

TIME MINS	VERTICAL DEFLECTION IN MM						
	O/F	INSIDE FURNACE					O/F
	D6	D1	D2	D3	D4	D5	D7
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.5	0.00	0.00	0.11	0.09	-0.01	0.00	0.00
3.0	0.00	0.04	0.57	0.59	0.37	-0.01	0.00
3.5	0.00	0.16	1.12	1.25	0.92	0.13	0.00
4.0	0.00	0.45	1.73	1.96	1.54	0.34	0.00
4.5	0.05	0.74	2.34	2.69	2.16	0.56	0.00
5.0	0.14	0.99	2.94	3.41	2.79	0.77	0.01
5.5	0.23	1.22	3.51	4.07	3.35	0.99	0.10
6.0	0.31	1.44	4.07	4.77	3.92	1.20	0.17
6.5	0.41	1.65	4.62	5.41	4.48	1.38	0.25
7.0	0.52	1.87	5.22	6.12	5.05	1.63	0.33
7.5	0.63	2.11	5.82	6.81	5.62	1.81	0.42
8.0	0.73	2.38	6.40	7.56	6.25	2.01	0.52
8.5	0.84	2.66	7.02	8.38	6.90	2.23	0.61
9.0	0.97	2.94	7.59	9.15	7.54	2.46	0.71
9.5	1.09	3.22	8.31	9.98	8.21	2.70	0.81
10.0	1.23	3.57	9.13	10.91	8.98	2.95	0.95
10.5	1.36	3.86	9.87	11.77	9.70	3.21	1.06
11.0	1.49	4.19	10.68	12.66	10.44	3.47	1.17
11.5	1.63	4.50	11.63	13.60	11.20	3.77	1.32
12.0	1.78	4.85	12.63	14.62	12.04	4.09	1.45
12.5	1.93	5.24	13.59	15.62	12.89	4.40	1.60
13.0	2.07	5.59	14.41	16.68	13.73	4.72	1.73
13.5	2.25	5.95	15.21	17.73	14.60	5.07	1.87
14.0	2.40	6.36	16.16	18.90	15.59	5.42	2.02
14.5	2.56	6.75	17.21	20.11	16.61	5.84	2.19
15.0	2.72	7.19	18.24	21.33	17.63	6.23	2.35
15.5	2.90	7.61	19.34	22.65	18.73	6.70	2.55
16.0	3.10	8.05	20.43	23.94	19.80	7.09	2.69
16.5	3.26	8.47	21.52	25.21	20.88	7.53	2.87
17.0	3.44	8.90	22.58	26.46	21.92	7.94	3.03
17.5	3.63	9.34	23.62	27.68	22.94	8.33	3.17
18.0	3.80	9.76	24.73	28.97	24.00	8.72	3.33
18.5	3.98	10.19	25.79	30.22	25.02	9.15	3.48
19.0	4.16	10.60	26.85	31.51	26.09	9.60	3.65
19.5	4.32	11.02	27.85	32.74	27.07	10.00	3.82
20.0	4.47	11.41	28.88	33.95	28.04	10.40	4.00
20.5	4.64	11.82	29.95	35.16	29.00	10.81	4.15
21.0	4.79	12.21	31.05	36.34	29.95	11.19	4.31
21.5	4.94	12.62	32.21	37.58	30.99	11.60	4.48
22.0	5.08	13.01	33.26	38.72	31.94	11.97	4.62
22.5	5.23	13.34	34.24	39.91	32.91	12.36	4.78
23.0	5.40	13.72	35.18	41.04	33.88	12.76	4.93
23.5	5.52	14.11	36.05	42.10	34.76	13.08	5.06
24.0	5.65	14.40	36.89	43.12	35.62	13.40	5.21
24.5	5.78	14.76	37.75	44.14	36.48	13.74	5.33
25.0	5.89	15.03	38.57	45.13	37.38	14.10	5.47
25.5	6.00	15.30	39.35	46.12	38.23	14.44	5.61
26.0	6.09	15.65	40.07	47.03	39.00	14.80	5.72
26.5	6.19	15.92	40.81	47.98	39.82	15.11	5.84
27.0	6.28	16.16	41.51	48.83	40.53	15.42	5.95
27.5	6.37	16.44	42.20	49.67	41.27	15.72	6.09
28.0	6.46	16.68	42.84	50.48	41.96	16.00	6.20
28.5	6.55	16.93	43.49	51.26	42.61	16.24	6.30
29.0	6.66	17.26	44.37	52.28	43.45	16.53	6.41
29.5	6.72	17.51	44.94	53.00	44.07	16.79	6.49
30.0	6.82	17.75	45.61	53.77	44.72	17.03	6.59
30.5	6.89	17.93	46.13	54.39	45.23	17.24	6.66
31.0	6.95	18.10	46.63	54.99	45.74	17.43	6.72
31.5	7.03	18.26	47.14	55.57	46.25	17.61	6.80

Vertical Deflection of the Beam Measured from the Upper Flange Table 1.1

32.0	7.10	18.50	47.64	56.15	46.70	17.78	6.87
32.5	7.15	18.66	48.10	56.68	47.13	17.92	6.93
33.0	7.21	18.81	48.54	57.20	47.58	18.10	6.98
33.5	7.26	18.93	48.90	57.64	47.95	18.22	7.04
34.0	7.31	19.03	49.25	58.06	48.31	18.38	7.11
34.5	7.36	19.16	49.62	58.53	48.69	18.49	7.18
35.0	7.40	19.26	49.93	58.92	49.04	18.64	7.23
35.5	7.43	19.41	50.20	59.27	49.35	18.74	7.27
36.0	7.47	19.51	50.50	59.66	49.71	18.84	7.30
36.5	7.51	19.56	50.76	59.99	49.99	18.93	7.36
37.0	7.54	19.67	51.04	60.36	50.28	19.06	7.41
37.5	7.58	19.76	51.34	60.76	50.64	19.13	7.47
38.0	7.63	19.87	51.67	61.18	51.01	19.31	7.52
38.5	7.67	19.96	51.99	61.60	51.37	19.42	7.57
39.0	7.72	20.09	52.36	62.09	51.77	19.56	7.62
39.5	7.77	20.20	52.68	62.49	52.09	19.61	7.68
40.0	7.81	20.33	52.95	62.84	52.40	19.75	7.74
40.5	7.86	20.46	53.40	63.44	52.91	19.98	7.81
41.0	7.96	20.66	53.99	64.22	53.52	20.21	7.91
41.5	8.05	20.86	54.60	64.98	54.21	20.47	8.03
42.0	8.14	21.05	55.13	65.66	54.76	20.65	8.11
42.5	8.22	21.25	55.70	66.37	55.36	20.87	8.21
43.0	8.31	21.42	56.27	67.08	55.98	21.09	8.30
43.5	8.41	21.66	56.88	67.83	56.62	21.35	8.40
44.0	8.48	21.86	57.48	68.59	57.24	21.55	8.49
44.5	8.59	22.09	58.22	69.42	57.96	21.81	8.61
45.0	8.70	22.33	58.85	70.25	58.64	22.10	8.73
45.5	8.82	22.57	59.56	71.13	59.36	22.38	8.83
46.0	8.94	22.81	60.29	72.07	60.10	22.64	8.96
46.5	9.07	23.10	61.10	73.05	60.90	23.00	9.07
47.0	9.19	23.37	61.80	73.94	61.64	23.29	9.18
47.5	9.32	23.65	62.61	74.93	62.42	23.56	9.31
48.0	9.45	23.91	63.43	75.95	63.23	23.82	9.43
48.5	9.58	24.21	64.23	76.99	63.99	24.20	9.55
49.0	9.70	24.48	64.96	77.89	64.70	24.49	9.66
49.5	9.82	24.74	65.70	78.87	65.45	24.74	9.81
50.0	9.98	25.07	66.58	79.95	66.32	25.02	9.94
50.5	10.14	25.42	67.46	81.04	67.17	25.32	10.05
51.0	10.27	25.74	68.31	82.19	68.07	25.68	10.17
51.5	10.41	26.08	69.16	83.31	68.96	25.98	10.29
52.0	10.61	26.52	70.42	84.85	70.20	26.40	10.47
52.5	10.81	27.01	71.78	86.49	71.47	26.85	10.64
53.0	10.99	27.46	73.14	88.15	72.78	27.32	10.83
53.5	11.20	27.94	74.52	89.84	74.14	27.84	11.02
54.0	11.37	28.40	75.75	91.35	75.34	28.26	11.18
54.5	11.52	28.83	76.94	92.80	76.55	28.71	11.36
55.0	11.70	29.28	78.20	94.36	77.82	29.14	11.54
55.5	11.86	29.66	79.40	95.83	79.06	29.59	11.70
56.0	12.03	30.10	80.63	97.30	80.29	29.97	11.86
56.5	12.19	30.51	81.85	98.80	81.51	30.47	12.05
57.0	12.39	30.99	83.16	100.37	82.82	30.92	12.23
57.5	12.57	31.44	84.40	101.91	84.04	31.30	12.36
58.0	12.74	31.87	85.66	103.43	85.30	31.70	12.55
58.5	12.91	32.29	86.79	104.81	86.44	32.15	12.69
59.0	13.07	32.62	87.88	106.15	87.56	32.53	12.83
59.5	13.23	33.02	89.00	107.50	88.68	32.83	12.98
60.0	13.45	33.51	90.48	109.31	90.15	33.34	13.19
60.5	13.62	33.98	91.76	110.87	91.41	33.77	13.34
61.0	13.81	34.46	93.21	112.59	92.81	34.23	13.52
61.5	13.95	34.81	94.40	114.05	93.96	34.58	13.64
62.0	14.11	35.24	95.61	115.47	95.06	34.90	13.77
62.5	14.26	35.59	96.73	116.79	96.08	35.20	13.87
63.0	14.41	35.96	97.94	118.18	97.10	35.50	13.99
63.5	14.53	36.34	99.07	119.53	98.15	35.80	14.09
64.0	14.64	36.63	100.08	120.84	99.18	36.06	14.21
64.5	14.75	36.90	100.95	121.98	100.11	36.41	14.33
65.0	14.85	37.13	101.86	123.09	101.00	36.66	14.42
65.5	14.94	37.41	102.73	124.15	101.85	36.88	14.52
66.0	15.01	37.63	103.62	125.13	102.70	37.13	14.60
66.5	15.07	37.79	104.33	126.07	103.42	37.31	14.67

**Vertical Deflection of the Beam Measured from the Upper Flange Table 1.1**

67.0	15.13	37.98	105.01	126.92	104.14	37.47	14.73
67.5	15.17	38.10	105.60	127.85	104.78	37.68	14.81
68.0	15.23	38.20	106.16	128.57	105.41	37.83	14.88
68.5	15.25	38.29	106.62	129.29	105.96	37.96	14.91
69.0	15.28	38.33	107.15	129.90	106.49	38.06	14.94
69.5	15.51	38.97	109.39	132.88	108.81	38.78	15.19
70.0	15.71	39.57	112.04	136.16	111.50	39.49	15.52
70.5	15.82	39.89	113.92	138.72	113.51	39.93	15.63
71.0	15.85	40.01	115.40	140.80	115.09	40.00	15.63
71.5	15.86	40.07	116.71	142.54	116.40	40.01	15.63
72.0	15.86	40.11	117.92	144.24	117.57	40.01	15.63
72.5	15.86	40.11	118.99	145.76	118.64	39.86	15.63
73.0	15.86	40.11	119.98	147.21	119.68	39.68	15.62
73.5	15.86	40.11	121.01	148.64	120.72	39.48	15.48
74.0	15.75	40.11	122.03	150.01	121.69	39.30	15.32
74.5	15.67	40.11	122.96	151.27	122.66	39.19	15.18
75.0	15.58	40.11	123.86	152.44	123.58	39.00	15.07
75.5	15.49	40.04	124.59	153.52	124.39	38.90	14.94
76.0	15.42	40.02	125.30	154.52	125.12	38.79	14.86
76.5	15.34	40.02	126.00	155.50	125.84	38.70	14.75
77.0	15.28	40.02	126.63	156.34	126.45	38.53	14.67
77.5	15.22	40.02	127.25	157.15	127.04	38.49	14.60
78.0	15.16	40.02	127.88	157.94	127.62	38.40	14.54
78.5	15.11	40.02	128.45	158.68	128.21	38.40	14.50
79.0	15.06	40.02	129.00	159.36	128.74	38.39	14.44
79.5	15.01	40.02	129.54	160.09	129.24	38.33	14.38
80.0	14.98	40.02	130.07	160.78	129.75	38.28	14.33
80.5	14.94	40.02	130.50	161.37	130.21	38.27	14.29
81.0	14.89	40.02	130.87	161.86	130.61	38.26	14.26
81.5	14.85	40.02	131.31	162.37	131.02	38.24	14.23
82.0	14.81	40.02	131.75	162.93	131.41	38.22	14.20
82.5	14.79	40.02	132.14	163.44	131.81	38.23	14.19
83.0	14.75	40.12	132.59	163.93	132.19	38.23	14.17
83.5	14.74	40.12	132.98	164.43	132.54	38.23	14.14
84.0	14.72	40.11	133.37	164.91	132.94	38.23	14.12
84.5	14.66	40.12	133.70	165.39	133.29	38.23	14.11
85.0	14.65	40.11	134.03	165.84	133.67	38.23	14.09
85.5	14.63	40.11	134.40	166.35	134.04	38.25	14.08
86.0	14.60	40.12	134.73	166.78	134.37	38.27	14.06
86.5	14.58	40.12	135.11	167.30	134.73	38.29	14.04
87.0	14.55	40.13	135.42	167.64	135.03	38.29	14.01
87.5	14.53	40.17	135.76	168.16	135.43	38.30	14.00
88.0	14.53	40.32	136.14	168.65	135.86	38.33	13.98
88.5	14.51	40.32	136.55	169.25	136.29	38.36	13.98
89.0	14.49	40.42	136.88	169.62	136.63	38.40	13.96
89.5	14.48	40.43	137.26	170.14	136.97	38.44	13.94
90.0	14.47	40.47	137.59	170.57	137.32	38.44	13.93
90.5	14.45	40.48	137.93	171.03	137.64	38.48	13.91
91.0	14.43	40.60	138.35	171.63	138.11	38.53	13.90
91.5	14.43	40.68	138.71	172.11	138.49	38.57	13.90
92.0	14.40	40.69	139.03	172.58	138.83	38.61	13.87
92.5	14.39	40.77	139.37	173.01	139.17	38.61	13.85
93.0	14.38	40.83	139.77	173.52	139.56	38.69	13.85
93.5	14.37	40.91	140.12	174.02	139.95	38.69	13.83
94.0	14.36	40.97	140.49	174.55	140.35	38.78	13.83
94.5	14.34	40.99	140.88	175.07	140.72	38.83	13.82
95.0	14.34	41.02	141.24	175.52	141.13	38.85	13.81
95.5	14.32	41.09	141.56	176.07	141.50	38.91	13.81
96.0	14.31	41.12	141.97	176.50	141.86	38.91	13.77
96.5	14.30	41.16	142.31	177.00	142.20	38.95	13.77
97.0	14.28	41.22	142.63	177.39	142.51	38.98	13.75
97.5	14.26	41.34	142.90	177.80	142.79	38.99	13.74
98.0	14.24	41.39	143.29	178.29	143.15	38.99	13.71
98.5	14.22	41.40	143.65	178.73	143.49	39.02	13.70
99.0	14.21	41.48	144.08	179.27	143.91	39.06	13.69
99.5	14.20	41.55	144.47	179.75	144.27	39.06	13.68
100.0	14.19	41.63	144.87	180.21	144.69	39.12	13.66
100.5	14.18	41.67	145.24	180.72	145.10	39.17	13.64
101.0	14.17	41.74	145.65	181.21	145.49	39.20	13.63
101.5	14.16	41.85	146.06	181.70	145.94	39.26	13.62

**Vertical Deflection of the Beam Measured from the Upper Flange Table 1.1**

102.0	14.15	41.86	146.46	182.09	146.35	39.27	13.60
102.5	14.15	41.96	146.95	182.75	146.80	39.33	13.59
103.0	14.15	42.05	147.40	183.27	147.19	39.34	13.58
103.5	14.14	42.12	147.80	183.85	147.59	39.41	13.57
104.0	14.13	42.22	148.26	184.42	147.99	39.44	13.56
104.5	14.13	42.28	148.66	185.03	148.40	39.50	13.54
105.0	14.12	42.37	149.14	185.63	148.86	39.54	13.52
105.5	14.12	42.44	149.54	186.21	149.22	39.56	13.50
106.0	14.11	42.52	149.94	186.73	149.64	39.60	13.49
106.5	14.11	42.58	150.37	187.22	150.04	39.63	13.45
107.0	14.10	42.63	150.73	187.75	150.44	39.69	13.45
107.5	14.09	42.65	151.11	188.23	150.87	39.71	13.42
108.0	14.08	42.77	151.57	188.80	151.27	39.71	13.39
108.5	14.08	42.83	151.92	189.28	151.67	39.71	13.38
109.0	14.08	42.94	152.32	189.79	152.06	39.73	13.34
109.5	14.06	43.00	152.71	190.23	152.43	39.79	13.34
110.0	14.05	43.05	153.09	190.88	152.77	39.80	13.32
110.5	14.04	43.13	153.46	191.40	153.20	39.83	13.30
111.0	14.03	43.19	153.84	191.81	153.55	39.83	13.28
111.5	14.01	43.26	154.19	192.49	153.95	39.87	13.26
112.0	14.00	43.32	154.50	192.94	154.29	39.92	13.24
112.5	13.99	43.35	154.88	193.31	154.64	39.95	13.22
113.0	13.98	43.39	155.21	193.95	154.96	39.96	13.19
113.5	13.97	43.45	155.55	194.41	155.34	39.99	13.18
114.0	13.95	43.47	155.82	194.84	155.64	40.05	13.17
114.5	13.94	43.50	156.12	195.30	155.95	40.06	13.15
115.0	13.93	43.55	156.47	195.64	156.30	40.11	13.14
115.5	13.92	43.55	156.81	196.18	156.67	40.16	13.13
116.0	13.91	43.61	157.10	196.64	157.02	40.23	13.13
116.5	13.91	43.69	157.46	197.00	157.34	40.27	13.12
117.0	13.90	43.72	157.77	197.44	157.67	40.33	13.10
117.5	13.89	43.79	158.12	198.06	158.04	40.39	13.10
118.0	13.88	43.84	158.45	198.46	158.42	40.42	13.09
118.5	13.88	43.92	158.83	198.90	158.79	40.51	13.08
119.0	13.84	44.05	159.16	199.37	159.15	40.56	13.08
119.5	13.84	44.07	159.52	199.84	159.49	40.63	13.08
120.0	13.84	44.18	159.88	200.43	159.79	40.69	13.07
120.5	13.84	44.26	160.21	200.77	160.13	40.74	13.06
121.0	13.84	44.26	160.54	201.17	160.42	40.79	13.04
121.5	13.84	44.31	160.82	201.58	160.73	40.83	13.03
122.0	13.84	44.44	161.21	202.05	161.09	40.91	13.02
122.5	13.84	44.55	161.61	202.51	161.56	41.06	13.01
123.0	13.84	44.64	161.97	202.95	161.88	41.11	13.01
123.5	13.84	44.76	162.30	203.50	162.21	41.15	13.01
124.0	13.84	44.81	162.56	204.00	162.51	41.22	13.01
124.5	13.84	44.88	162.89	204.38	162.81	41.27	13.00
125.0	13.84	44.95	163.19	204.65	163.17	41.33	12.99
125.5	13.84	45.04	163.54	205.11	163.53	41.34	12.99
126.0	13.84	45.15	163.84	205.46	163.85	41.42	12.99
126.5	13.84	45.21	164.17	205.82	164.20	41.45	12.98
127.0	13.84	45.34	164.48	206.21	164.48	41.55	12.98
127.5	13.84	45.40	164.85	206.75	164.80	41.57	12.98
128.0	13.84	45.46	165.18	207.09	165.09	41.66	12.97
128.5	13.84	45.56	165.50	207.33	165.42	41.70	12.97
129.0	13.84	45.62	165.81	207.78	165.73	41.75	12.96
129.5	13.84	45.71	166.16	208.26	166.05	41.83	12.96
130.0	13.84	45.75	166.45	208.64	166.28	41.89	12.96
130.5	13.84	45.88	166.82	208.98	166.61	41.95	12.96
131.0	13.84	45.95	167.14	209.39	166.92	42.01	12.96
131.5	13.84	46.04	167.43	209.92	167.19	42.07	12.96
132.0	13.84	46.18	167.79	210.28	167.55	42.10	12.96
132.5	13.84	46.27	168.15	210.70	167.86	42.17	12.96
133.0	13.84	46.35	168.44	211.16	168.20	42.19	12.96
133.5	13.84	46.41	168.95	211.81	168.64	42.32	12.96
134.0	13.84	46.56	169.33	212.28	169.03	42.37	12.94
134.5	13.84	46.64	169.67	212.78	169.35	42.43	12.94
135.0	13.84	46.74	169.96	213.15	169.66	42.50	12.93
135.5	13.84	46.80	170.27	213.49	170.01	42.59	12.93
136.0	13.84	46.92	170.59	213.98	170.30	42.64	12.93
136.5	13.84	46.99	170.93	214.17	170.47	42.65	12.92

Vertical Deflection of the Beam Measured from the Upper Flange Table 1.1

137.0	13.84	47.06	171.18	214.56	170.78	42.77	12.92
137.5	13.84	47.10	171.40	214.80	171.10	42.83	12.92
138.0	13.84	47.16	171.55	215.09	171.27	42.93	12.92
138.5	13.84	47.24	171.80	215.31	171.46	42.98	12.92
139.0	13.84	47.33	172.01	215.55	171.65	43.01	12.92
139.5	13.84	47.44	172.29	215.73	171.95	43.03	12.92
140.0	13.84	47.52	172.55	216.03	172.18	43.09	12.92
140.5	13.84	47.58	172.83	216.36	172.44	43.22	12.92
141.0	13.84	47.67	173.14	216.93	172.71	43.25	12.92
141.5	13.84	47.78	173.53	217.35	173.03	43.35	12.92
142.0	13.84	48.53	176.11	220.51	175.31	43.85	12.92
142.5	13.84	48.90	177.63	222.25	176.57	44.18	12.92
143.0	13.84	48.99	177.96	222.55	176.94	44.23	12.92
143.5	13.84	49.09	178.33	223.20	177.28	44.34	12.92
144.0	13.84	49.20	178.73	223.45	177.62	44.44	12.92
144.5	13.85	49.32	179.09	224.05	178.05	44.87	12.92
145.0	13.84	49.42	179.43	224.37	178.38	44.87	12.92
145.5	13.84	49.56	179.86	224.79	178.76	44.87	12.92
146.0	13.85	49.65	180.24	225.34	179.12	44.93	12.92
146.5	13.85	49.73	180.65	225.92	179.56	45.06	12.92
147.0	13.85	49.86	181.06	226.33	179.94	45.15	12.92
147.5	13.85	49.96	181.42	226.94	180.39	45.19	12.92
148.0	13.84	50.07	181.82	227.60	180.78	45.31	12.92
148.5	13.85	50.21	182.25	228.16	181.22	45.38	12.92
149.0	13.85	50.29	182.60	228.63	181.67	45.47	12.92
149.5	13.84	50.42	183.01	229.00	182.13	45.55	12.92
150.0	13.85	50.54	183.50	229.86	182.66	45.64	12.92
150.5	13.85	50.66	183.98	230.28	183.15	45.73	12.92
151.0	13.85	50.73	184.40	230.78	183.68	45.85	12.92
151.5	13.85	50.80	184.84	231.22	184.09	45.92	12.92
152.0	13.85	50.92	185.28	231.90	184.59	45.99	12.92
921.5	3.25	20.50	95.50	113.00	94.00	12.50	0.00

**Vertical Deflection of the Beam Measured from the Upper Flange Table 1.1**