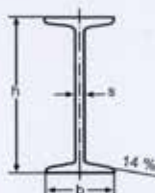


TRAVI NP

dati generali



PROFILO					Peso al m.	Sez. 2	Wx cm ³	Jx cm ⁴
h	b	a	e	r				
80	42	3,9	5,9	3,9	5,9	7,6	19,4	78
100	50	4,5	6,8	4,5	8,3	10,6	34,1	170
120	58	5,1	7,7	5,1	11,1	14,2	54,5	327
140	66	5,7	8,6	5,7	14,3	18,2	81,8	572
160	74	6,3	9,5	6,3	17,9	22,8	117	934
180	82	6,9	10,4	6,9	21,9	27,9	161	1444
200	90	7,5	11,3	7,5	26,2	33,4	214	2138
220	98	8,1	12,2	8,1	31,0	39,5	278	3050
240	106	8,7	13,1	8,7	36,2	46,1	353	4239
260	113	9,4	14,1	9,4	41,9	53,3	441	5735
280	119	10,1	15,2	10,1	47,9	61,0	541	7575
300	125	10,8	16,2	10,8	54,2	69,0	652	9785
320	131	11,5	17,3	11,5	61,0	77,7	781	12490
340	137	12,2	18,3	12,2	68,0	86,7	922	15670
360	143	13,0	19,5	13,0	76,1	97	1087	19580
380	149	13,7	20,5	13,7	84,0	107	1262	23980
400	155	14,4	21,6	14,4	92,5	118	1461	29210
425	163	15,3	23,0	15,3	104	132	1738	36930
450	170	16,2	24,3	16,2	115	147	2035	45790
475	178	17,1	25,6	17,1	128	163	2375	56410
500	185	18,0	27,0	18,0	141	180	2746	68650
550	200	19,0	30,0	19,0	166	212	3598	98950
	215	21,6	32,4	21,6	199	254	4626	138800



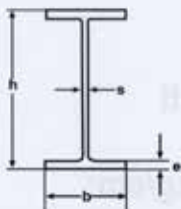
TRAVI NP

tabella dei carichi netti
uniformemente
ripartiti per $\sigma = 1600 \text{ kg/cm}^2$

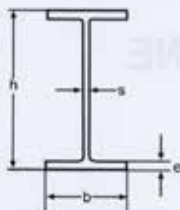
h	DISTANZA TRA GLI APOGGI IN METR															
	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00
80	978	810	689	597	525	467	—	—	—	—	—	—	—	—	—	—
100	1725	1430	1218	1058	932	831	747	677	—	—	—	—	—	—	—	—
120	2763	2232	1954	1700	1500	1340	1207	1096	919	—	—	—	—	—	—	—
140	4152	3447	2941	2560	2262	2022	1825	1659	1395	1194	1035	—	—	—	—	—
160	5946	4938	4216	3672	3247	2906	2624	2389	2014	1729	1503	1319	—	—	—	—
180	8188	6804	5811	5064	4481	4012	3626	3303	2791	2401	2093	1842	1632	—	—	—
200	10891	9052	7734	6743	5969	5347	4836	4408	3730	3214	2808	2477	2202	1968	—	—
220	14156	11768	10058	8772	7763	6962	6300	5745	4866	4200	3675	3248	2893	2593	2334	—
240	17983	14953	12783	11151	9878	8856	8016	7313	6201	5358	4695	4156	3709	3331	3004	2720
260	22474	18690	15981	13944	12355	11080	10032	9157	7770	6721	5895	5226	4670	4201	3797	3445
280	27575	22939	19617	17120	15172	13610	12327	11254	9557	8273	7263	6446	5768	5195	4703	4275
300	33247	27656	23654	20648	18302	16421	14875	13584	11544	10000	8786	7803	6990	6304	5714	5202
320	39835	33140	28343	24748	21341	19689	17840	16295	13854	12008	10558	9387	8417	7598	6896	6286
340	47036	39135	33481	29232	25920	23263	21083	19261	16383	14208	12501	11122	9980	9018	8194	7477
360	55464	46150	39487	34480	30577	27447	24878	22733	19344	16784	14774	13152	11811	10681	9713	8873
380	64824	53593	45859	40048	35518	31887	28908	26418	22488	19520	17192	15313	13761	12453	11133	10362
400	74572	62059	53107	46382	41141	36940	33492	30613	26068	22636	19946	17775	15983	14474	13183	12062
425	88726	73842	63197	55200	48968	43972	39876	36453	31052	26976	23782	21206	19080	17290	15760	14434
450	103904	86481	74020	64660	57366	51521	46727	42723	36406	31640	27907	24898	22415	20326	18541	16995
475	121280	100950	86409	75488	66980	60160	54568	49898	42532	36976	32625	29120	26228	23797	21720	19922
500	140243	116740	99932	87308	77474	69592	63131	57735	49225	42808	37785	33738	30402	27598	25204	23132
550	183802	153016	131003	114472	101596	91278	82822	75761	64630	56240	49677	44394	40041	36386	33268	30572
600	236353	196779	168483	147236	130688	117430	106565	97494	83196	72424	64000	57222	51640	46956	42961	39508

TRAVI IPE

dati
generali



PROFILO					Peso al m. kg	Sez. cm ²	W x ³	Jx c ⁴
h	b	a	e	r				
80	46	3,8	5,2	5,0	6,0	7,6	20,0	80
100	55	4,1	5,7	7,0	8,1	10,3	34,2	171
120	64	4,4	6,3	7,0	10,4	13,2	53,0	318
140	73	4,7	6,9	7,0	12,9	16,4	77,3	241
160	82	5,0	7,4	9,0	15,8	20,1	109	869
180	91	5,3	8,0	9,0	18,8	23,9	146	1317
200	100	5,6	8,5	12,0	22,4	28,5	194	1943
220	110	5,9	9,2	12,0	26,2	33,4	252	2772
240	120	6,2	9,8	15,0	30,7	39,1	324	3892
270	135	6,6	10,2	15,0	36,1	45,9	429	5790
300	150	7,1	10,7	15,0	42,2	53,8	557	8356
330	160	7,5	11,5	18,0	49,1	62,6	713	11770
360	170	8,0	12,7	18,0	57,1	72,7	904	16270
400	180	8,6	13,5	21,0	66,3	84,5	1160	23130
450	190	9,4	14,6	21,0	77,6	98,8	1500	33740
500	200	10,2	16,0	21,0	90,7	116	1930	48200
550	210	11,1	17,2	24,0	106	134	2440	67120
600	220	12,0	19,0	24,0	122	156	3070	92080



TRAVI IPE

tabella dei carichi netti
uniformemente

ripartiti per $\sigma = 1600 \text{ kg/cm}^2$

h	DISTANZA TRA GLI APPOGGI IN METR															
	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00
80	1009	835	710	616	542	482	—	—	—	—	—	—	—	—	—	—
100	1731	1435	1222	1062	936	835	751	681	—	—	—	—	—	—	—	—
120	2687	2230	1902	1654	1460	1305	1176	1068	896	—	—	—	—	—	—	—
140	3925	3259	2782	2422	2140	1914	1728	1571	1323	1133	—	—	—	—	—	—
160	5541	4603	3931	3425	3029	2711	2450	2230	1882	1617	1408	—	—	—	—	—
180	7428	6173	5273	4597	4068	3643	3294	3002	2538	2185	1907	1681	1492	—	—	—
200	9876	8210	7016	6118	5417	4854	4391	4004	3390	2925	2557	2259	2011	1800	1619	—
220	12837	10673	9124	7959	7050	6320	5720	5219	4424	3822	3348	2963	2644	2373	2140	1937
240	16512	13732	11741	10246	9078	8141	7371	6728	5709	4939	4332	3840	3432	3087	2791	2532
270	21874	18195	15563	13583	12040	10802	9785	8935	7592	6575	5776	5130	4595	4143	3754	3417
300	28413	23638	20222	17655	15653	14048	12731	11629	9889	8574	7542	6707	6017	5435	4935	4101
330	36383	30274	25904	22620	20060	18007	16323	14916	12694	11016	9698	8635	7756	7016	6382	5831
360	46142	38399	32860	28700	25457	22857	20724	18942	16130	14007	12343	11000	9891	8957	8158	7465
400	59226	49294	42191	36855	32697	29364	26631	24350	20747	18029	15901	14185	12769	11577	10559	9677
450	76606	63767	54585	47689	42317	38012	34482	31534	26885	23379	20635	18424	16601	15069	13760	12628
500	98589	82074	70265	61397	54490	48954	44417	40629	34656	30154	26632	23797	21460	19498	17824	16376
550	124663	103788	88863	77656	68927	61934	56202	51417	43875	38192	33748	30172	27226	24754	22646	20824
600	156879	130620	111847	97752	86775	77982	70776	64761	55283	48144	42564	38076	34381	31282	28641	26360

TRAVE IPE SOLLECITATE A COMPRESSIONE

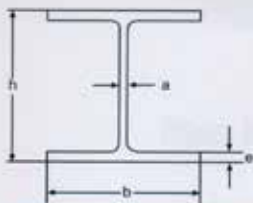
pilastri acciaio con carico di sicurezza = 16 kg / m²

mm	carichi massimi in kg riferiti alle lunghezze dei pilastri in m:											
	2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7	8
80	3574	2272	1583	1166								
100	6618	4291	2953	2177	1671							
120	10057	7489	5201	3784	2937	2323	1884					
140	14183	11359	8437	6116	4702	3727	3023	2503				
160	18917	15611	12711	9403	7210	5695	4614	3810	3203	2732		
180	24050	20670	17225	13755	10563	8367	6768	5607	4709	4021	3466	
200	30000	26205	22463	19079	15099	11875	9702	7985	6745	5728	4924	3781
220		32987	28886	24855	21461	17183	13916	11517	9698	8259	7059	5419
240		40623	35954	31595	27681	23696	19190	15878	13310	11353	9790	7483
270		50301	45614	41258	36537	32495	28355	23167	19689	16690	14513	11110
300		61049	56631	51855	46782	42403	38088	33756	28503	24454	20944	16000
330			68136	62600	57234	51896	46586	41907	36688	31596	27217	20780
360			81342	75532	69652	63912	58452	52396	47477	41841	36236	27498
400			95886	89536	83456	76384	70051	63474	58528	53019	45581	34666
450				106093	99421	92444	85448	78646	71207	65593	57904	44280
500				128000	102519	111807	104269	96165	88380	80346	73359	56932
550					141052	132345	122514	112842	105615	96576	88962	70065
600					167516	156981	147692	137142	128000	117183	108995	89784

Tolleranze

Vengono garantite le tolleranze normali previste dalle seguenti norme di unificazione vigenti:

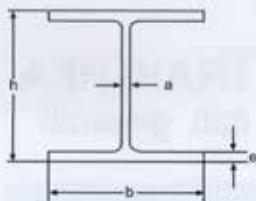
Travi IPE	UNI 5398-64
Travi IPE ad ali larghe e parallele	UNI 5397-64



TRAVI HEA

dati generali

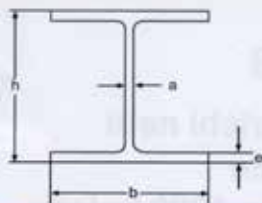
PROFILO						Peso al m. kg	Sez. cm ²	Wx cm ³	Jx cm ⁴
HE	h	b	a	e	r				
100	96	100	5,0	8,0	12,0	16,7	21,2	73	349
120	114	120	5,0	8,0	12,0	19,9	25,3	106	606
140	133	140	5,5	8,5	12,0	24,7	31,4	155	1033
160	152	160	6,0	9,0	15,0	30,4	38,8	220	1673
180	171	180	6,0	9,5	15,0	35,5	45,3	294	2510
200	190	200	6,5	10,0	18,0	42,3	53,8	389	3692
220	210	220	7,0	11,0	18,0	50,5	64,3	515	5410
240	230	240	7,5	12,0	21,0	60,3	76,8	675	7763
260	250	260	7,5	12,5	24,0	68,2	86,8	836	10455
280	270	280	8,0	13,0	24,0	76,4	97,3	1010	13673
300	290	300	8,5	14,0	27,0	88,3	112	1260	18263
320	310	300	9,0	15,5	27,0	97,6	124	1480	22928
340	330	300	9,5	16,5	27,0	105	133	1680	27693
360	350	300	10,0	17,5	27,0	112	143	1890	33090
400	390	300	11,0	19,0	27,0	125	159	2310	45069
450	440	300	11,5	21,0	27,0	140	178	2900	63722
500	490	300	12,0	23,0	27,0	155	197	3550	86975
550	540	300	12,5	24,0	27,0	166	212	4150	111932
600	590	300	13,0	25,0	27,0	178	226	4790	141203
650	640	300	13,5	26,0	27,0	190	241	5470	175178
700	690	300	14,5	27,0	27,0	204	260	6240	215301
800	790	300	15,0	28,0	30,0	224	286	7680	303442
900	890	300	16,0	30,0	30,0	252	320	9480	422075
1000	990	300	16,5	31,0	30,0	272	347	11190	553846



TRAVI HEA

tabella dei carichi netti
uniformemente
ripartiti per $\sigma = 1600 \text{ kg/cm}^2$

h	DISTANZA TRA GLI APPOGGI IN METRI											
	3	4	5	6	7	8	9	10	11	12	13	14
100	3064	2269	1785	1457	—	—	—	—	—	—	—	—
120	4463	3312	2614	2142	1800	—	—	—	—	—	—	—
140	6539	4861	3844	3158	2661	2282	—	—	—	—	—	—
160	9295	6918	5480	4511	3810	3276	2855	2512	—	—	—	—
180	12437	9265	7348	6059	5127	4419	3861	3408	3030	—	—	—
200	16470	12278	9746	8044	6816	5885	5151	4556	4061	3641	—	—
220	21821	16277	12931	10683	9063	7835	6869	6087	5437	4887	4414	—
240	28618	21358	16978	14037	11920	10317	9057	8036	7191	6476	5862	5327
260	35464	26478	21060	17425	14809	12830	11275	10018	8977	8098	7344	6688
280	42863	32013	25473	21087	17933	15548	13676	12163	10912	9856	8951	8164
300	53493	39965	31813	26349	22421	19453	17125	15244	13690	12380	11258	10283
320	62852	46368	37400	30987	26379	22898	20170	17967	16147	14615	13306	12164
340	71363	53338	42481	35209	29984	26039	22947	20453	18393	16659	15176	13889
360	80301	60034	47822	39646	33775	29343	25871	23071	20760	18815	17152	15711
400	98182	73418	58509	48528	41364	35959	31790	28317	25567	23139	21119	19369
450	123310	92237	73538	61025	52047	45278	39983	35719	32204	29252	26733	24553
500	150997	112977	90102	74801	63827	55558	49092	43888	39603	36005	32937	30286
550	176564	132132	105407	87535	74721	65070	57526	51458	46463	42273	38702	35618
600	203834	152564	121731	101116	86340	75214	66520	59530	53778	48956	45026	41301
650	232816	174280	139082	115553	98692	86000	76085	68116	61560	56066	51388	47351
700	265628	198864	158724	131896	112674	98200	86910	77832	70366	64112	58788	54195
800	327008	244864	195488	162496	138866	121088	107210	96064	86903	79232	72706	67081
900	403724	302352	241428	200728	171584	149664	132558	118824	107540	98096	90065	83146
1000	476624	356992	285104	237088	202713	176864	156698	140512	127218	116096	106642	98500



TRAVI HEB

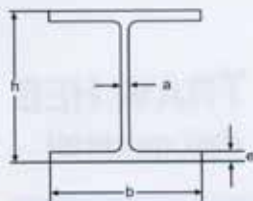
dati generali

PROFILO						Peso al m. kg	Sez. cm ²	Wx cm ³	Jx cm ⁴
HE	h	b	a	e	r				
100	100	100	6,0	10,0	12,0	20,4	26,0	90	450
120	120	120	6,5	11,0	12,0	26,7	34,0	144	864
140	140	140	7,0	12,0	12,0	33,7	43,0	216	1509
160	160	160	8,0	13,0	15,0	42,6	54,3	311	2492
180	180	180	8,5	14,0	15,0	51,2	65,3	426	3831
200	200	200	9,0	15,0	18,0	61,3	78,1	570	5696
220	220	220	9,5	16,0	18,0	71,5	91,0	736	8091
240	240	240	10,0	17,0	21,0	83,2	106	938	11259
260	260	260	10,0	17,5	24,0	93,0	118	1150	14919
280	280	280	10,5	18,0	24,0	103	131	1380	19270
300	300	300	11,0	19,0	27,0	117	149	1680	25166
320	320	300	11,5	20,5	27,0	127	161	1930	30823
340	340	300	12,0	21,5	27,0	134	171	2160	36656
360	360	300	12,5	22,5	27,0	142	181	2400	43193
400	400	300	13,5	24,0	27,0	155	198	2880	57680
450	450	300	14,0	26,0	27,0	171	218	3550	79887
500	500	300	14,5	28,0	27,0	187	239	4290	107176
550	550	300	15,0	29,0	27,0	199	254	4970	136691
600	600	300	15,5	30,0	27,0	212	270	5700	171041
650	650	300	16,0	31,0	27,0	225	286	6480	210616
700	700	300	17,0	32,0	27,0	241	306	7340	256888
800	800	300	17,5	33,0	30,0	262	334	8980	359083
900	900	300	18,5	35,0	30,0	291	371	10980	494065
1000	1000	300	19,0	36,0	30,0	314	400	12890	644748

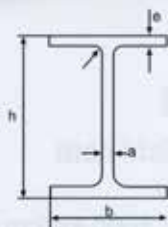
TRAVI HEB

tabella dei carichi netti
uniformemente

ripartiti per $\sigma = 1600 \text{ kg/cm}^2$



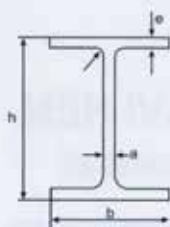
h	DISTANZA TRA GLI APPOGGI IN METRI											
	3	4	5	6	7	8	9	10	11	12	13	14
100	3778	2798	2202	1797	1502	—	—	—	—	—	—	—
120	6063	4501	3553	2911	2446	2090	—	—	—	—	—	—
140	9114	6777	5361	4405	3713	3186	2768	—	—	—	—	—
160	13141	9781	7748	6379	5388	4635	4039	—	—	—	—	—
180	18022	13427	10649	8780	7431	6406	5597	—	4393	—	—	—
200	24135	17994	14285	11792	9993	8629	7554	—	5958	5344	—	—
220	31187	23265	18483	15272	12957	11203	9823	—	7777	6992	6317	—
240	39770	29682	23596	19511	16569	14342	12591	—	10000	9006	8153	7411
260	48786	36427	28974	23974	20377	17655	15518	—	12358	11150	10113	9212
280	58569	43747	34812	28821	24512	21255	18700	—	14924	13483	12248	11174
300	71327	53290	42422	35137	29900	25943	22839	—	18261	16515	15020	13721
320	81963	61250	48771	40410	34401	29863	26305	—	21060	19062	17351	15867
340	91755	68582	54624	45274	38558	33487	29513	—	23659	21431	19525	17872
360	101971	76130	60728	50346	42890	37263	32854	—	26364	23895	21784	19954
400	122412	91568	72951	60508	51576	44838	39641	—	31962	28859	26341	24160
450	150949	112913	90022	74705	63715	55430	49948	—	39427	35813	32729	30062
500	182474	136528	108886	90395	77134	67142	59328	—	47861	43514	42238	38149
550	211451	158240	126234	104830	89484	77926	68891	—	55642	50624	46347	42653
600	242558	181547	144856	120325	102742	89501	79262	—	63993	58254	53365	49145
650	275805	206460	164763	136890	116916	101880	90135	—	72928	66420	60878	56095
700	312450	233916	186700	155140	132530	115512	102222	—	82760	75401	69137	63734
800	382360	286312	228578	190000	162371	141584	125357	—	101612	92642	85012	78434
900	467607	350196	279633	232494	198740	173352	153541	—	124566	113628	104327	96314
1000	549031	411224	328414	273102	233504	203728	180498	—	146538	133725	122834	113077



TRAVI HEM

dati generali

PROFILO						Peso al m. kg	Sez. cm ²	Wx cm ³	Jx cm ⁴
HE	h	b	a	e	r				
100	120	106	12,0	20,0	12,0	41,8	53,2	190	1143
120	140	126	12,5	21,0	12,0	52,1	66,4	288	2018
140	160	146	13,0	22,0	12,0	63,2	80,6	411	3291
160	180	166	14,0	23,0	15,0	76,2	97,1	566	5098
180	200	186	14,5	24,0	15,0	88,9	113	748	7483
200	220	206	15,0	25,0	18,0	103	131	967	10642
220	240	226	15,5	26,0	18,0	117	149	1220	14605
240	270	248	18,0	32,0	21,0	157	200	1800	24289
260	290	268	18,0	32,5	24,0	172	220	2160	31307
280	310	288	18,5	33,0	24,0	189	240	2550	39547
300	340	310	21,0	39,0	27,0	238	303	3480	59201
320	359	309	21,0	40,0	27,0	245	312	3800	68135
340	377	309	21,0	40,0	27,0	248	316	4050	76372
360	395	308	21,0	40,0	27,0	250	319	4300	84867
400	432	307	21,0	40,0	27,0	256	326	4820	104119
450	478	307	21,0	40,0	27,0	263	335	5500	131484
500	524	306	21,0	40,0	27,0	270	344	6180	161929
550	572	306	21,0	40,0	27,0	278	354	6920	197984
600	620	305	21,0	40,0	27,0	285	364	7660	237447
650	668	305	21,0	40,0	27,0	293	374	8430	281667
700	716	304	21,0	40,0	27,0	301	383	9200	329278
800	814	303	21,0	40,0	30,0	317	404	10870	442598
900	910	302	21,0	40,0	30,0	333	424	12540	570434
1000	1008	302	21,0	40,0	30,0	349	444	14330	722299



TRAVI HEM

tabella dei carichi netti
uniformemente
ripartiti per $o = 1600 \text{ kg/cm}$

h	Distanza tra gli appoggi in metri											
	3	4	5	6	7	8	9	10	11	12	13	14
100	7981	5912	4654	3802	3181	2705	—	—	—	—	—	—
120	12131	9007	7112	5771	4901	4191	3627	—	—	—	—	—
140	17346	12900	10205	8388	7072	6070	5276	4628	—	—	—	—
160	23920	17806	14108	11617	9816	8446	7363	6482	5747	—	—	—
180	31647	23580	18704	15423	13055	11256	9837	8685	7726	6911	—	—
200	40948	30531	24239	20011	16961	14647	12825	11347	10119	9078	8182	—
220	51701	38571	30646	25324	21489	18583	16297	14445	12909	11609	10491	9516
240	76327	56970	45294	37457	31814	27543	24186	21469	19217	17315	15681	14258
260	91641	68430	54434	45047	38292	33183	29171	25927	23242	20975	19031	17340
280	108230	80842	64333	53264	45304	39287	34564	30749	27593	24931	22650	20667
300	147762	110405	87895	72810	61966	53774	47350	42163	37875	34263	31169	28484
320	161394	120617	96052	79594	67769	58838	51838	46188	41522	37592	34229	31312
340	172451	128604	102437	84909	72319	62814	55366	49358	44398	40222	36651	33555
360	182712	136596	108827	90231	76876	66798	58904	52663	47285	42885	39087	35813
400	204880	153212	124748	101288	86342	75070	66245	59134	53269	48840	44129	40483
450	233871	174943	139481	115752	98727	85893	75853	67768	61105	55509	50733	46602
500	262863	196675	156854	130216	111112	96717	85461	76402	68940	62678	57337	52721
550	294467	220322	175757	145955	124588	108493	95913	85793	77463	70475	64519	59375
600	325963	243974	194666	161700	138070	120277	106374	95195	85997	78284	71714	66042
650	358801	268588	214343	178082	152097	132536	117256	104974	94871	86404	79194	72972
700	391630	293196	234015	194460	166121	144792	128135	114750	103743	94521	86671	79990
800	462835	346572	276687	229991	196546	171384	151742	135966	123000	112142	102906	94944
900	534041	399948	319359	265522	226971	197976	175349	157182	142257	129764	119141	109989
1000	610366	457164	365103	303612	259591	226488	200663	179934	162910	148865	136558	126131

TRAVE HE SOLLECITATA A COMPRESSIONE

mm		carichi massimi in kg. riferiti alle lunghezze dei pilastri in m.											
		2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7	8
100	A	23555	21068	18434	15924	13732	11084	9093	7521	6304			
	B	29090	26000	22857	19809	16979	13774	11304	9327	7834			
	M	61237	55633	49777	44109	38342	33380	26851	22166	18873			
120	A	29985	27726	25142	22741	20139	17911	15629	12769	10852	9200		
	B	40296	37517	34000	30734	27336	24285	21501	17770	15027	12680		
	M	79879	74816	68987	62863	56812	50590	44827	39494	33096	28105		
140	A	38646	36405	33718	31304	28384	26031	23367	21020	18402	15651	13469	
	B	53333	50218	46802	43270	39540	35833	32300	29029	26060	22122	19005	
	M	100750	95525	89555	83740	77221	70086	64159	58090	52636	45730	39558	
160	A	49269	46676	44028	41112	38559	35474	32333	29561	266874	24537	21333	—
	B	68952	65323	61617	57920	54300	49931	46459	42174	38442	35170	30808	
	M	124288	119507	113401	106410	100232	93029	85834	79671	72260	66393	60925	24404
180	A	58926	56186	53688	51042	48000	45019	42385	39178	36059	33095	30582	35903
	B	84943	81625	77392	73577	69653	65300	61099	56782	52502	48147	44649	68666
	M	148590	141625	136300	130417	123319	116954	109204	101842	94416	88000	80928	34850
200	A	71140	68317	65709	62832	59777	56631	53465	50339	46782	43474	40413	51850
	B	103272	99174	96123	91882	87384	82754	78100	73505	68659	64082	59504	90943
	M	175066	168064	161600	154470	148990	140990	135585	126554	118689	112342	104517	46342
220	A	86453	82967	80375	76776	74014	70951	67241	63900	60517	56522	53305	67096
	B	122352	118378	113750	109473	105507	101111	95789	91000	86153	81796	75883	113828
	M	202576	195934	180220	182473	175764	168338	160429	152254	144000	136599	129210	61134
240	A	105025	100721	97523	94523	90352	87148	84164	80313	76322	72282	67889	85226
	B	144957	139016	134603	130461	124629	120283	116164	111578	106000	100353	95280	166333
	M	275310	266133	255488	249500	240120	233109	223328	214335	206038	197135	186760	74267
260	A	119724	115733	112000	108500	104421	102117	97802	94476	90181	86260	82177	102400
	B	163310	157866	152774	148000	142436	139294	134354	128870	123816	118400	112094	197393
	M	305530	295260	288000	276661	270276	260266	252776	244000	234240	226683	216888	87954
280	A	135373	130823	127606	123555	119753	116179	112811	108867	104483	101090	96695	120137
	B	182817	176670	172327	166857	161723	158075	152459	148056	143020	137411	131400	226070
	M	384320	325694	317619	307456	300250	288962	282589	272567	265048	254516	247948	106508
300	A	153846	148760	144000	140625	157404	132352	129496	125000	120000	116883	142850	
	B	203897	197157	192387	186375	182106	176711	171625	166825	160107	154909	142850	
	M	418068	407529	394276	384888	375937	364631	356588	343943	334455	323306	301217	
320	A		164495	159232	155500	151938	146352	143194	138222	132683	129246	117775	
	B		213289	208129	201625	197007	191170	185669	179272	173208	167584	154538	
	M		419495	405835	396190	384000	375438	367058	354042	344275	330596	310062	
340	A		176528	170880	166875	163053	157058	151489	148333	142400	137806	126390	
	B		225983	218752	213625	208732	201058	196719	187287	183516	177558	163736	
	M		421066	410796	401015	288676	379909	368817	358354	346082	334622	311901	
360	A			182784	178500	174412	168000	162042	157572	152320	147406	135195	
	B			231168	225750	220580	212470	207884	200666	192640	187636	170982	
	M			414699	401637	392369	380656	372321	359211	349369	335578	303139	
400	A			203520	198750	191278	187058	180425	175448	168476	162038	149647	
	B			253184	247250	237954	232705	224453	218262	209589	204180	186164	
	M			420387	410456	400984	389014	377739	364531	354612	340705	314024	
450	A			222500	214135	209411	201985	195068	188609	181401	166549		
	B			272500	262255	256470	247375	240551	230993	222165	205116		
	M			419250	409648	397511	386071	375272	360161	348467	321341		
500	A			244961	237593	232352	224113	216438	207894	198742	184795		
	B			295937	287037	280705	270751	261479	251157	243159	223251		
	M			430575	420519	405058	390695	382255	367253	355406	325964		
600	A			278769	270447	262608	253426	243221	235324	225093	207085		
	B			392384	322388	315328	304225	243877	282352	270000	246857		
	M			451100	437533	424759	412709	398575	382842	365987	334436		

pilastri acciaio con carico di sicurezza = 16 kg / m²