948.1
1111.1111.1	-169985.4	0.	-0.03903	948.1
1168.1168.1	-115156.5	0.	-0.03074	948.1
1111.1111.1	-80847.8	0.	-0.02064	948.1
1461.1461.1	-35838.7	0.	-0.0094	948.1
1478.1478.1	-21332.6	0.	-0.00662	948.1
1488.1488.1	-14506.1	0.	-0.00392	948.1
1511.1511.1	0.	0.	0.	948.1

DI SEGUITO SI RIPORTA IL GRAFICO QUALITATIVO DELLA DEFORMATA;

DEFORMATA ELASTICA MASSIMA
DEFORMATA MASSIMA MISURATA

0.1090 cm
0.0264 cm

0.1090 > 0.0264

TRAVE PLURIPIANO

Unità di misura: Kg/cm, Kg/cm², Kg/cm³.

