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 ASTM 6/ 6 « » (ASTM 6/ 6 «Standard Specification for  
 General Requirements for Rolled Structural Steel Bars. Plates. Shapes, and Sheet Piling». NEO)

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Федеральное агентство  
по техническому регулированию  
и метрологии

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и метрологии

Hot-rolled steel I-beams with parallel edges of Ranges. Specifications

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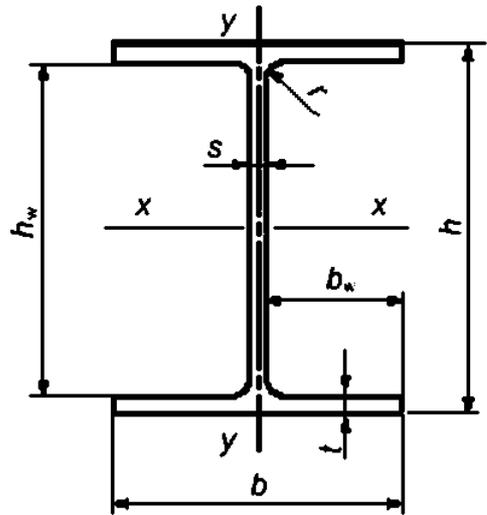
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22536.0—87 .  
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26877—2008 .  
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50779.10 ( 3534-1—93) , .  
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• ( 255 , 255 -1, 345 , 355 . 355 -1, 390 , 440 — ):  
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 19281; 265, 345. 355. 390, 440 — 535;  
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6 »																	
1061	100	55	4.1	5.7	88.6	256	7	10.32	8.1	171.01	34.20	19.70	40.70	1525	5.54	4.57	12.15
12 1	117.6	64	3.8	5.1	1074	30.1	7	1103	8.7	257.36	43.80	24.94	48.30	2289	7.00	5.49	14.25
126 2	120	64	4.4	6.3	1074	298	7	13.21	10.4	317.75	53.00	30.36	49.04	2767	8.65	6.79	14.47
1461	137.4	73	3.8	5.6	126 2	34.6	7	13.39	10.5	434.86	63.30	35.80	56.98	36.42	9.98	7.76	16.49
1462	140	73	4.7	6.9	126 2	342	7	16.43	12.9	541.22	77.30	44.17	57.40	4323	1184	9.62	16.22
1661	157	82	4	5.9	1452	39	9	16.18	12.7	689.28	87.80	49.55	65.27	54.43	1327	1035	18.34
1662	160	82	5	7.4	1452	386	9	20.09	15.8	869.29	108.70	61.93	65.78	6861	16.66	13.05	18.44
1661	177	91	4.3	6.5	164	434	9	19.58	15.4	1062.74	120.10	67.66	73.68	78.49	17.25	13.98	20.02
18 2	180	91	5.3	8	164	42.9	9	23.95	18.8	1316.96	14660	83.21	74.16	97 5	21/42	1730	20.17
2060	198	99	4.5	7	184	47.25	11	23.18	18.2	158166	160.00	89.88	82.60	11361	22.95	1786	22.14
2061	200	100	5.5	8	184	47.25	11	27.16	21.3	1844 26	184.00	104.73	82.41	133.91	26.78	20.97	22.21
2062	203	101	6.5	9.5	184	47.25	11	32.19	25,3	221849	21900	124.99	83.02	163.93	32.46	2560	22.57
2063	208	102	8	12	184	47	11	40,24	31.6	285262	274.00	158.46	84.20	213.50	4186	33.02	23.03
2561	248	124	5	8	232	596	12	32.68	25.7	3537.11	285.00	159.68	10404	254.85	41.11	3180	27.93
2562	250	125	6	9	232	598	12	37.66	29.6	4051.73	324.00	182.93	103.73	293.85	47,02	3655	27.93
2563	255	126	7.5	11.5	232	59.25	12	47.62	37.4	5238.16	411.00	233.88	10488	384.79	61.08	47 67	28.43
2564	260	127	9	14	232	59	12	57.68	45.3	646161	499.00	286.25	10600	480.06	75.60	5924	28.85
3061	298	149	5.5	8	282	71.75	13	40.80	32	631822	424.00	237.53	124.44	442.00	59.33	4588	32.91
3062	300	150	6.5	9	282	71.75	13	46.78	36.7	720926	481.00	271.06	124.14	507.53	67.67	5256	32.94
3063	305	151	8	11.5	282	716	13	58.74	46.1	9254 93	60700	344.37	12562	661.88	87.67	6831	33.57
3064	310	152	9.5	14	282	71.25	13	70.80	55.6	11381.41	73400	419.40	126.79	822.37	10821	8460	34.08
3561	346	174	6	9	328	84	14	52.68	41.4	11094.49	641.00	358.09	145.12	791.54	90.98	70.11	38.76
3562	350	175	7	11	328	84	14	63.14	49.6	13559.01	775.00	433.96	14664	984.34	112.50	86.79	39.48

*								»- « «4 F <sub>tw</sub> ?	1 , -								
			«	(	«		f			^ 4	IV <sub>x</sub> CM³	S <sub>p,cmi</sub>	i <sub>r</sub>	ly. 4	IVy. CM³	Sy CM³	yyMM
35	355	176	6.5	135	328	83.75	14	77.08	60.5	16797.02	946,00	533.54	147.62	122986	139.70	108.13	39.94
3564	361	177	10	165	328	835	14	92.69	72.9	20719.71	1148.00	651.07	14985	1528.90	172.76	134.02	40.57
40 1	396	199	7	11	374	96	16	72.16	56.6	20018.83	1011.00	563.93	16656	1447.14	145.44	111.97	44.78
4062	400	200	6	13	374	96	16	84.12	66	23704.43	1185.00	663.13	16787	173688	17364	133.82	45.43
4063	406	201	9.5	16	374	95.75	16	102.05	80.1	29352.46	1446.00	813.38	16960	216988	21591	166.74	46.11
4064	412	202	11	19	374	955	16	120.10	94.3	35196.83	1709.00	966.65	171.19	261625	259.03	200.47	46.67
4561	446	199	6	12	422	955	18	84.30	66.2	28697.35	1287.00	725.06	18450	158002	15880	123.29	43.29
4562	450	200	9	14	422	955	18	96.76	76	33450.76	1487.00	839.53	185.93	187156	187.16	145.46	43.98
4563	456	201	105	17	422	95.25	18	115.43	90.6	40710.41	1786.00	101255	18780	2307.61	22961	178.81	44.71
4564	462	202	12	20	422	95	18	13422	105.4	48197.42	2087.00	1188.75	18950	275665	272.94	213.01	45.32
5061	492	199	8.8	12	468	95.1	20	92.38	72.5	36841.90	1498.00	853.45	199,70	1581.95	158.99	124.86	41.38
5062	496	199	9	14	468	95	20	10127	79.5	41869.08	1688.00	957.23	20383	184488	185.42	144.88	42.68
5063	500	200	10	16	468	95	20	114.23	89.7	47846.06	1914.00	108759	20466	2140.78	214.08	167.48	43.29
5064	506	201	12	20	468	945	20	13999	1099	59953.57	2360.00	134882	20694	271784	27043	212.23	44.06
5065	516	202	15	24	468	935	20	17059	133.9	73345.27	2843.00	1642.68	2078 5	331552	328 27	260.04	44.09
5561	543	220	9.5	135	516	10525	24	113.36	89	55677.43	2051.00	1164.94	221.62	240552	21868	171.67	46.06
5562	547	220	10	155	516	105	24	124.74	97.9	62784.46	2296.00	1301.49	22484	276182	251,03	196.56	47.05
5563	553	221	12	185	516	104.5	24	148.63	116.7	75321.23	2724.00	1554*49	225.11	334290	30253	237.99	47,42
5564	560	222	14	22	516	104	24	174 56	1375	89907.11	3211.00	1842 20	226.75	403205	36325	286.76	48.02
€61	596	199		15	566	945	22	120*45	94.6	68715.92	2306.00	1325 86	23885	1979.64	19896	157.64	40.54
6062	600	200	11	17	566	945	22	134,41	1055	77632.26	2588.00	148986	24082	2278.14	22781	180.72	41.17
€63	604	201	125	19	566	94.25	22	15128	118.8	87472.12	2897.00	167588	240.46	2586.61	25797	205.28	41.35
€64	612	202	15	23	566	935	22	18197	1428	106509.52	3481.00	2026.68	241.93	3182.61	315.11	253.12	41.82
7061	691	260	12	155	660	124	24	164.74	1295	125922.22	3645.00	2094.79	276.47	455784	350.56	276.64	52.60

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			£	1						V		S <sub>m</sub> ,cm <sup>3</sup>		I <sub>r</sub> <M*	I <sub>Vy</sub> CM <sup>3</sup>	V *	^MM
70 2	697	260	13	188	660	123.5	24	186.94	146.7	147101.94	4221.00	241990	280.51	543929	418/41	329.52	53.94
7063	702	261	148	21	660	12325	24	2 26	165.1	167085.07	4761.00	2736 06	261.89	6248.47	47881	378.	54.51
70S 4	710	262	17	25	660	122.5	24	248.14	194 8	199680.00	5625.00	324928	28327	7531.14	574.90	456.29	55.09
—																	
20 0	190	149	5	7	176	72	13	31.11	24.4	2079.60	21890	120.97	81.76	386.62	51.90	39.79	35.25
20 1	194	150	6	9	176	72	13	39.01	30.6	2689.74	27790	154.28	83.04	507.16	67.62	5185	36.06
20 2	199	151	7.5	11.5	176	71.75	13	49.38	38.8	3502.14	352.00	198.01	84.21	661.24	87.58	6727	36.59
20	204	152	9	14	176	718	13	59.85	47	436201	427.70	243.18	85.37	821.37	108.08	83.18	37.05
20 4	211	155	11	178	176	72	13	75.06	58.9	569623	540.00	31120	87.12	1089.19	14024	108.38	38.09
20 5	21	157	13	21	176	72	13	90.27	70.9	7117.64	653.00	381.26	88.80	1359.05	173.13	133.81	38.80
20 6	226	159	16	26	176	718	13	112.29	88.1	931220	816.90	485.66	91.07	1749.68	220.09	170.75	39.47
25 0	240	174	6	9	222	84	16	46.84	36.8	4981.13	415.10	229.64	103.13	791.75	91.01	6984	41.11
25 1	244	175	7	11	222	84	16	56,24	44.1	612123	50120	279.19	10433	984.48	112.51	8636	41.84
25 2	249	176	8.5	138	222	83.75	16	68.59	53.8	762429	61240	343.94	105/44	122933	139.70	107.41	42.34
25	256	177	108	17	222	83.25	16	85.69	67.3	9819/49	76720	436.06	10705	157520	17799	137.18	42.88
25 4	264	182	13	21	222	848	16	10780	84.4	12751.44	966.00	556.26	108.91	2116/49	23228	179.70	44.37
25 5	274	184	16	26	222	84	16	133/40	104.7	16478.26	1202.80	703.59	111.14	2710.17	29428	228.44	45.07
25 6	286	186	19	32	222	838	16	16342	1282	21227.68	1488.70	884.76	114.13	344826	37081	288.22	45.94
	290	199	7		270	96	18	61.48	48.3	9429.75	650.40	360.60	12385	1316.09	13227	101.70	46.27
30 1	294	200	8	12	270	96	18	72.38	56.8	11338.30	77140	429.51	125.16	160325	16033	123.28	47.06
30 2	300	201	9	15	270	96	18	87.38	68.6	14209.66	947/40	529.86	12722	2034.12	202/40	155.42	48.25
	306	203	11	18	270	96	18	10586	82.9	17455.33	1140.90	644.63	12829	2515.45	24783	190.85	48.82
30 4	314	206	13	22	270	968	18	12882	100.9	21967.16	1399.20	798.35	130.74	321327	312.01	240.56	50.00
0 5	326	208	16	28	270	96	18	162.46	1278	29037.68	1781.50	1031.79	13329	4213.04	405.10	313.16	50.92

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			«	1		$b_w$	$t$			$\Delta$ 4	$IV_x, \text{cm}^3$	$S_{xx}, \text{cm}^4$	$I_x$	$I_y$ 4	$IV_y$ 3	$S_y$ 3	>
	342	210	20	36	270	95	18	20798	1633	39315.66	2299.20	1357.14	13749	558038	531.46	412.35	51.80
35 1	334	249	8	11	312	120.5	20	83.17	65.3	17107.05	1024.40	565.71	143.42	2834.61	227.68	174.45	58.38
35 2	340	250	9	14	312	120.5	20	10151	79.7	21676.50	1275.20	706.03	146.13	3650.96	29208	223.45	59.97
35	347	252	11	175	312	120.5	20	12595	98.9	27535.21	1587.10	886.41	14786	467489	37102	284.26	60.92
35 4	354	254	13	21	312	120.5	20	150.67	118.3	33692.45	1903.60	107231	14934	5745.79	45242	347.18	61.75
35 5	364	258	16	26	312	121	20	18751	1472	43231.44	2375.40	1354 36	15184	745832	578.16	444.79	63.07
35 6	376	260	19	32	312	120.5	20	229.11	179.9	54967.48	2923.90	168825	15489	939887	722.99	557.28	64.05
35 7	392	262	23	40	312	119.5	20	284.79	2236	71815.25	3664.10	2150 36	15880	12030.68	91837	709.81	65.00
40 1	383	299	9.5	125	358	144.75	22	112.91	88.6	30554.32	1595.60	880.73	164.50	557607	372.98	285.42	70.27
40 2	390	300	10	16	358	145	22	135.95	106.7	38674.10	1983.40	109397	16866	7207.76	48032	366.53	72.81
40	397	302	12	195	358	145	22	16489	1294	47846.38	2410.50	1339.96	17034	8962.47	593.54	453.33	73.72
40 4	406	304	145	24	358	144.75	22	201.98	1588	60107.10	2961.00	1662.00	172.51	11253.72	74038	566.43	74.64
40 5	418	309	175	30	358	145.75	22	25220	198	77867.25	3725.80	2114.90	175.71	14776.25	95639	732.65	76.54
40 6	430	311	21	36	358	145	22	30325	238.1	96432.24	4485.30	257821	17832	18086.33	1163.11	893.43	77.23
40 7	446	313	25	44	358	144	22	369.09	289.7	122543.61	5495.30	3204 85	18221	22547.06	1440.71	110925	78.16
45 0	434	299		15	404	144.5	24	13504	106	46794.17	2156.50	1192.24	186.15	669238	447 65	342.86	70.40
45 1	440	300	11	18	404	144.5	24	15738	1235	56069.13	2548.70	1412.44	188.75	8111.30	540.75	413.80	71.79
45 2	446	302	13	21	404	144.5	24	18430	144.7	66379.08	2976.80	166131	189.78	965560	63944	490.29	72.38
45	452	304	15	24	404	144.5	24	211.46	166	77050.83	3409.40	1915.99	19088	11258.31	740.68	569.04	72.97
45 4	464	308	18	30	404	145	24	26246	206	98962.82	4265.80	242093	194.18	14639.87	950.64	731.39	74.69
45 5	476	310	21	36	404	144.5	24	312.98	245.7	121722.09	5114.50	293226	19721	17919.20	115608	891.09	75.67
45 6	492	312	25	44	404	143.5	24	38050	298.7	153856.39	6254.40	3633.74	20 8	22341.67	1432.16	1106.76	76.63
50 1	482	300	11	15	452	144.5	26	14552	114.2	60366.76	2505.00	139536	20367	6763.79	450.92	347.62	68.18
50 2	487	300	145	175	452	142.75	26	176.34	1384	71863.01	2951.40	166683	201.87	7897.73	52632	409.42	66.92

			£	1						V**		S <sub>m</sub> ,cm <sup>3</sup>	V <sup>MM</sup>	I <sub>r</sub> *	I <sub>V</sub> CM <sup>3</sup>	V *	MM
50	493	300	155	205	452	14225	26	19886	156.1	83437.19	3385.00	1912.66	204.83	925105	616.74	478.76	68.21
50 4	499	300	165	235	452	141.75	26	22138	1738	95277.59	3818.90	216140	207.45	10604.74	70698	548.21	69.21
50 5	508	302	19	28	452	141.5	26	26080	204.7	11495983	4526.10	2578.55	209.95	12894.47	853.94	663.27	70.31
50 6	518	310	22	33	452	144	26	30984	243.2	140248.12	5415.10	310650	212.75	16442.90	1060.83	825.05	72.85
50 7	532	312	26	40	452	143	26	372.92	292.7	174203.77	6549.20	3797.96	216.13	20335.63	1303.57	1017.09	73.84
50 8	548	314	30	48	452	142	26	44284	347.8	214879.98	7842.50	459803	22028	24895.49	1585.70	1240.04	74.98
60 1	582	300	12	17	548	144	28	174.49	137	102709.98	3529.80	198130	24262	766982	511.32	396.49	66.30
60 2	589	300	16	205	548	142	28	21741	170.7	126193.28	4285.30	243884	240.92	925920	61728	483.58	65.26
60	597	300	18	245	548	141	28	25237	196.1	150035.32	5026.60	2869.72	24382	11069.11	737.94	578.58	
60 4	605	300	20	285	548	140	28	28733	225.6	174450.48	5767.20	330539	24640	12881.13	858.74	674.12	66.96
60 5	616	302	23	34	548	139.5	28	338.13	265.4	210467.04	6833.60	3941.46	24949	15686.64	1038.85	817.44	68.11
60 6	630	315	27	41	548	144	28	412.99	324.2	266239.93	8452.30	4907.09	253.90	21476.15	1363.57	1073.64	72.11
7	644	317	31	48	548	143	28	480.93	377.5	318172.04	9881.40	5788.14	25721	25653.72	1618.53	1279.02	73.04
60 8	664	319	36	58	548	141.5	28	574.05	450.6	394963.73	11896.70	704757	262.30	31634.17	1983.33	1572.47	74.23
70 1	692	300	13	20	652	143.5	28	211.49	166	172424.05	4983.70	281439	28553	9024.71	601.65	468.06	65.32
70 2	698	300	15	23	652	142.5	28	24283	1904	198779.77	5696.00	323341	28629	10382.89	692.19	540.47	65.43
70	707	300	18	275	652	141	28	28909	2269	239021.10	6761.90	3867.02	28754	12424.17	82828	650.29	65.56
70 4	715	300	205	315	652	139.8	28	32939	258.6	275127.01	7696.20	4426.46	289.01	14095.21	939.68	748.55	65.42
70015	725	300	23	365	652	138.5	28	37589	2949	319781.96	8821.90	509931	291.75	16514.14	110094	870.34	66.30
70 6	740	313	27	44	652	143	28	45821	359.7	403258.33	10899.20	6334.98	296.66	22622.18	1445.51	1143.72	70.26
70 7	758	315	32	53	652	141.5	28	54927	4312	496466.98	13099.70	769300	300.64	27822.55	1766.51	1405.68	71.17
70 &	780	317	38	64	652	139.5	28	66025	5183	616075.38	15797.10	9389.94	305.47	34321.56	2165.40	1734.01	72.10
—																	
15 1	147	149	6	8.5	130	715	11	34.17	26.8	1366.76	18600	103.63	63.25	469.21	62.98	4805	37.06

*								»- « «4 w ?	1 , -								
			«	1		8 <sub>w</sub>	/			^ . 4	IV <sub>x</sub> .cm <sup>3</sup>	S <sub>m</sub> .cm <sup>l</sup>	i <sub>r</sub>	/ . 4	IVyCM <sup>5</sup>	Sy CM <sup>5</sup>	
15 2	150	150	7	10	130	715	11	40.14	31.5	1641	21880	123.04	63.95	563.28	75.10	5736	37.46
15	155	151	8.5	125	130	71.25	11	49.84	39.1	2117.61	27320	155.69	65.18	718.46	95.16	72.78	37.97
15 4	160	152	10	15	130	71	11	59.64	46.8	2629.16	328.60	189.67	66.40	879.66	115.74	88.65	38.41
15 5	166	153	12	18	130	705	11	71.72	56.3	3291.43	39660	232.39	67.74	1077.13	14080	108.12	38.75
20 1	196	199	6.5	10	176	96.25	13	52.69	41.4	384606	39250	216.41	85.44	131447	132.11	100.38	49.95
204(2)	200	200	8	12	176	96	13	63.53	49.9	4715.63	47160	262.75	86.15	160153	160.15	121.91	50.21
2040	204	201	9	14	176	96	13	73.57	57.8	5602.48	54930	308.35	87.26	1896.76	188.73	143.72	50.78
204(4)	210	201	105	17	176	95.25	13	88.27	69.3	696282	663.10	376.57	88.81	230358	22921	174.72	51.09
204(5)	214	202	12	19	176	95	13	99.33	78	797040	74490	426.84	89.58	261386	258.80	197.63	51.30
2040	220	202	14	22	176	94	13	114.97	90.3	9488.15	86260	500.34	90.84	3027.75	299.78	229.45	51.32
204(7)	226	203	16	25	176	935	13	131.11	102.9	11136.66	965.60	578.16	92.16	349341	344.18	263.98	51.62
2040	234	203	18	29	176	925	13	15087	118.4	13375.48	1143.20	679.29	94.16	4053.98	399.41	306.76	51.84
25 1	246	249	8	12	222	120.5	16	79.72	62.6	917092	745.60	410.68	10726	3090.05	24820	188.61	62.26
254(2)	250	250	9	14	222	120.5	16	92.18	72.4	10832.61	86660	480.25	10841	364881	29190	221.88	62.92
2540	253	251	10	155	222	120.5	16	10221	80.2	12153.56	96080	535.41	109.05	4088.75	32580	247.85	63.25
254(4)	257	252	11	175	222	120.5	16	114.82	90.1	13927.17	1083.90	607.67	110.14	467201	370.79	282.18	63.79
254(5)	262	253	125	20	222	12025	16	131.15	102.9	16243.92	1240.00	701.07	111.29	5404.02	42720	325.46	64.19
2540	287	253	14	225	222	119.5	16	147.13	115.5	18593.24	1392.80	793.96	11242	608058	480.68	366.65	64.29
254(7)	274	258	16	26	222	121	16	17188	134.9	22416.63	1636.30	942.16	114.20	745257	577.72	441.04	65.85
2540	281	259	18	295	222	120.5	16	19497	153	26169.72	1862.60	108349	11586	8556.66	660.75	505.09	66.25
254(9)	266	260	20	33	222	120	16	21820	1713	30128.76	2092.30	1228.96	11751	968584	745.06	570.29	66.63
25 10	298	261	23	38	222	119	16	25182	1975	36112.37	2423.70	144284	11980	11288.	86499	663.49	66.98
30 1	298	299	9	14	270	145	16	110.80	87	18848.66	1265.10	694.64	130.43	6241.18	417.47	316.82	75.05
304(2)	300	300	10	15	270	145	18	119.78	94	20410.21	1360.70	750.59	13054	675482	450.32	342.13	75.10

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			£	(						V**		S <sub>m</sub> ,cm <sup>3</sup>	V <sup>MM</sup>	I <sub>r</sub> *	I <sub>V</sub> CM <sup>3</sup>	V *	MM
3(	300	305	15	15	270	145	18	134.78	1058	21535.21	1435.70	806.84	12640	7104.75	46589	358.04	72.60
30 4	304	301	11	17	270	145	18	13482	1058	23380.49	1538.20	852.74	13109	773208	513.79	390.46	75.73
30 5	308	301	12	19	270	1445	18	14956	117.4	26363.00	1711.90	953.96	132.77	8642.78	574.27	436.61	76.02
30* 6	312	302	13	21	270	144.5	18	164.72	1295	29508.74	1891.60	1059.44	13304	964800	638.98	485.99	76.53
30 7	316	302	14.5	23	270	143.75	18	18085	142	32732.42	2071.70	1167.93	13403	10569.09	699.94	533.09	76.45
8	316	357	145	23	270	17125	18	206.15	1618	38173.52	2416.10	135326	136.08	17452.10	977.71	741.49	92.01
9	322	358	16	26	270	171	18	232.14	1822	43983.22	2731.90	1541.60	13705	19896.05	1111.51	843.38	92.58
3< 10	328	359	18	29	270	170.5	18	259.60	2038	50113.53	3055.70	1738.68	138.94	22381.15	1246.86	947.13	92.85
30 11	334	360	20	32	270	170	18	287.18	2254	56488.07	3382.60	1939.98	14025	24906.98	1383.72	1052.25	93.13
12	341	361	22	355	270	169.5	18	31849	250	64158.88	3763.00	217626	141.93	27866.02	1543.82	117502	93.54
30 13	350	362	24	40	270	169	18	357.18	280.4	74376.59	4250.10	248101	14400	31663.84	1749.38	1332.11	94.15
14	356	371	27	43	270	172	18	394.74	310	83542.73	4693.40	2760.90	14548	36649.58	1975.72	1506.68	96.36
30 15	364	372	30	47	270	171	18	433.46	340	93889.40	5158.80	306280	147.17	40396.22	2171.84	1659.03	96.54
16	374	373	33	52	270	170	18	47980	377	107317.14	5738.90	3441.68	14956	45068.65	2416.55	1848.28	96.92
30 17	384	374	36	57	270	169	18	526.54	413	121512.35	6328.80	3831.76	15194	49816.72	2664.00	2040.04	97.29
3< 18	396	375	39	63	270	168	18	58058	456	139424.86	7041.70	4307.16	154.97	55520.26	2961.08	2269.45	97.79
30 19	408	385	43	69	270	171	18	650.18	5	162282.29	7955.00	491282	15799	65823.93	3419.43	2622.83	100.62
3< 20	422	387	47	76	270	170	18	717.92	564	187072.38	8866.00	5534.78	161.42	73671.74	3807.33	2923.99	10100
21	440	389	52	85	270	168.5	18	804.48	632	221339.17	10060.90	6361.10	16507	83732.22	4305.00	331101	102.02
35 1	342	348	10	15	312	169	20	13903	109.1	31247.91	1827.40	1001.17	149.92	10542.20	60587	459.67	87.08
35 10	346	349	11	17	312	169	20	156.41	1228	35711.24	2064.30	1135.84	151.10	12051.43	690.63	524.08	87.78
35 2	350	350	12	19	312	169	20	17387	1365	40295.10	2302.60	1272.61	15223	13585.81	776.03	589.29	88.39
35K3	355	351	135	215	312	168.75	20	19648	1542	46230.78	2604.60	1448.66	153.39	15506.80	883.58	671.24	88.84
35 4	360	352	15	24	312	168.5	20	219.19	172.1	52353.71	2908.60	162780	15405	17459.85	992.04	754.25	89.25

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* №	« 4 w ?							1 -	»-								
	«	*		4 <sub>w</sub>	/	^ 4	IV <sub>x</sub> ,cm <sup>3</sup>		S <sub>»,cm</sub>	/ . 4	IVy. 3	Sy 3	*				
35 5	365	353	165	265	312	16825	20	242,00	190	58667.45	3214.70	18 .04	155.70	19445.29	1101.72	838.34	89.64
35 6	369	360	18	285	312	171	20	264.79	207.9	64960.87	3521.00	199180	156.63	22183.46	1232.41	938.35	91.53
3SK7	376	361	20	32	312	171	20	29687	233	74398.84	3957.40	2256.32	15831	24100.27	1335.20	1060.65	90.10
35* 8	382	362	22	35	312	170	20	325.47	2555	82894.78	4340.10	249196	15969	27708.50	1530.86	1168.17	92.27
35 9	389	363	24	385	312	169.5	20	35782	2809	93053.13	4784.30	276725	161.26	30738.02	1693.55	1293.57	92.68
35*00	396	364	265	42	312	168.75	20	39187	3078	103736.95	5239.30	3054.44	162.70	33819.62	1858.22	1421.64	92.90
35*01	404	374	29	46	312	172.5	20	437.99	344	118982.06	5890.30	3458 40	16482	40183.35	2148.84	1644.63	95.78
35*02	414	375	32	51	312	171.5	20	485.77	381	135721.12	6556.60	388688	167.15	44924.27	2395.96	1836.42	96.17
35*03	424	376	35	56	312	170.5	20	533.75	419	153322.14	7232.20	432620	16949	49742,07	2645.85	2030.81	96.54
35*04	434	377	38	61	312	170	20	581.93	457	171810.19	7917.60	4777,34	17183	53526.18	2839.59	2227.81	95.91
35*05	446	378	42	67	312	168	20	640.99	503	195206.30	8753.70	533635	17461	60526.71	3202.47	2466.48	97.17
35*06	458	392	46	73	312	173	20	71927	565	227053.18	9915.00	609432	177.67	73566.94	3753.42	2891.61	101.13
35*07	472	393	50	60	312	171.5	20	78823	619	258357.05	10947.40	6796.66	181.04	81286.56	4136.72	3191.54	10185
35*08	488	394	55	88	312	169.5	20	868.47	682	296560.12	12154.10	762966	184.79	90173.85	4577.35	3538.66	10190
35*09	506	395	60	97	312	167.5	20	956.93	751	342451.60	13535.70	859161	189.17	100237.83	5075.33	3929.92	10235
35 20	520	409	65	104	312	172	20	1056.95	830	392963.39	1511400	9664.42	19282	11935260	5836.31	4520.43	10626
35 21	540	411	71	114	312	170	20	1162.03	912	454051.03	16816.70	10869.85	197.67	132896.30	6466.97	5017.71	106.94
35 22	562	413	77	125	312	168	20	1276.17	1002	526659.94	18742.40	12243.01	203.15	14801126	7167.62	5568.89	107.69
35 23	580	426	84	134	312	171	20	1407.19	1105	606878.24	20926.90	13777.86	207.67	1742 71.91	8181.78	6362.61	111.29
35 24	604	430	92	146	312	169	20	1546.07	1214	704826.45	23338.70	15522.09	213.51	195579.55	9096.72	7087.61	112.47
40 1	394	398	11	18	358	193.5	22	18681	146.6	56145.32	2850,10	155922	17336	18922.61	95088	720.40	100.64
40 2	400	400	13	21	358	193.5	22	21889	171.7	66621.42	3331.20	183623	17464	22412.66	1120.63	849.93	10123
40	406	403	16	24	358	193.5	22	25487	200.1	78039.23	3844.40	213984	174.98	26200.17	1300.26	988.59	10139
40 4	414	405	18	28	358	193.5	22	29539	231.9	92771.15	4481.80	2513.15	17722	31026.86	1532.19	1165.56	10249

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			£	1	*					V**		S <sub>m</sub> ,cm <sup>3</sup>	V <sup>М</sup>	I <sub>r</sub> *	I <sub>у</sub> CM <sup>3</sup>	V *	/
40 48	420	403	20	31	358	191.5	22	32561	2556	103629.72	4934.80	278646	178.40	33850.06	1679.90	1279.67	101.96
40 5	429	400	23	358	358	188.5	22	37049	2908	120290.28	5608.00	3196.49	180.19	37914.85	1895.74	1447.08	101.16
40 6	438	370	25	40	358	172.5	22	389.65	306	128432.36	5864.60	338188	18185	33828.57	1828.57	1400.59	93.18
40 7	448	371	28	45	358	171.5	22	43829	344	148100.17	6611.70	3848.78	18382	38379,65	2068.98	1587.47	93.58
4 0 8	458	372	31	50	358	170.5	22	487.13	382	168699.39	7366.90	4327 20	186.09	43005.92	2312.15	1777.05	93.96
40 9	470	373	35	56	358	169	22	54721	430	194740.02	8286.90	4920.70	188.65	48584.92	2605.09	2007.28	94.23
40 10	484	374	39	63	358	167.5	22	615.01	483	226537.97	9361.10	5620.76	19192	55131.73	2948.22	2276.18	94.68
40 11	494	392	43	68	358	174.5	22	69121	543	261626.64	10592.20	6402.77	19485	68534.67	3496.67	2700.52	99.57
40 12	510	393	48	76	358	172.5	22	77385	607	303779.07	11913.00	728680	198.19	77250.07	3931.30	3043.64	99.94
40 13	528	394	53	85	358	170.5	22	863.69	678	354176.41	13415.80	830329	20280	87133.40	4423.02	3430.99	10044
40 14	548	395	59	95	358	168	22	96587	758	414486.61	15127.30	9480.79	207.15	98243.25	4974.34	3868.52	10085
40 15	564	410	65	103	358	172.5	22	1081.45	849	482318.03	17103.50	1081181	211.18	11919283	5814.27	4525.42	104.98
40 16	588	412	72	115	358	170	22	1209.51	949	569246.81	19362.20	12395.01	216.94	135224.94	6564.32	5120.62	105.74
40 17	616	414	80	129	358	167	22	1358.67	1067	679972.85	22077.10	14322.16	223.71	154171.55	7447.90	5823.25	106.52
40*08	638	430	87	140	358	171.5	22	1519.61	1193	800682.18	25099.80	16419.75	229.54	187578.94	8724.60	6820.27	111.10
40(09)	668	435	96	155	358	169.5	22	1696.33	1332	952172.59	28508.20	18868.64	236.92	215398.07	9903.36	7755.88	112.68
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13 1	128	118	9	9	110	548	12	32.38	56.2	4982 80	49820	80.04	124.05	247.82	42.00	3289	27.67
20 1	200	204	12	12	176	96	13	71.53	56.2	498280	49820	282.75	83.46	1701.70	16683	128.66	48.77
2501	244	252	11	11	222	120.5	16	82.06	64.4	6786.78	72080	402.51	103.48	293895	23390	178.99	59.84
25 2	250	255	14	14	222	120.5	16	104.68	82.2	11483.66	918.70	519.31	104.74	3876.71	304.06	234.19	60.86
30 1	294	302	12	12	270	145	18	10766	84.5	16864.21	1147.30	638.55	125.16	5515.71	36598	279.87	71.58
2	300	305	15	15	270	145	18	134.78	1058	21535.21	1435.70	806.84	12640	7104,75	46589	358.04	72.60
32 1	326.7	319.7	248	248	277.1	147.45	152	22928	1058	21535.21	1435.70	144825	96.92	13546.38	847.44	656.56	76.87

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			«	(		P <sub>w</sub>	t			^ 4	IV <sub>x</sub> .cm <sup>3</sup>		i <sub>r</sub>	ly. 4	IVy. CM <sup>3</sup>	Sy CM <sup>3</sup>	yyMM	
32 2	337.9	325.7	303	30.4	277,1	147.7	152	28397	1058	21535.21	1435.70	182655	87.08	17576.76	1079.32	839.85	78.67	
3501	338	351	13	13	312	169	20	13525	1062	28190.35	1668.10	925.69	14437	9379.75	534.46	408.88	83.28	
35 2	344	354	16	16	312	169	20	166.63	1308	35330.39	2054.20	1149.60	145.61	11846.29	66928	513.39	84.32	
3503	360	357	19	19	312	189	20	19837	155.7	42796.14	2445.60	1379.79	14688	14433.12	80858	621.86	85.30	
0 1	388	402	15	15	358	193.5	22	178.45	140.1	48965.18	2524.10	140107	16565	16258.37	80887	618.66	95.45	
40 2	394	405	18	18	358	193.5	22	21439	1683	59713.16	3031.20	1695.05	16689	19955.17	985.44	755.50	96.48	
40	400	408	21	21	358	193.5	22	250.69	1968	70888.09	3544.50	199623	168.16	23809.25	1167.12	896.87	97.45	
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20 1	207	133	5.8	8.4	1902	636	7.6	33.87	26.6	258037	24930	139.48	87.28	329.79	49.59	38.06	31.20	
20 2	210	134	6.4	102	1898	638	7.6	39.97	31.3	313700	29880	167.61	88.60	409.58	61.13	4688	32.01	
25 1	251	146	6	8.6	2338	70.05	7.6	39.64	31.1	4395.18	351.10	196.03	10530	434.15	59.47	47 00	33.10	
25 2	258	148	6.3	10.9	234 2	70.05	7.6	47.08	37	5523.69	43280	241.08	10832	515.93	70.67	5937	33.10	
25	260	147	7.2	12.7	234.6	70.05	7.6	54.73	43	6554.72	504.10	283.24	10944	635.14	86.41	7026	34.07	
25 4	258	148	6.1	9.1	2398	69.95	7.6	41.70	32.7	488750	378.90	212.12	10827	472.58	64.74	49.73	33.67	
25 65	262	147	6.6	11.2	239.6	702	7.6	49.24	38.5	6007.12	458.60	256.75	11045	593.66	80.77	61.93	34.72	
25 6	266	148	7.6	13	240	702	7.6	57.22	44.8	710801	53440	301.04	111.46	703.43	95.06	7306	35.06	
30 61	309	102	6	8.9	2912	48	7.6	36.12	28.3	542636	35120	203.38	12256	158.06	30.99	24 58	20.92	
30 2	313	102	6.6	108	291	47.7	7.6	41.76	32.7	6496.06	415.	240.08	124,72	191.85	37.62	2980	21.43	
	310	165	5.8	9.7	290.6	79.6	8.9	49.54	38.7	8544.97	55130	306.41	13133	726.88	88.11	6741	38.30	
30 4	313	166	6.6	11.2	2906	79.7	8.9	57.04	44.5	995039	63650	355.	132.14	854.77	10298	7892	38.71	
30 5	317	167	7.6	132	2906	79.7	8.9	66.85	52	11873.01	749.10	419.95	13327	1025.95	12287	9433	39.17	
30 6	303	165	6	102	2826	793	8.9	51.30	40.3	8477.70	56050	311.02	12856	764.36	92.65	7087	38.60	
7	307	168	6.7	11.8	283.4	793	8.9	58.84	46.1	9942.92	645.70	361.13	129.99	959.00	115.54	8306	40.37	
30 8	310	167	7.9	13.7	282.6	793	8.9	68.76	54	11668.11	75360	422.55	13026	108457	12989	97.93	39.71	

57837—2017

									1 «								
			£	1							S <sub>m</sub> ,cm <sup>3</sup>		ly. <sup>4</sup>	WyCM <sup>3</sup>	V *	/ MM	
35 61	349	127	5.8	8.5	332	60.6	102	41.74	32.9	8267.33	47380	271.01	140.74	291.00	45.83	35.90	26.40
35 2	353	128	6.5	.7	3316	60.75	102	49.84	39	10240.24	58020	331.05	143.34	375.06	58.60	4583	27.43
35 53	352	171	6.9	9.8	3324	82.05	102	57.34	44.6	12166.36	69130	389.35	145.66	817.94	95.67	7387	37.77
35 4	355	171	7.2	11.6	3318	819	102	64,45	51	14130.94	796.10	446.97	148.07	968.08	113.23	8721	38.76
35 5	358	172	7.9	13.1	3318	82.05	102	72.17	58	16051.94	89630	504.59	149.14	1112.72	12939	99.75	39.27
35 6	363	173.2	9.1	15.7	331.6	82.05	102	85.45	67.1	19414.43	1071.20	604.58	150.73	1362.07	15728	121.48	39.92
35 7	353	254	9.5	16.4	3202	12225	16	115.93	91	26754.31	1515.90	840.02	151.92	4483.14	353.00	269.04	62.19
35 8	357	255	10.5	183	320.4	12225	16	129.17	101	30209.81	1692.50	942.22	152.93	5062.32	397.04	302.87	62.60
35 9	360	256	11.4	199	3202	122.3	16	14039	110	33153.98	1841.90	1029.60	153.57	5570.48	435.19	332.26	62.95
35 10	363	257	13	21.7	3196	122	16	15528	122	36598.34	2016.50	1134.85	153.52	614742	47840	366.17	62.92
40 1	399	140	6.4	8.8	3814	668	102	49.94	38.8	12656.64	634.40	365.15	159.19	403.59	57.66	4532	28.43
40 2	403	140	7	11.2	3806	66.3	102	58.90	46.1	15570.06	772.70	442.32	16239	513.63	73.38	5747	29.53
40	403	177	7.5	109	3812	84.75	102	68.07	53	18613.44	92330	522.88	165.36	1009.08	114.02	8832	38.50
40 4	407	178	7.7	128	3814	85.15	102	75.83	60	21585.78	1060.80	597.50	168.72	1204.97	13539	104.49	39.86
40 5	410	179	8.8	14.4	3812	85.1	102	85.99	67	24557.50	1198.00	678.	168.99	137908	15409	119.34	40.05
40 6	413	180	9.7	16	381	85.15	102	95.45	75	27495.01	1331.50	756.09	169.72	155838	173.18	134.40	40.41
40 7	417	181	109	182	3806	85.05	102	10826	85	31537.51	1512.60	862.63	170.68	180336	19927	155.06	40.81
45 1	450	152	7.6	108	4284	722	102	66.28	52	21216.72	943.00	544.31	178.91	634.05	83.43	65.75	30.93
45 2	455	153	8	133	428.4	723	102	75.86	60	25498.98	1120.90	642.40	18334	796.13	10407	8154	32.39
45	459	154	9.1	154	4282	72.45	102	87.29	68	29698.29	1294.10	744.05	184.45	940.55	122.15	9604	32.83
45 4	462	154.4	9.6	17	428	72.4	102	94.48	74,2	32674.03	1414.50	813.29	185.97	104633	13556	106.56	33.28
45 5	466	155.3	109	18.9	4282	724	102	104.36	82.1	36624.88	1571.00	906.27	187.16	1184.51	15235	120.20	33.66
45 6	453	189.9	8.5	12.7	4276	90.7	102	85.47	67.1	29321.46	1296.00	734.66	185.22	1452.13	152.94	118.65	41.22
45 7	457	190	9	14.3	428	903	102	94.51	74	33262.54	1455.70	825.08	18730	1660.63	174.80	135.50	41.92

№	« 4 F <sub>1</sub> ? »							№	« 4 F <sub>1</sub> ? »								
	№	№	«	1	№	b <sub>w</sub>	/		№	№	№	№	№	№	№	№	№
45 68	460	191	9.9	16	428	90.55	102	10489	82	37004.02	1608.90	914.58	18828	186206	19498	151.49	42.24
45 9	463	192	105	17.7	427.6	90.75	102	113.76	89	40952.18	1769.00	1006.08	189.73	2092.64	217.98	169.35	42.89
45 10	466	193	11.4	19	428	908	102	123.03	97	44505.67	1910.10	1090.07	190.20	228242	23652	184.24	43.07
45 611	469	194	126	206	4278	90.7	102	134.72	106	48825.33	2082.10	1193.69	190.37	251463	25924	202.70	43.20
5	533	209	102	15.6	5018	99.4	12.7	117.78	92.5	55247.88	2073.09	1181.72	216.59	237894	22755	177.43	44.94
53 &4	537	210	10.9	17.4	5022	996	12.7	12920	101.4	61704.21	2298.11	1310.16	218.53	2692.06	25689	199.87	45.65
53 5	539	211	11.6	186	5014	99.7	12.7	13888	1090	66733.09	2476.18	141349	219.20	295099	279.71	218.28	46.10
53 6	544	212	13.1	212	5016	995	12.7	156.98	1232	76084.25	2797.22	1604.03	220.15	337782	31861	249.61	46.38
53 7	549	214	14.7	236	5018	99.7	12.7	176.16	1388	86085.86	3136.10	180653	221.06	3869.52	36154	284.46	46.87
60 1	599	178	10	126	573.4	84	12.7	10429	82	55978.88	1869.10	1098.43	23168	120885	13583	109.10	34.05
60 2	603	179	10.9	15	573	84.05	12.7	117.54	92	64629.04	2143.70	125638	234.49	1441.05	16101	129.24	35.01
60	603	226	105	14.9	573.2	108.75	12.7	12951	101	76354.39	2532.60	144982	242.81	294985	258.76	202.10	47.72
60 4	606	228	11.2	175	573.4	108.4	12.7	144.49	113	87546.50	2879.90	1644.93	246.15	342520	30046	234.41	48.69
60 &5	612	229	11.9	196	572.8	108.55	12.7	15982	125	98536.49	3220.20	1837.14	248.70	3932.13	34342	267.71	49.68
60 6	617	230	13.1	222	5726	10645	12.7	17852	140	111971.16	3629.60	2075.04	250.45	451381	39251	306.53	50.28
— *																	
10 1	96	100	5	8	80	46	12	21.20	16.7	349.00	73.00	41.51	4.06	134.00	27.00	2057	2.51
10 2	100	100	6	10	80	45	12	26.00	20.4	450.00	90.00	52.11	4.16	167.00	3300	25.71	2.53
10	120	106	12	20	80	43	12	53.20	41.8	1143.00	190.00	117.91	4.63	399.00	75.00	58.16	2.74
12 1	114	120	5	8	98	56	12	25.30	19.9	608.00	10600	59.75	489	231.00	38.00	2943	3.02
12 2	120	120	6.5	11	98	545	12	34.00	26.7	864.00	144.00	82.61	5.04	318.00	53.00	4048	3.06
12	140	126	125	21	98	525	12	66.40	53.1	2018.00	288.00	175.31	551	703.00	112.00	8582	3.25
14 1	133	140	5.5	8.5	116	65.75	12	31.40	24.7	1033.00	155.00	86.75	5.73	389.00	56.00	42.42	3.52
14 2	140	140	7	12	116	64	12	43.00	33.7	1509.00	216.00	122.71	593	550.00	7900	5989	3.58

			£	(	*							S <sub>m</sub> ,cm <sup>3</sup>		I <sub>r</sub> < *	I <sub>V</sub> CM <sup>3</sup>	V *	MM
14	160	145	13	22	116	616	12	80.60	63.2	329100	411.00	245.40	659	1144.00	157.00	118.66	3.77
15 1	152	152	5.8	6.6	1386	73.1	7.6	28.61	22.5	1213.15	15960	88.58	65.12	386.64	50.87	3882	36.76
15 2	157	153	6.6	9.3	138.4	732	7.6	38.09	29.8	172251	219.40	122.56	67.25	555.61	72.63	5550	38.19
15	162	154	8.1	11.6	1388	72.95	7.6	47.47	37.1	2227 67	27500	155.52	68.51	706.89	91.80	7006	38.59
16 1	152	160	6	9	134	756	15	38.80	30.4	167300	22000	122.57	657	616.00	77.00	5882	3.98
16 2	160	160	8	13	134	735	15	54.30	42.6	2492.00	311.00	176.98	6.78	889.00	111.00	8498	4.05
16	160	166	14	23	134	715	15	97.10	76.2	5098.00	566.00	337.28	725	175900	212.00	162.73	4.26
18 1	171	180	6	9.5	152	85.25	15	45.30	35.5	2510.00	294.00	162.43	745	925.00	103.00	7825	4.52
18 2	160	160	8.3	14	152	83	15	65.30	51.2	3831.00	425.00	240.15	766	136300	151.00	115.43	4.57
18	200	166	146	24	152	81	15	113.30	88.9	7483.00	748.00	441.72	8.13	258000	27700	212.59	4.77
20 1	203	203	7.2	11	181	97.9	102	58.59	46.1	4545.70	44 7.90	247.79	88.09	153457	151.19	114.76	51.18
20 2	206	204	7.9	12.6	1808	98.05	102	66.58	52	5272 57	511.90	284.77	88.99	178395	17490	132.78	51.76
20	210	205	9.1	14.2	1816	97.95	102	75.64	59	6114.00	58260	326.45	89.91	204050	19907	151.37	51.94
20 4	216	206	102	174	1812	97.9	102	91.06	71	7662 28	70950	401.74	91.73	25372 5	24653	187.28	52.78
20 5	222	209	13	20.6	1808	98	102	110.51	86	947187	85380	490.61	92.58	313843	300.33	229.17	53.29
20 6	220	210	146	23.7	1816	97.75	102	126.77	100	11328.82	989.40	574.62	94.53	366355	34891	266.49	53.76
25 1	253	254	8.6	142	224 6	122.7	12.7	92.84	73	11274.05	89120	492.46	11020	388024	30553	231.60	64.65
25 2	256	255	9.4	15.6	2248	122.8	12.7	10208	80	12567.16	98180	545.12	110.96	431358	33852	256.60	65.01
25	260	256	10.7	172	225.4	12265	12.7	114.08	89	14253.92	1096.50	612.99	111.78	4840.74	378.18	287.24	65.14
25	264	257	11.9	19.6	224 8	12255	12.7	12888	101	16369.03	1240.10	698.30	112.70	554954	43185	328.23	65.62

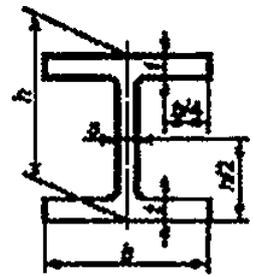
1 ( ). (6). (s). (1)  
 2 ( ), ( ^ ) (6^)  
 3  
 7650 / 3.

6.3

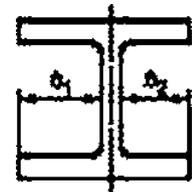
- 
- 
- 

2 —

<i>h</i>	120	120	±2.0
	120	380	±3.0
	380	580	±4.0
	580		±5.0
6	<i>tr.</i>		
	120		±2.0
	120		±3.0
5	4.4	4.4	±0.5
	4.4	6.5	±0.7
	6.5	16.0	±1.0
	16.0	23.0	±1.5
	23.0		±2.0
1	6.3		±1.0
	6.3	16.0	±1.5
	16.0	25.0	±2.0
	25.0		±2.5



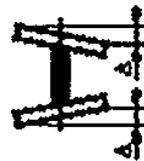
-	<i>tr.</i>		
	120		1.5
(	120	190	2.5
)	190	290	3.0
8 = ( , -6 <sub>2</sub> 2	290	220	3.0
	290	220	4.5



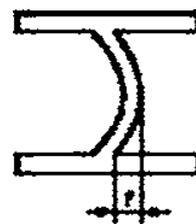
6,—

02,—

	<i>tr.</i>		
	120		1.0
	120	290	0.0156. 3.0
	290		0.0156. 4.0



<i>f</i>	<i>tr.</i>		
	120		1.0
	120	380	1.5
	380	680	2.0
	660		3.0

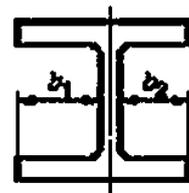
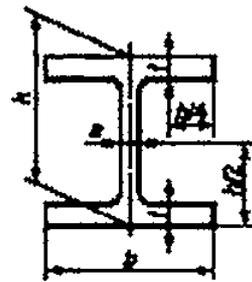


2

L	7000 7000 15000 15000	+40 +70 +100	
	L	0.2%	—
1		- ±4%	

3—

	.180 180 400	+3.0 :-2.0 +4.0 :-2.0
6	.110 210 .210 325 .325	+4.0 :-2.0 ±4.0 +6.0 :-5.0
s	10 10 20 20 40	±1.0 ±1.5 ±2.0
(	10 10 20 20 30 30 40	+2.0 :-1.0 +2.5 :-1.5 +2.5 :-2.0 ±2.5



6,—

6<sub>2</sub>—



8 ( 6\*\*2  
325 3.5  
.325 5.0

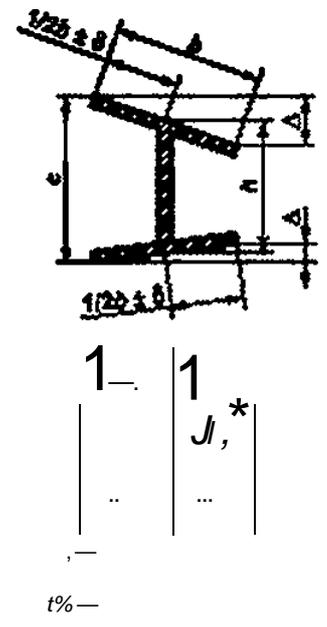
ft  
120  
.120 290 0,0156 1.0  
290 0,0156 3.0  
4.0

3

$f$	$tr.$ 120 380 680	1.0 1.5 2.0 3.0	
$L$	7000 15000	+40 +70 +100	
	$L$	0.2%	—
1		±4%	—

4 —

$h$  +4.0 ; -3.0  
 +6.0 ; -5.0  
 330 /  
 + .330  
 6  
 8  
 +6  
 5  
 ( )  
 $5 = (6, - 2 2$   
 $L$  +100  
 $L$  0.2%  
 1 -2.5%; +3.0%



6.4

3

6.5 :  
• ( ): 6. 9.10.12.15,18. 21. 24 6 24 »  
0.1 :

- ( ) 4 24 :
- ( 1);
- ( ).

6.5.1 ( 1)

5%—	1	20 :
8%—	1	20 50 ;
12%—	1	50 110 :
20%—	1	110 .

6.6

6.7

7

7.1 -

- 5 6 :
- 27772;
- 19281 — \*
- ( );
- 535.

		. %								
		Mn	Si	S.	.	V.	)	.	N.	
255	0.17	1.00	0.15-0.30	0.025	0.025	—	0.020-0.050	0.035	0.012	—
255 -1	0.22	0.65	0.15-0.30	0.025	0.025	—	0.020-0.050	0.035	0.012	—
345	0.15	1.30-1.70	0.15-0.80	0.025	0.025	0.08	0.020-0.060	0.035	0.012	0.45
345 -1	0.18	0.65	0.60—1.00	0.025	0.025	—	0.020-0.060	0.010-0.035	0.015	0.45
355	0.15	1.30—1.70	0.15—0.80	0.025	0.025	0.08	0.020-0.060	0.035	0.012	0.45
355 -1	0.18	0.65	0.60—1.00	0.025	0.025	0.10	0.020—0.060	0.010—0.035	0.015	0.45
39	0.16	1.30—1.70	0.15—0.50	0.010	0.020	0.12	0.020—0.060	0.035	0.020	0.46
440	0.17	1.30-1.70	0.15-0.50	0.010	0.015	0.14	0.020-0.060	0.035	0.020	0.46

1 1  
2  
3 «—»

(Ni). ( ). ( ) 0.30 %

6—

s

	S.		
	255	2556	C345S—C440S
	+0.02	—	+0.02
	+0.05		±0.10
Si	+0.03 -0.02		±0.05
S	+0.005		+0.005
	+0.005		+0.005
N	+0.002		+0.005
V	—		+0.02
Al	±0.010		±0.010

1 , 5 ,

2 «↔» ,

7.1.1 390 440 (Ni)

0.50 %.

7.1.2 ( ) 0.006 % , —0.003 % . -

( ) ,

7.2 255 255 -1 255 -

:

- 345 — 440 — 5:
- 345. 355, 390, 440 — 27772;
- 265. 345.355. 390, 440 ( ) —

19281;

- (« »)— 535.

7.3 :

- ( ) ;
- , ( ) .

7.4 :

- 7 — ;
- 27772 — ;
- 19281 — ( , ) , ;
- 535 — .

7.5 :

- 7 — ;
- 27772 — ;
- 19281 — ;
- 535 — .

*	1.	, « «							← 1 }
		„ / 2	<J <sub>r</sub> 2		KCV. / 2				
					* < .0				
					0	20	40	00	
255 . 255 -1	10 .	255	300	25	34	34	—	—	d*
	.10 20 .	245	370	25	34	34	—	—	d*
	.20 40 8 .	235	370	24	34	34	—	—	d-2 a
	.40 .	225	370	23	34	34	—	—	d=2a
	.100	205	360	22	34	34	—	—	d=2a
34 56. 345 -1	10 .	345	400	21	—	34	34	—	d=2
	.10 20 .	325	470	21	—	34	34	—	d=2a
	.20 40 .	305	460	21	—	34	34	—	d=2a
	.40 100 .	285	450	20	—	34	34	—	d=2a
	.100	275	440	19	—	34	34	—	d»2 a
355 . 355 -1	20 .	355	400	22	—	34	34	—	d »2a
	.20 40 .	345	470	22	—	34	34	—	d=2a
	.40 60 .	335	470	21	—	34	34	—	d=2a
	.60 00 .	325	460	20	—	34	34	—	d=2a
	.00 .	315	460	19	—	34	34	—	d=2a
	.100	295	450	10	—	34	34	—	d=2a
390	20 .	390	530	20	—	—	34	34	d=2a
	.20 40 .	375	520	20	—	—	34	34	d « 2 a
	.40 60 .	360	510	19	—	—	34	34	d « 2 a
	.60 00 .	345	500	19	—	—	34	34	d=2a
	.60 100 .	330	490	18	—	—	34	34	d=2a
	.100	315	400	10	—	—	34	34	d=2a

	1,	«							— ; )
		„ / 2	2	*	KCV. / 2				
					°				
					0	20	40	60	
44	20 .	440	590	19	—	—	34	34	*2
	.20 40 .	425	560	18	—	—	34	34	d « 2 a
	.40 60 .	410	570	17	—	—	34	34	d = 2a
	.60 60 .	395	560	17	—	—	34	34	-2
	.80 .	380	550	17	—	—	34	34	d = 2
	.100	365	540	17	—	—	34	34	d - 2 a

13 «—»  
2

60°

255

20°

390 440

7.6  
 - 7 —  
 KCV<sup>60</sup>};  
 - 535. 19281 27772 -

7.7  
 7.7.1  
 • , ;  
 - 1.5 2;  
 •

1 ( ) 1 —  
 10  
 2 ( ) 2 —  
 10 50 ;  
 3 ( ) 3 —  
 50 .

7.7.2 ( ) -  
 ( ) . ( , )  
 ( ) ( )

- 1 — 210 ;  
 - 2 — 210 325 ;  
 - 3 — 325 .  
 7.7.3 ( ) -

• 255 . 255 -1 345 ;  
 - 255 345 27772:  
 - 265 345 19281. ( ) -  
 ( ) . ( ) -  
 30 % 2% 1.5 -

7.7.4 :  
 - , , 3 ;  
 • 10 .

7.8 :  
 7.8.1 300 0.1% .  
 7.8.2 ( )  
 345 — 440 0.01% .  
 7.8.3 ( ) .  
 7.8.4 345 . 345 -1, 355 . 355 -1. 390 , 440 -  
 32 28870 (Z15. Z25 Z35). -

7.9 :  
 7.10 : « 7.8.1» .

8

8.1 — 7566 , .

8.2 ( ) , ;  
( ) .

8.3  
7566 :

• ( ) :  
• :  
• ( ) ;  
• ;  
• ( ) -  
19281. 535. ) -  
27772.

• ;  
• ( ) ( ) ;  
• ;  
• ( )

— ;  
• ;  
• ,

8.4 :  
• — 7565. 14284:  
• — 10 % ,

2/3

• — ;  
• — ;

8.4.1 ,

8.5 , ,

8.5.1 ,

8.5.2 , -

8.5.3 -

8.5.4 -

: « ».

9

9.1 12355 — 12359, 12361. 17745, 12344— 12348, 12350 — 12352.  
12356.0 — 22536.12, 27809.

28033. 28473. 50424, 51927. 4943. 54153. -

9.2 , %,

$$C + \frac{Mn}{6} + \frac{St}{24} + \frac{V}{40} + \frac{Ni}{13} + \frac{Cu}{14} + \frac{P}{2} \quad (1)$$

. Si. Cr, Ni, . V. —

9.3 —

26877.

500 ,

— 10

2.

9.4

7502

9.5

— 26877.

( )

1 .

9.6

9.7 -

\*

— 21014.

9.8

7564 ( 1).

9.8.1

-

•

•

9.9 -

9.10

1497.

9454

1. 2 3 (KCU)

10  
11.12.13 (KCV).  
9454

1 (KCU)

10  
11 (KCV).

300

9.11

14019.

9.12

— 28870.

10

1.

9.13 -

30415.

50779.10.

50779.11. [2].

10

10.1  
7566.

10.2

11

\*

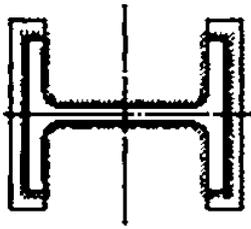
,

-

( )

.1

1-

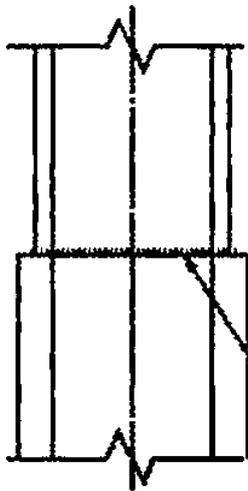


A↑

A↑

B↑

\*

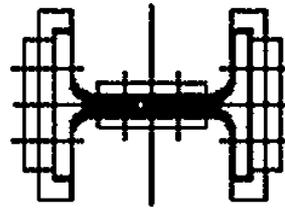


Стыковая сварная линия с ребристой поверхностью

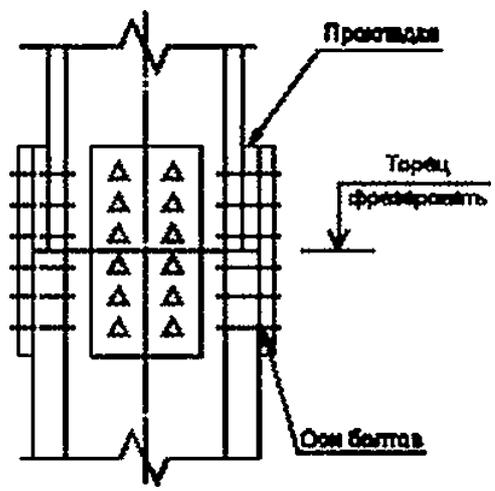
.1—

.1

2-



B↑



Прокладки

Торец фрезеровать

Оси балки

.2

( , )

{ 1)

.4

2

( )

5 , ( ), 20 1. 345,  
 27772—2015, ( ):

$$\frac{-20 \quad 1- \quad 57837-2017}{345-5 \quad 27772-2015}$$

( ) 9000 . 40 15. 355 -1. -  
 20 ° (KCV<sup>20</sup>),  
 (Z15) .8 ( ):

$$-40 \quad 15*9000- \quad 355 \quad -1- \quad KCV^{20}-Z15- \quad 57837-2017$$

40 15, 355 -1. ( ) 4000 9000 .  
 20 ° (KCV<sup>20</sup>). -  
 (Z15) , -  
 ( ):

$$-40 \quad 15 \quad (4000-9000)- \quad 355 \quad -1- \quad KCV^{17}M-Z15-KT7 \quad 7 \quad 57837-2017$$

265, 7 , 6000 ( 1). 25 1.  
 ( ) ( ) 19281—2014. -

$$\frac{1-25 \quad 1*6000- \quad 57837-2017}{265-7- \quad 19281-2014}$$

265. 09 2 . 3 6000 ( 1), 25 1.  
 19281—2014. ( ) ( )

$$\frac{1-25 \quad 1*6000- \quad 57837-2017}{265-09 \quad 2 \quad -3- \quad 19281-2014}$$

