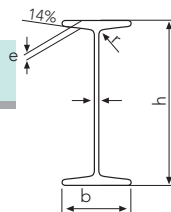


**TRAVI INP-IPE-HE**  
**INP - IPE - HE TRÄGER**

# INP-TRAVI NORMAL PROFILO - SCHMALE I-TRÄGER



EU 24-62 UNI 5679 DIN 1025

designazione	peso Gewicht	sezione Sektion	Dimensioni Abmessungen						Caratteristiche riferite all'asse neutro-Für die Biegeachse					
			h	b	a	e	r	x - x			y - y			
Bezeichnung	Kg/m	cm <sup>2</sup>	mm	mm	mm	mm	mm	J <sub>x</sub>	$\frac{J_x}{v_x}$	i <sub>x</sub>	J <sub>y</sub>	$\frac{J_y}{v_y}$	i <sub>y</sub>	
								cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	
80	5,95	7,58	80	42	3,9	5,76	3,9	77,8	19,5	3,20	6,3	3,00	0,91	
100	8,32	10,60	100	50	4,5	6,64	4,5	171,0	34,2	4,01	12,2	4,88	1,07	
120	11,20	14,20	120	58	5,1	7,52	5,1	328,0	54,7	4,81	21,5	7,41	1,23	
140	14,40	18,30	140	66	5,7	8,40	5,7	573,0	81,9	5,61	35,2	10,70	1,40	
160	17,90	22,80	160	74	6,3	9,28	6,3	935,0	117,0	6,40	54,7	14,80	1,55	
180	21,90	27,90	180	82	6,9	10,16	6,9	1446,0	161,0	7,20	81,3	19,80	1,71	
200	26,30	33,50	200	90	7,5	11,04	7,5	2142,0	214,0	8,00	117,0	26,00	1,87	
220	31,10	39,60	220	98	8,1	11,92	8,1	3060,0	278,0	8,80	162,0	33,10	2,02	
240	36,20	46,10	240	106	8,7	12,80	8,7	4246,0	354,0	9,59	221,0	41,70	2,30	
260	41,90	53,40	260	113	9,4	13,77	9,4	5744,0	442,0	10,40	288,0	51,00	2,33	
280	48,00	61,10	280	119	10,1	14,85	10,1	7587,0	542,0	11,10	364,0	61,20	2,45	
300	54,20	69,10	300	125	10,8	15,82	10,8	9800,0	653,0	11,90	451,0	72,20	2,56	
320	61,10	77,80	320	131	11,5	16,90	11,5	12510,0	782,0	12,70	555,0	84,70	2,67	
340	68,10	86,80	340	137	12,2	17,87	12,2	15700,0	923,0	13,50	674,0	98,40	2,80	
360	76,20	97,10	360	143	13,0	19,05	13,0	19610,0	1089,0	14,20	818,0	114,00	2,90	
380	84,00	107,00	380	149	13,7	20,02	13,7	24010,0	1264,0	15,00	975,0	131,00	3,02	
400	92,60	118,00	400	155	14,4	21,10	14,4	29210,0	1461,0	15,70	158,0	149,00	3,13	

tabella dei carichi netti uniformemente ripartiti per  
Tabelle der Netto-Lastengleichmäßig verteilt laut  
 $\sigma = 1600 \text{ Kg/cm}^2$

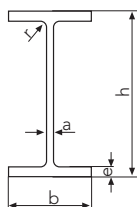
Die Kalkulation ist laut Formel  $\frac{8 \times W_x \times 1600}{L \text{ (cm)}}$  - erstellt  
Il calcolo è fatto con la formula:

## DISTANZA TRA GLI APPOGGI IN METRI - ABSTAND ZWISCHEN ZWEI STÜTZEN (Portata in Kg - Tragbarkeit in Kg)

	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

Volendo realizzare una sollecitazione diversa da 1600 Kg/cm<sup>2</sup> i carichi vanno variati in proporzione, Per carichi concentrati in mezz'era della trave i valori della tabella risultano dimezzati.

Für Lasten, die in der Mitte der Träger konzentriert sind, werden die Werte der Tabelle halbiert.



# IPE-TRAVI AD ALI PARALLELE - MITTELBREITE I-TRÄGER

EU 19-57/44-63 UNI 5398 DIN 1025

designazione	peso Gewicht	sezione Sektion	Dimensioni Abmessungen					Caratteristiche riferite all'asse neutro-Für die Biegeachse						
			h	b	a	e	r	x - x			y - y			
Bezeichnung	Kg/m	cm <sup>2</sup>	mm	mm	mm	mm	mm	J <sub>x</sub>	$\frac{J_x}{v_x}$	i <sub>x</sub>	J <sub>y</sub>	$\frac{J_y}{v_y}$	i <sub>y</sub>	
								cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	
80	6,00	7,64	80	46	3,8	5,2	5	80	20,0	3,24	8,5	3,69	1,05	
100	8,10	10,20	100	55	4,1	5,7	7	171	34,2	4,07	15,9	5,79	1,24	
120	10,40	13,20	120	64	4,4	6,3	7	318	53,0	4,90	27,7	8,65	1,45	
140	12,90	16,40	140	73	4,7	6,9	7	541	77,3	5,74	44,9	12,3	1,65	
160	15,80	20,10	160	82	5,0	7,4	9	869	109,0	6,58	68,3	16,7	1,84	
180	18,80	23,90	180	91	5,3	8,0	9	1320	146,0	7,42	101,0	22,2	2,05	
200	22,40	28,50	200	100	5,6	8,5	12	1940	194,0	8,26	142,0	28,5	2,24	
220	26,20	33,40	220	110	5,9	9,2	12	2770	252,0	9,11	205,0	37,3	2,48	
240	30,70	39,10	240	120	6,2	9,8	15	3890	324,0	9,97	284,0	47,3	2,69	
270	36,10	45,90	270	135	6,6	10,2	15	5790	429,0	11,20	420,0	62,2	3,02	
300	42,20	53,80	300	150	7,1	10,7	15	8360	557,0	12,50	604,0	80,5	3,35	
330	49,10	62,60	330	160	7,5	11,5	18	11770	713,0	13,70	788,0	98,5	3,55	
360	57,10	72,70	360	170	8,0	12,7	18	16270	904,0	15,00	1040,0	123,0	3,79	
400	66,30	84,50	400	180	8,6	13,5	21	23130	1160,0	16,50	1320,0	146,0	3,95	
450	77,60	98,80	450	190	9,4	14,6	21	33740	1500,0	18,50	1680,0	176,0	4,12	
500	90,70	116,00	500	200	10,2	16,0	21	48200	1930,0	20,40	2140,0	214,0	4,31	
550	106,00	134,00	550	210	11,1	17,2	24	67120	2440,0	22,30	2670,0	254,0	4,45	
600	122,00	156,00	600	220	12,0	19,0	24	92080	3070,0	24,30	3390,0	308,0	4,66	

tabella dei carichi netti uniformemente ripartiti per  
Tabelle der Netto-Lastengleichmäßig verteilt laut  
 $\sigma = 1600 \text{ Kg/cm}^2$

Die Kalkulation ist laut Formel  $\frac{8 \times W_x \times 1600}{L \text{ (cm)}}$  - erstellt  
Il calcolo è fatto con la formula:

## DISTANZA TRA GLI APOGGI IN METRI - ABSTAND ZWISCHEN ZWEI STÜTZEN

(Portata in Kg - Tragbarkeit in Kg)

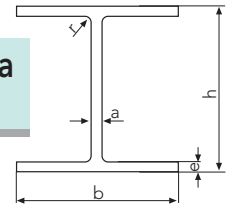
	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00
80	1009	835	710	616	542	482	—	—	—	—	—	—	—	—	—	—
100	1731	1435	1222	1062	936	835	751	681	—	—	—	—	—	—	—	—
120	2687	2230	1902	1654	1460	1305	1176	1068	896	—	—	—	—	—	—	—
140	3925	3259	2782	2422	2140	1914	1728	1571	1323	1133	—	—	—	—	—	—
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	14048	14948	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

Volendo realizzare una sollecitazione diversa da  $1600 \text{ Kg/cm}^2$  i carichi vanno variati in proporzione, Per carichi concentrati in mezz'era della trave i valori della tabella risultano dimezzati.

Für Lasten, die in der Mitte der Träger konzentriert sind, werden die Werte der Tabelle halbiert.

# HEA TRAVI AD ALI LARGHE PARALLELE - Serie alleggerita

## BREITFLANSCHTRÄGER - Leichte Ausführung



EU 53-62/34-62 UNI 5397 DIN 1025

designazione	peso Gewicht	sezione Sektion	Dimensioni Abmessungen					Caratteristiche riferite all'asse neutro-Für die Biegeachse						
			h	b	a	e	r	x - x			y - y			
								$J_x$	$\frac{J_x}{v_x}$	$i_x$	$J_y$	$\frac{J_y}{v_y}$	$i_y$	
Bezeichnung	Kg/m	cm <sup>2</sup>	mm	mm	mm	mm	mm	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	
100	16,7	21,2	96	100	5,0	8,0	12	349	72,8	4,06	134	26,8	2,51	
120	19,9	25,3	114	120	5,0	8,0	12	606	106,0	4,89	231	38,5	3,02	
140	24,7	31,4	133	140	5,5	8,5	12	1030	155,0	5,73	389	55,6	3,52	
160	30,4	38,8	152	160	6,0	9,0	15	1670	220,0	6,57	616	76,9	3,98	
180	35,5	45,3	171	180	6,0	9,5	15	2510	294,0	7,45	925	103,0	4,52	
200	42,3	53,8	190	200	6,5	10,0	18	3690	389,0	8,28	1340	134,0	4,98	
220	50,5	64,3	210	220	7,0	11,0	18	5410	515,0	9,17	1950	178,0	5,51	
240	60,3	76,8	230	240	7,5	12,0	21	7760	675,0	10,10	2770	231,0	6,00	
260	68,2	86,8	250	260	7,5	12,5	24	10450	836,0	11,00	3670	282,0	6,50	
280	76,4	97,3	270	280	8,0	13,0	24	13670	1010,0	11,90	4760	340,0	7,00	
300	88,3	113,0	290	300	8,5	14,0	27	18260	1260,0	12,70	6310	421,0	7,49	
320	97,6	124,0	310	300	9,0	15,5	27	22930	1480,0	13,60	6990	466,0	7,49	
340	105,0	133,0	330	300	9,5	16,5	27	27690	1680,0	14,40	7440	496,0	7,46	
360	112,0	143,0	350	300	10,0	17,5	27	33090	1890,0	15,20	7890	526,0	7,43	
400	125,0	159,0	390	300	11,0	19,0	27	45070	2310,0	16,80	8560	571,0	7,34	
450	140,0	178,0	440	300	11,5	21,0	27	63720	2900,0	18,90	9470	631,0	7,29	
500	155,0	198,0	490	300	12,0	23,0	27	86970	3550,0	21,00	10370	691,0	7,24	
550	166,0	212,0	540	300	12,5	24,0	27	111900	4150,0	23,00	10820	721,0	7,15	
600	178,0	226,0	590	300	13,0	25,0	27	141200	4790,0	25,00	11270	751,0	7,05	
650	190,0	242,0	640	300	13,5	26,0	27	175200	5470,0	26,90	11720	782,0	6,97	
700	204,0	260,0	690	300	14,5	27,0	27	215300	6240,0	28,80	12180	812,0	6,84	
800	224,0	286,0	790	300	15,0	28,0	30	303400	7680,0	32,60	12640	843,0	6,65	
900	252,0	321,0	890	300	16,0	30,0	30	422100	9480,0	36,30	13550	903,0	6,50	
1000	272,0	347,0	990	300	16,5	31,0	30	553800	11190,0	40,00	14000	934,0	6,35	

tabella dei carichi netti uniformemente ripartiti per  
Tabelle der Netto-Lastgleichmäßig verteilt laut  
 $\sigma = 1600 \text{ Kg/cm}^2$

Die Kalkulation ist laut Formel  $\frac{8 \times W_x \times 1600}{L \text{ (cm)}}$  - erstellt  
Il calcolo è fatto con la formula:

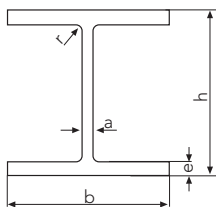
### DISTANZA TRA GLI APPOGGI IN METRI - ABSTAND ZWISCHEN ZWEI STÜTZEN

(Portata in Kg - Tragbarkeit in Kg)

	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00
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

Volendo realizzare una sollecitazione diversa da  $1600 \text{ Kg/cm}^2$  i carichi vanno variati in proporzione, Per carichi concentrati in mezzzeria della trave i valori della tabella risultano dimezzati.

Für Lasten, die in der Mitte der Träger konzentriert sind, werden die Werte der Tabelle halbiert.



# HEB TRAVI AD ALI LARGHE PARALLELE BREITFLANSCHTRÄGER

## Serie normale - Normalausführung

EU 53-62/34-62 UNI 5397 DIN 1025

designazione	peso Gewicht	sezione Sektion	Dimensioni Abmessungen					Caratteristiche riferite all'asse neutro-Für die Biegeachse						
			h	b	a	e	r	x - x			y - y			
Bezeichnung	Kg/m	cm <sup>2</sup>	mm	mm	mm	mm	mm	J <sub>x</sub>	J <sub>x</sub> v <sub>x</sub>	i <sub>x</sub>	J <sub>y</sub>	J <sub>y</sub> v <sub>y</sub>	i <sub>y</sub>	
								cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	
100	20,4	26,0	100	100	6,0	10,0	12	450	89,9	4,16	167	33,5	2,53	
120	26,7	34,0	120	120	6,5	11,0	12	864	144,0	5,04	318	52,9	3,06	
140	33,7	43,0	140	140	7,0	12,0	12	1510	216,0	5,93	550	78,5	3,58	
160	42,6	54,3	160	160	8,0	13,0	15	2490	311,0	6,78	889	111,0	4,05	
180	51,2	65,3	180	180	8,5	14,0	15	3830	426,0	7,66	1360	151,0	4,57	
200	61,3	78,1	200	200	9,0	15,0	18	5700	570,0	8,54	2000	200,0	5,07	
220	71,5	91,0	220	220	9,5	16,0	18	8090	736,0	9,43	2840	258,0	5,59	
240	83,2	106,0	240	240	10,0	17,0	21	11260	938,0	10,30	3920	327,0	6,08	
260	93,0	118,0	260	260	10,0	17,5	24	14920	1150,0	11,20	5130	395,0	6,58	
280	103,0	131,0	280	280	10,5	18,0	24	19270	1380,0	12,10	6590	471,0	7,09	
300	117,0	149,0	300	300	11,0	19,0	27	25170	1680,0	13,00	8560	571,0	7,58	
320	127,0	161,0	320	300	11,5	20,5	27	30800	1930,0	13,80	9240	616,0	7,57	
340	134,0	171,0	340	300	12,0	21,5	27	36660	2160,0	14,60	9690	646,0	7,53	
360	142,0	181,0	360	300	12,5	22,5	27	43190	2400,0	15,50	10140	676,0	7,49	
400	155,0	198,0	400	300	13,5	24,0	27	57680	2880,0	17,10	10820	721,0	7,40	
450	171,0	218,0	450	300	14,0	26,0	27	79890	3550,0	19,10	11720	781,0	7,33	
500	187,0	239,0	500	300	14,5	28,0	27	107200	4290,0	21,20	12620	842,0	7,27	
550	199,0	254,0	550	300	15,0	29,0	27	136700	4970,0	23,20	13080	872,0	7,17	
600	212,0	270,0	600	300	15,5	30,0	27	171000	5700,0	25,20	13500	902,0	7,08	
650	225,0	286,0	650	300	16,0	31,0	27	210600	6480,0	27,10	13980	932,0	6,99	
700	241,0	306,0	700	300	17,0	32,0	27	256900	7340,0	29,00	14440	963,0	6,87	
800	262,0	334,0	800	300	17,5	33,0	30	359100	8980,0	32,80	14900	994,0	6,68	
900	291,0	371,0	900	300	18,5	35,0	30	494100	10980,0	36,50	15820	1050,0	6,53	
1000	314,0	400,0	1000	300	19,0	36,0	30	644700	12890,0	40,10	16280	1090,0	6,38	

tabella dei carichi netti uniformemente ripartiti per  
Tabelle der Netto-Lasten gleichmäßig verteilt laut  
 $\sigma = 1600 \text{ Kg/cm}^2$

Die Kalkulation ist laut Formel  $\frac{8 \times W_x \times 1600}{L \text{ (cm)}}$  - erstellt  
Il calcolo è fatto con la formula:

DISTANZA TRA GLI APPOGGI IN METRI - ABSTAND ZWISCHEN ZWEI STÜTZEN (Portata in Kg - Tragbarkeit in Kg)												
	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00
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	3554	—	—	—	—
180	18022	13427	10649	8780	7431	6406	5597	4940	4393	—	—	—
200	24135	17994	14285	11792	9993	8629	7554	6683	5958	5344	—	—
220	31187	23265	18483	15272	12957	11203	9823	8705	7777	6992	6317	—
240	39770	29682	23596	19511	16569	14342	12591	11174	10000	9006	8153	7411
260	48786	36427	28974	23974	20377	17655	15518	13789	12358	11150	10113	9212
280	58569	43747	34812	28821	24512	21255	18700	16633	14924	13483	12248	11174
300	71327	53290	42422	35137	29900	25943	22839	20333	18261	16515	15020	13721
320	81963	61250	48771	40410	34401	29863	26305	23433	21060	19062	17351	15867
340	91755	68582	54624	45274	38558	33487	29513	26307	23659	21431	19525	17872
360	101971	76130	60728	50346	42890	37263	32854	29300	26364	23895	21784	19954
400	122412	91568	72951	60508	51576	44838	39641	35313	31962	28859	26341	24160
450	150949	112913	90022	74705	63715	55430	49948	43728	39427	35813	32729	30062
500	182474	136528	108886	90395	77134	67142	59328	53040	47861	43514	42238	38149
550	211451	158240	126234	104830	89484	77926	68891	61624	55642	50624	46347	42653
600	242558	181547	144856	120325	102742	89501	79262	70838	63993	58254	53365	49145
650	275805	206460	164763	136890	116916	101880	90135	80694	72928	66420	60878	56095
700	312450	233916	186700	155140	132530	115512	102222	91542	82760	75401	69137	63734
800	382360	286312	228578	190000	162371	141584	125357	112324	101612	92642	85012	78434
900	467607	350196	279633	232494	198740	173352	153541	137634	124566	113628	104327	96314
1000	549031	411224	328414	273102	233504	203728	180498	161852	146538	133725	122834	113077

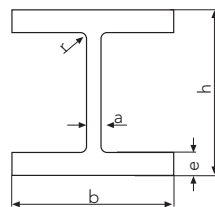
Volendo realizzare una sollecitazione diversa da  $1600 \text{ Kg/cm}^2$  i carichi vanno variati in proporzione, Per carichi concentrati in mezz'era della trave i valori della tabella risultano dimezzati.

Für Lasten, die in der Mitte der Träger konzentriert sind, werden die Werte der Tabelle halbiert.

# HEM TRAVI AD ALI LARGHE PARALLELE BREITFLANSCHTRÄGER

## Serie rinforzata - Verstärkte Ausführung

EU 53-62/34-62 UNI 5397 DIN 1025



designa- zione	peso Gewicht	sezione Sektion	Dimensioni Abmessungen					Caratteristiche riferite all'asse neutro-Für die Biegeachse						
			h	b	a	e	r	x - x			y - y			
								J <sub>x</sub>	J <sub>x</sub> v <sub>x</sub>	i <sub>x</sub>	J <sub>y</sub>	J <sub>y</sub> v <sub>y</sub>	i <sub>y</sub>	
Bezeich- nung	Kg/m	cm <sup>2</sup>	mm	mm	mm	mm	mm	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	
100	41,8	53,2	120	106	12,0	20,0	12	1140	190	4,63	399	75,3	2,74	
120	52,1	66,4	140	126	12,5	21,0	12	2020	288	5,51	703	112,0	3,25	
140	63,2	80,6	160	146	13,0	22,0	12	3290	411	6,39	1140	157,0	3,77	
160	76,2	97,1	180	166	14,0	23,0	15	5100	566	7,25	1760	212,0	4,26	
180	88,9	113,0	200	186	14,5	24,0	15	7480	748	8,13	2580	277,0	4,77	
200	103,0	131,0	220	206	15,0	25,0	18	10640	967	9,00	3650	354,0	5,27	
220	117,0	149,0	240	226	15,5	26,0	18	14600	1220	9,89	5010	444,0	5,79	
240	157,0	200,0	270	248	18,0	32,0	21	24290	1800	11,00	8150	657,0	6,39	
260	172,0	220,0	290	268	18,0	32,5	24	31310	2160	11,90	10450	780,0	6,90	
280	189,0	240,0	310	288	18,5	33,0	24	39550	2550	12,80	13160	914,0	7,40	
300	238,0	303,0	340	310	21,0	39,0	27	59200	3480	14,00	19400	1250,0	8,00	
320	245,0	312,0	359	309	21,0	40,0	27	68130	3800	14,80	19710	1280,0	7,95	
340	248,0	316,0	377	309	21,0	40,0	27	76370	4050	15,60	19710	1280,0	7,90	
360	250,0	319,0	395	308	21,0	40,0	27	84870	4300	16,30	19520	1270,0	7,83	
400	256,0	326,0	432	307	21,0	40,0	27	104100	4820	17,90	19340	1260,0	7,70	
450	263,0	335,0	478	307	21,0	40,0	27	131500	5509	19,80	19340	1260,0	7,59	
500	270,0	344,0	524	306	21,0	40,0	27	161900	6180	21,70	19150	1250,0	7,46	
550	278,0	354,0	572	306	21,0	40,0	27	198000	6920	23,60	19160	1250,0	7,35	
600	285,0	364,0	620	305	21,0	40,0	27	237400	7660	25,60	18980	1240,0	7,22	
650	293,0	374,0	668	305	21,0	40,0	27	281700	8430	27,50	18980	1240,0	7,13	
700	301,0	383,0	716	304	21,0	40,0	27	329300	9200	29,30	18860	1240,0	7,01	
800	317,0	404,0	814	303	21,0	40,0	30	442600	10870	33,10	18630	1230,0	6,79	
900	333,0	424,0	910	302	21,0	40,0	30	570400	12540	36,70	18450	1220,0	6,60	
1000	349,0	444,0	1008	302	21,0	40,0	30	722300	14330	40,30	18460	1220,0	6,45	

tabella dei carichi netti uniformemente ripartiti per  
Tabelle der Netto-Lastengleichmäßig verteilt laut  
 $\sigma = 1600 \text{ Kg/cm}^2$

Die Kalkulation ist laut Formel  $\frac{8 \times W_x \times 1600}{L \text{ (cm)}}$  - erstellt  
Il calcolo è fatto con la formula:

	DISTANZA TRA GLI APPOGGI IN METRI - ABSTAND ZWISCHEN ZWEI STÜTZEN (Portata in Kg - Tragbarkeit in Kg)											
	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00
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	79900
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