

The assortment of steel welded H-beams OOO «OZMK»

Welded I sections, substituting I-beams rolling hot-rolled GOST 26020

Designation section	The dimensions of the profile, mm					Area cm ²	Weight 1m, kg	Reference values						The Catete belt joint,mm	No replacement the accused profile	
	h	b	s	t	hw			I _x , cm ⁴	W _x , cm ³	S _x , cm ³	i _x , cm	I _y , cm ⁴	W _y , cm ³			i _y ,cm
BS-6x276-10x140	296	140	6	10	276	44.56	34.98	6779.28	458.06	257.33	12.33	457.87	65.41	3.21	4/4	30B1
BS -6x275-12x140	299	120	6	12	275	45.30	35.56	6973.87	466.48	264.08	12.41	346.14	57.69	2.76	4/4	30B2
BS -6x326-10x155	346	155	6	10	326	50.56	39.69	10484.32	606.03	301.36	14.40	621.27	80.16	3.51	4/4	35B1
BS -6x325-10x155	349	155	6	12	325	56.70	44.51	12282.79	703.88	347.06	14.72	745.40	96.18	3.63	4/4	35B2
BS -8x368-8x165	392	165	8	12	368	69.04	54.20	17622.75	899.12	420.54	15.98	900.10	109.10	3.61	5/6	40B1
BS -8x368-14x165	396	165	8	14	368	75.64	59.38	20184.17	1019.40	470.37	16.34	1049.85	127.25	3.73	5/6	40B2
BS -8x419-12x180	443	180	8	12	419	76.72	60.23	24971.38	1127.38	486.60	18.04	1168.29	129.81	3.90	5/6	45B1
BS -10x419-14x180	447	180	10	14	419	92.30	72.46	29761.85	1331.63	584.85	17.96	1364.53	151.61	3.84	6/7	45B2
BS -8x464-14x200	492	200	8	14	464	93.12	73.10	38656.73	1571.41	621.30	20.37	1868.77	186.88	4.48	5/6	50B1
BS -10x464-16x200	496	200	10	16	464	110.40	86.66	45202.43	1822.68	736.32	20.23	2137.47	213.75	4.40	6/7	50B2
BS -10x511-16x220	543	220	10	16	511	121.50	95.38	60014.73	2210.49	840.32	22.22	2843.99	258.54	4.84	6/7	55B1
BS -10x511-18x220	547	220	10	18	511	130.30	102.29	66549.30	2433.25	908.52	22.60	3198.96	290.81	4.95	6/7	55B2
BS -10x557-18x230	593	230	10	18	557	138.50	108.72	82862.46	2794.69	996.39	24.46	3655.04	317.83	5.14	6/7	60B1
BS -12x557-20x230	597	230	12	20	557	158.84	124.69	93885.21	3145.23	1146.17	24.31	4064.26	353.41	5.06	7/8	60B2
BS -12x655-18x260	691	260	12	18	655	172.20	135.18	134111.80	3881.67	1331.50	27.91	5282.75	406.37	5.54	7/8	70B1
BS -14x657-20x260	697	260	14	20	657	195.98	153.84	152286.10	4369.76	1524.99	27.88	5874.60	451.89	5.47	8/10	70B2
BS -14x755-18x280	791	280	14	18	755	206.50	162.10	200814.23	5077.48	1738.42	31.18	6603.69	471.69	5.66	8/10	80B1
BS -14x754-22x280	798	280	14	22	754	228.76	179.58	235530.36	5903.02	1912.74	32.09	8067.31	576.24	5.94	8/10	80B2
BS -16x858-20x300	898	300	16	20	858	257.28	201.96	315522.36	7027.22	2360.33	35.02	9030.65	602.04	5.92	8/10	90B1
BS -16x850-25x300	900	300	16	25	850	286.00	224.51	369070.83	8201.57	2573.75	35.92	11280.72	752.05	6.28	8/10	90B2
BS -16x940-25x320	990	320	16	25	940	310.40	243.66	483317.87	9764.00	2971.20	39.46	13687.13	855.45	6.64	8/10	100B1
BS -18x938-30x320	998	320	18	30	938	360.84	283.26	573709.57	11497.19	3448.45	39.87	16432.50	1027.03	6.75	10/12	100B2
BS -18x942-32x320	1006	320	18	32	942	374.36	293.87	611281.41	12152.71	3573.53	40.41	17525.16	1095.32	6.84	10/12	100B3
BS -20x945-34x320	1013	320	20	34	945	406.60	319.18	662252.96	13075.08	3918.96	40.36	18636.07	1164.75	6.77	12/14	100B4
BS -6x173-10x150	193	150	6	10	173	40.38	31.70	2773.06	287.36	236.95	8.29	562.85	75.05	3.73	4/4	20W1
BS -6x202-12x155	226	155	6	12	202	49.32	38.72	4675.61	413.77	298.44	9.74	745.18	96.15	3.89	4/4	23W1
BS -8x227-12x180	251	180	8	12	227	61.36	48.17	6954.06	554.11	362.57	10.65	1167.47	129.72	4.36	5/6	26W1
BS -8x227-14x180	255	180	8	14	227	68.56	53.82	8106.24	635.78	416.93	10.87	1361.89	151.32	4.46	5/6	26W2
BS -10x267-16x200	299	200	10	16	267	90,70	71,20	14414,07	964,15	556,31	12,61	2135,83	213,58	4,85	6/7	30W3
BS -10x310-14x250	338	250	10	14	310	101,00	79,29	20864,82	1234,60	627,63	14,37	3648,65	291,89	6,01	6/7	35W1
BS -10x308-16x250	340	250	10	16	308	110,80	86,98	23447,11	1379,24	702,58	14,55	4169,50	333,56	6,13	6/7	35W2
BS -10x309-18x250	345	250	10	18	309	120,90	94,91	26541,96	1538,66	780,85	14,82	4690,38	375,23	6,23	6/7	35W3
BS -10x356-16x300	388	300	10	16	356	131,60	103,31	36992,47	1906,83	859,22	16,77	7203,23	480,22	7,40	6/7	40W1

Designation section	The dimensions of the profile, mm					Area cm ²	Weight 1m, kg	Reference values							The Catete belt joint,mm	No replacement the accused profile
	h	b	s	t	hw			Ix, cm ⁴	Wx, cm ³	Sx, cm ³	ix, cm	Iy, cm ⁴	Wy, cm ³	iy,cm		
BS -12x356-18x300	392	300	12	18	356	150,72	118,32	42307,48	2158,54	983,90	16,75	8105,64	540,38	7,33	7/8	40W2
BS -12x356-20x300	396	300	12	20	356	162,72	127,74	46964,60	2371,95	1078,10	16,99	9005,70	600,38	7,44	7/8	40W3
BS -12x452-16x300	484	300	12	16	452	150,24	117,94	61820,78	2554,58	1007,26	20,28	7206,97	480,46	6,93	7/8	50W1
BS -14x449-20x300	489	300	14	20	449	182,86	143,55	76588,83	3132,47	1240,80	20,47	9011,18	600,75	7,02	8/10	50W2
BS -16x451-22x300	495	300	16	22	451	204,16	160,27	86114,99	3479,39	1390,20	20,54	9916,90	661,13	6,97	8/10	50W3
BS -16x451-25x300	501	300	16	25	451	222,16	174,40	97275,31	3883,25	1535,55	20,93	11267,1	751,14	7,12	8/10	50W4
BS -12x540-20x320	580	320	12	20	540	192,80	151,35	116141,07	4004,86	1384,60	24,54	10931,02	683,19	7,53	7/8	60W1
BS -16x543-22x320	587	320	16	22	543	227,68	178,73	133771,06	4557,79	1638,66	24,24	12034,97	752,19	7,27	8/10	60W2
BS -20x545-25x320	595	320	20	25	545	269,00	211,17	157023,10	5278,09	1946,56	24,16	13693,00	855,81	7,13	12/14	60W3
BS -20x543-30x320	603	320	20	30	543	300,60	235,97	184425,75	6116,94	2205,92	24,77	16424,20	1026,51	7,39	12/14	60W4
BS -16x643-20x320	683	320	16	20	643	230,88	181,24	176151,11	5158,16	1774,10	27,62	10945,98	684,12	6,89	8/10	70W1
BS -16x641-25x320	691	320	16	25	641	262,56	206,11	212622,36	6154,05	2025,76	28,46	13676,92	854,81	7,22	8/10	70W2
BS -18x640-30x320	700	320	18	30	640	307,20	241,15	254937,60	7283,93	2390,40	28,81	16418,02	1026,13	7,31	10/12	70W3
BS -20x640-34x320	708	320	20	34	640	345,60	271,30	291026,43	8221,09	2710,40	29,02	18615,73	1163,48	7,34	12/14	70W4
BS -22x638-40x320	718	320	22	40	638	396,36	311,14	342149,67	9530,63	3141,77	29,38	21909,04	1369,32	7,43	14/16	70W5
BS -6x171-12x200	195	200	6	12	171	58,26	45,73	4274,45	438,41	367,53	8,57	1600,35	160,04	5,24	4/4	20K1
BS -8x174-12x200	198	200	8	12	174	61,92	48,61	4508,48	455,40	375,88	8,53	1600,84	160,08	5,08	5/6	20K2
BS -6x203-12x240	227	240	6	12	203	69,78	54,78	7081,58	623,93	445,63	10,07	2765,21	230,43	6,30	4/4	23K1
BS -8x202-14x240	230	240	8	14	202	83,36	65,44	8398,68	730,32	528,00	10,04	3226,58	268,88	6,22	5/6	23K2
BS -8x227-14x260	255	260	8	14	227	90,96	71,40	11362,44	891,17	579,33	11,18	4102,15	315,55	6,72	5/6	26K1
BS -10x230-14x260	258	260	10	14	230	95,80	75,20	11861,36	919,49	593,93	11,13	4103,22	315,63	6,54	6/7	26K2
BS -10x230-16x260	262	260	10	16	230	106,20	83,37	13618,99	1039,62	673,49	11,32	4689,12	360,70	6,64	6/7	26K3
BS -10x268-14x300	296	300	10	14	268	110,80	86,98	18317,83	1237,69	698,78	12,86	6302,47	420,16	7,54	6/7	30K1
BS -10x268-16x300	300	300	10	16	268	122,80	96,40	20981,99	1398,80	790,58	13,07	7202,50	480,17	7,66	6/7	30K2
BS -12x268-18x300	304	300	12	18	268	140,16	110,03	24038,96	1581,51	901,54	13,10	8104,38	540,29	7,60	7/8	30K3
BS -16x314-20x350	354	350	16	20	314	190,24	149,34	43219,15	2441,76	1233,19	15,07	14303,75	817,36	8,67	8/10	35K3
BS -10x357-18x400	393	400	10	18	357	179,70	141,06	54455,49	2771,27	1217,71	17,41	19203,28	960,16	10,34	6/7	40K1
BS -14x356-22x400	400	400	14	22	356	225,84	177,28	68203,72	3410,19	1532,99	17,38	23475,81	1173,79	10,20	8/10	40K2
BS -16x360-25x400	410	400	16	25	360	257,60	202,22	80437,47	3923,78	1764,20	17,67	26680,66	1334,03	10,18	8/10	40K3
BS -20x359-30x400	419	400	20	30	359	311,80	244,76	98683,98	4710,45	2158,20	17,79	32027,93	1601,40	10,14	12/14	40K4
BS -25x359-36x400	431	400	25	36	359	377,75	296,53	122288,26	5674,63	2649,15	17,99	38456,12	1922,81	10,09	14/18	40K5

Welded Beams Beams replacing hot- rolled steel SRT AISU 20

Designation section	The dimensions of the profile, mm					Area cm ²	Weight 1m, kg	Reference values						The Catete belt joint,mm	No replacement the accused profile	
	h	b	s	t	hw			I _x , cm ⁴	W _x , cm ³	S _x , cm ³	i _x , cm	I _y ⁴ , cm	W _y , cm ³			i _y ,cm
BS -5x278-10x149	298	149	5	10	278	43,7	34,30	7077,02	474,97	261,37	12,73	551,64	74,05	3,55	4/4	30B1
BS -6x280-10x150	300	150	6	10	280	46,80	36,74	7407,60	493,84	273,30	12,58	563,04	75,07	3,47	4/4	30B2
BS -6x326-10x174	346	174	6	10	326	54,36	42,67	11557,15	668,04	328,53	14,58	878,63	100,99	4,02	4/4	35B1
BS -8x326-12x175	350	175	8	12	326	68,08	53,44	14310,39	817,74	408,68	14,50	1073,37	122,67	3,97	5/6	35B2
BS -8x372-12x199	396	199	8	12	372	77,52	60,85	21043,90	1062,82	482,26	16,48	1577,81	158,57	4,51	5/6	40B1
BS -8x372-14x200	400	200	8	14	372	85,76	67,32	24300,51	1215,03	544,38	16,83	1868,37	186,84	4,67	5/6	40B2
BS -8x418-14x199	446	199	8	14	418	89,16	69,99	30874,80	1384,52	578,69	18,61	1840,71	185,00	4,54	5/6	45B1
BS -10x418-16x200	450	200	10	16	418	105,80	83,05	36236,83	1610,53	685,61	18,51	2137,08	213,71	4,49	6/7	45B2
BS -8x464-14x200	492	200	8	14	464	93,12	73,10	38656,73	1571,41	621,30	20,37	1868,77	186,88	4,48	5/6	50B1
BS -10x464-16x200	496	200	10	16	464	110,40	86,66	45202,43	1822,68	736,32	20,23	2137,47	213,75	4,40	6/7	50B2
BS -10x464-18x200	500	200	10	18	464	118,40	92,94	50162,54	2006,50	798,32	20,58	2404,17	240,42	4,51	6/7	50B3
BS -10x511-16x220	543	220	10	16	511	121,50	95,38	60014,73	2210,49	840,32	22,22	2843,99	258,54	4,84	6/7	55B1
BS -10x511-18x220	547	220	10	18	511	130,30	102,29	66549,30	2433,25	908,52	22,60	3198,96	290,81	4,95	6/7	55B2
BS -10x564-16x199	596	199	10	16	564	120,08	94,26	68518,98	2299,29	862,48	23,89	2106,46	211,70	4,19	6/7	60B1
BS -12x564-18x200	600	230	12	18	564	150,48	118,13	88078,84	2935,96	1085,72	24,19	3658,74	318,15	4,93	7/8	60B2
BS -12x657-18x230	693	230	12	18	657	161,64	126,89	122696,07	3541,01	1256,05	27,55	3660,08	318,27	4,76	7/8	70B0
BS -12x655-18x260	691	260	12	18	655	172,20	135,18	134111,80	3881,67	1331,50	27,91	5282,75	406,37	5,54	7/8	70B1
BS -14x657-20x260	697	260	14	20	657	195,98	153,84	152286,10	4369,76	1524,99	27,88	5874,60	451,89	5,47	8/10	70B2
BS -6x174-10x150	194	150	6	10	174	40,44	31,75	2805,10	289,19	237,21	8,33	562,85	75,05	3,73	4/4	20W1
BS -8x220-12x175	244	175	8	12	220	59,60	46,79	6366,43	521,84	350,80	10,34	1072,92	122,62	4,24	5/6	25W1
BS -8x266-14x200	294	200	8	14	266	77,28	60,66	12239,89	832,65	476,76	12,59	1867,92	186,79	4,92	5/6	30W1
BS -10x268-16x201	300	201	10	16	268	91,12	71,53	14587,28	972,49	559,32	12,65	2167,99	215,72	4,88	6/7	30W2
BS -8x310-12x249	334	249	8	12	310	84,56	66,38	17483,63	1046,92	526,37	14,38	3089,07	248,12	6,04	5/6	35W1
BS -10x308-16x250	340	250	10	16	308	110,80	86,98	23447,11	1379,24	702,58	14,55	4169,50	333,56	6,13	6/7	35W2
BS -10x355-14x299	383	299	10	14	355	119,22	93,59	32240,41	1683,57	764,50	16,44	6240,40	417,42	7,23	6/7	40W1
BS -10x354-18x300	390	300	10	18	354	143,40	112,57	41089,66	2107,16	950,45	16,93	8103,25	540,22	7,52	6/7	40W2
BS -12x400-20x300	440	300	12	20	400	168,00	131,88	59360,00	2698,18	1128,00	18,80	9006,34	600,42	7,32	7/8	45W1
BS -12x450-16x300	482	300	12	16	450	150,00	117,75	61250,42	2541,51	1004,55	20,21	7206,94	480,46	6,93	7/8	50W1
BS -14x447-20x300	487	300	14	20	447	182,58	143,33	75886,74	3116,50	1237,67	20,39	9011,14	600,74	7,03	8/10	50W2
BS -16x449-22x300	493	300	16	22	449	203,84	160,01	85329,95	3461,66	1386,60	20,46	9916,83	661,12	6,97	8/10	50W3
BS -16x449-25x300	499	300	16	25	449	221,84	174,14	96400,80	3863,76	1531,95	20,85	11267,03	751,14	7,13	8/10	50W4
BS -12x542-20x300	582	300	12	20	542	185,04	145,26	110715,21	3804,65	1328,65	24,46	9008,38	600,56	6,98	7/8	60W1
BS -16x545-22x300	589	300	16	22	545	219,20	172,07	127728,43	4337,13	1577,45	24,14	9920,10	661,34	6,73	8/10	60W2
BS -20x547-25x300	597	300	20	25	547	259,40	203,63	150050,01	5026,80	1876,77	24,05	11289,80	752,65	6,60	12/14	60W3

Designation section	The dimensions of the profile, mm					Area cm ²	Weight 1m, kg	Reference values						The Catete belt joint,mm	No replacement the accused profile	
	h	b	s	t	hw			I _x , cm ⁴	W _x , cm ³	S _x , cm ³	i _x , cm	I _y ⁴ , cm	W _y , cm ³			i _y ,cm
BS -20x545-30x300	605	300	20	30	545	289,00	226,87	175896,02	5814,74	2119,56	24,67	13540,33	902,69	6,84	12/14	60W4
BS -14x648-22x300	692	300	14	22	648	222,72	174,84	179934,98	5200,43	1718,23	28,42	9915,82	661,05	6,67	8/10	70W1
BS -16x650-24x300	698	300	16	24	650	248,00	194,68	200225,15	5737,11	1925,00	28,41	10823,83	721,59	6,61	8/10	70W2
BS -18x647-30x300	707	300	18	30	647	296,46	232,72	247009,05	6987,53	2318,87	28,87	13534,36	902,29	6,76	10/12	70W3
BS -20x647-34x300	715	300	20	34	647	333,40	261,72	281854,63	7884,05	2627,52	29,08	15347,67	1023,18	6,78	12/14	70W4
BS -22x645-40x300	725	300	22	40	645	381,90	299,79	331049,96	9132,41	3040,07	29,44	18064,33	1204,29	6,88	14/16	70W5
BS -14x746-18x300	782	300	14	18	746	212,44	166,77	206062,52	5270,14	1767,70	31,14	8117,88	541,19	6,18	8/10	80W1
BS -14x742-25x300	792	300	14	25	742	253,88	199,30	268346,99	6776,44	2092,24	32,51	11268,11	751,21	6,66	8/10	80W2
BS -16x841-20x299	881	299	16	20	841	254,16	199,52	301004,62	6833,25	2299,60	34,41	8940,37	598,02	5,93	8/10	90W1
BS -16x840-25x299	890	299	16	25	840	283,90	222,86	358754,16	8061,89	2536,19	35,55	11168,25	747,04	6,27	8/10	90W2
BS -18x946-22x320	990	320	18	22	946	311,08	244,20	456877,82	9229,85	3062,52	38,32	12063,05	753,94	6,23	10/12	100W1
BS -18x938-30x320	998	320	18	30	938	360,84	283,26	573709,57	11497,19	3448,45	39,87	16432,50	1027,03	6,75	10/12	100W2
BS -18x942-32x320	1006	320	18	32	942	374,36	293,87	611281,41	12152,71	3573,53	40,41	17525,16	1095,32	6,84	10/12	100W3
BS -20x945-34x320	1013	320	20	34	945	406,60	319,18	662252,96	13075,08	3918,96	40,36	18636,07	1164,75	6,77	12/14	100W4
BS -6x172-12x199	196	199	6	12	172	58,08	45,59	4302,56	439,04	366,06	8,61	1576,47	158,44	5,21	4/4	20K1
BS -8x172-14x200	200	200	8	14	172	69,76	54,76	5191,82	519,18	435,58	8,63	1867,52	186,75	5,17	5/6	20K2
BS -8x218-14x249	246	249	8	14	218	87,16	68,42	10083,59	819,80	552,99	10,76	3603,31	289,42	6,43	5/6	25K1
BS -8x218-16x250	250	250	8	16	218	97,44	76,49	11658,95	932,72	631,52	10,94	4167,73	333,42	6,54	5/6	25K2
BS -10x266-16x299	298	299	10	16	266	122,28	95,99	20610,98	1383,29	786,91	12,98	7130,72	476,97	7,64	6/7	30K1
BS -10x268-16x300	300	300	10	16	268	122,80	96,40	20981,99	1398,80	790,58	13,07	7202,50	480,17	7,66	6/7	30K2
BS -14x268-16x305	300	305	14	16	268	135,12	106,07	21946,58	1463,11	838,17	12,74	7572,89	496,58	7,49	8/10	30K3
BS -12x268-18x301	304	301	12	18	268	140,52	110,31	24112,68	1586,36	904,18	13,10	8185,65	543,90	7,63	7/8	30K4
BS -10x310-16x348	342	348	10	16	310	142,36	111,75	32093,58	1876,82	933,05	15,01	11241,30	646,05	8,89	6/7	35K1
BS -12x310-20x350	350	350	12	20	310	177,20	139,10	41140,77	2350,90	1180,15	15,24	14296,71	816,95	8,98	7/8	35K2
BS -16x314-20x350	354	350	16	20	314	190,24	149,34	43219,15	2441,76	1233,19	15,07	14303,75	817,36	8,67	8/10	35K3
BS -10x354-20x398	394	398	10	20	354	194,60	152,76	59420,54	3016,27	1334,73	17,47	21018,21	1056,19	10,39	6/7	40K1
BS -14x356-22x400	400	400	14	22	356	225,84	177,28	68203,72	3410,19	1532,99	17,38	23475,81	1173,79	10,20	8/10	40K2
BS -16x356-25x403	406	403	16	25	356	258,46	202,89	79245,54	3903,72	1769,76	17,51	27285,04	1354,10	10,27	8/10	40K3
BS -18x354-30x405	414	405	18	30	354	306,72	240,78	96416,05	4657,78	2140,91	17,73	33235,18	1641,24	10,41	10/12	40K4
BS -25x357-36x400	429	400	25	36	357	377,25	296,14	120993,34	5640,72	2644,68	17,91	38455,86	1922,79	10,10	14/18	40K5

Notes:

1. The cross sectional area , and the reference values calculated by the linear density of the nominal size . The density of steel is taken to be 7,85g / cm³ .
2. Legs of the waist seams are calculated from the condition of equal strength double lap weld the bearing capacity of the wall shear beam provided application design in all climatic zones of construction, except I1, I2, II2, II3. Climatic regions of construction shall be in accordance with GOST 16 350. The numerator Set leg seam for beams made of steel C245 , S255 , in the denominator of steel C345 . Perhaps refinement leg joint project