

TRAVI IPE

Tabella dei carichi netti
uniformemente ripartiti per
@ = 1600 Kg/cm2

Il calcolo è fatto con la formula :

$$Q \text{ (Kg)} = \frac{8 \times Wx \times 1600}{L \text{ (cm)}} - \text{peso della trave}$$

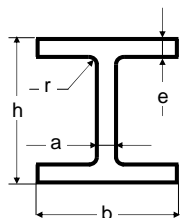
PROFILO (Dimensioni in mm)		Peso Kg/m	Sez. cm2	Wx cm3	Jx cm4	Distanza tra gli appoggi in metri																		
h	b					a	e	r	2,5	3	3,5	4	4,5	5	5,5	6	7	8	9	10	11	12	13	14
80	46	3,8	5,2	5	6	7,6	20	80	1.009	835	710	616	542	482	—	—	—	—	—	—	—	—	—	—
100	55	4,1	5,7	7	8,1	10,3	34,2	171	1.731	1.435	1.222	1.062	936	835	751	681	—	—	—	—	—	—	—	—
120	64	4,4	6,3	7	10,4	13,2	53	318	2.687	2.230	1.902	1.654	1.460	1.305	1.176	1.068	896	—	—	—	—	—	—	—
140	73	4,7	6,9	7	12,9	16,4	77,3	541	3.925	3.259	2.782	2.422	2.140	1.914	1.728	1.571	1.323	1.133	—	—	—	—	—	—
160	82	5	7,4	9	15,8	20,1	109	869	5.541	4.603	3.931	3.425	3.029	2.711	2.450	2.230	1.882	1.617	1.408	—	—	—	—	—
180	91	5,3	8	9	18,8	23,9	146	1.317	7.428	6.173	5.273	4.597	4.068	3.643	3.294	3.002	2.538	2.185	1.907	1.681	1.492	—	—	—
200	100	5,6	8,5	12	22,4	28,5	194	1.943	9.876	8.210	7.016	6.118	5.417	4.854	4.391	4.004	3.390	2.925	2.557	2.259	2.011	1.800	1.619	—
220	110	5,9	9,2	12	26,2	33,4	252	2.772	12.837	10.673	9.124	7.959	7.050	6.320	5.720	5.219	4.424	3.822	3.348	2.963	2.644	2.373	2.140	1.937
240	120	6,2	9,8	15	30,7	39,1	324	3.892	16.512	13.732	11.741	10.246	9.078	8.141	7.371	6.728	5.709	4.939	4.332	3.840	3.432	3.087	2.791	2.532
270	135	6,6	10,2	15	36,1	45,9	429	5.790	21.874	18.195	15.563	13.583	12.040	10.802	9.785	8.935	7.592	6.575	5.776	5.130	4.595	4.143	3.754	3.417
300	150	7,1	10,7	15	42,2	53,8	557	8.356	28.413	23.638	20.222	17.655	15.653	14.048	12.731	11.629	9.889	8.574	7.542	6.707	6.017	5.435	4.935	4.101
330	160	7,5	11,5	18	49,1	62,6	713	11.770	36.383	30.274	25.904	22.620	20.060	18.007	16.323	14.916	12.694	11.016	9.698	8.635	7.756	7.016	6.382	5.831
360	170	8	12,7	18	57,1	72,7	904	16.270	46.142	38.399	32.860	28.700	25.457	22.857	20.724	18.942	16.130	14.007	12.343	11.000	9.891	8.957	8.158	7.465
400	180	8,6	13,5	21	66,3	84,5	1.160	23.130	59.226	49.294	42.191	36.855	32.697	29.364	26.631	24.350	20.747	18.029	15.901	14.185	12.769	11.577	10.559	9.677
450	190	9,4	14,6	21	77,6	98,8	1.500	33.740	76.606	63.767	54.585	47.689	42.317	38.012	34.482	31.534	26.885	23.379	20.635	18.424	16.601	15.069	13.760	12.628
500	200	10,2	16	21	90,7	116	1.930	48.200	98.589	82.074	70.265	61.397	54.490	48.954	44.417	40.629	34.656	30.154	26.632	23.797	21.460	19.498	17.824	16.376
550	210	11,1	17,2	24	106	134	2.440	67.120	124.663	103.788	88.863	77.656	68.927	61.934	56.202	51.417	43.875	38.192	33.748	30.172	27.226	24.754	22.646	20.824
600	220	12	19	24	122	156	3.070	92.080	156.879	130.620	111.847	97.752	86.775	77.982	70.776	64.761	55.283	48.144	42.564	38.076	34.381	31.282	28.641	26.360

● I carichi a sinistra della linea comportano una freccia minore di 1/400 L, quelli a destra una freccia maggiore.

● Volendo realizzare una sollecitazione diversa da 1600 Kg/cm2, i carichi vanno variati in proporzione

● Per carichi concentrati in mezziera della trave dimezzare i valori della tabella

DISPONIBILE A MAGAZZINO



TRAVI HEM

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uniformemente ripartiti per
@ = 1600 Kg/cm2

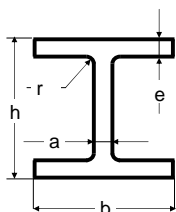
Il calcolo è fatto con la formula :

$$Q \text{ (Kg)} = \frac{8 \times W_x \times 1600}{L \text{ (cm)}} \text{ — peso della trave}$$

HEM	PROFILO (Dimensioni in mm)					Peso Kg/m	Sez. cm ²	Wx cm ³	Jx cm ⁴	DISTANZA TRA GLI APPOGGI IN METRI															
	h	b	a	e	r					3	4	5	6	7	8	9	10	11	12	13	14				
100	120	106	12	20	12	41,8	53,2	190	1.143	7.981	5.912	4.654	3.802	3.181	2.705	—	—	—	—	—	—	—	—	—	—
120	140	126	12,5	21	12	52,1	66,4	288	2.018	12.131	9.007	7.112	5.771	4.901	4.191	3.627	—	—	—	—	—	—	—	—	—
140	160	146	13	22	12	63,2	80,6	411	3.291	17.346	12.900	10.205	8.388	7.072	6.070	5.276	4.628	—	—	—	—	—	—	—	—
160	180	166	14	23	15	76,2	97,1	566	5.098	23.920	17.806	14.108	11.617	9.816	8.446	7.363	6.482	5.747	—	—	—	—	—	—	—
180	200	186	14,5	24	15	88,9	113	748	7.483	31.647	23.580	18.704	15.423	13.055	11.256	9.837	8.685	7.726	6.911	—	—	—	—	—	—
200	220	206	15	25	18	103	131	967	10.642	40.948	30.531	24.239	20.011	19.691	14.647	12.825	11.347	10.119	9.078	8.182	—	—	—	—	—
220	240	226	15,5	26	18	117	149	1.220	14.605	51.701	38.571	30.646	25.324	21.489	18.583	16.297	14.445	12.909	11.609	10.491	9.516	—	—	—	—
240	270	248	18	32	21	157	200	1.800	24.289	76.327	56.970	45.294	37.457	31.814	27.543	24.186	21.469	19.217	17.315	15.681	14.258	—	—	—	—
260	290	268	18	32,5	24	172	220	2.160	31.307	91.641	68.430	54.434	45.047	38.292	33.183	29.171	25.927	23.242	20.975	19.031	17.340	—	—	—	—
280	310	288	18,5	33	24	189	240	2.550	39.547	108.230	80.842	64.333	53.264	45.304	39.287	34.564	30.749	27.593	24.931	22.650	20.667	—	—	—	—
300	340	310	21	39	27	238	303	3.480	59.201	147.762	110.405	87.895	72.810	61.966	53.774	47.350	42.163	37.875	34.263	31.169	28.484	—	—	—	—
320	359	309	21	40	27	245	312	3.800	68.135	161.394	120.617	96.052	79.594	67.769	58.838	51.838	46.188	41.522	37.592	34.229	31.312	—	—	—	—
340	377	309	21	40	27	248	316	4.050	76.372	172.451	128.604	102.437	84.909	72.319	62.814	55.366	49.358	44.398	40.222	36.651	33.555	—	—	—	—
360	395	308	21	40	27	250	319	4.300	84.867	182.712	136.596	108.827	90.231	76.876	66.798	58.904	52.663	47.285	42.865	39.087	35.813	—	—	—	—
400	432	307	21	40	27	256	326	4.820	104.119	204.880	153.212	124.748	101.288	86.342	75.070	66.245	59.134	53.269	48.340	44.129	40.483	—	—	—	—
450	478	307	21	40	27	263	335	5.500	131.484	233.871	174.943	139.481	115.752	98.727	85.893	75.853	67.768	61.105	55.509	50.733	46.602	—	—	—	—
500	524	306	21	40	27	270	344	6.180	161.929	262.863	196.675	156.854	130.216	111.112	96.717	85.461	76.402	68.940	62.678	57.377	52.721	—	—	—	—
550	572	306	21	40	27	278	354	6.920	197.984	294.467	220.322	175.757	145.955	124.588	108.493	95.913	85.793	77.463	70.475	64.519	59.375	—	—	—	—
600	620	305	21	40	27	285	364	7.660	237.447	325.963	243.974	194.666	161.700	138.070	120.277	106.374	95.495	85.997	78.284	71.714	66.042	—	—	—	—
650	668	305	21	40	27	293	374	8.430	281.667	358.801	268.588	214.343	178.082	152.097	132.536	117.256	104.974	94.871	86.404	79.194	72.972	—	—	—	—
700	716	304	21	40	27	301	383	9.200	329.278	391.630	293.196	234.015	194.460	166.121	144.792	128.135	114.750	103.743	94.521	86.671	79.900	—	—	—	—
800	814	303	21	40	30	317	404	10.870	442.598	462.835	346.572	276.687	229.991	196.546	171.384	151.742	135.966	123.000	112.142	102.906	94.944	—	—	—	—
900	910	302	21	40	30	333	424	12.540	570.434	534.041	399.948	319.359	265.522	226.971	197.976	175.349	157.182	142.257	129.764	119.141	109.989	—	—	—	—
1000	1008	302	21	40	30	349	444	14.330	722.299	610.366	457.164	365.103	303.612	259.591	226.488	200.663	179.934	162.910	148.665	136.558	126.131	—	—	—	—

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- Per carichi concentrati in mezz'era della trave dimezzare i valori della tabella.



TRAVI HEB

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Il calcolo è fatto con la formula :

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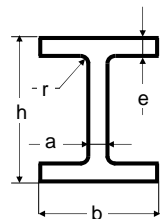
PROFILO (Dimensioni in mm)						Peso Kg/m	Sez. cm2	Wx cm3	Jx cm4	DISTANZA TRA GLI APPOGGI IN METRI														
HEB	h	b	a	e	r					3	4	5	6	7	8	9	10	11	12	13	14			
100	100	100	6	10	12	20,4	26	90	450	3.778	2.798	2.202	1.797	1.502	—	—	—	—	—	—	—	—	—	—
120	120	120	6,5	11	12	26,7	34	144	864	6.063	4.501	3.553	2.911	2.446	2.090	—	—	—	—	—	—	—	—	—
140	140	140	7	12	12	33,7	43	216	1.509	9.114	6.777	5.361	4.405	3.713	3.186	2.768	—	—	—	—	—	—	—	—
160	160	160	8	13	15	42,6	54	311	2.492	13.141	9.781	7.748	6.379	5.388	4.635	4.039	3.554	—	—	—	—	—	—	—
180	180	180	8,5	14	15	51,2	65,3	426	3.831	18.022	13.427	10.649	8.780	7.431	6.406	5.597	4.940	4.393	—	—	—	—	—	—
200	200	200	9	15	18	61,3	78,1	570	5.696	24.135	17.994	14.285	11.792	9.993	8.629	7.554	6.683	5.958	5.344	—	—	—	—	—
220	220	220	9,5	16	18	71,5	91	736	8.091	31.187	23.265	18.483	15.272	12.957	11.203	9.823	8.705	7.777	6.992	6.317	—	—	—	—
240	240	240	10	17	21	83,2	106	938	11.259	39.770	29.682	23.596	19.511	16.569	14.342	12.591	11.174	10.000	9.006	8.153	7.411	—	—	—
260	260	260	10	17,5	24	93	118	1.150	14.919	48.786	36.427	28.974	23.974	20.377	17.655	15.518	13.789	12.358	11.150	10.113	9.212	—	—	—
280	280	280	10,5	18	24	103	131	1.380	19.270	58.569	43.747	34.812	28.821	24.512	21.255	18.700	16.633	14.924	13.483	12.248	11.174	—	—	—
300	300	300	11	19	27	117	149	1.680	25.166	71.327	53.290	42.422	35.137	29.900	25.943	22.839	20.333	18.261	16.515	15.020	13.721	—	—	—
320	320	300	11,5	20,5	27	127	161	1.930	30.823	81.963	61.250	48.771	40.410	34.401	29.863	26.305	23.433	21.060	19.062	17.351	15.867	—	—	—
340	340	300	12	21,5	27	134	171	2.160	36.656	91.755	68.582	54.624	45.274	38.558	33.487	29.513	26.307	23.659	21.431	19.525	17.872	—	—	—
360	360	300	12,5	22,5	27	142	181	2.400	43.193	101.971	76.130	60.728	50.346	42.890	37.263	32.854	29.300	26.364	23.895	21.784	19.954	—	—	—
400	400	300	13,5	24	27	155	198	2.880	57.680	122.412	91.568	72.951	60.508	51.576	44.838	39.641	35.313	31.962	28.859	26.341	24.160	—	—	—
450	450	300	14	26	27	171	218	3.550	79.887	150.949	112.913	90.022	74.705	63.715	55.430	49.948	43.728	39.427	35.813	32.729	30.062	—	—	—
500	500	300	14,5	28	27	187	239	4.290	107.176	182.474	136.528	108.886	90.395	77.134	67.142	59.328	53.040	47.861	43.514	42.238	38.149	—	—	—
550	550	300	15	29	27	199	254	4.970	136.691	211.451	158.240	126.234	104.830	89.484	77.926	68.891	61.624	55.642	50.624	46.347	42.653	—	—	—
600	600	300	15,5	30	27	212	270	5.700	171.041	242.558	181.547	144.856	120.325	102.742	89.501	79.262	70.838	63.993	58.254	53.365	49.145	—	—	—
650	650	300	16	31	27	225	286	6.480	210.616	275.805	206.460	164.763	136.890	116.916	101.880	90.135	80.694	72.928	66.420	60.878	56.095	—	—	—
700	700	300	17	32	27	241	306	7.340	256.888	312.450	233.916	186.700	155.140	132.530	115.512	102.222	91.542	82.760	75.401	69.137	63.734	—	—	—
800	800	300	17,5	33	30	262	334	8.980	359.083	382.360	286.312	228.578	190.000	162.371	141.584	125.357	112.324	101.612	92.642	85.012	78.434	—	—	—
900	900	300	18,5	35	30	291	371	10.980	494.065	467.607	350.196	279.633	232.494	198.740	173.352	153.541	137.634	124.566	113.628	104.327	96.314	—	—	—
1000	1000	300	19	36	30	314	400	12.890	644.748	549.031	411.224	328.414	273.102	233.504	203.728	180.498	161.852	146.538	133.725	122.834	113.077	—	—	—

1/400

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DISPONIBILE A MAGAZZINO



TRAVI HEA

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PROFILO (Dimensioni in mm)						Peso Kg/m	Sez. cm2	Wx cm3	Jx cm4	DISTANZA TRA GLI APPOGGI IN METRI													
HEA	h	b	a	e	r					3	4	5	6	7	8	9	10	11	12	13	14		
100	96	100	5,0	8,0	12	16,7	21,2	73	349	3.064	2.269	1.785	1.457	—	—	—	—	—	—	—	—	—	—
120	114	120	5,0	8,0	12	19,9	25,3	106	606	4.463	3.312	2.614	2.142	1.800	—	—	—	—	—	—	—	—	—
140	133	140	5,5	8,5	12	24,7	31,4	155	1.033	6.539	4.861	3.844	3.158	2.661	2.282	—	—	—	—	—	—	—	—
160	152	160	6,0	9,0	15	30,4	38,8	220	1.673	9.295	6.918	5.480	4.511	3.810	3.276	2.855	2.512	—	—	—	—	—	—
180	171	180	6,0	9,5	15	35,5	45,3	294	2.510	12.437	9.265	7.348	6.059	5.127	4.419	3.861	3.408	3.030	—	—	—	—	—
200	190	200	6,5	10,0	18	42,3	53,8	389	3.692	16.470	12.278	9.746	8.044	6.816	5.885	5.151	4.556	4.061	3.641	—	—	—	—
220	210	220	7,0	11,0	18	50,5	64,3	515	5.410	21.821	16.277	12.931	10.683	9.063	7.835	6.869	6.087	5.437	4.887	4.414	—	—	—
240	230	240	7,5	12,0	21	60,3	76,8	675	7.763	28.618	21.358	16.978	14.037	11.920	10.317	9.057	8.036	7.191	6.476	5.862	5.327	—	—
260	250	260	7,5	12,5	24	68,2	86,8	836	10.455	35.464	26.478	21.060	17.425	14.809	12.830	11.275	10.018	8.977	8.098	7.344	6.688	—	—
280	270	280	8,0	13,0	24	76,4	97,3	1.010	13.673	42.863	32.013	25.473	21.087	17.933	15.548	13.676	12.163	10.912	9.856	8.951	8.164	—	—
300	290	300	8,5	14,0	27	88,3	112	1.260	18.263	53.493	39.965	31.813	26.349	22.421	19.453	17.125	15.244	13.690	12.380	11.258	10.283	—	—
320	310	300	9,0	15,5	27	97,6	124	1.480	22.928	62.852	46.368	37.400	30.987	26.379	22.898	20.170	17.967	16.147	14.615	13.306	12.164	—	—
340	330	300	9,5	16,5	27	105	133	1.680	27.693	71.363	53.338	42.481	35.209	29.984	26.039	22.947	20.453	18.393	16.659	15.176	13.889	—	—
360	350	300	10,0	17,5	27	112	143	1.890	33.090	80.301	60.034	47.822	39.646	33.775	29.343	25.871	23.071	20.760	18.815	17.152	15.711	—	—
400	390	300	11,0	19,0	27	125	159	2.310	45.069	98.182	73.418	58.509	48.528	41.364	35.959	31.790	28.317	25.567	23.139	21.119	19.369	—	—
450	440	300	11,5	21,0	27	140	178	2.900	63.722	123.310	92.237	73.538	61.025	52.047	45.278	39.983	35.719	32.204	29.252	26.733	24.553	—	—
500	490	300	12,0	23,0	27	155	197	3.550	86.975	150.997	112.977	90.102	74.801	63.827	55.558	49.092	43.888	39.603	36.005	32.937	30.286	—	—
550	540	300	12,5	24,0	27	166	212	4.150	111.932	176.564	132.132	105.407	87.535	74.721	65.070	57.526	51.458	46.463	42.273	38.702	35.618	—	—
600	590	300	13,0	25,0	27	178	226	4.790	141.203	203.834	152.564	121.731	101.116	86.340	75.214	66.520	59.530	53.778	48.956	45.026	41.301	—	—
650	640	300	13,5	26,0	27	190	241	5.470	175.178	232.816	174.280	139.082	115.553	98.692	86.000	76.085	68.116	61.560	56.066	51.388	47.351	—	—
700	690	300	14,5	27,0	27	204	260	6.240	215.301	265.628	198.864	158.724	131.896	112.674	98.200	86.910	77.832	70.366	64.112	58.788	54.195	—	—
800	790	300	15,0	28,0	30	224	286	7.680	303.442	327.008	244.864	195.488	162.496	138.866	121.088	107.210	96.064	86.903	79.232	72.706	67.081	—	—
900	890	300	16,0	30,0	30	252	320	9.480	422.075	403.724	302.352	241.428	200.728	171.584	149.664	132.558	118.824	107.540	98.096	90.065	83.146	—	—
1000	990	300	16,5	31,0	30	272	347	11.190	553.846	476.624	356.992	285.104	237.088	202.713	178.864	156.698	140.512	127.218	116.096	106.642	98.500	—	—

1/400

● I carichi a sinistra della linea comportano una freccia minore di 1/400 L, quelli a destra una freccia maggiore.

- Volendo realizzare una sollecitazione diversa da 1600 Kg/cm2, i carichi vanno variati in proporzione.
- Per carichi concentrati in mezzzeria della trave dimezzare i valori della tabella.

DISPONIBILE A MAGAZZINO