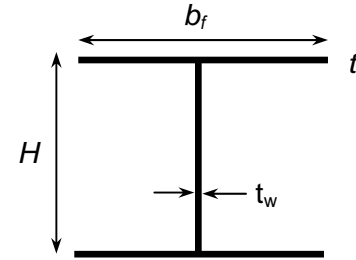


PHYSICAL PROPERTIES

H – BEAMS (PLATE WELDED)



SN	H (mm)	b_f (mm)	t_f (mm)	t_w (mm)	Weight (kg/m)	Area (mm ²)	I_{xx} (cm ⁴)	I_{yy} (cm ⁴)	Z_{xx} (cm ³)	Z_{yy} (cm ³)	R_{xx} (cm)	R_{yy} (cm)
1	200	200	6	6	28.8	3528	2590	800	259	80	8.6	4.8
	200	200	8	6	35.1	4304	3231	1067	323	107	8.7	5.0
	200	200	10	8	44.4	5440	3963	1333	396	133	8.5	5.0
	200	200	12	10	53.6	6560	4653	1600	465	160	8.4	4.9
	200	200	14	12	62.6	7664	5304	1867	530	187	8.3	4.9
2	225	225	10	8	50.1	6140	5729	1898	509	169	9.7	5.6
	225	225	12	10	60.5	7410	6747	2278	600	203	9.5	5.5
	225	225	14	12	70.7	8664	7715	2658	686	236	9.4	5.5
3	250	200	6	6	31.3	3828	4246	800	340	80	10.5	4.6
	250	200	8	6	37.6	4604	5279	1067	422	107	10.7	4.8
	250	200	10	8	47.7	5840	6514	1333	521	133	10.6	4.8
	250	200	12	10	57.6	7060	7692	1600	615	160	10.4	4.8
	250	200	14	12	67.5	8264	8814	1867	705	187	10.3	4.8
	250	200	16	14	77.2	9452	9883	2133	791	213	10.2	4.8
4	250	250	10	8	55.8	6840	7954	2604	636	208	10.8	6.2

	250	250	12	10	67.4	8260	9391	3125	751	250	10.7	6.2
	250	250	14	12	78.9	9664	10763	3646	861	292	10.6	6.1
	250	250	16	14	90.2	11052	12073	4167	966	333	10.5	6.1
	250	250	18	16	101.4	12424	13322	4688	1066	375	10.4	6.1
	250	250	20	18	112.5	13780	14511	5208	1161	417	10.3	6.1
5	250	320	10	8	67.3	8240	9970	5461	798	341	11.0	8.1
	250	320	12	10	81.2	9940	11770	6554	942	410	10.9	8.1
	250	320	16	12	105.0	12856	14879	8738	1190	546	10.8	8.2
	250	320	20	14	128.5	15740	17693	10923	1415	683	10.6	8.3
	250	320	25	16	156.7	19200	20751	13653	1660	853	10.4	8.4
6	275	225	6	6	34.9	4278	5794	1139	421	101	11.6	5.2
	275	225	8	6	42.1	5154	7228	1519	526	135	11.8	5.4
	275	225	10	8	53.4	6540	8936	1898	650	169	11.7	5.4
	275	225	12	10	64.6	7910	10573	2278	769	203	11.6	5.4
	275	225	14	12	75.6	9264	12141	2658	883	236	11.4	5.4
7	300	200	6	6	33.7	4128	6381	800	425	80	12.4	4.4
	300	200	10	6	46.4	5680	9340	1333	623	133	12.8	4.8
	300	200	10	8	50.9	6240	9790	1333	653	133	12.5	4.6
	300	200	12	10	61.7	7560	11606	1600	774	160	12.4	4.6
	300	200	14	12	72.4	8864	13350	1867	890	187	12.3	4.6
	300	200	18	14	89.0	10896	16176	2400	1078	240	12.2	4.7
	300	200	20	18	103.5	12680	18162	2667	1211	267	12.0	4.6

8	300	250	10	8	59.1	7240	11892	2604	793	208	12.8	6.0
	300	250	10	10	63.7	7800	12342	2604	823	208	12.6	5.8
	300	250	12	10	71.5	8760	14094	3125	940	250	12.7	6.0
	300	250	14	12	83.8	10264	16213	3646	1081	292	12.6	6.0
	300	250	16	14	95.9	11752	18249	4167	1217	333	12.5	6.0
	300	250	18	16	108.0	13224	20205	4688	1347	375	12.4	6.0
	300	250	20	18	119.8	14680	22082	5208	1472	417	12.3	6.0
9	325	250	6	6	39.8	4878	9165	1563	564	125	13.7	5.7
	325	250	8	6	47.8	5854	11444	2083	704	167	14.0	6.0
	325	250	10	8	60.7	7440	14196	2604	874	208	13.8	5.9
	325	250	12	10	73.6	9010	16851	3125	1037	250	13.7	5.9
	325	250	14	12	86.2	10564	19411	3646	1195	292	13.6	5.9
	325	250	16	14	98.8	12102	21879	4167	1346	333	13.4	5.9
	325	250	18	16	111.2	13624	24256	4688	1493	375	13.3	5.9
	325	250	20	18	123.5	15130	26545	5208	1634	417	13.2	5.9
10	350	250	8	7	51.7	6338	13823	2083	790	167	14.8	5.7
	350	250	10	8	62.4	7640	16730	2604	956	208	14.8	5.8
	350	250	12	8	70.3	8608	19172	3125	1096	250	14.9	6.0
	350	250	12	10	75.6	9260	19887	3125	1136	250	14.7	5.8
	350	250	14	12	88.7	10864	22938	3646	1311	292	14.5	5.8
	350	250	16	14	101.7	12452	25885	4167	1479	333	14.4	5.8
	350	250	18	16	114.5	14024	28731	4688	1642	375	14.3	5.8

14	400	200	10	8	57.5	7040	18716	1333	936	133	16.3	4.4
	400	200	12	10	69.9	8560	22315	1600	1116	160	16.1	4.3
	400	200	16	12	88.3	10816	28106	2133	1405	213	16.1	4.4
	400	200	20	16	112.3	13760	34525	2667	1726	267	15.8	4.4
	400	200	25	18	133.1	16300	40362	3333	2018	333	15.7	4.5
	400	200	32	20	159.4	19520	47069	4267	2353	427	15.5	4.7
	400	200	40	32	214.2	26240	58539	5333	2927	533	14.9	4.5
15	400	250	10	8	65.6	8040	22519	2604	1126	208	16.7	5.7
	400	250	12	10	79.7	9760	26831	3125	1342	250	16.6	5.7
	400	250	14	12	93.6	11464	31014	3646	1551	292	16.4	5.6
	400	250	16	14	107.4	13152	35070	4167	1754	333	16.3	5.6
	400	250	18	16	121.0	14824	39002	4688	1950	375	16.2	5.6
	400	250	20	18	134.5	16480	42812	5208	2141	417	16.1	5.6
	400	250	25	18	153.5	18800	49151	6510	2458	521	16.2	5.9
	400	250	32	20	185.5	22720	57903	8333	2895	667	16.0	6.1
	400	250	40	32	246.9	30240	71499	10417	3575	833	15.4	5.9
16	400	300	10	8	73.8	9040	26321	4500	1316	300	17.1	7.1
	400	300	12	10	89.5	10960	31347	5400	1567	360	16.9	7.0
	400	300	14	12	105.0	12864	36229	6300	1811	420	16.8	7.0
	400	300	16	14	120.4	14752	40969	7200	2048	480	16.7	7.0
	400	300	18	16	135.7	16624	45569	8100	2278	540	16.6	7.0
	400	300	20	18	150.9	18480	50032	9000	2502	600	16.5	7.0
	400	300	25	20	179.6	22000	59007	11250	2950	750	16.4	7.2

	400	300	32	25	225.3	27600	71403	14400	3570	960	16.1	7.2
	400	300	40	32	279.5	34240	84459	18000	4223	1200	15.7	7.3
17	400	320	10	8	77.1	9440	27842	5461	1392	341	17.2	7.6
	400	320	12	10	93.4	11440	33154	6554	1658	410	17.0	7.6
	400	320	16	12	119.7	14656	42261	8738	2113	546	17.0	7.7
	400	320	20	16	151.5	18560	51853	10923	2593	683	16.7	7.7
	400	320	25	18	182.1	22300	61455	13653	3073	853	16.6	7.8
	400	320	32	22	227.5	27872	74137	17476	3707	1092	16.3	7.9
	400	320	40	25	274.3	33600	85909	21845	4295	1365	16.0	8.1
	400	320	40	32	292.6	35840	89643	21845	4482	1365	15.8	7.8
18	425	325	10	8	79.5	9740	32243	5721	1517	352	18.2	7.7
	425	325	12	10	96.4	11810	38430	6866	1808	423	18.0	7.6
	425	325	14	12	113.2	13864	44451	8010	2092	493	17.9	7.6
	425	325	16	14	129.8	15902	50308	9154	2367	563	17.8	7.6
	425	325	18	16	146.3	17924	56004	10298	2635	634	17.7	7.6
19	450	200	10	8	60.7	7440	24467	1333	1087	133	18.1	4.2
	450	200	12	8	67.0	8208	27715	1600	1232	160	18.4	4.4
	450	200	16	8	79.6	9744	33801	2133	1502	213	18.6	4.7
	450	200	16	12	93.2	11416	36839	2133	1637	213	18.0	4.3
	450	200	18	12	99.3	12168	39682	2400	1764	240	18.1	4.4
	450	200	20	14	112.2	13740	43913	2667	1952	267	17.9	4.4
	450	200	25	18	140.4	17200	53180	3333	2364	333	17.6	4.4

	450	200	32	25	183.3	22450	65950	4267	2931	427	17.1	4.4
	450	200	40	32	227.3	27840	78092	5333	3471	533	16.7	4.4
20	450	250	14	10	91.6	11220	38998	3646	1733	292	18.6	5.7
	450	250	14	12	98.5	12064	40516	3646	1801	292	18.3	5.5
	450	250	16	14	113.1	13852	45891	4167	2040	333	18.2	5.5
	450	250	18	16	127.6	15624	51117	4688	2272	375	18.1	5.5
	450	250	20	18	141.9	17380	56196	5208	2498	417	18.0	5.5
	450	250	25	20	167.4	20500	65988	6510	2933	521	17.9	5.6
	450	250	32	22	200.0	24492	77650	8333	3451	667	17.8	5.8
21	450	320	10	8	80.3	9840	36083	5461	1604	341	19.1	7.4
	450	320	12	10	97.5	11940	43047	6554	1913	410	19.0	7.4
	450	320	16	12	124.5	15256	54921	8738	2441	546	19.0	7.6
	450	320	20	14	151.4	18540	66101	10923	2938	683	18.9	7.7
	450	320	25	20	195.9	24000	81793	13653	3635	853	18.5	7.5
	450	320	32	25	246.0	30130	99497	17476	4422	1092	18.2	7.6
	450	320	40	32	305.7	37440	118436	21845	5264	1365	17.8	7.6
22	450	350	10	8	85.2	10440	38987	7146	1733	408	19.3	8.3
	450	350	12	10	103.4	12660	46500	8575	2067	490	19.2	8.2
	450	350	14	12	121.3	14864	53823	10004	2392	572	19.0	8.2
	450	350	16	14	139.2	17052	60960	11433	2709	653	18.9	8.2
	450	350	18	16	156.9	19224	67913	12863	3018	735	18.8	8.2
	450	350	20	18	174.5	21380	74686	14292	3319	817	18.7	8.2

	450	350	25	20	208.2	25500	88566	17865	3936	1021	18.6	8.4
	450	350	32	22	252.2	30892	105606	22867	4694	1307	18.5	8.6
23	475	375	10	8	90.9	11140	46606	8789	1962	469	20.5	8.9
	475	375	12	10	110.3	13510	55621	10547	2342	563	20.3	8.8
	475	375	16	12	141.4	17316	71225	14063	2999	750	20.3	9.0
	475	375	20	14	172.2	21090	85997	17578	3621	938	20.2	9.1
	475	375	25	20	222.5	27250	106456	21973	4482	1172	19.8	9.0
	475	375	32	25	279.8	34275	130029	28125	5475	1500	19.5	9.1
	475	375	40	32	348.1	42640	155360	35156	6541	1875	19.1	9.1
24	500	200	10	8	64.0	7840	31143	1333	1246	133	19.9	4.1
	500	200	12	10	78.0	9560	37279	1600	1491	160	19.7	4.1
	500	200	14	10	84.3	10320	41169	1867	1647	187	20.0	4.3
	500	200	16	10	90.5	11080	44899	2133	1796	213	20.1	4.4
	500	200	14	8	76.5	9376	39086	1867	1563	187	20.4	4.5
	500	200	16	10	90.5	11080	44899	2133	1796	213	20.1	4.4
	500	200	18	12	104.2	12768	50555	2400	2022	240	19.9	4.3
25	500	250	10	8	72.2	8840	37145	2604	1486	208	20.5	5.4
	500	250	12	10	87.8	10760	44424	3125	1777	250	20.3	5.4
	500	250	14	10	95.7	11720	49436	3646	1977	292	20.5	5.6
	500	250	16	12	111.2	13616	56353	4167	2254	333	20.3	5.5
	500	250	20	10	119.2	14600	63409	5208	2536	417	20.8	6.0
	500	250	25	18	168.2	20600	82207	6510	3288	521	20.0	5.6

	500	250	32	25	219.6	26900	102437	8333	4097	667	19.5	5.6
	500	250	40	32	273.0	33440	122205	10417	4888	833	19.1	5.6
26	500	350	10	8	88.5	10840	49150	7146	1966	408	21.3	8.1
	500	350	12	10	107.4	13160	58712	8575	2348	490	21.1	8.1
	500	350	14	12	126.2	15464	68053	10004	2722	572	21.0	8.0
	500	350	16	14	144.9	17752	77177	11433	3087	653	20.9	8.0
	500	350	18	16	163.5	20024	86085	12863	3443	735	20.7	8.0
	500	350	20	18	181.9	22280	94782	14292	3791	817	20.6	8.0
	500	350	25	20	216.3	26500	112493	17865	4500	1021	20.6	8.2
	500	350	32	25	271.9	33300	137481	22867	5499	1307	20.3	8.3
27	500	400	10	8	96.7	11840	55153	10667	2206	533	21.6	9.5
	500	400	12	10	117.2	14360	65857	12800	2634	640	21.4	9.4
	500	400	16	12	150.3	18416	84463	17067	3379	853	21.4	9.6
	500	400	18	14	170.6	20896	94456	19200	3778	960	21.3	9.6
	500	400	20	16	190.7	23360	104219	21333	4169	1067	21.1	9.6
	500	400	25	20	236.8	29000	126595	26667	5064	1333	20.9	9.6
	500	400	32	25	298.0	36500	155003	34133	6200	1707	20.6	9.7
	500	400	40	32	371.0	45440	185685	42667	7427	2133	20.2	9.7
28	550	250	10	8	75.4	9240	46084	2604	1676	208	22.3	5.3
	550	250	12	10	91.9	11260	55197	3125	2007	250	22.1	5.3
	550	250	16	10	107.6	13180	67246	4167	2445	333	22.6	5.6
	550	250	18	10	115.4	14140	72960	4688	2653	375	22.7	5.8

	550	250	18	14	132.2	16196	78506	4688	2855	375	22.0	5.4
	550	250	20	16	148.3	18160	86790	5208	3156	417	21.9	5.4
	550	250	25	20	183.7	22500	105249	6510	3827	521	21.6	5.4
	550	250	32	25	229.8	28150	128253	8333	4664	667	21.3	5.4
	550	250	40	32	286.1	35040	153609	10417	5586	833	20.9	5.5
29	533	210	14	10	89.2	10930	49575	2161	1860	206	21.3	4.4
	533	210	16	10	95.8	11730	54102	2470	2030	235	21.5	4.6
	533	210	18	10	102.3	12530	58449	2778	2193	265	21.6	4.7
	533	210	18	12	110.4	13524	60973	2778	2288	265	21.2	4.5
	533	210	20	12	116.9	14316	65144	3087	2444	294	21.3	4.6
	533	210	22	12	123.3	15108	69142	3396	2594	323	21.4	4.7
30	550	400	10	8	99.9	12240	67954	10667	2471	533	23.6	9.3
	550	400	12	10	121.3	14860	81247	12800	2954	640	23.4	9.3
	550	400	16	12	155.2	19016	104237	17067	3790	853	23.4	9.5
	550	400	16	14	163.7	20052	107010	17067	3891	853	23.1	9.2
	550	400	20	16	197.2	24160	128925	21333	4688	1067	23.1	9.4
	550	400	25	20	244.9	30000	156928	26667	5706	1333	22.9	9.4
	550	400	32	25	308.2	37750	192651	34133	7005	1707	22.6	9.5
	550	400	40	32	384.0	47040	231639	42667	8423	2133	22.2	9.5
31	600	210	16	10	101.2	12400	70932	2470	2364	235	23.9	4.5
	600	210	18	12	117.0	14328	80132	2778	2671	265	23.6	4.4
	600	210	20	12	123.4	15120	85516	3087	2851	294	23.8	4.5

46	800	600	20	18	307.6	37680	429672	72000	10742	2400	33.8	13.8
	800	600	25	20	367.4	45000	517033	90000	12926	3000	33.9	14.1
	800	600	32	25	463.7	56800	642699	115200	16067	3840	33.6	14.2
	800	600	40	32	580.0	71040	783445	144000	19586	4800	33.2	14.2
47	825	500	12	10	163.4	20010	240325	25000	5826	1000	34.7	11.2
	825	500	14	12	192.4	23564	279908	29167	6786	1167	34.5	11.1
	825	500	16	14	221.3	27102	318925	33333	7732	1333	34.3	11.1
	825	500	18	16	250.0	30624	357381	37500	8664	1500	34.2	11.1
48	850	500	18	15	246.6	30210	377052	37500	8872	1500	35.3	11.1
	850	500	20	18	282.3	34580	422791	41667	9948	1667	35.0	11.0
	850	500	25	20	334.7	41000	506475	52083	11917	2083	35.1	11.3
	850	500	32	25	421.7	51650	628983	66667	14800	2667	34.9	11.4
	850	500	40	32	527.7	64640	767379	83333	18056	3333	34.5	11.4
49	875	500	18	15	249.7	30585	402344	37500	9196	1500	36.3	11.1
50	900	300	20	14	196.3	24040	301882	9000	6708	600	35.4	6.1
	900	300	30	16	256.7	31440	403745	13500	8972	900	35.8	6.6
	900	300	32	18	279.6	34248	432418	14400	9609	960	35.5	6.5
	900	300	40	20	329.8	40400	506092	18000	11246	1200	35.4	6.7
51	900	500	10	8	139.1	17040	242665	20833	5393	833	37.7	11.1
	900	500	12	10	169.5	20760	291636	25000	6481	1000	37.5	11.0

	900	500	14	12	199.7	24464	339956	29167	7555	1167	37.3	10.9
	900	500	16	14	229.8	28152	387630	33333	8614	1333	37.1	10.9
	900	500	18	16	259.8	31824	434663	37500	9659	1500	37.0	10.9
	900	500	20	18	289.7	35480	481062	41667	10690	1667	36.8	10.8
	900	500	22	15	284.4	34840	496456	45833	11032	1833	37.7	11.5
	900	500	25	20	342.9	42000	576090	52083	12802	2083	37.0	11.1
	900	500	32	25	431.9	52900	716039	66667	15912	2667	36.8	11.2
	900	500	40	32	540.8	66240	874832	83333	19441	3333	36.3	11.2
52	925	500	22	15	287.5	35215	527674	45833	11409	1833	38.7	11.4
53	950	525	10	8	146.5	17940	284685	24117	5993	919	39.8	11.6
	950	525	12	10	178.5	21860	342264	28941	7206	1103	39.6	11.5
	950	525	14	12	210.3	25764	399117	33764	8402	1286	39.4	11.4
	950	525	16	14	242.1	29652	455250	38588	9584	1470	39.2	11.4
	950	525	18	16	273.7	33524	510670	43411	10751	1654	39.0	11.4
	950	525	20	18	305.2	37380	565381	48234	11903	1838	38.9	11.4
	950	525	22	18	321.7	39408	605099	53058	12739	2021	39.2	11.6
	950	525	25	22	376.0	46050	691951	60293	14567	2297	38.8	11.4
	950	525	32	25	455.1	55750	843360	77175	17755	2940	38.9	11.8
	950	525	40	32	570.2	69840	1031890	96469	21724	3675	38.4	11.8
	975	525	22	18	325.4	39858	641541	53058	13160	2021	40.1	11.5
54	1000	550	12	10	187.4	22960	398433	33275	7969	1210	41.7	12.0
	1000	550	14	10	205.1	25120	448101	38821	8962	1412	42.2	12.4

	1000	550	14	12	221.0	27064	464768	38821	9295	1412	41.4	12.0
	1000	550	16	14	254.3	31152	530306	44367	10606	1613	41.3	11.9
	1000	550	18	16	287.6	35224	595052	49913	11901	1815	41.1	11.9
	1000	550	20	18	320.7	39280	659012	55458	13180	2017	41.0	11.9
	1000	550	22	20	353.7	43320	722193	61004	14444	2218	40.8	11.9
	1000	550	25	22	395.1	48400	807181	69323	16144	2521	40.8	12.0
	1000	550	32	25	478.4	58600	984939	88733	19699	3227	41.0	12.3
	1000	550	40	32	599.6	73440	1206699	110917	24134	4033	40.5	12.3
55	1025	550	22	20	357.7	43820	763772	61004	14903	2218	41.7	11.8
	1050	575	22	20	370.8	45420	835779	69707	15920	2425	42.9	12.4
	1075	575	22	20	374.9	45920	881538	69707	16401	2425	43.8	12.3
56	1100	600	12	10	205.4	25160	528542	43200	9610	1440	45.8	13.1
	1100	600	14	10	224.7	27520	594705	50400	10813	1680	46.5	13.5
	1100	600	14	12	242.2	29664	616888	50400	11216	1680	45.6	13.0
	1100	600	16	14	278.8	34152	704269	57600	12805	1920	45.4	13.0
	1100	600	18	16	315.3	38624	790692	64800	14376	2160	45.2	13.0
	1100	600	20	18	351.7	43080	876162	72000	15930	2400	45.1	12.9
	1100	600	25	20	416.4	51000	1052439	90000	19135	3000	45.4	13.3
	1100	600	32	25	524.9	64300	1313891	115200	23889	3840	45.2	13.4
	1100	600	40	32	658.3	80640	1613365	144000	29334	4800	44.7	13.4
57	1125	620	25	20	428.6	52500	1137242	99303	20218	3203	46.5	13.8
	1150	630	25	22	454.7	55700	1235956	104186	21495	3308	47.1	13.7

	1175	640	25	22	463.3	56750	1314082	109227	22367	3413	48.1	13.9
58	1200	650	12	10	223.4	27360	684262	54925	11404	1690	50.0	14.2
	1200	650	14	10	244.3	29920	770217	64079	12837	1972	50.7	14.6
	1200	650	14	12	263.4	32264	799017	64079	13317	1972	49.8	14.1
	1200	650	16	14	303.3	37152	912621	73233	15210	2253	49.6	14.0
	1200	650	18	16	343.1	42024	1025084	82388	17085	2535	49.4	14.0
	1200	650	20	18	382.7	46880	1136412	91542	18940	2817	49.2	14.0
	1200	650	25	25	500.0	61250	1438613	114427	23977	3521	48.5	13.7
	1200	650	32	25	571.5	70000	1708945	146467	28482	4507	49.4	14.5
	1200	650	40	32	717.1	87840	2102432	183083	35041	5633	48.9	14.4
59	1225	660	25	25	509.2	62375	1525972	119790	24914	3630	49.5	13.9
	1250	675	25	25	520.5	63750	1626159	128145	26019	3797	50.5	14.2
	1275	680	25	25	527.6	64625	1711104	131013	26841	3853	51.5	14.2
60	1300	700	12	10	241.3	29560	867895	68600	13352	1960	54.2	15.2
	1300	700	14	10	263.9	32320	977236	80033	15034	2287	55.0	15.7
	1300	700	14	12	284.6	34864	1013853	80033	15598	2287	53.9	15.2
	1300	700	16	14	327.8	40152	1158461	91467	17822	2613	53.7	15.1
	1300	700	18	16	370.8	45424	1301728	102900	20027	2940	53.5	15.1
	1300	700	20	18	413.8	50680	1443662	114333	22210	3267	53.4	15.0
	1300	700	25	25	540.9	66250	1829329	142917	28144	4083	52.5	14.7
	1300	700	32	25	618.0	75700	2176151	182933	33479	5227	53.6	15.5
	1300	700	40	32	775.9	95040	2681499	228667	41254	6533	53.1	15.5

61	1325	720	30	25	610.9	74825	2220347	186624	33515	5184	54.5	15.8
	1350	730	32	25	643.9	78870	2452598	207476	36335	5684	55.8	16.2
	1375	740	32	25	654.2	80135	2584759	216119	37596	5841	56.8	16.4
62	1400	750	12	10	259.3	31760	1081740	84375	15453	2250	58.4	16.3
	1400	750	14	10	283.5	34720	1218364	98438	17405	2625	59.2	16.8
	1400	750	14	12	305.9	37464	1264097	98438	18059	2625	58.1	16.2
	1400	750	16	14	352.3	43152	1444889	112500	20641	3000	57.9	16.1
	1400	750	18	16	398.6	48824	1624125	126563	23202	3375	57.7	16.1
	1400	750	20	18	444.8	54480	1801812	140625	25740	3750	57.5	16.1
	1400	750	25	25	581.7	71250	2285046	175781	32644	4688	56.6	15.7
	1400	750	32	25	664.5	81400	2721559	225000	38879	6000	57.8	16.6
	1400	750	40	32	834.7	102240	3358165	281250	47974	7500	57.3	16.6
63	1425	760	40	32	847.7	103840	3533882	292651	49598	7701	58.3	16.8
	1450	770	32	25	685.2	83930	3009393	243484	41509	6324	59.9	17.0
	1475	780	32	25	695.5	85195	3160587	253094	42855	6490	60.9	17.2
64	1500	800	12	10	277.2	33960	1328097	102400	17708	2560	62.5	17.4
	1500	800	14	10	303.0	37120	1496199	119467	19949	2987	63.5	17.9
	1500	800	14	12	327.1	40064	1552449	119467	20699	2987	62.2	17.3
	1500	800	16	14	376.8	46152	1775005	136533	23667	3413	62.0	17.2
	1500	800	18	16	426.4	52224	1995773	153600	26610	3840	61.8	17.1
	1500	800	20	18	475.8	58280	2214762	170667	29530	4267	61.6	17.1

	1500	800	25	25	622.5	76250	2810762	213333	37477	5333	60.7	16.7
	1500	800	32	25	711.1	87100	3351218	273067	44683	6827	62.0	17.7
	1500	800	40	32	893.5	109440	4140032	341333	55200	8533	61.5	17.7

Yield Stress of Material = 2400 kg/cm^2 & 3400 kg/cm^2

Young's Modulus = 200 GPa