

IPN									FOR THE FLEXURE AXIS							
Design <i>I</i>	<i>h</i>	<i>b</i>	<i>s = r<sub>1</sub></i>	<i>t</i>	<i>r<sub>2</sub></i>	<i>F</i> cm <sup>2</sup>	<i>G</i> kg/m	<i>U</i> m <sup>2</sup> /m	X-X			Y-Y			<i>S<sub>x</sub></i> cm <sup>3</sup>	<i>s<sub>x</sub></i> cm
									<i>J<sub>x</sub></i> cm <sup>4</sup>	<i>W</i> cm <sup>3</sup>	<i>i<sub>x</sub></i> cm	<i>J<sub>y</sub></i> cm <sup>4</sup>	<i>W<sub>x</sub></i> cm <sup>3</sup>	<i>I<sub>y</sub>=i<sub>1</sub></i> cm		
80	80	42	3.9	5.9	2.3	7.57	5.94	0.3	77.8	19.5	3.2	6.29	3	0.91	11.4	6.84
100	100	50	4.5	6.8	2.7	10.6	8.34	0.37	171	34.2	4.01	12.2	4.88	1.07	19.9	8.57
120	120	58	5.1	7.7	3.1	14.20	11.10	0.4	328	54.7	4.8	21.50	7	1.23	31.8	10.30
140	140	66	5.7	8.6	3.4	18.2	14.30	0.50	573	81.9	5.61	35.2	10.70	1.40	47.7	12.00
160	160	74	6.3	9.5	3.8	22.80	17.90	0.6	935	117	6.4	54.70	15	1.55	68.0	13.70
180	180	82	6.9	10.4	4.1	27.9	21.90	0.64	1,450	161	7.20	81.3	19.80	1.71	93.4	15.50
200	200	90	7.5	11.3	4.5	33.40	26.20	0.7	2,140	214	8.0	117.00	26	1.87	125.0	17.20
220	220	98	8.1	12.2	4.9	39.5	31.10	0.78	3,060	278	8.80	162.0	33.10	2.02	162.0	18.90
240	240	106	8.7	13.1	5.2	46.10	36.20	0.8	4,250	354	9.6	221.00	42	2.20	206.0	20.60
260	260	113	9.4	14.1	5.6	53.3	41.90	0.91	5,740	442	10.40	288.0	51.00	2.32	257.0	22.30
280	280	119	10.1	15.2	6.1	61.00	47.90	1.0	7,590	542	11.1	364.00	61	2.45	316.0	24.00
300	300	125	10.8	16.2	6.5	69.0	54.20	1.03	9,800	653	11.90	451.0	72.20	2.56	381.0	25.70
320	320	131	11.5	17.3	6.9	77.70	61.00	1.1	12,510	782	12.7	555.00	85	2.67	457.0	27.40
340	340	137	12.2	18.3	7.3	86.7	68.00	1.15	15,700	923	13.50	674.0	98.40	280.00	540.0	29.10
360	360	143	13.0	19.5	7.8	97.00	76.10	1.2	19,610	1,090	14.2	818.00	114	2.90	638.0	30.70
380	380	149	13.7	20.5	8.2	107.0	84.00	1.27	24,010	1,260	15.00	3.0	131.00	3.02	741.0	32.40
400	400	155	14.4	21.6	8.6	118.00	92.40	1.3	29,210	1,460	15.7	3.13	149	3.13	857.0	34.10
425	425	163	15.3	23.0	9.2	132.0	104.00	1.41	36,970	1,740	16.70	1,440.0	176.00	3.30	1,020.0	36.20
450	450	170	16.2	24.3	9.7	147.00	115.00	1.5	45,850	2,040	17.7	1,730.00	203	3.43	1,200.0	28.30
475	475	178	17.1	25.6	10.3	163.0	128.00	1.55	56,480	2,380	18.60	2,090.0	235.00	3.60	1,400.0	40.40
500	500	185	18.0	27.0	10.8	179.00	141.00	1.6	68,740	2,750	19.6	2,480.00	268	3.72	1,620.0	42.40
550	550	200	19.0	30.0	11.9	212.0	166.00	1.80	99,180	3,610	21.60	3,490.0	349.00	4.02	2,120.0	46.80
600	600	215	21.6	32.4	13.0	254.00	199.00	1.9	139,000	4,630	23.4	4,670.00	434	4.30	2,730.0	50.90

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