



APPENDIX 1: FDS AVERAGE TEMPERATURES

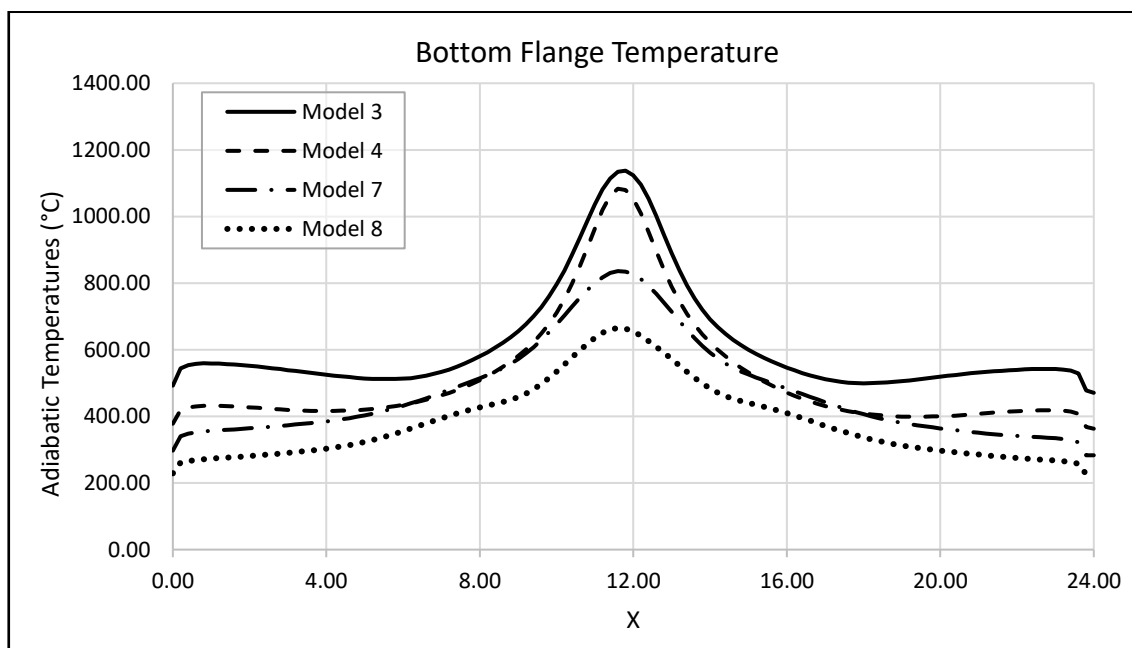
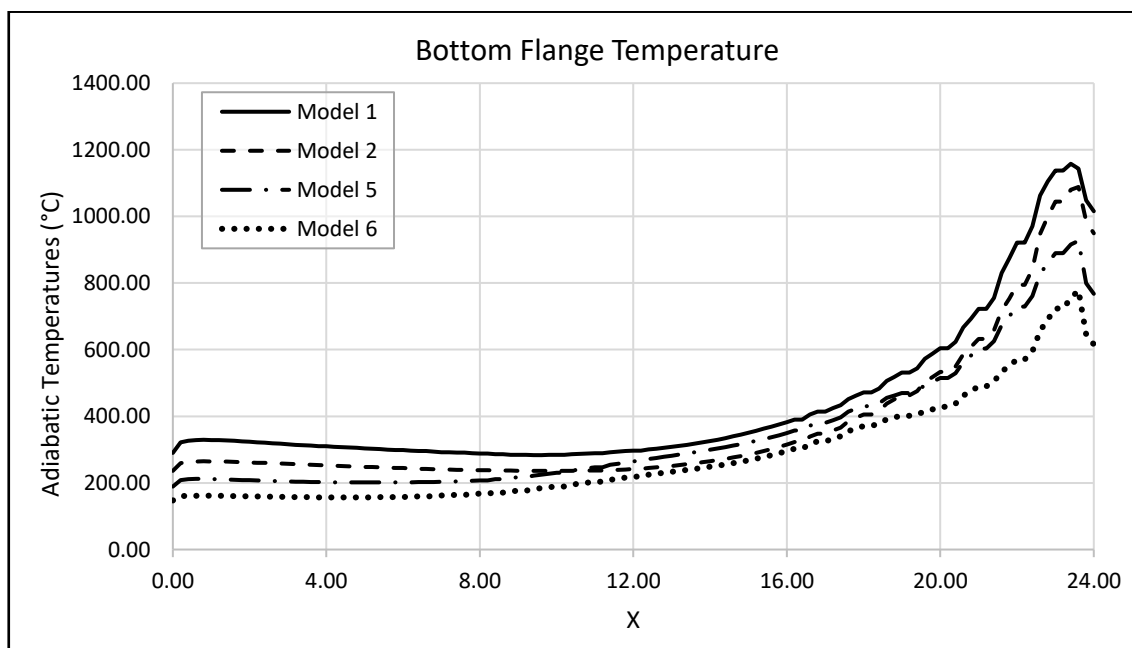


The following appendix contains the results of the average temperatures of the central girder for each of the 64 bridge configurations, obtained every 0.2 metres in the longitudinal direction, for both the bottom flange and the centre of the web (calculated as an average of either side).

The results are provided in both graphical and tabular formats, and have been segregated into groups of eight models, for both the bottom flange and web temperatures, in order to facilitate the comparison of the different models.

BOTTOM FLANGE TEMPERATURES

Model	Position	Bridge Substructure Config.	Width	Span	Vertical Clearance	Heat Release Rate (HRR)
1	Abutment	Piers	23.4 m	24 m	5 m	2400 kW/m ²
2	Abutment	Piers	23.4 m	24 m	5 m	1800 kW/m ²
3	Mid-Span	Piers	23.4 m	24 m	5 m	2400 kW/m ²
4	Mid-Span	Piers	23.4 m	24 m	5 m	1800 kW/m ²
5	Abutment	Piers	23.4 m	24 m	9 m	2400 kW/m ²
6	Abutment	Piers	23.4 m	24 m	9 m	1800 kW/m ²
7	Mid-Span	Piers	23.4 m	24 m	9 m	2400 kW/m ²
8	Mid-Span	Piers	23.4 m	24 m	9 m	1800 kW/m ²





X	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7	Model 8
0.00	289.63	236.27	491.78	378.25	189.02	147.38	297.48	228.52
0.20	321.60	259.23	544.21	418.88	208.48	160.00	340.79	261.42
0.40	326.62	262.76	553.98	426.82	210.87	161.13	347.96	265.90
0.60	328.36	263.99	557.40	430.12	211.83	161.71	352.33	269.11
0.80	329.05	264.60	559.24	431.91	211.90	161.79	355.04	271.45
1.00	328.66	264.58	558.98	432.00	211.53	161.67	356.75	273.15
1.20	328.18	264.31	558.62	431.57	211.02	161.41	358.30	274.74
1.40	327.11	263.67	557.00	430.55	210.29	160.96	359.53	276.09
1.60	326.16	263.05	555.66	429.75	209.62	160.64	361.00	277.58
1.80	324.70	262.22	553.54	428.39	208.78	160.13	362.39	278.97
2.00	323.44	261.56	552.03	427.25	208.09	159.77	364.07	280.68
2.20	321.85	260.67	549.55	425.59	207.25	159.27	365.67	282.34
2.40	320.56	259.96	547.21	424.13	206.61	158.89	367.65	284.24
2.60	318.85	258.95	544.16	422.19	205.86	158.41	369.43	286.08
2.80	317.45	258.08	541.79	420.74	205.29	158.08	371.49	288.21
3.00	315.81	257.03	538.79	419.11	204.59	157.70	373.40	290.30
3.20	314.55	256.11	536.52	417.95	204.05	157.48	375.59	292.62
3.40	313.09	255.13	533.49	416.92	203.42	157.21	377.69	294.86
3.60	311.95	254.33	530.93	416.63	203.01	157.08	380.07	297.45
3.80	310.72	253.46	527.85	416.35	202.57	156.89	382.34	300.13
4.00	309.83	252.67	525.27	416.49	202.32	156.81	385.03	303.20
4.20	308.67	251.79	522.40	416.65	202.06	156.62	387.86	306.40
4.40	307.70	250.93	520.14	416.98	201.96	156.52	391.18	309.98
4.60	306.40	249.98	517.73	417.31	201.83	156.41	394.61	313.87
4.80	305.24	249.13	515.74	418.30	201.77	156.45	398.62	318.31
5.00	303.84	248.26	513.77	419.82	201.65	156.54	402.94	323.19
5.20	302.60	247.42	512.70	422.05	201.62	156.77	407.82	328.74
5.40	301.16	246.46	511.97	424.59	201.55	157.01	413.02	334.76
5.60	299.96	245.54	511.96	427.52	201.63	157.40	418.87	341.33
5.80	298.71	244.65	512.07	430.66	201.70	157.79	425.10	348.23
6.00	298.71	244.65	513.02	434.41	201.70	157.79	431.90	355.52
6.20	296.66	243.04	514.83	438.70	202.09	158.93	438.97	363.03
6.40	295.45	242.20	518.03	443.85	202.32	159.62	446.47	370.78
6.60	295.45	242.20	522.20	449.61	202.32	159.62	454.29	378.57
6.80	294.26	241.51	527.41	456.23	202.60	160.34	462.63	386.37
7.00	292.41	240.43	533.45	463.11	203.46	162.00	471.11	393.99
7.20	291.71	239.98	540.55	470.57	204.04	162.97	479.76	401.40
7.40	290.87	239.54	548.84	478.67	204.72	164.03	488.44	408.44
7.60	290.87	239.54	558.30	487.72	204.72	164.03	497.19	415.09
7.80	289.09	238.63	568.76	497.70	206.59	166.50	505.90	421.27

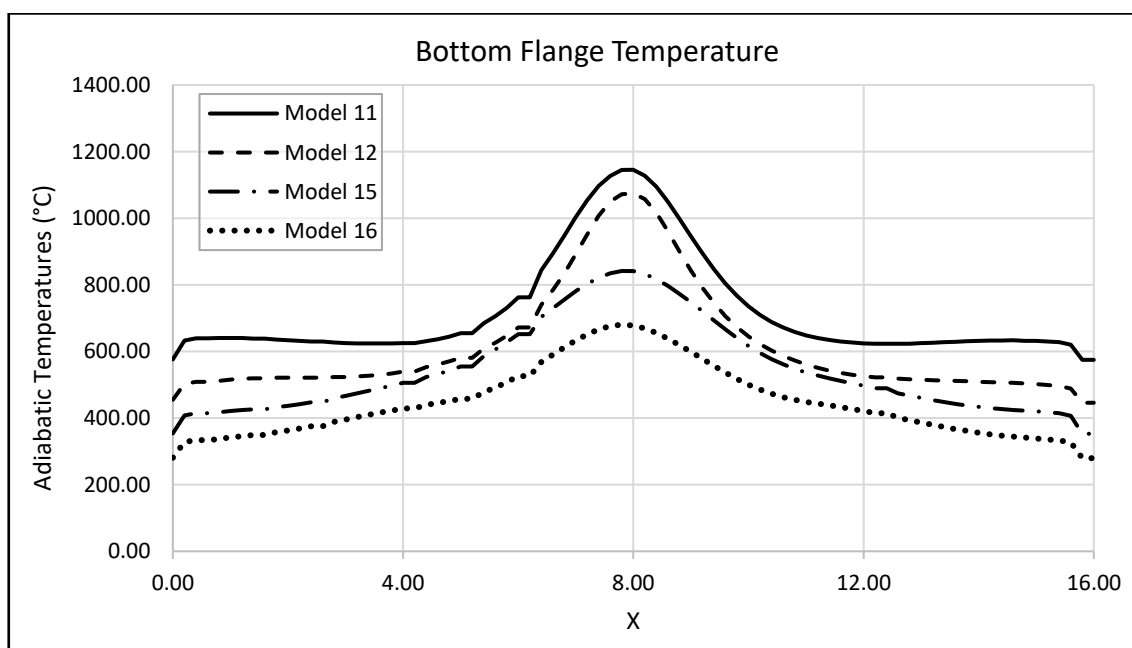
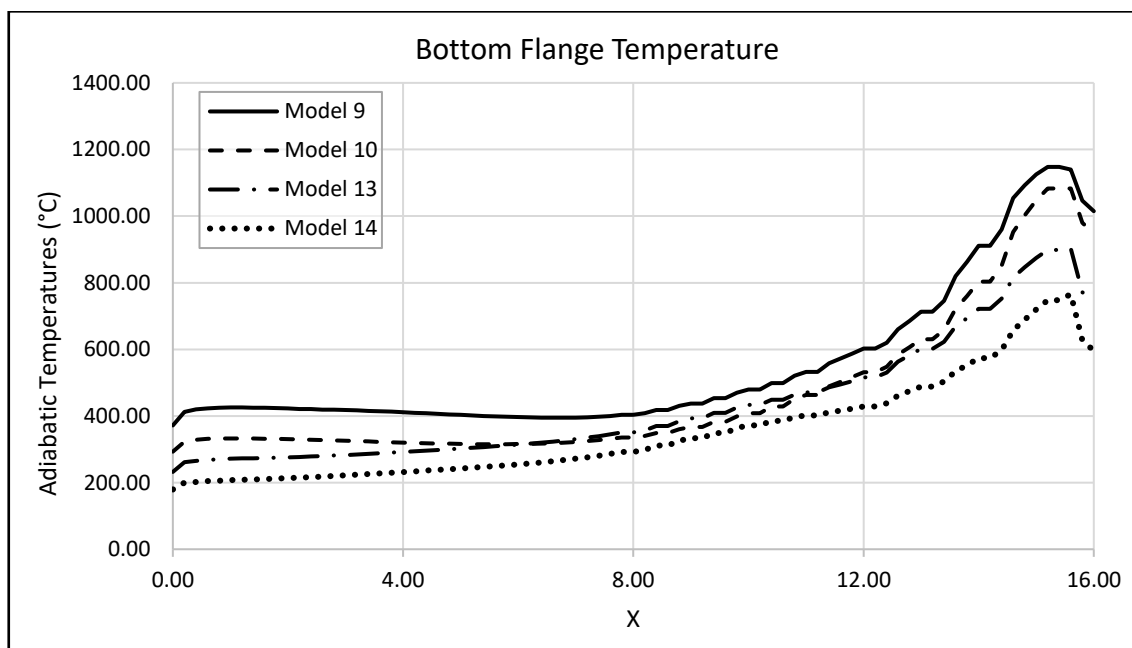


X	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7	Model 8
8.00	288.20	238.15	580.22	508.80	207.85	167.93	514.74	427.00
8.20	288.20	238.15	592.62	521.06	207.85	167.93	523.95	432.34
8.40	286.39	237.28	606.17	534.27	210.92	171.16	533.85	437.57
8.60	286.39	237.28	621.11	548.71	210.92	171.16	544.91	443.14
8.80	284.71	236.76	637.68	564.48	214.72	174.95	557.57	449.69
9.00	284.02	236.55	656.08	581.78	216.89	177.05	572.13	457.81
9.20	284.02	236.55	676.71	601.23	216.89	177.05	588.92	468.14
9.40	283.41	236.34	700.42	623.31	221.78	181.71	608.04	481.22
9.60	283.60	236.28	727.93	648.60	224.49	184.24	629.44	497.01
9.80	284.01	236.26	760.42	677.75	227.34	186.87	652.48	515.19
10.00	284.64	236.31	796.94	711.75	230.37	189.62	676.92	534.95
10.20	284.64	236.31	837.56	751.32	230.37	189.62	702.29	555.58
10.40	286.22	236.59	883.05	796.73	236.80	195.23	728.37	576.46
10.60	287.15	236.82	933.22	848.04	240.16	198.08	754.33	597.33
10.80	288.15	237.12	985.14	904.61	243.63	200.97	778.27	617.47
11.00	289.27	237.49	1036.14	963.11	247.13	203.87	799.32	635.84
11.20	289.27	237.49	1081.31	1019.39	247.13	203.87	817.13	650.86
11.40	292.16	238.66	1114.12	1062.58	254.24	209.73	830.06	661.16
11.60	293.78	239.50	1133.74	1083.34	257.78	212.67	836.03	664.81
11.80	295.43	240.56	1137.60	1079.77	261.25	215.60	834.75	663.15
12.00	297.12	241.82	1123.90	1053.37	264.70	218.53	826.37	654.84
12.20	297.12	241.82	1095.59	1009.22	264.70	218.53	811.88	641.86
12.40	300.76	244.91	1053.22	953.75	271.50	224.33	791.58	626.25
12.60	302.88	246.80	1001.33	895.49	274.91	227.23	767.88	608.89
12.80	305.25	248.88	944.96	839.83	278.36	230.14	741.57	590.80
13.00	307.89	251.09	889.86	789.48	281.80	233.07	714.18	571.94
13.20	310.85	253.46	838.87	745.48	285.27	236.07	686.64	552.73
13.40	314.04	256.03	792.97	707.56	288.77	239.11	659.67	533.79
13.60	317.51	258.83	753.69	674.73	292.34	242.19	634.61	515.51
13.80	321.30	261.85	719.95	646.25	295.98	245.32	611.87	498.51
14.00	325.44	265.08	691.59	621.71	299.75	248.58	591.37	483.55
14.20	329.88	268.56	667.89	599.92	303.65	251.98	573.54	470.93
14.40	334.64	272.28	647.69	580.38	307.71	255.57	558.39	460.76
14.60	339.79	276.27	629.92	562.62	311.92	259.36	545.72	452.59
14.80	345.19	280.58	614.08	546.25	316.37	263.41	534.98	445.92
15.00	350.79	285.26	599.76	531.30	321.07	267.80	525.43	440.10
15.20	356.72	290.37	586.94	517.47	326.11	272.58	516.61	434.65
15.40	362.87	295.89	575.44	504.75	331.46	277.73	508.15	429.09
15.60	369.18	301.83	564.95	492.94	337.17	283.28	499.83	423.11
15.80	375.66	308.19	555.41	481.92	343.32	289.25	491.68	416.65



X	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7	Model 8
16.00	382.38	315.04	546.52	471.52	349.91	295.62	483.47	409.70
16.20	389.53	322.48	538.06	461.92	356.87	302.33	475.23	402.40
16.40	389.53	322.48	530.08	453.09	356.87	302.33	466.98	394.81
16.60	405.36	338.77	522.99	445.07	371.92	316.64	458.78	387.08
16.80	414.05	347.56	516.83	437.62	379.93	324.20	450.62	379.24
17.00	414.05	347.56	511.64	430.91	379.93	324.20	442.61	371.50
17.20	424.60	357.07	507.22	424.88	388.54	332.11	434.79	363.91
17.40	433.26	366.27	503.85	419.78	396.85	339.99	427.24	356.64
17.60	451.72	385.49	501.20	415.43	413.75	355.76	419.91	349.63
17.80	461.72	395.39	499.73	411.78	422.26	363.49	412.96	342.98
18.00	472.09	405.58	499.28	408.58	430.71	370.98	406.32	336.71
18.20	472.09	405.58	499.86	405.94	430.71	370.98	400.30	330.96
18.40	482.91	416.10	500.83	403.62	439.04	378.09	394.63	325.67
18.60	506.18	438.32	502.21	401.72	454.96	390.78	389.54	320.92
18.80	518.30	450.25	503.65	400.08	462.48	396.26	384.85	316.50
19.00	530.81	462.73	505.52	399.15	469.75	401.21	380.70	312.55
19.20	530.81	462.73	507.63	398.60	469.75	401.21	376.80	308.89
19.40	543.91	475.80	510.40	398.60	477.04	405.77	373.36	305.65
19.60	572.29	503.50	513.23	398.85	493.27	415.23	369.95	302.55
19.80	587.89	518.11	516.41	399.61	503.24	421.20	366.93	299.75
20.00	604.69	533.32	519.24	400.39	515.14	428.70	363.84	296.98
20.20	604.69	533.32	521.94	401.37	515.14	428.70	361.13	294.48
20.40	623.38	549.46	524.37	402.35	529.10	438.01	358.27	291.99
20.60	667.04	586.28	527.07	403.87	562.81	461.85	355.67	289.73
20.80	693.00	607.92	529.35	405.58	582.17	475.53	352.97	287.41
21.00	722.49	632.12	531.82	407.88	603.22	489.83	350.79	285.22
21.20	722.49	632.12	533.42	409.71	603.22	489.83	348.52	282.98
21.40	755.22	658.35	535.21	411.63	625.31	504.35	346.64	280.93
21.60	830.41	717.30	536.66	413.01	673.60	534.22	344.64	278.87
21.80	874.19	753.04	538.43	414.63	700.57	550.99	343.01	277.06
22.00	921.71	794.70	539.54	415.61	729.68	570.85	341.29	275.23
22.20	921.71	794.70	541.22	416.81	729.68	570.85	339.97	273.62
22.40	970.37	841.82	541.88	417.51	760.68	595.13	338.50	272.02
22.60	1063.15	947.31	542.64	418.28	826.82	656.63	337.24	270.60
22.80	1104.96	998.99	542.11	418.48	859.73	690.68	335.72	269.00
23.00	1137.97	1044.55	541.91	418.65	889.44	723.96	334.20	267.33
23.20	1137.97	1044.55	539.99	417.36	889.44	723.96	331.94	265.22
23.40	1157.99	1080.30	537.08	414.80	915.79	754.59	328.51	262.19
23.60	1143.01	1088.44	528.64	407.85	926.81	778.33	322.64	257.64
23.80	1048.05	985.47	478.00	368.09	799.78	645.39	283.13	226.24
24.00	1015.41	949.46	470.74	362.94	767.77	616.32	283.13	226.24

Model	Position	Bridge Substructure Config.	Width	Span	Vertical Clearance	Heat Release Rate (HRR)
9	Abutment	Piers	23.4 m	16 m	5 m	2400 kW/m ²
10	Abutment	Piers	23.4 m	16 m	5 m	1800 kW/m ²
11	Mid-Span	Piers	23.4 m	16 m	5 m	2400 kW/m ²
12	Mid-Span	Piers	23.4 m	16 m	5 m	1800 kW/m ²
13	Abutment	Piers	23.4 m	16 m	9 m	2400 kW/m ²
14	Abutment	Piers	23.4 m	16 m	9 m	1800 kW/m ²
15	Mid-Span	Piers	23.4 m	16 m	9 m	2400 kW/m ²
16	Mid-Span	Piers	23.4 m	16 m	9 m	1800 kW/m ²



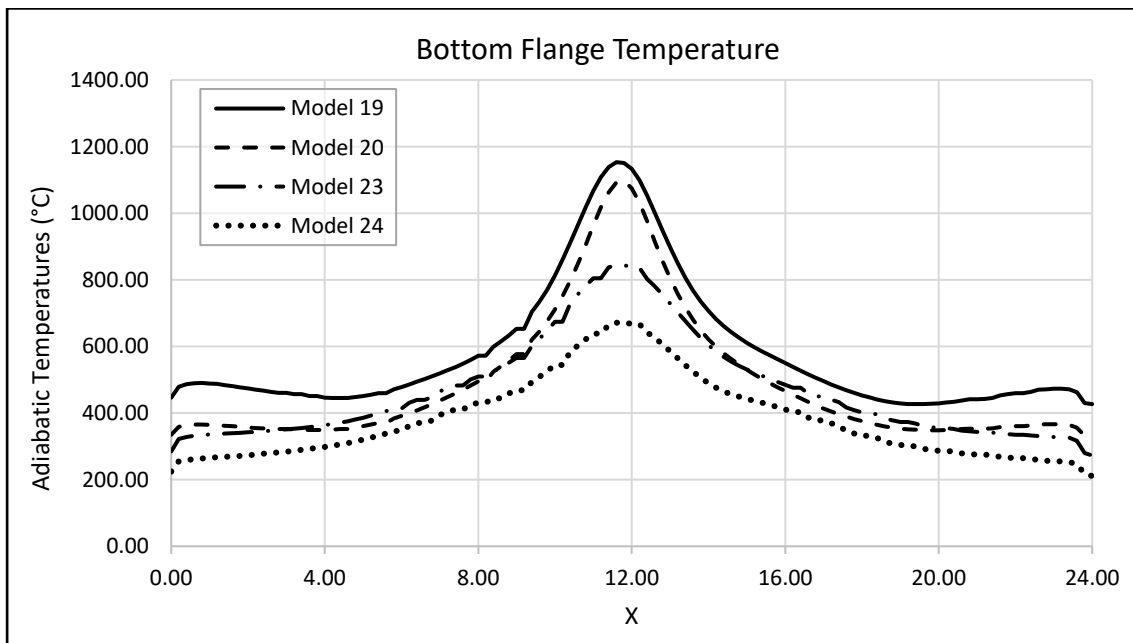
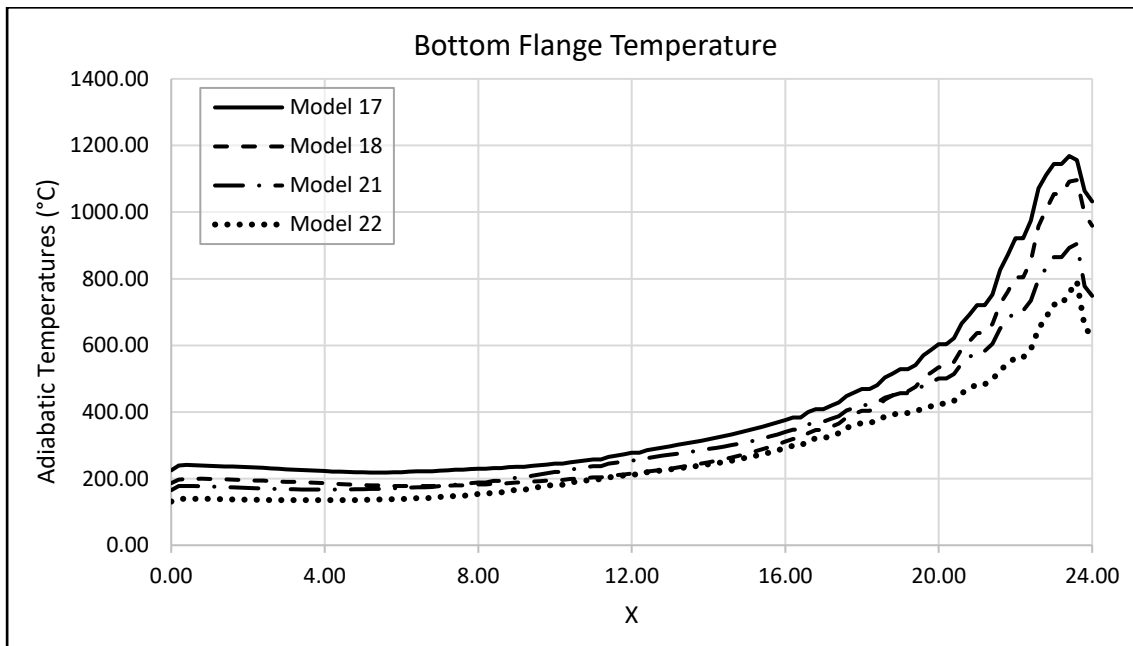


X	Model 9	Model 10	Model 11	Model 12	Model 13	Model 14	Model 15	Model 16
0.00	371.63	292.94	576.16	454.87	232.14	179.38	354.05	280.56
0.20	412.46	323.19	632.44	502.67	260.91	199.44	407.89	328.16
0.40	419.96	328.61	639.11	509.16	265.45	202.19	414.35	333.45
0.60	423.05	331.04	639.11	509.16	268.48	204.32	414.35	333.45
0.80	424.99	332.37	640.50	511.65	270.41	205.92	417.74	336.87
1.00	425.37	332.74	640.54	515.91	271.54	207.23	421.69	342.61
1.20	425.59	332.83	640.23	518.06	272.53	208.51	423.79	345.80
1.40	425.01	332.32	638.75	518.87	273.18	209.56	425.81	349.21
1.60	424.43	331.84	638.75	518.87	274.03	210.81	425.81	349.21
1.80	423.32	331.13	635.61	520.76	274.77	211.98	432.44	357.78
2.00	422.50	330.45	633.98	521.28	275.89	213.44	436.97	363.04
2.20	421.34	329.45	631.37	520.79	276.94	214.85	441.69	368.66
2.40	420.46	328.53	629.97	521.59	278.33	216.53	447.38	375.04
2.60	419.38	327.50	629.97	521.59	279.67	218.13	447.38	375.04
2.80	418.54	326.64	626.73	522.87	281.30	219.99	460.03	388.53
3.00	417.54	325.60	625.13	523.53	282.88	221.78	466.83	395.44
3.20	416.71	324.59	624.32	525.37	284.72	223.79	474.29	402.58
3.40	415.53	323.37	623.57	527.25	286.47	225.74	481.77	409.52
3.60	414.30	322.26	623.72	530.32	288.41	227.79	489.77	416.37
3.80	412.74	321.10	623.89	534.13	290.28	229.73	497.66	422.68
4.00	411.26	320.11	625.17	539.26	292.30	231.80	505.89	428.64
4.20	409.59	319.12	625.17	539.26	294.22	233.81	505.89	428.64
4.40	408.00	318.33	630.76	552.67	296.26	235.96	522.77	439.44
4.60	406.30	317.43	636.10	560.90	298.20	238.03	532.11	444.83
4.80	404.84	316.67	643.95	570.49	300.27	240.23	542.69	450.86
5.00	403.23	316.02	654.37	581.22	302.33	242.39	554.73	457.92
5.20	401.76	315.60	654.37	581.22	304.58	244.70	554.73	457.92
5.40	400.22	315.34	685.06	608.41	306.84	247.03	585.92	477.59
5.60	398.92	315.32	705.65	625.88	309.27	249.54	605.49	491.27
5.80	397.73	315.42	730.78	646.83	311.76	252.08	627.63	507.49
6.00	396.66	315.77	762.06	672.33	314.43	254.83	651.81	525.98
6.20	395.71	316.28	762.06	672.33	317.19	257.68	651.81	525.98
6.40	395.11	317.15	844.59	740.55	320.19	260.81	703.83	568.01
6.60	394.67	318.34	894.35	784.65	323.33	264.13	730.18	590.42
6.80	394.65	319.99	948.13	834.72	326.84	267.85	755.92	612.29
7.00	394.97	322.03	1002.79	890.74	330.66	271.83	780.22	632.86
7.20	395.92	324.58	1053.72	951.21	334.91	276.25	802.51	651.31
7.40	397.52	327.59	1096.72	1007.61	339.57	280.99	821.19	666.35
7.60	400.02	331.06	1127.11	1049.65	344.74	286.22	834.59	676.20
7.80	403.34	334.96	1144.70	1071.66	350.35	291.87	841.56	680.48



X	Model 9	Model 10	Model 11	Model 12	Model 13	Model 14	Model 15	Model 16
8.00	403.34	334.96	1145.34	1074.51	350.35	291.87	841.35	678.18
8.20	408.88	339.86	1127.19	1057.49	356.68	298.09	832.38	669.62
8.40	417.83	349.18	1094.81	1017.47	370.00	311.35	817.12	655.76
8.60	417.83	349.18	1050.24	961.47	370.00	311.35	796.93	638.62
8.80	430.45	360.68	998.53	900.75	384.84	325.91	773.26	619.54
9.00	437.65	367.28	946.17	842.78	392.71	333.52	747.73	598.95
9.20	437.65	367.28	895.18	791.39	392.71	333.52	721.09	577.92
9.40	453.26	382.14	847.21	745.71	409.00	349.02	693.59	557.08
9.60	453.26	382.14	803.93	706.06	409.00	349.02	666.45	536.73
9.80	470.17	398.88	766.89	672.65	425.47	364.38	640.57	517.79
10.00	479.04	408.09	735.53	644.88	433.60	371.78	616.67	500.52
10.20	479.04	408.09	709.70	621.92	433.60	371.78	595.38	485.56
10.40	498.47	428.51	688.86	602.68	449.23	385.46	576.80	473.07
10.60	498.47	428.51	672.27	586.47	449.23	385.46	561.17	463.00
10.80	520.70	451.45	658.78	572.69	463.77	396.99	548.02	455.06
11.00	532.66	463.60	648.37	560.87	470.87	401.87	537.04	448.66
11.20	532.66	463.60	640.26	550.81	470.87	401.87	527.61	443.20
11.40	558.52	489.35	634.31	542.47	485.90	410.81	519.33	438.11
11.60	572.41	502.89	629.59	535.40	494.58	415.63	511.56	432.90
11.80	587.01	517.05	626.51	529.89	504.63	421.42	504.20	427.45
12.00	602.46	531.80	624.35	525.64	516.46	428.69	496.73	421.41
12.20	602.46	531.80	623.39	522.66	516.46	428.69	489.39	415.00
12.40	619.52	547.52	623.39	522.66	530.34	437.76	489.39	415.00
12.60	660.55	584.07	623.22	518.50	563.54	460.94	474.56	401.08
12.80	685.27	606.04	623.45	516.81	582.16	474.39	467.29	393.83
13.00	713.44	630.80	624.74	515.64	601.92	488.51	460.65	386.81
13.20	713.44	630.80	625.55	513.96	601.92	488.51	454.04	379.77
13.40	745.46	658.13	627.42	512.63	622.56	503.10	448.21	373.24
13.60	820.04	721.31	628.58	511.19	668.49	534.76	442.53	366.85
13.80	863.27	759.73	630.75	510.28	694.13	552.83	437.85	361.22
14.00	910.64	803.27	631.53	508.93	722.03	573.49	433.37	355.90
14.20	910.64	803.27	633.12	507.98	722.03	573.49	429.90	351.48
14.40	960.32	851.00	633.06	506.53	752.44	597.92	426.62	347.49
14.60	1054.47	952.80	633.55	505.46	815.94	657.19	424.23	344.28
14.80	1092.45	1002.50	632.17	503.56	846.44	688.71	421.91	341.28
15.00	1124.99	1047.89	631.61	501.92	874.24	719.57	420.19	338.74
15.20	1147.73	1082.93	629.63	499.19	898.27	747.44	417.65	335.99
15.40	1147.73	1082.93	627.68	496.22	898.27	747.44	414.12	332.50
15.60	1139.44	1082.70	620.50	488.69	902.53	765.64	407.33	326.90
15.80	1046.74	979.86	574.79	445.94	771.64	627.33	352.85	279.60
16.00	1015.07	946.78	574.79	445.94	739.05	595.68	352.85	279.60

Model	Position	Bridge Substructure Config.	Width	Span	Vertical Clearance	Heat Release Rate (HRR)
17	Abutment	Piers	13.0 m	24 m	5 m	2400 kW/m ²
18	Abutment	Piers	13.0 m	24 m	5 m	1800 kW/m ²
19	Mid-Span	Piers	13.0 m	24 m	5 m	2400 kW/m ²
20	Mid-Span	Piers	13.0 m	24 m	5 m	1800 kW/m ²
21	Abutment	Piers	13.0 m	24 m	9 m	2400 kW/m ²
22	Abutment	Piers	13.0 m	24 m	9 m	1800 kW/m ²
23	Mid-Span	Piers	13.0 m	24 m	9 m	2400 kW/m ²
24	Mid-Span	Piers	13.0 m	24 m	9 m	1800 kW/m ²





X	Model 17	Model 18	Model 19	Model 20	Model 21	Model 22	Model 23	Model 24
0.00	225.08	186.87	446.28	334.88	165.37	131.17	284.42	224.53
0.20	239.00	196.88	479.06	358.59	177.45	139.44	322.01	255.22
0.40	240.81	198.80	486.93	363.83	177.74	139.71	328.01	259.26
0.60	240.14	199.01	489.25	365.23	177.60	139.76	331.51	261.92
0.80	239.49	199.52	490.43	365.66	177.05	139.43	333.84	263.97
1.00	238.35	199.28	488.80	364.38	176.22	138.93	335.48	265.54
1.20	237.75	198.93	487.12	363.44	175.37	138.54	337.10	267.14
1.40	236.76	197.99	483.73	361.75	174.34	138.00	338.33	268.58
1.60	236.18	197.18	480.88	360.36	173.50	137.66	339.73	270.23
1.80	235.25	196.10	476.99	358.48	172.48	137.10	340.97	271.76
2.00	234.50	195.47	474.06	356.96	171.76	136.78	342.50	273.66
2.20	233.36	194.47	470.34	355.14	170.84	136.29	343.89	275.49
2.40	232.25	193.65	467.36	353.93	170.23	136.03	345.61	277.60
2.60	230.79	192.50	463.41	352.60	169.41	135.62	347.24	279.63
2.80	229.61	191.51	460.73	352.04	168.87	135.49	349.21	281.93
3.00	228.21	190.50	460.73	352.04	168.19	135.24	351.06	284.18
3.20	227.08	189.84	457.08	351.16	167.87	135.24	353.25	286.71
3.40	225.79	188.95	457.08	351.16	167.42	135.11	355.41	289.19
3.60	224.72	188.19	450.76	349.45	167.33	135.16	358.03	292.04
3.80	223.45	187.23	450.76	349.45	167.11	135.05	360.70	294.96
4.00	222.50	186.26	446.16	349.59	167.20	135.12	363.89	298.31
4.20	221.42	185.06	444.93	350.46	167.17	135.10	367.25	301.80
4.40	220.62	183.96	445.22	352.00	167.38	135.29	371.26	305.79
4.60	219.70	182.86	445.22	352.00	167.43	135.44	375.55	310.01
4.80	219.17	181.85	448.48	357.08	167.79	135.79	380.57	314.85
5.00	218.65	180.82	451.23	360.86	168.07	136.13	385.99	320.06
5.20	218.43	180.01	455.09	365.52	168.66	136.64	392.23	325.90
5.40	218.20	179.21	459.26	370.79	169.20	137.16	398.90	332.17
5.60	218.35	178.62	459.26	370.79	170.03	137.84	406.22	339.00
5.80	218.76	178.14	470.87	383.55	170.84	138.56	413.89	346.18
6.00	218.76	178.14	478.26	391.16	170.84	138.56	413.89	346.18
6.20	220.68	177.75	485.86	399.41	172.95	140.37	430.93	361.92
6.40	221.52	177.68	493.89	408.20	174.12	141.36	439.33	370.03
6.60	221.52	177.68	502.12	417.34	174.12	141.36	439.33	370.03
6.80	222.23	177.74	510.74	427.07	175.29	142.39	447.97	378.24
7.00	224.11	178.50	519.39	437.40	178.20	144.93	465.66	394.69
7.20	225.26	179.10	528.43	448.14	179.94	146.49	474.51	402.68
7.40	226.35	179.76	537.91	459.11	181.75	148.18	483.25	410.33
7.60	226.35	179.76	548.35	470.44	181.75	148.18	483.25	410.33
7.80	228.57	181.41	559.54	482.46	185.93	151.98	500.88	424.67

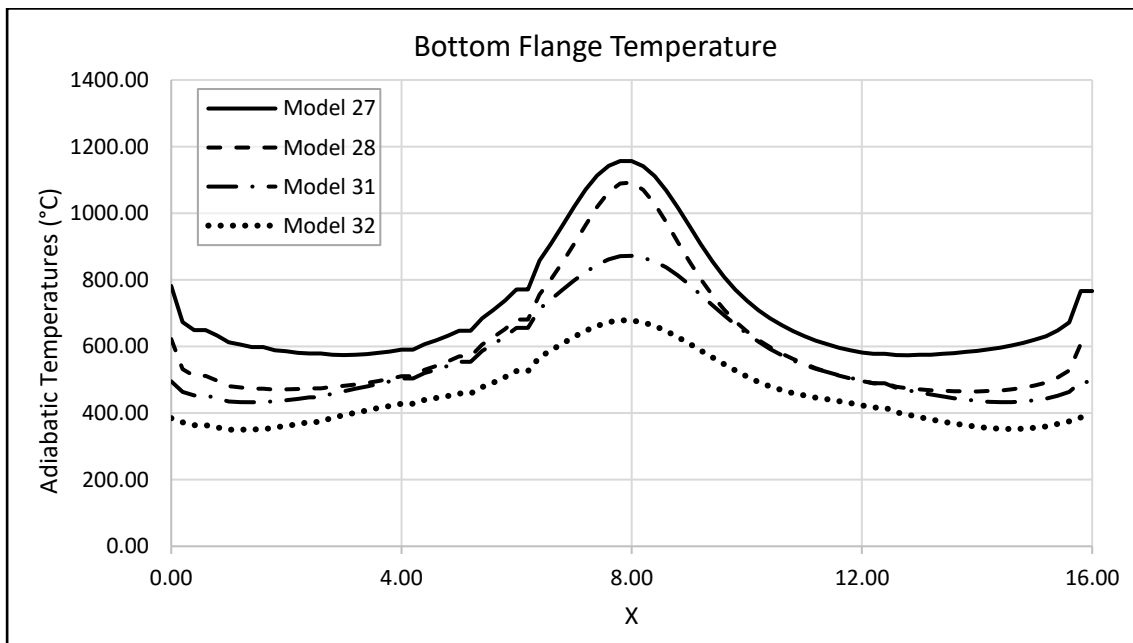
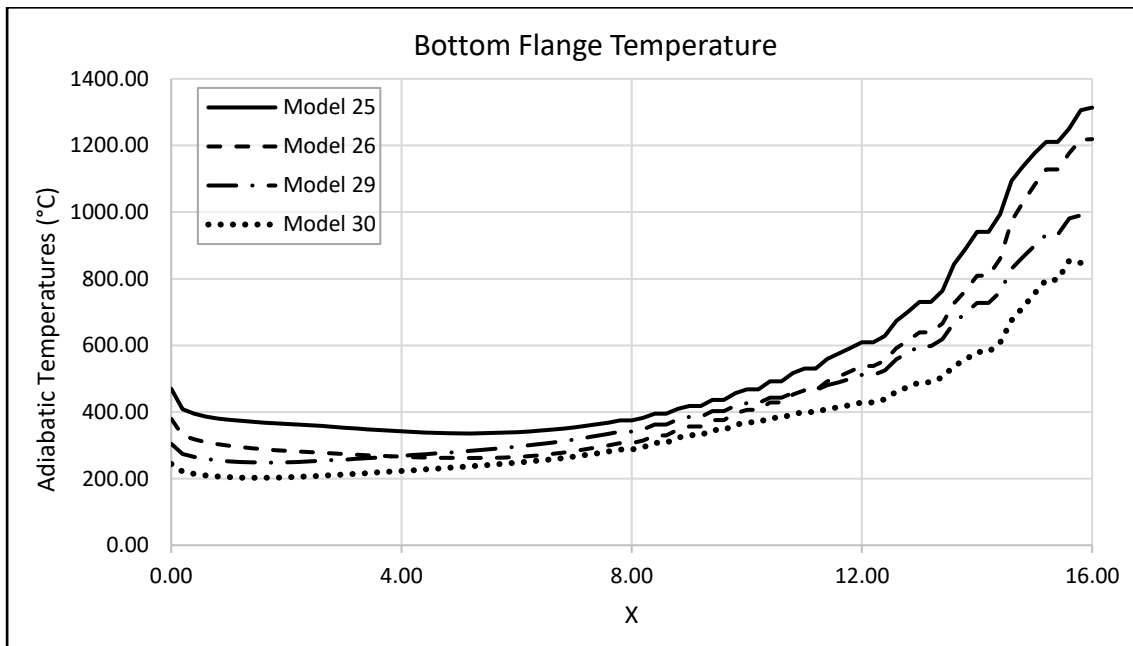


X	Model 17	Model 18	Model 19	Model 20	Model 21	Model 22	Model 23	Model 24
8.00	229.76	182.35	571.79	495.35	188.29	154.06	509.79	431.33
8.20	229.76	182.35	571.79	495.35	188.29	154.06	509.79	431.33
8.40	232.03	184.39	599.21	524.00	193.44	158.56	528.58	444.08
8.60	232.03	184.39	615.12	540.19	193.44	158.56	528.58	444.08
8.80	234.37	186.84	632.96	557.71	199.24	163.58	551.26	458.69
9.00	235.62	188.17	653.23	576.55	202.36	166.29	565.30	468.11
9.20	235.62	188.17	653.23	576.55	202.36	166.29	565.30	468.11
9.40	238.73	191.07	703.55	619.78	208.98	172.18	601.01	493.23
9.60	240.57	192.60	734.58	645.66	212.44	175.31	622.93	508.79
9.80	242.50	194.14	770.54	675.63	215.96	178.48	647.34	526.09
10.00	244.62	195.60	812.46	710.54	219.59	181.69	673.73	544.70
10.20	244.62	195.60	860.17	750.67	219.59	181.69	673.73	544.70
10.40	249.35	198.59	911.58	796.57	226.89	188.14	729.18	583.65
10.60	251.85	200.21	964.66	847.85	230.51	191.36	756.32	603.00
10.80	254.50	201.95	1017.32	903.74	234.12	194.53	781.89	621.64
11.00	257.55	203.80	1066.63	962.84	237.70	197.64	804.62	638.70
11.20	257.55	203.80	1108.05	1018.00	237.70	197.64	804.62	638.70
11.40	264.89	207.91	1138.52	1062.56	244.79	203.77	837.45	664.84
11.60	269.00	210.18	1153.18	1091.60	248.28	206.75	844.48	671.43
11.80	273.16	212.67	1151.02	1097.13	251.69	209.70	844.64	672.26
12.00	277.26	215.32	1133.64	1074.45	255.06	212.68	836.85	667.58
12.20	277.26	215.32	1099.94	1032.06	255.06	212.68	836.85	667.58
12.40	285.03	220.76	1053.99	976.31	261.82	218.61	803.22	642.68
12.60	288.86	223.61	1001.99	915.63	265.24	221.57	780.98	625.75
12.80	292.85	226.60	949.03	857.53	268.61	224.53	755.99	606.74
13.00	297.10	229.83	897.80	804.79	271.94	227.48	729.23	586.00
13.20	301.37	233.23	849.42	757.82	275.26	230.40	702.12	564.82
13.40	305.46	236.87	805.47	715.84	278.57	233.34	675.56	543.78
13.60	309.45	240.81	767.39	679.31	281.92	236.35	649.63	523.71
13.80	313.52	244.99	734.30	647.90	285.32	239.46	625.31	505.40
14.00	317.94	249.31	706.22	621.35	288.85	242.72	603.47	489.28
14.20	322.65	253.81	681.87	598.63	292.52	246.20	584.32	475.71
14.40	327.63	258.56	660.83	579.03	296.32	249.95	567.87	464.70
14.60	332.78	263.63	642.30	561.58	300.32	253.99	553.79	455.94
14.80	338.08	269.11	625.93	545.49	304.63	258.31	541.66	448.76
15.00	343.68	275.04	611.05	530.32	309.31	262.94	530.83	442.59
15.20	349.48	281.41	597.36	515.91	314.48	267.90	520.90	436.83
15.40	355.54	288.21	584.50	502.23	320.15	273.21	511.64	430.96
15.60	361.88	295.42	572.67	489.38	326.28	278.92	502.57	424.65
15.80	368.61	303.04	561.18	477.41	332.80	285.02	493.67	417.89



X	Model 17	Model 18	Model 19	Model 20	Model 21	Model 22	Model 23	Model 24
16.00	375.72	311.03	549.65	465.96	339.72	291.53	484.83	410.65
16.20	383.20	319.29	538.18	454.90	347.02	298.41	476.04	403.00
16.40	383.20	319.29	526.85	444.03	347.02	298.41	476.04	403.00
16.60	399.47	336.67	516.08	433.41	362.61	313.06	458.72	386.71
16.80	408.51	345.87	505.83	423.28	370.79	320.75	450.31	378.33
17.00	408.51	345.87	495.83	413.79	370.79	320.75	450.31	378.33
17.20	419.30	355.71	486.10	404.90	379.40	328.73	440.95	369.77
17.40	428.47	364.90	477.00	396.72	387.69	336.62	432.48	361.54
17.60	447.99	383.67	468.48	389.11	404.22	352.26	416.51	345.83
17.80	458.28	393.57	460.74	382.28	412.41	359.86	409.11	338.48
18.00	469.11	403.94	453.40	375.98	420.42	367.20	402.05	331.47
18.20	469.11	403.94	446.75	370.25	420.42	367.20	402.05	331.47
18.40	480.33	414.74	440.62	364.80	428.16	374.17	395.55	324.99
18.60	503.30	437.68	435.67	360.17	442.74	386.68	383.55	313.42
18.80	515.37	449.79	431.62	356.14	449.68	392.15	378.12	308.34
19.00	528.10	462.50	429.08	353.20	456.54	397.13	373.32	303.82
19.20	528.10	462.50	427.45	351.10	456.54	397.13	373.32	303.82
19.40	541.37	475.68	427.11	349.87	463.59	401.79	368.71	299.65
19.60	570.11	503.57	427.17	348.96	479.50	411.43	360.95	292.59
19.80	586.12	518.35	428.27	348.66	489.17	417.35	357.72	289.55
20.00	603.27	533.85	429.43	348.55	500.48	424.72	354.64	286.70
20.20	603.27	533.85	431.62	349.09	500.48	424.72	354.64	286.70
20.40	621.96	550.64	434.08	350.02	513.76	433.79	352.01	284.20
20.60	665.53	589.28	437.86	351.62	545.55	456.54	347.21	279.48
20.80	691.45	612.04	441.59	353.14	563.71	469.51	344.99	277.20
21.00	720.38	637.20	441.59	353.14	583.16	483.02	343.19	275.10
21.20	720.38	637.20	442.34	353.16	583.16	483.02	343.19	275.10
21.40	752.14	664.13	445.35	354.21	604.00	496.86	341.29	272.87
21.60	826.71	724.33	452.94	357.42	650.65	526.19	337.89	268.61
21.80	871.52	761.32	456.92	359.38	676.67	543.30	336.30	266.64
22.00	921.82	804.54	460.17	360.96	704.32	563.65	334.63	264.54
22.20	921.82	804.54	460.17	360.96	704.32	563.65	334.63	264.54
22.40	974.04	853.70	463.89	362.87	733.96	588.31	333.31	262.65
22.60	1071.82	957.83	470.14	365.68	798.98	649.79	330.81	258.86
22.80	1112.22	1007.70	471.72	366.29	832.65	685.54	329.46	256.92
23.00	1144.81	1054.10	472.72	366.42	864.69	722.55	328.01	255.05
23.20	1144.81	1054.10	472.72	366.42	864.69	722.55	328.01	255.05
23.40	1168.42	1091.23	471.65	364.82	892.72	758.50	325.79	252.87
23.60	1156.15	1096.18	462.38	356.35	904.93	791.61	316.40	246.40
23.80	1063.89	994.49	429.93	332.23	777.78	655.87	279.85	217.81
24.00	1031.66	958.60	426.87	330.39	748.91	624.79	272.70	210.98

Model	Position	Bridge Substructure Config.	Width	Span	Vertical Clearance	Heat Release Rate (HRR)
25	Abutment	Piers	13.0 m	16 m	5 m	2400 kW/m ²
26	Abutment	Piers	13.0 m	16 m	5 m	1800 kW/m ²
27	Mid-Span	Piers	13.0 m	16 m	5 m	2400 kW/m ²
28	Mid-Span	Piers	13.0 m	16 m	5 m	1800 kW/m ²
29	Abutment	Piers	13.0 m	16 m	9 m	2400 kW/m ²
30	Abutment	Piers	13.0 m	16 m	9 m	1800 kW/m ²
31	Mid-Span	Piers	13.0 m	16 m	9 m	2400 kW/m ²
32	Mid-Span	Piers	13.0 m	16 m	9 m	1800 kW/m ²



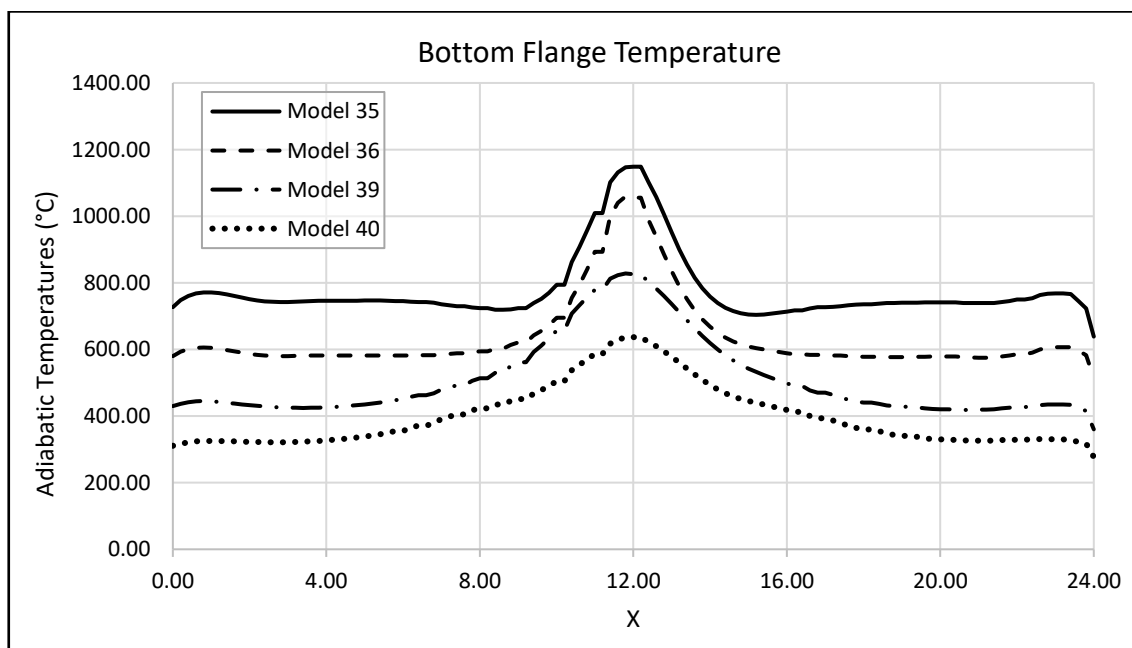
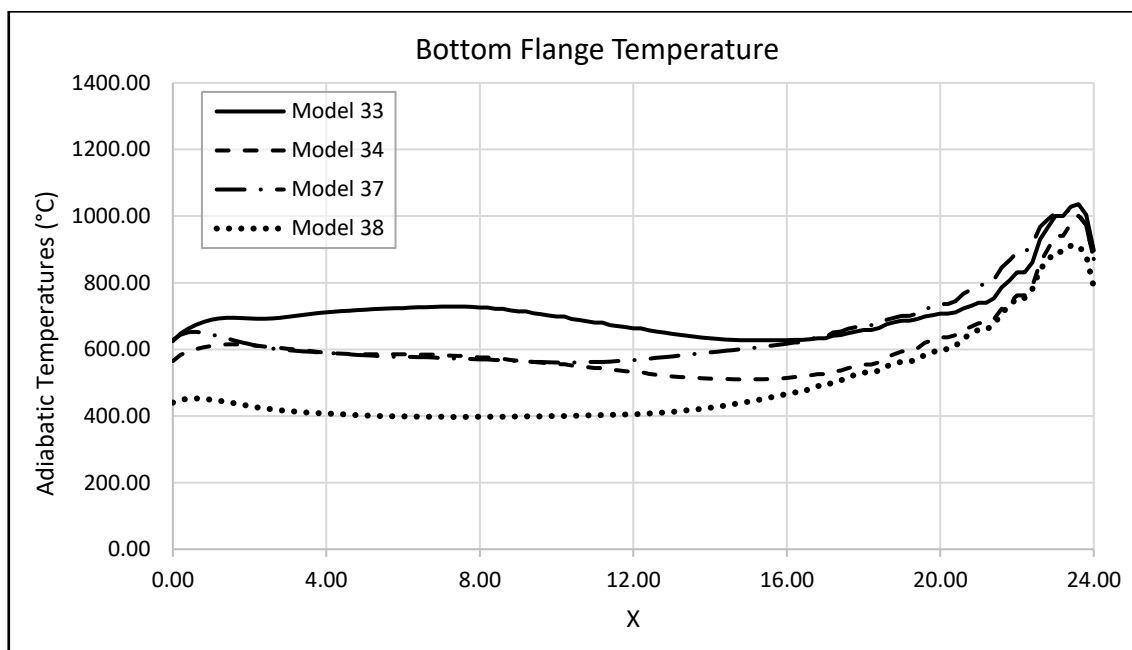


X	Model 25	Model 26	Model 27	Model 28	Model 29	Model 30	Model 31	Model 32
0.00	469.47	379.36	782.07	621.87	304.75	243.88	494.97	384.35
0.20	408.62	329.42	673.08	531.98	274.10	220.74	463.87	372.38
0.40	395.27	317.82	649.33	511.88	265.36	214.29	452.59	364.04
0.60	385.93	309.63	649.33	511.88	259.04	209.61	452.59	364.04
0.80	380.69	303.85	633.10	497.31	254.61	206.45	444.04	356.98
1.00	376.59	299.02	612.74	481.01	251.50	204.33	434.77	350.32
1.20	373.59	295.15	605.65	476.91	249.60	203.08	433.16	349.95
1.40	370.56	291.58	598.10	473.14	248.41	202.47	432.57	350.86
1.60	368.26	288.63	598.10	473.14	248.16	202.56	432.57	350.86
1.80	365.98	285.79	588.56	470.40	248.33	203.05	435.47	356.78
2.00	364.37	283.45	585.42	471.31	249.22	204.03	438.64	361.44
2.20	362.37	281.10	581.24	472.21	250.29	205.26	442.33	366.69
2.40	360.58	279.30	578.97	474.46	251.75	206.80	447.36	372.85
2.60	358.10	277.32	578.97	474.46	253.25	208.45	447.36	372.85
2.80	355.67	275.63	575.33	478.93	255.12	210.36	459.10	386.50
3.00	353.03	273.81	574.26	481.79	256.97	212.28	465.65	393.66
3.20	350.72	272.17	575.29	485.98	259.13	214.40	472.91	401.04
3.40	348.30	270.43	576.88	490.42	261.25	216.50	480.21	408.17
3.60	346.18	268.85	580.34	496.17	263.55	218.75	487.94	415.14
3.80	343.93	267.22	584.71	502.48	265.77	220.91	495.60	421.67
4.00	341.89	265.79	590.85	510.24	268.20	223.16	503.63	427.94
4.20	339.91	264.56	590.85	510.24	270.53	225.32	503.63	427.94
4.40	338.32	263.56	607.04	529.54	273.04	227.60	520.68	439.52
4.60	337.00	262.77	618.07	541.45	275.48	229.88	530.29	445.22
4.80	336.23	262.30	631.40	555.17	278.08	232.27	541.17	451.40
5.00	335.75	261.93	646.75	570.38	280.68	234.65	553.71	458.59
5.20	335.81	261.83	646.75	570.38	283.53	237.16	553.71	458.59
5.40	336.13	261.98	685.07	606.25	286.38	239.67	586.27	478.39
5.60	336.88	262.53	709.25	627.61	289.46	242.32	606.90	491.88
5.80	338.00	263.53	737.59	652.22	292.59	245.01	630.28	508.12
6.00	339.55	265.14	771.24	681.12	296.03	247.88	656.03	526.49
6.20	341.54	267.39	771.24	681.12	299.63	250.92	656.03	526.49
6.40	344.01	270.38	857.37	755.79	303.64	254.25	712.08	567.30
6.60	346.85	273.97	908.32	801.74	307.89	257.81	741.38	588.44
6.80	350.18	278.15	962.91	852.80	312.51	261.77	770.41	609.07
7.00	353.96	282.87	1018.58	907.24	317.39	266.09	797.76	628.80
7.20	358.31	288.18	1070.56	964.11	322.63	270.86	823.02	646.96
7.40	363.12	293.96	1113.10	1019.14	328.21	276.00	844.86	661.84
7.60	368.48	300.16	1142.30	1063.41	334.27	281.56	861.20	672.66
7.80	374.39	306.85	1156.55	1089.43	340.70	287.48	870.59	678.56



X	Model 25	Model 26	Model 27	Model 28	Model 29	Model 30	Model 31	Model 32
8.00	374.39	306.85	1156.42	1091.95	340.70	287.48	872.02	678.02
8.20	382.56	314.34	1141.50	1070.08	347.92	293.95	866.59	672.51
8.40	395.17	329.65	1111.75	1027.48	362.29	307.69	854.59	661.46
8.60	395.17	329.65	1068.26	972.77	362.29	307.69	837.06	646.20
8.80	409.80	346.98	1016.87	913.69	377.77	322.63	813.44	628.10
9.00	417.84	356.21	962.29	855.78	385.77	330.36	785.34	608.30
9.20	417.84	356.21	906.92	802.18	385.77	330.36	755.16	587.71
9.40	435.83	375.33	855.47	754.26	402.27	346.06	724.28	567.12
9.60	435.83	375.33	809.77	711.66	402.27	346.06	694.10	547.13
9.80	456.64	395.67	770.39	675.41	418.93	361.54	665.15	527.76
10.00	467.81	406.28	737.26	645.08	427.10	368.98	638.56	509.73
10.20	467.81	406.28	709.05	619.63	427.10	368.98	614.13	493.75
10.40	491.75	428.61	684.79	597.82	442.82	382.68	592.36	480.17
10.60	491.75	428.61	664.15	578.96	442.82	382.68	573.77	469.08
10.80	517.40	452.62	646.14	562.40	457.63	394.38	557.84	460.12
11.00	530.84	465.31	630.75	547.85	464.90	399.50	544.44	452.89
11.20	530.84	465.31	617.50	534.81	464.90	399.50	532.97	446.72
11.40	559.70	492.45	606.39	523.31	480.20	409.19	523.06	441.11
11.60	575.18	506.89	596.17	512.91	488.99	414.52	513.93	435.43
11.80	591.65	522.04	588.23	503.96	499.22	420.85	505.52	429.66
12.00	609.06	537.74	581.78	495.89	511.11	428.60	497.48	423.32
12.20	609.06	537.74	578.05	489.34	511.11	428.60	489.90	416.70
12.40	628.07	554.43	578.05	489.34	524.87	438.04	489.90	416.70
12.60	673.21	592.17	574.35	479.05	558.22	461.58	475.31	402.37
12.80	700.09	614.31	573.50	474.51	577.24	475.08	468.28	394.86
13.00	730.42	638.87	574.64	471.30	597.46	489.29	461.88	387.73
13.20	730.42	638.87	575.46	468.69	597.46	489.29	455.47	380.68
13.40	764.33	665.54	578.10	467.34	619.11	504.18	449.86	374.34
13.60	844.11	726.36	580.10	465.68	668.24	537.73	444.49	368.27
13.80	890.33	764.17	583.77	465.27	696.40	557.61	440.23	363.14
14.00	940.52	809.02	586.73	464.77	727.08	580.79	436.52	358.65
14.20	940.52	809.02	591.76	466.06	727.08	580.79	434.23	355.41
14.40	993.80	860.42	596.25	467.64	760.21	608.13	432.75	353.11
14.60	1094.71	973.59	603.33	471.63	830.69	675.82	433.03	352.45
14.80	1138.15	1030.41	610.13	475.82	865.65	715.14	434.47	353.13
15.00	1177.14	1082.00	620.13	482.84	899.13	756.44	438.16	355.74
15.20	1210.99	1128.35	630.97	491.58	931.93	796.93	443.79	360.13
15.40	1210.99	1128.35	647.90	506.48	931.93	796.93	452.46	367.08
15.60	1250.91	1176.74	672.00	528.14	981.52	854.66	463.91	375.16
15.80	1306.37	1217.45	766.02	608.13	990.20	847.52	493.29	387.01
16.00	1313.86	1218.91	766.02	608.13	984.86	839.84	493.29	387.01

Model	Position	Bridge Substructure Config.	Width	Span	Vertical Clearance	Heat Release Rate (HRR)
33	Abutment	Abutments	23.4 m	24 m	5 m	2400 kW/m ²
34	Abutment	Abutments	23.4 m	24 m	5 m	1800 kW/m ²
35	Mid-Span	Abutments	23.4 m	24 m	5 m	2400 kW/m ²
36	Mid-Span	Abutments	23.4 m	24 m	5 m	1800 kW/m ²
37	Abutment	Abutments	23.4 m	24 m	9 m	2400 kW/m ²
38	Abutment	Abutments	23.4 m	24 m	9 m	1800 kW/m ²
39	Mid-Span	Abutments	23.4 m	24 m	9 m	2400 kW/m ²
40	Mid-Span	Abutments	23.4 m	24 m	9 m	1800 kW/m ²





X	Model 33	Model 34	Model 35	Model 36	Model 37	Model 38	Model 39	Model 40
0.00	624.64	564.89	726.84	579.94	628.44	440.43	429.94	310.89
0.20	647.60	583.35	748.27	593.47	644.24	448.54	437.09	316.42
0.40	662.57	593.91	760.97	601.01	651.56	452.09	441.88	321.07
0.60	673.45	600.83	768.22	605.06	652.71	452.99	444.80	324.08
0.80	682.13	605.90	771.40	605.78	649.91	451.62	445.41	325.35
1.00	688.76	609.93	771.53	604.48	644.87	449.03	444.33	325.62
1.20	692.93	612.84	769.22	601.83	638.88	445.82	442.30	325.30
1.40	694.98	614.69	765.37	598.25	632.90	442.34	439.88	324.69
1.60	695.20	615.20	760.81	594.41	626.95	438.33	437.34	323.94
1.80	694.21	615.01	755.95	590.58	621.20	434.07	434.87	323.18
2.00	692.98	613.31	751.30	587.03	615.63	430.00	432.57	322.50
2.20	692.16	611.20	747.47	584.05	610.54	426.16	430.48	321.94
2.40	692.28	608.71	744.55	581.81	606.15	422.69	428.68	321.53
2.60	693.27	606.33	742.88	580.34	602.61	419.67	427.22	321.33
2.80	695.26	604.09	742.37	579.69	599.82	417.07	426.17	321.39
3.00	697.80	601.92	742.54	579.75	597.48	414.82	425.29	321.65
3.20	700.89	599.72	743.10	580.34	595.52	412.89	424.72	322.15
3.40	703.80	597.25	744.04	581.08	593.89	411.27	424.52	322.96
3.60	706.57	594.72	745.15	581.72	592.58	409.84	424.70	324.04
3.80	709.02	592.38	745.73	582.07	591.32	408.53	425.20	325.38
4.00	710.89	590.27	746.05	581.86	589.90	407.34	426.14	326.93
4.20	712.68	588.47	746.31	581.47	588.33	406.20	427.37	328.67
4.40	714.49	587.15	746.18	581.34	586.69	405.05	428.79	330.63
4.60	716.04	586.30	746.12	581.47	585.17	403.90	430.46	332.91
4.80	717.49	585.86	746.41	581.51	583.69	402.81	432.46	335.52
5.00	719.03	585.66	746.89	581.58	582.28	401.80	434.92	338.48
5.20	720.45	585.65	747.17	581.87	581.04	400.90	437.72	341.82
5.40	721.59	585.58	747.00	581.93	579.87	400.15	440.87	345.57
5.60	722.54	585.64	746.46	581.71	578.76	399.55	444.33	349.83
5.80	723.54	585.61	745.56	581.58	577.85	399.13	448.30	354.60
6.00	723.54	585.61	745.56	581.58	577.85	399.13	448.30	354.60
6.20	725.86	585.51	743.64	582.21	577.31	398.82	457.80	365.65
6.40	726.80	584.74	741.89	582.37	576.21	398.30	462.79	371.68
6.60	726.80	584.74	741.89	582.37	576.21	398.30	462.79	371.68
6.80	727.52	584.14	739.86	583.00	575.33	397.92	468.20	377.97
7.00	728.07	582.69	735.51	585.40	573.97	397.43	479.68	391.22
7.20	728.15	581.78	732.75	586.94	573.19	397.26	485.74	398.03
7.40	727.96	580.43	730.24	588.58	572.48	397.20	492.16	404.76
7.60	727.96	580.43	730.24	588.58	572.48	397.20	492.16	404.76
7.80	726.98	577.20	726.01	592.16	570.55	397.49	506.19	417.60

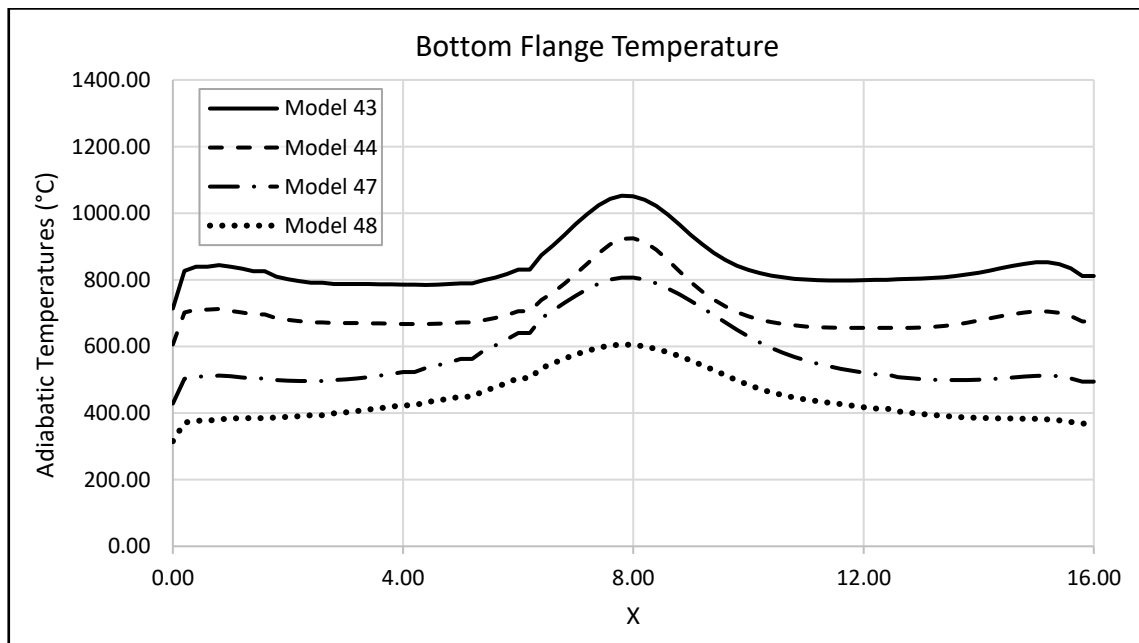
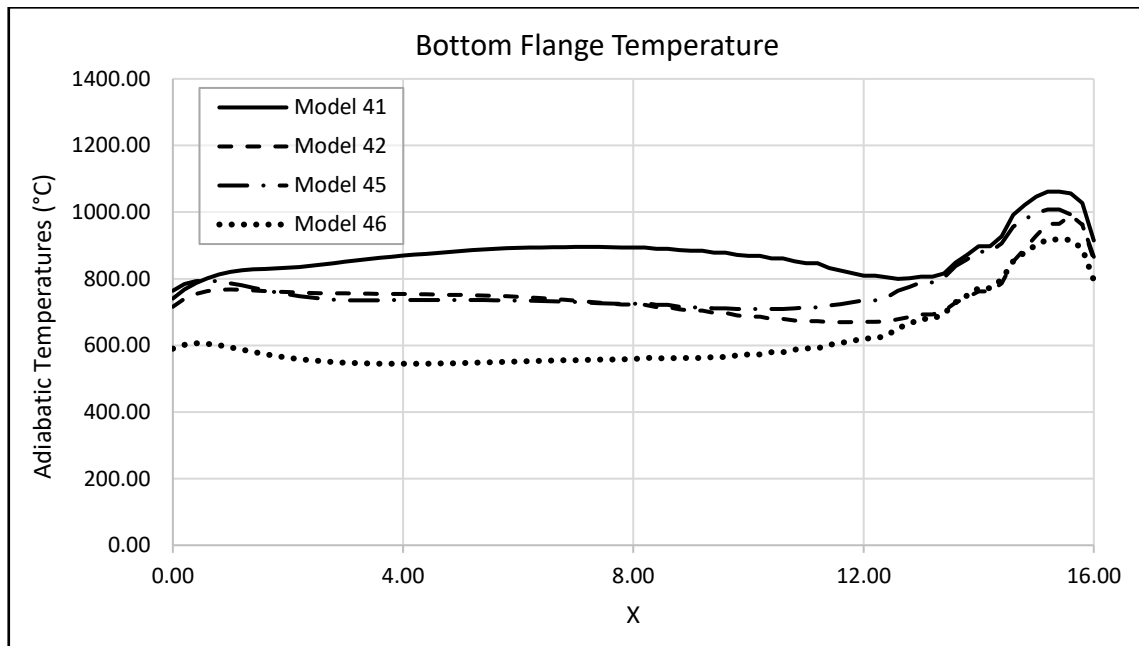


X	Model 33	Model 34	Model 35	Model 36	Model 37	Model 38	Model 39	Model 40
8.00	725.77	575.55	723.72	594.70	569.59	397.63	513.62	423.57
8.20	725.77	575.55	723.72	594.70	569.59	397.63	513.62	423.57
8.40	721.75	571.99	719.45	602.06	567.62	397.86	529.90	434.63
8.60	721.75	571.99	719.45	602.06	567.62	397.86	529.90	434.63
8.80	716.73	568.34	720.10	613.56	565.58	398.20	549.67	445.22
9.00	714.20	566.44	723.64	621.23	564.56	398.36	561.88	451.18
9.20	714.20	566.44	723.64	621.23	564.56	398.36	561.88	451.18
9.40	708.36	561.78	738.91	641.90	562.59	398.84	592.62	467.04
9.60	705.30	559.83	751.93	655.90	561.72	399.13	611.82	477.80
9.80	701.97	557.69	769.95	673.46	560.98	399.41	633.53	490.64
10.00	698.46	555.62	793.86	695.11	560.52	399.75	656.92	505.23
10.20	698.46	555.62	793.86	695.11	560.52	399.75	656.92	505.23
10.40	691.14	551.50	862.26	754.61	560.68	400.38	707.30	537.39
10.60	687.61	549.18	907.27	793.96	561.20	400.87	732.53	553.87
10.80	683.98	546.62	957.30	840.10	561.78	401.50	756.62	570.35
11.00	680.29	544.05	1009.68	892.66	562.31	402.16	778.59	586.98
11.20	680.29	544.05	1009.68	892.66	562.31	402.16	778.59	586.98
11.40	673.15	539.21	1101.74	999.75	563.58	403.35	812.32	617.37
11.60	669.77	536.74	1131.44	1040.21	564.56	403.96	823.16	628.91
11.80	666.46	534.32	1146.91	1059.32	565.97	404.66	828.08	636.07
12.00	663.26	531.94	1148.58	1055.53	567.80	405.40	826.13	636.83
12.20	663.26	531.94	1148.58	1055.53	567.80	405.40	826.13	636.83
12.40	656.94	526.58	1101.62	988.74	572.11	407.59	802.08	622.44
12.60	653.54	523.92	1057.76	938.24	574.32	409.01	782.83	609.41
12.80	650.17	521.44	1005.89	885.22	576.54	410.60	760.71	594.30
13.00	647.05	519.24	951.80	835.16	578.95	412.36	736.43	577.65
13.20	644.04	517.40	900.26	789.80	581.54	414.33	711.62	560.31
13.40	641.02	515.87	854.40	750.50	584.07	416.58	687.02	542.82
13.60	638.01	514.65	815.70	717.69	586.41	419.06	663.08	525.38
13.80	635.31	513.61	783.85	690.50	588.73	421.72	640.26	508.54
14.00	633.19	512.66	758.97	668.11	590.99	424.70	618.93	493.05
14.20	631.25	511.69	739.82	650.09	593.34	427.96	599.56	479.45
14.40	629.49	510.79	725.38	635.70	595.69	431.49	582.19	468.01
14.60	628.21	510.13	715.06	624.33	598.11	435.14	567.03	458.72
14.80	627.62	509.83	708.53	615.72	600.48	438.91	553.89	451.22
15.00	627.67	509.86	705.15	609.04	602.90	442.69	542.47	445.05
15.20	627.81	510.10	704.28	603.84	605.32	446.87	532.29	439.65
15.40	627.63	510.57	705.16	599.64	607.97	451.28	523.05	434.52
15.60	627.28	511.35	707.28	595.82	610.81	455.99	514.36	429.28
15.80	627.20	512.62	710.32	592.04	613.86	460.87	506.11	423.88



X	Model 33	Model 34	Model 35	Model 36	Model 37	Model 38	Model 39	Model 40
16.00	627.64	514.44	713.71	588.60	617.32	465.90	498.20	418.20
16.20	628.25	516.52	716.90	586.06	621.15	471.14	490.62	412.21
16.40	628.25	516.52	716.90	586.06	621.15	471.14	490.62	412.21
16.60	630.75	521.82	723.48	583.69	630.30	482.79	476.74	399.70
16.80	633.53	525.69	726.71	583.38	636.21	489.96	470.46	393.40
17.00	633.53	525.69	726.71	583.38	636.21	489.96	470.46	393.40
17.20	640.68	533.91	727.69	582.17	650.10	501.47	463.74	386.99
17.40	642.47	536.39	729.55	581.53	653.87	506.75	458.06	380.92
17.60	648.66	544.02	732.77	579.98	662.52	517.91	448.07	369.49
17.80	653.19	549.04	734.36	578.95	667.37	523.97	443.78	364.25
18.00	658.29	554.85	735.81	578.22	672.48	530.22	440.08	359.37
18.20	658.29	554.85	735.81	578.22	672.48	530.22	440.08	359.37
18.40	663.75	561.49	737.01	577.63	677.86	536.55	436.91	354.84
18.60	675.56	576.82	738.92	577.16	689.14	549.55	431.66	346.87
18.80	681.07	585.00	739.56	577.31	694.97	556.15	429.62	343.47
19.00	686.02	593.47	740.18	577.43	700.94	562.72	427.79	340.45
19.20	686.02	593.47	740.18	577.43	700.94	562.72	427.79	340.45
19.40	690.57	602.24	740.57	577.47	707.18	569.44	426.12	337.75
19.60	698.51	619.58	741.59	578.23	720.43	583.55	423.05	333.15
19.80	702.63	627.82	741.76	578.70	727.78	591.44	421.73	331.27
20.00	706.98	635.74	741.72	578.89	735.95	600.32	420.64	329.66
20.20	706.98	635.74	741.72	578.89	735.95	600.32	420.64	329.66
20.40	711.31	642.85	741.37	578.66	745.01	610.16	419.68	328.32
20.60	722.40	658.28	739.60	577.06	766.81	632.99	418.48	326.63
20.80	730.05	667.45	739.14	575.79	779.55	645.83	418.49	326.33
21.00	740.19	678.20	739.21	574.98	793.48	659.58	418.99	326.32
21.20	740.19	678.20	739.21	574.98	793.48	659.58	418.99	326.32
21.40	753.01	690.94	739.63	575.09	808.81	674.34	420.01	326.59
21.60	786.01	722.02	742.38	578.77	845.35	709.00	423.11	327.64
21.80	806.40	740.38	745.49	582.08	866.98	730.12	425.00	328.29
22.00	831.00	762.48	749.55	586.04	890.88	754.12	427.07	328.95
22.20	831.00	762.48	749.55	586.04	890.88	754.12	427.07	328.95
22.40	860.70	789.93	754.25	590.62	916.06	781.00	429.12	329.58
22.60	930.19	860.06	763.74	600.22	967.29	839.61	432.95	330.53
22.80	966.05	900.45	767.18	604.39	990.24	868.05	434.37	330.59
23.00	1000.62	941.21	768.38	607.04	1008.98	892.72	434.78	330.00
23.20	1000.62	941.21	768.38	607.04	1008.98	892.72	434.78	330.00
23.40	1028.23	977.50	766.08	607.10	1019.55	911.01	433.54	328.51
23.60	1035.91	1001.03	745.15	596.26	1004.98	910.68	423.86	321.94
23.80	1004.23	974.01	723.11	582.41	972.16	882.33	415.38	317.16
24.00	896.71	869.53	638.63	513.42	870.83	786.87	360.13	277.05

Model	Position	Bridge Substructure Config.	Width	Span	Vertical Clearance	Heat Release Rate (HRR)
41	Abutment	Abutments	23.4 m	16 m	5 m	2400 kW/m ²
42	Abutment	Abutments	23.4 m	16 m	5 m	1800 kW/m ²
43	Mid-Span	Abutments	23.4 m	16 m	5 m	2400 kW/m ²
44	Mid-Span	Abutments	23.4 m	16 m	5 m	1800 kW/m ²
45	Abutment	Abutments	23.4 m	16 m	9 m	2400 kW/m ²
46	Abutment	Abutments	23.4 m	16 m	9 m	1800 kW/m ²
47	Mid-Span	Abutments	23.4 m	16 m	9 m	2400 kW/m ²
48	Mid-Span	Abutments	23.4 m	16 m	9 m	1800 kW/m ²



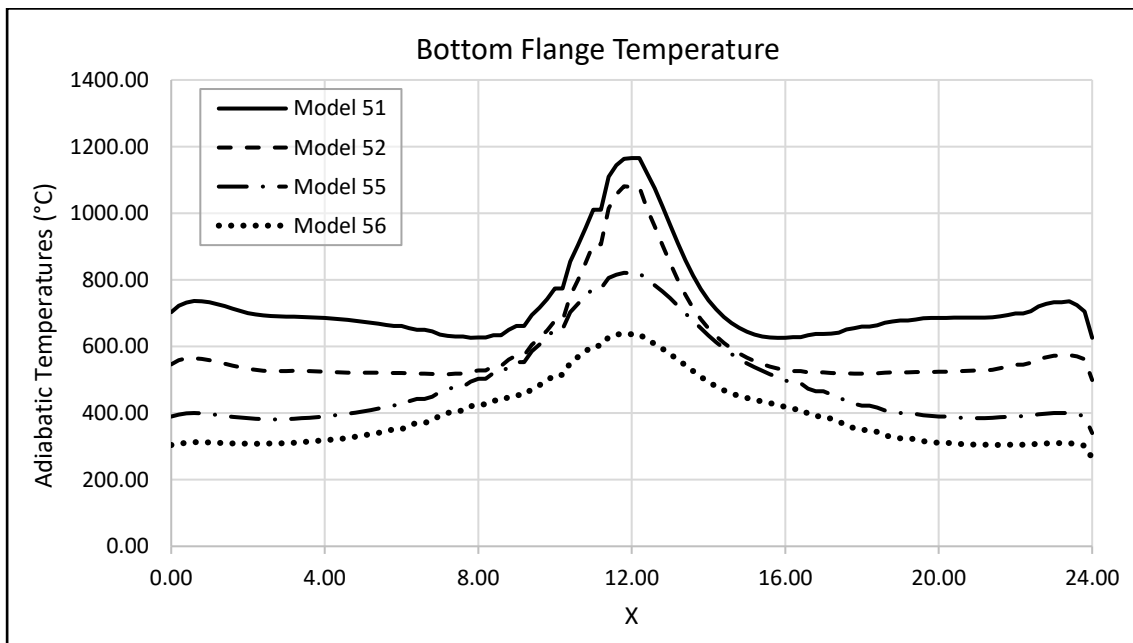
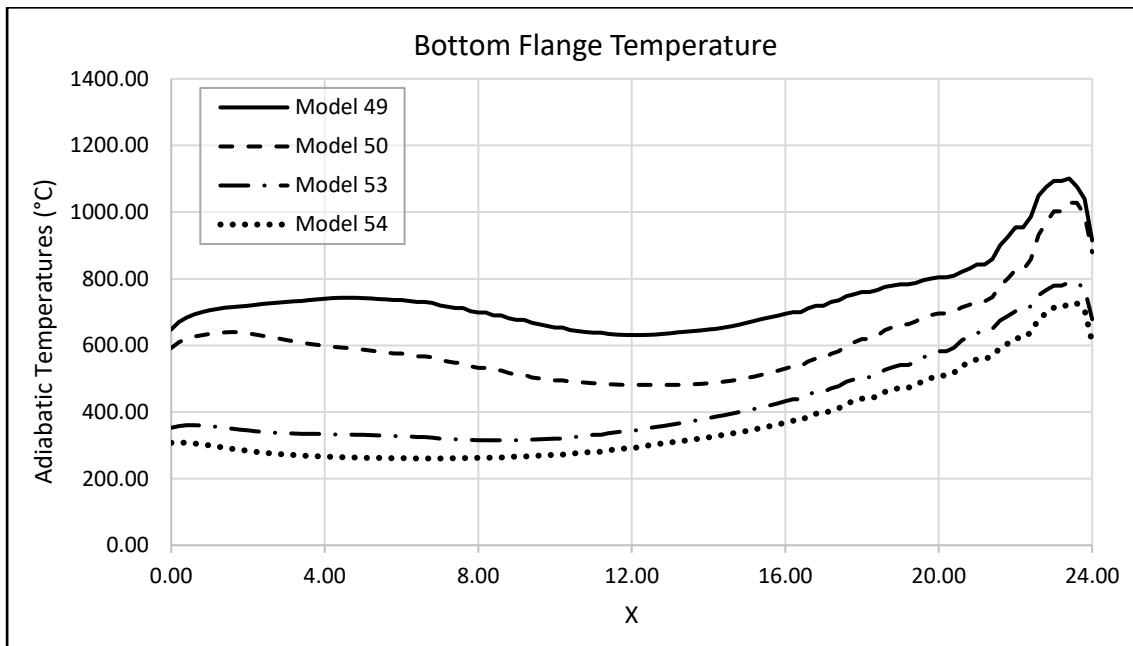


X	Model 41	Model 42	Model 43	Model 44	Model 45	Model 46	Model 47	Model 48
0.00	740.56	716.29	713.79	605.85	764.28	590.05	428.51	315.56
0.20	767.92	739.93	827.10	702.14	783.95	601.82	503.40	371.63
0.40	787.21	754.07	839.49	710.36	792.80	606.37	509.33	377.24
0.60	801.79	762.56	839.49	710.36	794.54	604.90	509.33	377.24
0.80	812.75	766.89	844.46	712.51	791.65	600.17	512.59	381.22
1.00	820.58	767.57	839.62	707.02	786.42	594.08	510.17	384.25
1.20	825.30	766.85	833.15	701.90	780.03	587.47	507.21	384.72
1.40	828.08	765.24	825.52	696.23	773.05	580.57	504.09	385.21
1.60	829.78	763.41	825.52	696.23	766.03	574.06	504.09	385.21
1.80	831.29	761.34	809.63	684.82	759.44	568.27	499.03	387.13
2.00	832.89	759.84	802.13	679.81	753.38	563.14	497.42	388.65
2.20	835.36	758.54	796.07	675.63	747.94	558.78	496.53	390.57
2.40	838.58	757.42	791.70	672.56	743.41	555.09	496.45	392.96
2.60	842.45	756.61	791.70	672.56	739.68	552.10	496.45	392.96
2.80	846.71	756.27	787.81	669.85	737.06	549.80	498.92	398.85
3.00	851.21	755.97	787.39	669.71	735.35	548.15	501.30	402.28
3.20	855.53	755.56	787.32	669.76	734.88	546.83	504.36	406.11
3.40	859.23	755.09	787.02	669.47	735.00	545.94	508.02	410.24
3.60	862.69	754.59	786.64	668.76	735.38	545.34	512.31	414.62
3.80	866.06	754.28	786.04	667.94	735.72	545.05	517.24	419.09
4.00	869.35	754.00	785.18	667.31	735.89	544.93	522.90	423.61
4.20	872.27	753.60	785.18	667.31	735.89	545.00	522.90	423.61
4.40	874.96	753.13	784.50	667.63	735.90	545.28	535.90	432.79
4.60	877.76	752.47	785.22	668.36	736.04	545.66	543.50	437.69
4.80	880.66	751.76	786.99	669.65	736.22	546.16	552.11	443.12
5.00	883.33	751.04	789.81	671.70	736.33	546.74	562.12	449.46
5.20	885.87	750.41	789.81	671.70	736.27	547.50	562.12	449.46
5.40	888.11	749.44	799.36	679.08	736.01	548.39	587.39	466.33
5.60	890.14	748.42	806.81	685.22	735.62	549.44	603.01	477.46
5.80	891.73	747.28	816.90	693.76	735.12	550.61	620.71	490.30
6.00	892.69	745.83	830.82	705.29	734.47	551.70	640.55	504.45
6.20	893.25	744.05	830.82	705.29	733.87	552.79	640.55	504.45
6.40	893.79	741.77	873.68	739.06	733.16	553.64	684.80	534.55
6.60	894.44	739.21	902.52	761.62	732.26	554.40	707.91	549.41
6.80	895.07	736.62	934.48	787.95	731.41	555.07	730.62	563.40
7.00	895.63	733.83	966.96	817.29	730.18	555.87	752.05	575.78
7.20	895.74	730.99	997.13	848.30	728.57	556.54	771.75	586.91
7.40	895.50	728.10	1023.42	879.98	726.76	557.15	788.74	596.31
7.60	895.01	725.28	1042.69	906.99	725.16	557.63	800.68	602.52
7.80	894.10	722.63	1052.41	922.49	724.18	558.53	806.45	605.54



X	Model 41	Model 42	Model 43	Model 44	Model 45	Model 46	Model 47	Model 48
8.00	894.10	722.63	1050.64	924.63	724.18	558.53	806.24	604.49
8.20	893.52	721.70	1040.61	913.06	727.32	562.75	800.55	599.84
8.40	890.07	715.13	1022.37	890.22	721.61	561.19	789.36	592.36
8.60	890.07	715.13	996.42	859.47	721.61	561.19	774.30	582.46
8.80	886.24	708.16	966.18	825.71	716.32	561.73	756.72	570.88
9.00	884.03	704.46	934.83	793.20	714.01	562.54	736.74	557.77
9.20	884.03	704.46	906.29	764.64	714.01	562.54	715.68	543.52
9.40	878.61	697.24	881.00	740.17	710.90	565.37	693.91	528.49
9.60	878.61	697.24	859.71	719.86	710.90	565.37	671.62	513.22
9.80	871.92	689.99	842.57	703.28	709.49	569.94	650.25	498.33
10.00	868.34	686.48	829.69	690.17	709.22	572.87	630.26	484.50
10.20	868.34	686.48	820.18	680.10	709.22	572.87	611.95	472.30
10.40	861.15	679.83	812.78	672.71	709.32	579.86	595.47	462.00
10.60	861.15	679.83	807.26	667.17	709.32	579.86	580.93	453.51
10.80	852.14	674.39	803.22	663.07	711.58	587.06	568.29	446.63
11.00	846.25	672.43	800.51	660.05	713.62	591.21	557.53	440.88
11.20	846.25	672.43	798.96	657.92	713.62	591.21	548.28	435.87
11.40	832.54	669.94	798.21	656.66	719.53	601.26	540.26	431.20
11.60	824.71	669.62	798.03	656.01	723.69	607.01	533.14	426.66
11.80	816.78	669.82	798.43	655.71	728.99	613.48	526.94	422.17
12.00	809.55	670.40	798.91	655.51	735.56	620.99	521.41	417.70
12.20	809.55	670.40	799.49	655.51	735.56	620.99	516.36	413.28
12.40	803.89	671.75	799.49	655.51	743.49	629.89	516.36	413.28
12.60	799.16	678.56	801.63	655.60	763.63	651.98	507.82	404.80
12.80	801.18	684.94	802.95	655.71	775.57	664.96	504.58	400.88
13.00	806.70	693.23	804.13	656.45	788.80	679.05	501.99	397.29
13.20	806.70	693.23	805.51	658.42	788.80	679.05	500.09	394.07
13.40	816.22	703.32	807.67	661.44	803.33	694.33	498.97	391.27
13.60	848.81	728.81	811.11	665.56	837.95	729.00	498.72	388.90
13.80	871.34	743.91	815.82	671.11	858.61	749.30	499.24	386.99
14.00	897.32	762.39	821.51	677.68	881.50	772.11	500.33	385.54
14.20	897.32	762.39	828.15	684.20	881.50	772.11	501.99	384.48
14.40	926.93	786.30	835.07	690.85	906.02	797.23	504.27	383.82
14.60	991.54	851.09	842.15	697.06	955.87	852.61	506.89	383.44
14.80	1021.93	889.86	848.36	702.25	978.74	879.03	509.63	383.18
15.00	1046.71	929.51	852.32	705.31	997.32	901.68	511.88	382.71
15.20	1061.51	965.06	852.31	705.05	1007.83	917.79	512.52	381.25
15.40	1061.51	965.06	847.00	700.67	1007.83	917.79	510.33	378.21
15.60	1056.52	990.49	834.82	691.20	993.11	916.58	504.31	373.68
15.80	1026.85	962.37	811.65	674.67	964.13	889.53	493.96	368.32
16.00	915.23	857.05	811.65	674.67	866.05	796.07	493.96	368.32

Model	Position	Bridge Substructure Config.	Width	Span	Vertical Clearance	Heat Release Rate (HRR)
49	Abutment	Abutments	13.0 m	24 m	5 m	2400 kW/m ²
50	Abutment	Abutments	13.0 m	24 m	5 m	1800 kW/m ²
51	Mid-Span	Abutments	13.0 m	24 m	5 m	2400 kW/m ²
52	Mid-Span	Abutments	13.0 m	24 m	5 m	1800 kW/m ²
53	Abutment	Abutments	13.0 m	24 m	9 m	2400 kW/m ²
54	Abutment	Abutments	13.0 m	24 m	9 m	1800 kW/m ²
55	Mid-Span	Abutments	13.0 m	24 m	9 m	2400 kW/m ²
56	Mid-Span	Abutments	13.0 m	24 m	9 m	1800 kW/m ²





X	Model 49	Model 50	Model 51	Model 52	Model 53	Model 54	Model 55	Model 56
0.00	647.83	591.62	703.00	545.80	353.06	307.54	389.27	303.80
0.20	669.59	609.20	722.25	558.80	357.78	308.74	395.31	308.17
0.40	683.26	619.44	731.87	563.99	359.91	307.71	399.27	311.18
0.60	692.86	626.20	736.01	564.69	359.96	305.65	400.21	312.83
0.80	699.77	630.67	735.90	562.50	359.00	302.83	399.16	312.85
1.00	705.01	634.01	732.55	558.46	357.50	299.67	396.90	312.11
1.20	709.42	636.61	727.28	553.65	355.50	296.32	394.11	311.12
1.40	712.78	638.72	720.67	548.31	352.78	292.72	391.37	310.16
1.60	715.15	639.70	713.53	542.78	350.00	289.29	388.79	309.31
1.80	717.25	638.74	706.49	537.38	347.31	286.13	386.50	308.68
2.00	719.27	636.23	700.25	532.82	344.77	283.17	384.47	308.24
2.20	721.65	632.53	695.83	529.48	342.24	280.47	382.86	308.08
2.40	724.46	628.69	693.03	527.15	340.10	278.05	381.75	308.16
2.60	726.67	624.50	691.35	526.31	338.38	275.95	381.26	308.50
2.80	728.64	620.37	690.13	526.11	337.06	274.04	381.38	309.14
3.00	730.51	616.20	689.68	526.35	336.03	272.31	382.01	310.00
3.20	732.19	612.18	689.08	526.56	335.33	270.70	382.98	311.10
3.40	733.68	608.13	688.16	526.38	334.84	269.23	384.28	312.52
3.60	735.88	604.46	687.28	525.74	334.52	267.89	385.87	314.18
3.80	738.38	601.34	686.53	524.74	333.99	266.74	387.76	316.08
4.00	740.32	598.59	685.31	523.73	333.30	265.73	389.97	318.11
4.20	742.21	595.81	683.64	522.82	332.95	264.98	392.36	320.28
4.40	743.06	594.05	681.81	521.99	332.64	264.36	395.01	322.73
4.60	743.11	592.02	679.74	521.39	332.34	263.78	397.98	325.54
4.80	743.12	589.55	677.13	521.35	331.80	263.26	401.27	328.79
5.00	742.03	586.71	674.34	521.14	331.32	262.78	404.92	332.42
5.20	740.48	583.79	671.30	521.01	330.49	262.38	408.86	336.45
5.40	738.88	581.19	668.14	521.00	329.54	261.98	413.20	340.95
5.60	737.56	578.45	664.85	520.71	328.42	261.57	418.04	345.96
5.80	736.02	575.27	661.38	520.20	327.41	261.20	423.40	351.50
6.00	736.02	575.27	661.38	520.20	327.41	261.20	423.40	351.50
6.20	733.09	570.68	654.95	519.26	326.32	261.10	435.91	364.05
6.40	730.32	567.15	650.06	517.99	324.78	260.70	442.34	370.73
6.60	730.32	567.15	650.06	517.99	324.78	260.70	442.34	370.73
6.80	727.28	563.70	645.05	517.01	323.28	260.49	449.13	377.74
7.00	720.14	556.25	635.84	516.43	320.26	260.50	463.65	392.43
7.20	715.86	551.79	632.15	516.85	318.87	260.67	471.17	399.81
7.40	711.60	547.38	629.34	518.36	317.68	260.98	478.80	407.01
7.60	711.60	547.38	629.34	518.36	317.68	260.98	478.80	407.01
7.80	702.93	537.39	626.39	524.06	315.98	261.89	494.43	420.32

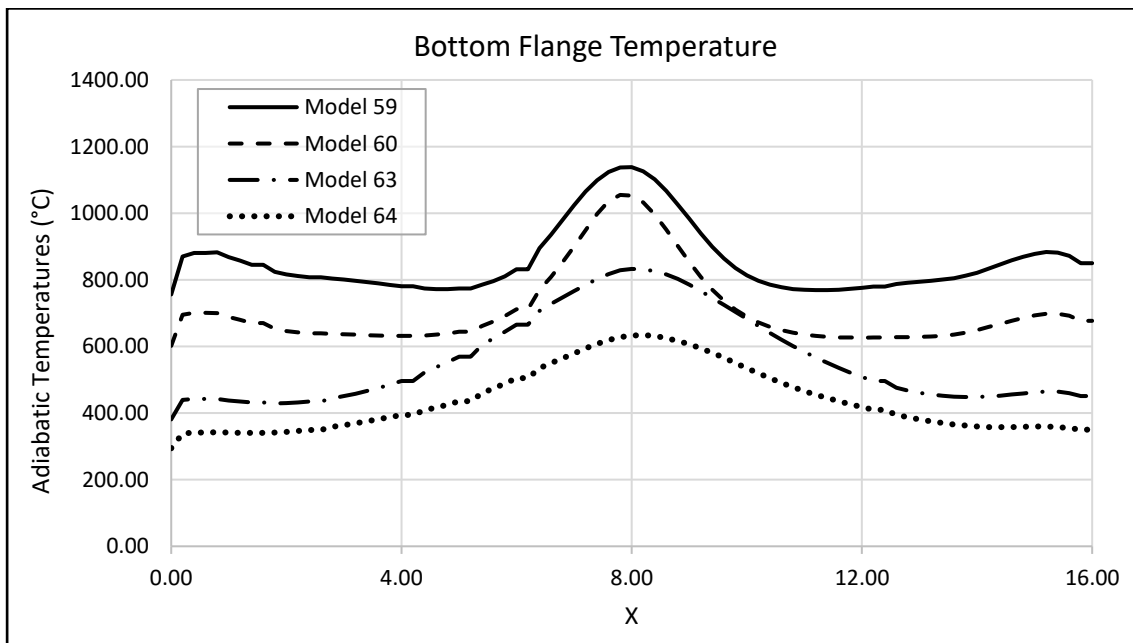
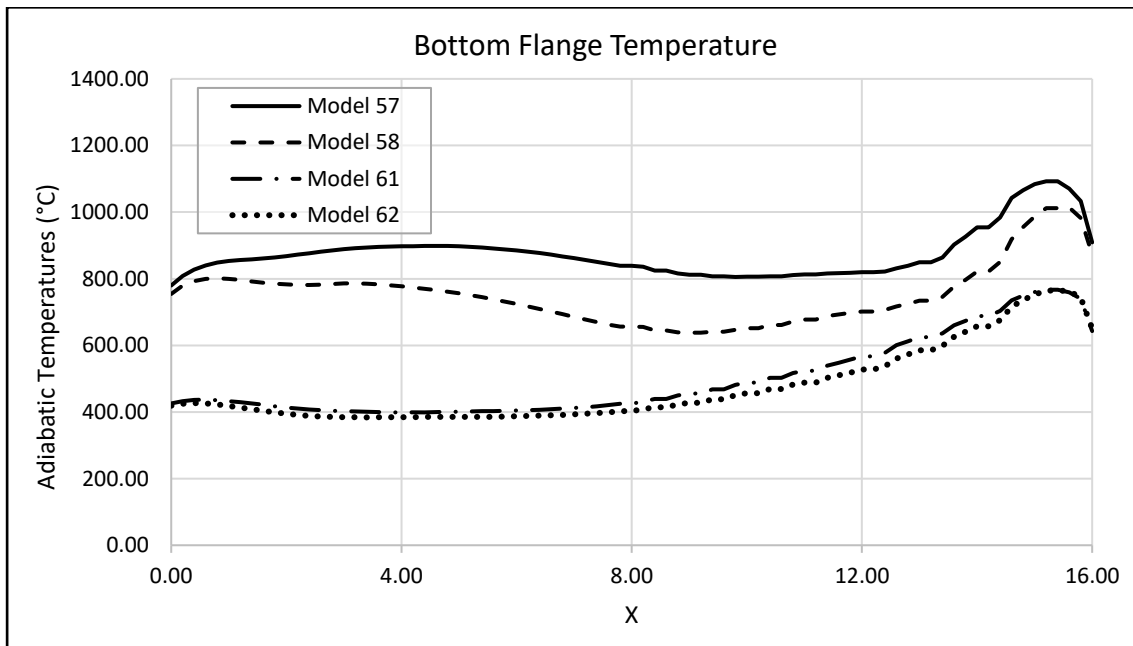


X	Model 49	Model 50	Model 51	Model 52	Model 53	Model 54	Model 55	Model 56
8.00	698.61	532.75	626.85	528.40	315.43	262.34	502.57	426.33
8.20	698.61	532.75	626.85	528.40	315.43	262.34	502.57	426.33
8.40	690.18	524.65	633.44	541.19	315.03	263.41	520.00	437.25
8.60	690.18	524.65	633.44	541.19	315.03	263.41	520.00	437.25
8.80	681.37	516.54	649.75	560.61	315.25	265.03	540.75	448.01
9.00	676.71	512.07	661.87	573.26	315.63	265.92	553.33	454.34
9.20	676.71	512.07	661.87	573.26	315.63	265.92	553.33	454.34
9.40	667.41	503.97	694.66	604.96	316.87	267.85	585.45	471.79
9.60	662.87	500.56	716.43	624.89	317.85	268.94	605.48	483.76
9.80	658.32	497.58	742.60	648.48	319.00	270.19	627.75	498.00
10.00	653.89	494.95	773.82	676.83	320.39	271.58	651.84	514.22
10.20	653.89	494.95	773.82	676.83	320.39	271.58	651.84	514.22
10.40	645.90	491.18	854.33	751.55	323.97	274.74	702.72	550.16
10.60	642.60	489.78	903.56	798.54	326.19	276.59	728.02	568.25
10.80	639.86	488.27	955.93	850.76	328.56	278.51	752.15	585.64
11.00	637.94	486.47	1010.22	906.68	331.12	280.60	773.80	601.83
11.20	637.94	486.47	1010.22	906.68	331.12	280.60	773.80	601.83
11.40	634.58	483.61	1109.08	1014.29	336.61	285.15	805.41	627.76
11.60	632.73	482.58	1144.29	1056.52	339.41	287.66	815.31	635.79
11.80	631.55	481.81	1163.60	1080.79	342.21	290.33	820.99	638.51
12.00	631.01	481.33	1165.47	1078.71	345.06	293.21	819.61	636.45
12.20	631.01	481.33	1165.47	1078.71	345.06	293.21	819.61	636.45
12.40	631.14	481.36	1119.84	1013.38	350.96	299.32	799.53	620.38
12.60	632.31	481.18	1074.31	960.41	354.20	302.31	784.05	607.53
12.80	634.12	481.24	1021.21	905.09	357.63	305.24	765.43	592.93
13.00	636.62	481.47	965.66	850.75	361.27	308.11	744.67	577.10
13.20	638.88	481.68	910.34	800.23	365.17	311.03	722.30	560.20
13.40	640.70	482.08	858.80	754.30	369.16	314.10	699.25	542.97
13.60	642.79	482.94	812.23	714.80	373.23	317.34	676.58	525.72
13.80	645.09	484.59	772.09	681.80	377.45	320.65	654.46	509.02
14.00	647.32	486.38	738.69	654.09	381.79	324.17	632.99	493.56
14.20	649.82	488.56	711.24	630.43	386.10	327.93	612.92	479.86
14.40	653.13	491.07	688.66	610.62	390.51	331.71	594.25	468.28
14.60	657.35	494.22	670.36	593.68	395.02	335.53	577.32	458.86
14.80	662.49	498.03	655.63	578.97	399.66	339.43	562.40	451.33
15.00	668.06	502.24	644.04	566.42	404.49	343.48	549.29	445.19
15.20	673.63	506.86	635.48	555.68	409.42	347.78	537.50	439.86
15.40	679.00	511.94	629.83	546.85	414.48	352.30	526.79	434.85
15.60	684.04	517.70	626.76	539.68	419.97	357.21	516.89	429.71
15.80	689.11	523.92	625.77	533.85	425.84	362.42	507.53	424.21



X	Model 49	Model 50	Model 51	Model 52	Model 53	Model 54	Model 55	Model 56
16.00	694.39	530.40	626.15	529.25	432.06	367.98	498.57	418.23
16.20	699.79	536.97	627.63	525.87	438.64	373.94	489.89	411.80
16.40	699.79	536.97	627.63	525.87	438.64	373.94	489.89	411.80
16.60	711.29	551.42	633.44	522.21	452.87	387.31	473.19	397.92
16.80	718.57	560.70	637.26	521.86	460.72	394.72	465.17	390.56
17.00	718.57	560.70	637.26	521.86	460.72	394.72	465.17	390.56
17.20	729.97	574.69	638.15	519.99	471.06	404.53	456.32	382.89
17.40	735.39	582.15	641.81	519.41	477.29	411.28	448.52	375.55
17.60	747.56	600.07	650.94	519.09	490.59	425.50	434.32	361.55
17.80	753.81	609.66	655.19	518.78	497.51	432.69	427.87	355.04
18.00	759.84	619.17	659.66	518.80	504.71	439.80	421.99	348.89
18.20	759.84	619.17	659.66	518.80	504.71	439.80	421.99	348.89
18.40	765.64	628.27	663.64	519.43	512.02	446.87	416.63	343.11
18.60	775.40	646.02	671.16	521.22	526.77	460.27	407.44	332.91
18.80	779.51	654.86	674.55	521.76	534.11	466.64	403.71	328.46
19.00	783.42	663.28	677.91	522.41	541.34	473.13	400.48	324.49
19.20	783.42	663.28	677.91	522.41	541.34	473.13	400.48	324.49
19.40	787.49	671.38	680.98	522.82	548.68	479.77	397.66	321.02
19.60	795.95	685.23	685.04	523.23	564.42	493.54	393.16	315.37
19.80	800.03	690.97	685.77	523.54	573.07	501.14	391.34	313.03
20.00	804.32	696.21	686.02	523.90	582.46	509.42	389.66	311.02
20.20	804.32	696.21	686.02	523.90	582.46	509.42	389.66	311.02
20.40	808.70	701.50	686.22	524.52	592.47	518.38	388.07	309.30
20.60	820.98	713.82	686.46	526.06	614.60	538.19	385.65	306.73
20.80	830.33	721.71	686.66	526.89	626.22	548.50	385.10	305.78
21.00	842.87	731.84	686.66	527.94	637.97	558.70	384.94	305.00
21.20	842.87	731.84	686.66	527.94	637.97	558.70	384.94	305.00
21.40	859.12	744.80	687.00	529.44	649.79	569.04	385.34	304.54
21.60	900.76	779.17	690.22	534.90	674.65	591.92	387.16	304.40
21.80	925.78	800.53	693.80	539.39	688.39	605.85	388.65	304.67
22.00	954.61	826.66	699.05	544.78	702.80	621.63	390.33	305.10
22.20	954.61	826.66	699.05	544.78	702.80	621.63	390.33	305.10
22.40	986.01	858.28	705.70	550.63	718.07	639.27	392.16	305.86
22.60	1049.17	931.13	720.40	562.48	750.17	678.00	396.05	308.01
22.80	1075.81	968.45	727.40	567.82	765.60	696.86	398.05	309.23
23.00	1093.67	1002.13	732.64	572.01	778.96	713.41	399.75	310.17
23.20	1093.67	1002.13	732.64	572.01	778.96	713.41	399.75	310.17
23.40	1100.90	1027.95	735.07	573.95	788.68	725.42	400.54	310.22
23.60	1076.09	1027.95	723.69	570.09	787.96	725.70	396.16	306.39
23.80	1039.39	990.35	704.97	561.52	771.18	706.66	390.21	302.57
24.00	914.93	879.08	625.79	499.14	678.92	609.65	339.94	264.78

Model	Position	Bridge Substructure Config.	Width	Span	Vertical Clearance	Heat Release Rate (HRR)
57	Abutment	Abutments	13.0 m	16 m	5 m	2400 kW/m ²
58	Abutment	Abutments	13.0 m	16 m	5 m	1800 kW/m ²
59	Mid-Span	Abutments	13.0 m	16 m	5 m	2400 kW/m ²
60	Mid-Span	Abutments	13.0 m	16 m	5 m	1800 kW/m ²
61	Abutment	Abutments	13.0 m	16 m	9 m	2400 kW/m ²
62	Abutment	Abutments	13.0 m	16 m	9 m	1800 kW/m ²
63	Mid-Span	Abutments	13.0 m	16 m	9 m	2400 kW/m ²
64	Mid-Span	Abutments	13.0 m	16 m	9 m	1800 kW/m ²





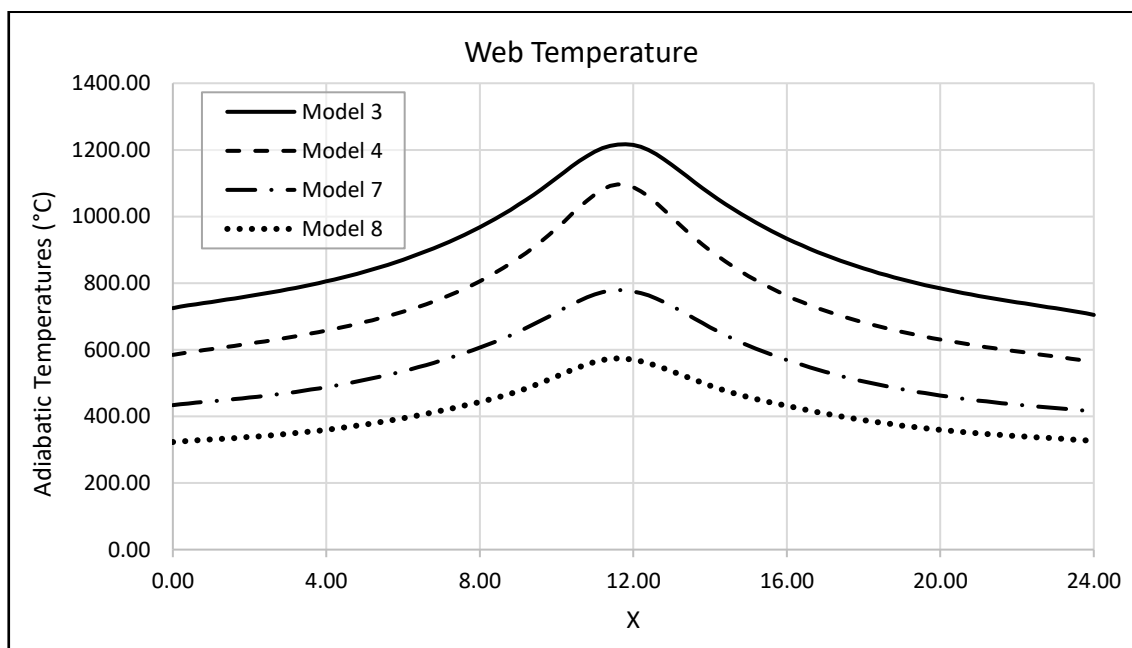
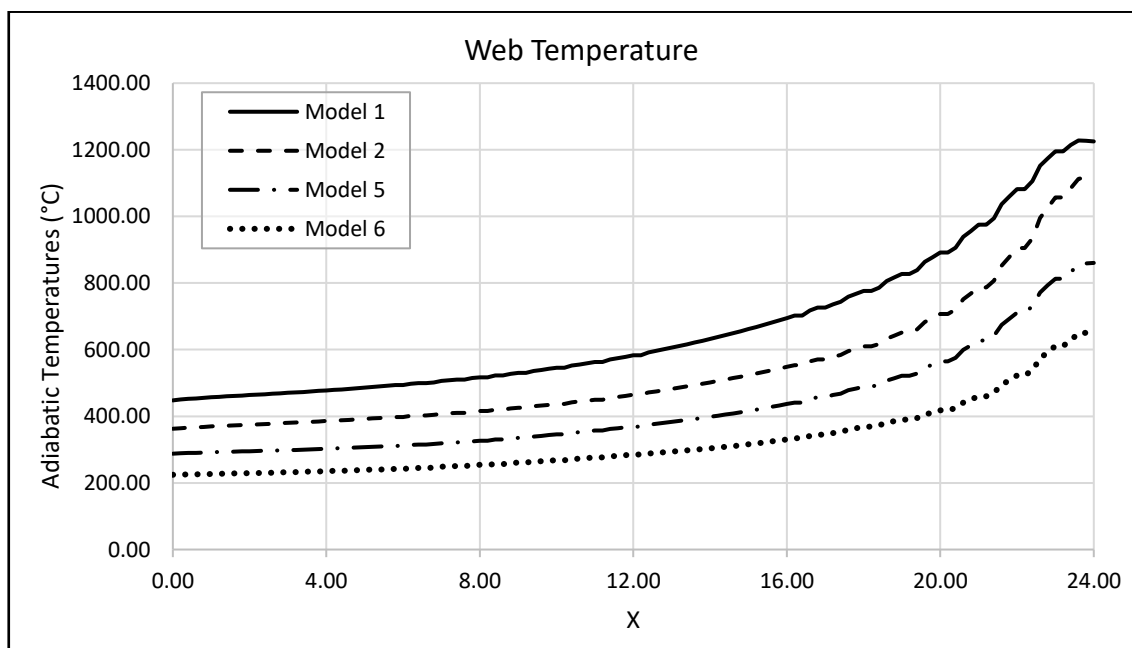
X	Model 57	Model 58	Model 59	Model 60	Model 61	Model 62	Model 63	Model 64
0.00	779.74	754.42	756.10	601.80	425.40	418.98	381.00	294.39
0.20	808.19	779.50	870.31	694.93	432.74	425.10	439.17	338.52
0.40	827.52	792.99	880.94	700.61	436.61	427.12	442.23	341.20
0.60	840.31	799.29	880.94	700.61	436.87	425.71	442.23	341.20
0.80	848.45	801.44	882.23	700.00	435.38	422.61	442.68	342.89
1.00	853.34	799.86	868.46	688.45	432.76	418.14	437.75	341.88
1.20	856.37	796.45	857.51	679.63	429.24	413.09	434.43	340.82
1.40	858.27	792.29	845.43	670.36	425.35	408.03	431.43	340.09
1.60	860.77	788.37	845.43	670.36	421.40	403.14	431.43	340.09
1.80	863.79	785.10	823.98	652.78	417.35	398.67	429.04	341.34
2.00	867.66	782.88	816.60	646.17	413.57	394.66	429.73	343.31
2.20	872.17	781.63	811.41	641.94	410.23	391.28	431.57	346.00
2.40	876.63	781.48	808.02	639.50	407.48	388.60	434.61	349.55
2.60	881.49	782.58	808.02	639.50	405.31	386.63	434.61	349.55
2.80	885.32	784.23	803.74	637.23	403.48	385.31	444.30	358.65
3.00	888.90	785.72	800.59	636.42	402.18	384.47	450.70	363.96
3.20	891.87	786.06	797.08	635.23	401.22	383.93	458.00	369.65
3.40	893.79	785.21	793.33	633.97	400.35	383.75	466.24	375.57
3.60	895.38	783.32	789.05	632.90	399.69	383.90	475.38	381.69
3.80	896.30	780.40	784.98	632.15	399.24	384.11	485.41	387.96
4.00	897.26	777.02	780.93	631.71	399.10	384.44	496.50	394.47
4.20	897.99	773.56	780.93	631.71	399.03	384.75	496.50	394.47
4.40	898.43	769.85	774.43	633.11	399.16	384.98	522.43	408.66
4.60	898.60	765.66	772.46	635.39	399.65	385.22	537.16	416.48
4.80	898.05	760.94	772.14	638.90	400.30	385.34	553.03	425.28
5.00	897.34	755.97	773.81	644.24	401.02	385.41	569.73	435.32
5.20	895.92	750.60	773.81	644.24	401.66	385.50	569.73	435.32
5.40	893.65	744.35	785.12	661.80	402.26	385.60	605.13	459.65
5.60	891.07	737.73	795.61	674.68	402.76	385.77	624.27	473.89
5.80	888.26	731.29	810.54	691.11	403.34	386.21	644.44	488.74
6.00	885.27	724.28	831.76	711.91	404.14	386.91	665.04	504.45
6.20	881.44	716.82	831.76	711.91	405.26	387.79	665.04	504.45
6.40	877.34	709.27	894.77	770.19	406.56	388.85	706.89	534.89
6.60	872.53	701.49	935.45	808.78	408.13	389.97	727.71	549.86
6.80	867.23	693.54	979.27	852.89	409.95	391.32	747.49	564.64
7.00	861.87	685.33	1023.70	900.06	412.02	392.83	766.47	579.33
7.20	856.26	677.18	1064.84	949.24	414.43	394.62	784.91	593.89
7.40	850.40	669.39	1098.89	997.89	417.27	396.68	802.65	607.82
7.60	844.27	662.35	1123.67	1036.38	420.69	399.22	817.36	619.14
7.80	838.62	656.75	1137.22	1054.82	424.87	402.57	828.39	627.60



X	Model 57	Model 58	Model 59	Model 60	Model 61	Model 62	Model 63	Model 64
8.00	838.62	656.75	1138.24	1053.05	424.87	402.57	832.69	632.99
8.20	836.01	655.28	1126.10	1032.28	431.65	408.06	831.35	633.94
8.40	824.66	645.14	1101.61	995.58	439.63	414.12	825.85	631.52
8.60	824.66	645.14	1066.66	950.59	439.63	414.12	816.48	625.39
8.80	815.85	639.00	1026.22	901.61	449.73	422.37	802.92	616.82
9.00	812.15	638.05	983.30	853.27	455.42	427.31	785.26	606.73
9.20	812.15	638.05	939.50	808.67	455.42	427.31	765.99	594.58
9.40	807.23	640.62	899.10	769.68	467.95	438.30	745.56	580.98
9.60	807.23	640.62	863.89	737.03	467.95	438.30	724.50	566.30
9.80	805.72	646.78	835.41	710.58	481.29	450.34	703.70	550.43
10.00	805.86	651.07	813.51	689.51	488.15	456.51	682.29	534.56
10.20	805.86	651.07	797.11	672.53	488.15	456.51	661.17	519.35
10.40	807.50	660.97	785.37	659.04	502.39	469.05	640.23	504.79
10.60	807.50	660.97	777.35	648.61	502.39	469.05	620.29	490.88
10.80	810.72	671.92	772.44	640.90	516.79	481.96	601.45	477.89
11.00	812.51	677.47	769.84	635.15	523.98	488.54	583.85	465.92
11.20	812.51	677.47	769.09	631.26	523.98	488.54	566.83	455.00
11.40	815.84	688.18	769.39	628.86	539.40	502.35	550.71	444.86
11.60	816.98	692.91	770.50	627.41	547.80	509.81	535.77	435.41
11.80	818.03	697.31	772.59	626.53	557.00	518.17	521.65	426.52
12.00	819.58	701.75	775.67	626.38	567.02	527.40	508.45	417.93
12.20	819.58	701.75	779.54	626.68	567.02	527.40	496.31	409.64
12.40	821.81	706.35	779.54	626.68	577.73	537.65	496.31	409.64
12.60	831.12	717.34	787.86	627.64	600.78	560.59	475.71	394.25
12.80	839.12	724.71	791.53	628.29	612.56	572.88	467.44	387.28
13.00	849.97	734.05	794.33	628.98	624.20	585.41	460.70	380.84
13.20	849.97	734.05	797.08	629.84	624.20	585.41	455.50	375.01
13.40	863.89	745.77	800.43	631.93	635.86	598.26	451.82	369.87
13.60	902.10	776.66	804.91	635.71	660.18	625.61	449.52	365.59
13.80	926.68	796.84	811.99	641.49	673.36	640.80	448.47	362.24
14.00	954.13	821.36	821.53	649.23	687.84	657.46	448.65	359.82
14.20	954.13	821.36	833.15	658.25	687.84	657.46	450.03	358.29
14.40	983.91	850.59	845.84	667.64	703.48	675.73	452.48	357.71
14.60	1042.22	918.99	858.11	677.14	735.11	716.21	455.62	357.90
14.80	1066.06	954.99	869.14	685.99	749.37	735.96	459.19	358.67
15.00	1083.70	987.20	878.23	693.14	760.35	752.75	462.74	359.60
15.20	1092.53	1011.67	883.25	697.66	767.01	764.52	464.91	359.81
15.40	1092.53	1011.67	882.07	697.68	767.01	764.52	464.10	358.14
15.60	1071.00	1013.82	871.96	692.01	758.90	762.99	459.59	354.74
15.80	1033.42	982.34	849.43	676.94	739.52	743.28	451.35	350.39
16.00	909.53	872.81	849.43	676.94	643.34	650.87	451.35	350.39

WEB TEMPERATURES

Model	Position	Bridge Substructure Config.	Width	Span	Vertical Clearance	Heat Release Rate (HRR)
1	Abutment	Piers	23.4 m	24 m	5 m	2400 kW/m ²
2	Abutment	Piers	23.4 m	24 m	5 m	1800 kW/m ²
3	Mid-Span	Piers	23.4 m	24 m	5 m	2400 kW/m ²
4	Mid-Span	Piers	23.4 m	24 m	5 m	1800 kW/m ²
5	Abutment	Piers	23.4 m	24 m	9 m	2400 kW/m ²
6	Abutment	Piers	23.4 m	24 m	9 m	1800 kW/m ²
7	Mid-Span	Piers	23.4 m	24 m	9 m	2400 kW/m ²
8	Mid-Span	Piers	23.4 m	24 m	9 m	1800 kW/m ²





X	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7	Model 8
0.00	447.74	362.64	725.22	584.59	287.77	224.45	433.50	322.93
0.20	450.15	364.36	729.42	588.48	288.91	225.09	436.35	324.84
0.40	452.17	365.80	733.26	592.10	289.77	225.59	438.69	326.40
0.60	453.83	367.02	736.73	595.35	290.51	226.05	440.88	327.88
0.80	455.59	368.34	740.27	598.81	291.31	226.61	443.09	329.38
1.00	456.96	369.39	743.54	601.92	291.93	227.05	445.19	330.77
1.20	458.49	370.57	747.02	605.20	292.62	227.56	447.33	332.20
1.40	459.74	371.54	750.35	608.34	293.20	227.98	449.45	333.60
1.60	461.17	372.67	753.89	611.70	293.84	228.47	451.68	335.08
1.80	462.38	373.63	757.38	614.92	294.40	228.91	453.99	336.60
2.00	463.76	374.75	761.12	618.29	295.06	229.42	456.46	338.22
2.20	464.96	375.72	764.82	621.61	295.65	229.89	459.00	339.91
2.40	466.36	376.84	768.74	625.19	296.33	230.43	461.67	341.69
2.60	467.59	377.83	772.66	628.76	296.97	230.94	464.41	343.57
2.80	469.00	378.96	776.83	632.56	297.69	231.52	467.30	345.56
3.00	470.30	379.99	781.08	636.43	298.38	232.06	470.34	347.65
3.20	471.76	381.13	785.56	640.45	299.15	232.67	473.50	349.86
3.40	473.12	382.20	790.17	644.56	299.90	233.26	476.82	352.17
3.60	474.63	383.37	794.95	648.72	300.72	233.91	480.28	354.60
3.80	476.06	384.48	799.93	653.07	301.52	234.54	483.86	357.16
4.00	477.64	385.69	805.12	657.64	302.39	235.23	487.63	359.85
4.20	479.15	386.85	810.51	662.37	303.25	235.90	491.57	362.69
4.40	480.81	388.11	816.14	667.25	304.16	236.63	495.70	365.67
4.60	482.41	389.34	821.98	672.30	305.07	237.34	499.98	368.78
4.80	484.15	390.66	828.09	677.52	306.05	238.11	504.46	372.04
5.00	485.85	391.97	834.38	683.06	307.03	238.89	509.12	375.44
5.20	487.66	393.37	840.98	688.68	308.09	239.71	513.92	379.00
5.40	489.49	394.77	847.87	694.68	309.17	240.55	518.97	382.70
5.60	491.49	396.27	855.03	700.85	310.35	241.45	524.26	386.54
5.80	493.50	397.78	862.50	707.35	311.58	242.38	529.81	390.53
6.00	493.50	397.78	870.26	714.07	311.58	242.38	535.60	394.67
6.20	497.98	401.18	878.36	721.24	314.37	244.41	541.55	398.94
6.40	499.84	402.61	886.87	728.80	315.48	245.34	547.74	403.32
6.60	499.84	402.61	895.63	736.70	315.48	245.34	554.14	407.83
6.80	501.75	404.06	904.71	745.02	316.64	246.29	560.82	412.45
7.00	505.82	407.19	914.25	753.84	319.19	248.34	567.79	417.22
7.20	507.96	408.86	924.10	763.16	320.57	249.43	574.96	422.13
7.40	510.14	410.54	934.44	772.85	321.99	250.55	582.40	427.15
7.60	510.14	410.54	945.29	783.18	321.99	250.55	590.19	432.32
7.80	514.76	414.09	956.51	794.19	325.03	252.91	598.19	437.61

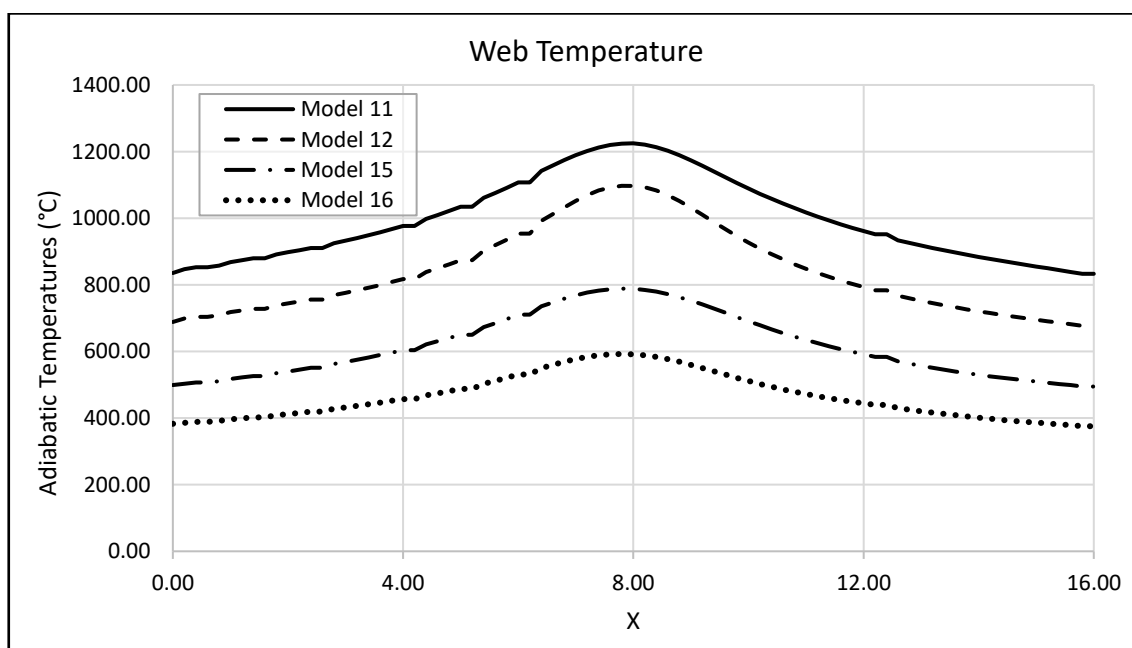
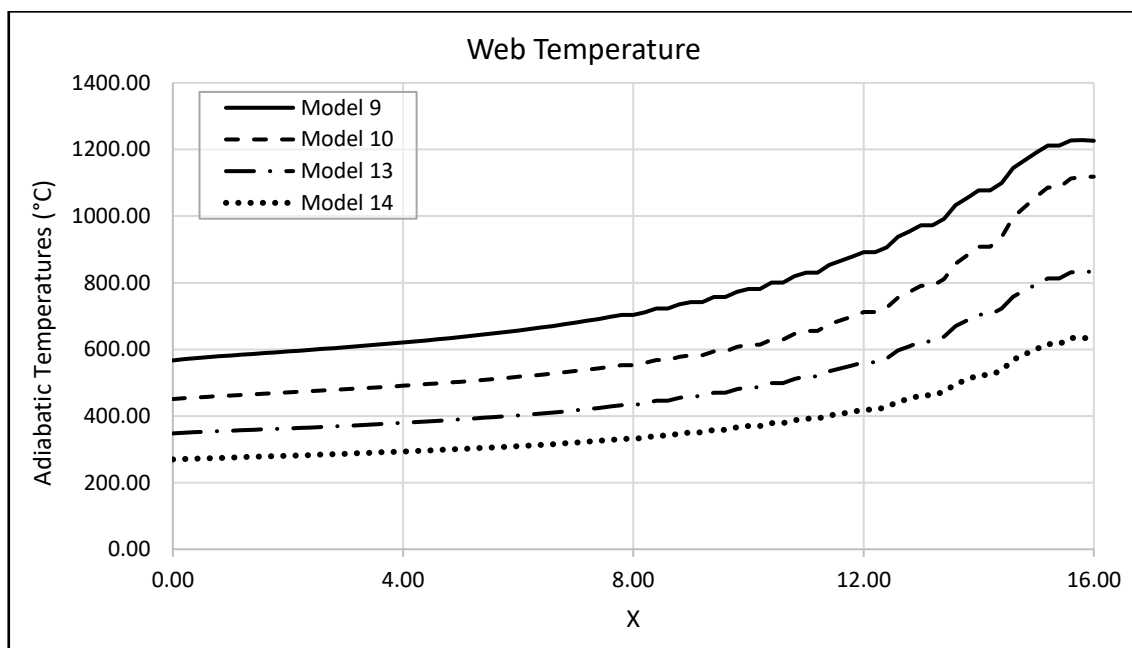


X	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7	Model 8
8.00	517.20	415.95	968.25	805.72	326.62	254.15	606.51	443.03
8.20	517.20	415.95	980.40	818.05	326.62	254.15	615.14	448.72
8.40	522.24	419.79	993.09	831.03	329.98	256.73	624.20	454.69
8.60	522.24	419.79	1006.37	844.66	329.98	256.73	633.67	461.08
8.80	527.61	423.80	1020.22	858.98	333.56	259.44	643.57	467.95
9.00	530.37	425.87	1034.78	874.34	335.42	260.84	654.01	475.37
9.20	530.37	425.87	1049.77	890.38	335.42	260.84	664.99	483.35
9.40	536.17	430.16	1065.45	907.47	339.31	263.74	676.39	491.87
9.60	539.21	432.40	1081.75	925.58	341.34	265.23	688.17	500.92
9.80	542.34	434.69	1098.62	944.68	343.41	266.76	700.31	510.38
10.00	545.54	437.05	1115.83	964.74	345.55	268.31	712.55	520.15
10.20	545.54	437.05	1133.21	985.70	345.55	268.31	724.67	529.95
10.40	552.22	441.95	1150.34	1006.95	349.93	271.48	736.34	539.43
10.60	555.69	444.51	1166.58	1028.21	352.19	273.09	747.19	548.41
10.80	559.29	447.15	1181.44	1048.16	354.50	274.72	757.12	556.62
11.00	562.99	449.86	1194.39	1066.34	356.87	276.37	765.67	563.52
11.20	562.99	449.86	1204.86	1081.35	356.87	276.37	772.50	569.01
11.40	570.70	455.53	1212.22	1091.56	361.71	279.72	777.22	572.75
11.60	574.67	458.50	1216.07	1096.43	364.20	281.42	779.11	574.03
11.80	578.73	461.56	1216.88	1094.90	366.70	283.13	778.31	573.18
12.00	582.95	464.71	1214.65	1087.96	369.27	284.85	775.12	570.08
12.20	582.95	464.71	1208.81	1075.98	369.27	284.85	769.76	565.26
12.40	591.78	471.23	1199.37	1059.86	374.56	288.36	763.01	559.22
12.60	596.38	474.69	1186.89	1041.02	377.27	290.15	754.10	552.02
12.80	601.16	478.25	1172.14	1020.27	380.06	291.98	743.50	544.06
13.00	606.02	481.92	1155.71	998.58	382.89	293.83	731.94	535.57
13.20	610.98	485.69	1138.23	976.97	385.81	295.71	719.44	526.77
13.40	616.10	489.55	1120.50	955.61	388.79	297.64	706.47	517.91
13.60	621.33	493.52	1102.78	935.43	391.87	299.64	693.32	509.08
13.80	626.71	497.57	1085.60	916.26	395.04	301.69	680.23	500.45
14.00	632.24	501.72	1068.90	898.13	398.27	303.82	667.53	492.15
14.20	637.88	505.96	1052.79	881.06	401.59	306.03	655.33	484.34
14.40	643.62	510.28	1037.23	864.91	405.02	308.32	643.63	476.99
14.60	649.46	514.69	1022.29	849.60	408.59	310.70	632.56	470.11
14.80	655.39	519.17	1008.10	835.17	412.25	313.18	622.10	463.69
15.00	661.55	523.74	994.46	821.34	416.01	315.76	612.21	457.69
15.20	667.85	528.38	981.40	808.32	419.90	318.46	602.87	452.06
15.40	674.36	533.14	968.74	795.82	423.90	321.29	593.96	446.59
15.60	681.00	538.00	956.47	784.05	427.99	324.24	585.46	441.35
15.80	687.85	542.99	944.82	772.73	432.29	327.31	577.23	436.24



X	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7	Model 8
16.00	694.92	548.17	933.71	762.15	436.73	330.51	569.37	431.33
16.20	702.21	553.50	923.02	752.01	441.39	333.85	561.71	426.55
16.40	702.21	553.50	912.74	742.67	441.39	333.85	554.42	421.85
16.60	717.76	564.94	902.84	733.60	451.47	341.00	547.32	417.25
16.80	726.03	571.16	893.32	725.10	456.89	344.80	540.51	412.76
17.00	726.03	571.16	884.15	716.97	456.89	344.80	533.88	408.41
17.20	735.71	578.42	875.53	709.22	463.55	349.21	527.56	404.23
17.40	743.19	583.94	867.19	701.87	468.18	352.82	521.46	400.15
17.60	759.18	596.01	859.16	694.78	478.16	360.39	515.64	396.21
17.80	767.79	602.66	851.44	688.08	483.53	364.35	510.02	392.38
18.00	776.74	609.70	843.98	681.68	489.13	368.41	504.68	388.71
18.20	776.74	609.70	836.81	675.60	489.13	368.41	499.59	385.16
18.40	786.13	617.14	829.99	669.86	495.06	372.56	494.75	381.82
18.60	806.00	633.24	823.37	664.24	507.56	381.15	490.09	378.58
18.80	816.65	642.03	817.09	658.84	514.30	385.58	485.62	375.49
19.00	827.74	651.35	811.07	653.68	521.34	390.17	481.34	372.55
19.20	827.74	651.35	805.25	648.67	521.34	390.17	477.31	369.71
19.40	839.28	661.22	799.73	643.89	528.86	394.90	473.44	367.02
19.60	864.14	682.86	794.38	639.25	545.57	405.29	469.70	364.45
19.80	877.46	694.73	789.20	634.83	554.89	411.17	466.12	361.98
20.00	891.56	707.38	784.23	630.59	564.91	417.66	462.67	359.61
20.20	891.56	707.38	779.44	626.53	564.91	417.66	459.38	357.35
20.40	906.45	721.07	774.78	622.58	575.69	424.80	456.22	355.17
20.60	938.81	751.69	770.29	618.78	599.74	441.17	453.20	353.09
20.80	956.38	768.81	765.90	615.01	613.08	450.49	450.23	351.10
21.00	975.03	787.36	761.72	611.49	627.22	460.50	447.43	349.20
21.20	975.03	787.36	757.62	607.92	627.22	460.50	444.75	347.36
21.40	994.74	807.23	753.70	604.57	642.21	471.13	442.19	345.62
21.60	1037.10	852.34	749.77	601.25	674.74	494.67	439.72	343.93
21.80	1059.51	877.89	746.07	598.11	692.31	507.85	437.36	342.35
22.00	1082.42	905.23	742.37	594.90	710.87	522.22	435.11	340.81
22.20	1082.42	905.23	738.83	591.87	710.87	522.22	433.03	339.37
22.40	1105.89	934.13	735.16	588.71	730.43	538.01	430.97	337.94
22.60	1152.29	995.32	731.71	585.77	771.95	573.50	429.02	336.58
22.80	1174.54	1026.46	728.14	582.66	793.36	592.61	427.04	335.17
23.00	1195.34	1056.70	724.76	579.68	812.87	611.16	425.18	333.81
23.20	1195.34	1056.70	721.10	576.42	812.87	611.16	423.17	332.34
23.40	1214.99	1084.81	717.53	573.36	833.42	628.56	421.21	330.90
23.60	1228.03	1112.64	713.57	570.00	855.53	649.58	419.09	329.36
23.80	1227.49	1117.62	709.27	566.31	858.87	650.57	416.48	327.49
24.00	1224.86	1118.79	704.53	562.13	860.45	650.49	416.48	327.49

Model	Position	Bridge Substructure Config.	Width	Span	Vertical Clearance	Heat Release Rate (HRR)
9	Abutment	Piers	23.4 m	16 m	5 m	2400 kW/m ²
10	Abutment	Piers	23.4 m	16 m	5 m	1800 kW/m ²
11	Mid-Span	Piers	23.4 m	16 m	5 m	2400 kW/m ²
12	Mid-Span	Piers	23.4 m	16 m	5 m	1800 kW/m ²
13	Abutment	Piers	23.4 m	16 m	9 m	2400 kW/m ²
14	Abutment	Piers	23.4 m	16 m	9 m	1800 kW/m ²
15	Mid-Span	Piers	23.4 m	16 m	9 m	2400 kW/m ²
16	Mid-Span	Piers	23.4 m	16 m	9 m	1800 kW/m ²



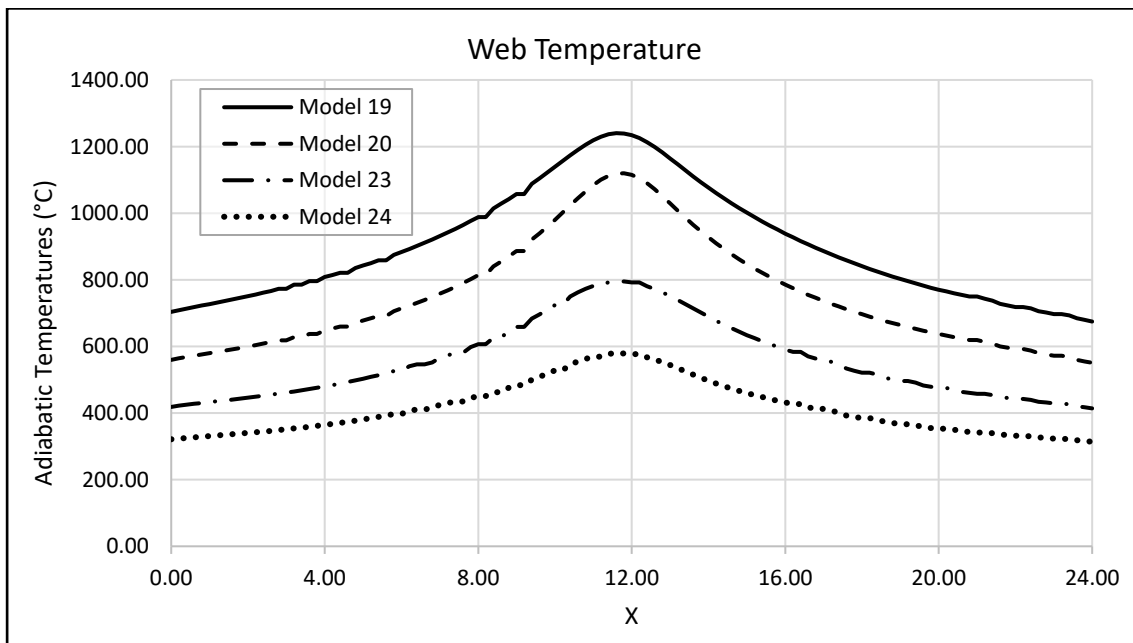
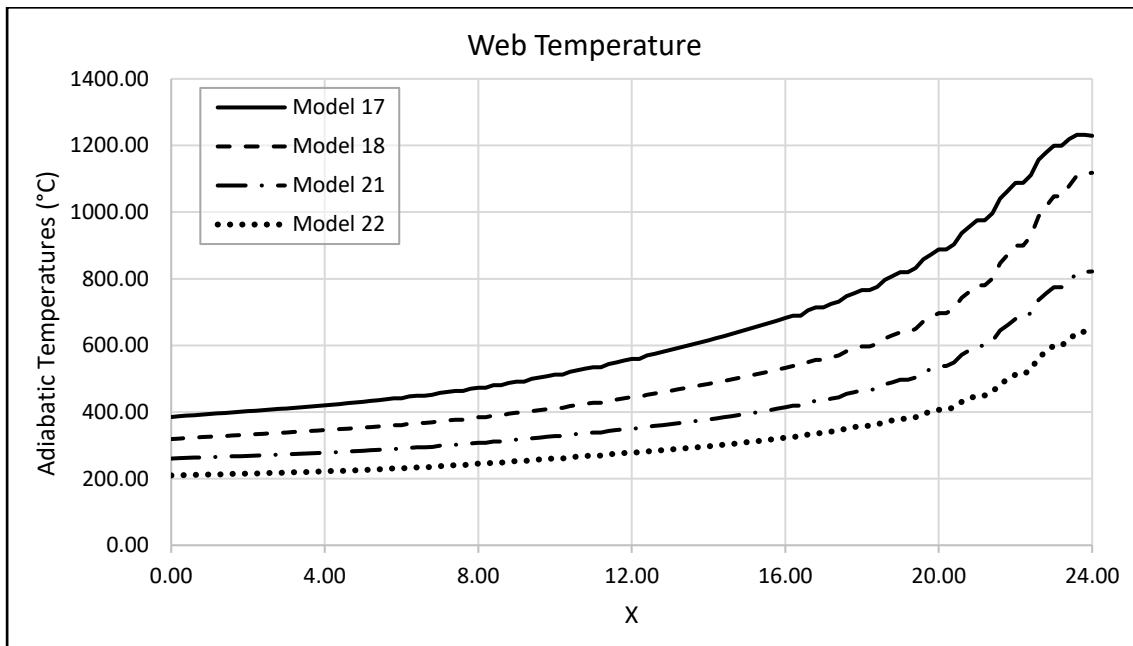


X	Model 9	Model 10	Model 11	Model 12	Model 13	Model 14	Model 15	Model 16
0.00	566.83	450.85	835.15	688.60	347.75	269.59	499.03	383.28
0.20	570.35	453.46	847.21	699.35	349.80	270.88	503.11	386.16
0.40	573.48	455.77	852.58	704.10	351.47	272.00	506.75	388.68
0.60	576.22	457.78	852.58	704.10	352.98	273.06	506.75	388.68
0.80	579.02	459.91	857.76	708.78	354.52	274.18	510.35	391.18
1.00	581.51	461.69	868.42	718.37	355.86	275.19	517.86	396.36
1.20	584.08	463.63	873.96	723.28	357.25	276.26	521.78	399.10
1.40	586.41	465.33	879.53	728.19	358.53	277.28	525.91	401.98
1.60	588.91	467.20	879.53	728.19	359.88	278.37	525.91	401.98
1.80	591.27	468.92	891.33	738.67	361.21	279.42	534.98	408.37
2.00	593.76	470.80	897.55	744.16	362.61	280.56	539.89	411.88
2.20	596.13	472.55	903.95	749.95	364.02	281.69	545.06	415.57
2.40	598.66	474.47	910.66	755.98	365.54	282.91	550.56	419.44
2.60	601.15	476.32	910.66	755.98	367.06	284.12	550.56	419.44
2.80	603.79	478.31	925.04	768.94	368.68	285.39	562.25	427.80
3.00	606.39	480.22	932.69	776.00	370.31	286.67	568.55	432.23
3.20	609.12	482.26	940.69	783.41	372.03	287.99	575.04	436.80
3.40	611.84	484.28	949.05	791.16	373.78	289.32	581.89	441.59
3.60	614.72	486.43	957.82	799.36	375.61	290.69	589.00	446.51
3.80	617.59	488.59	967.08	808.17	377.47	292.07	596.45	451.62
4.00	620.58	490.84	976.96	817.50	379.40	293.49	604.23	456.89
4.20	623.57	493.10	976.96	817.50	381.37	294.93	604.23	456.89
4.40	626.75	495.49	998.17	838.04	383.43	296.41	621.12	468.08
4.60	630.00	497.93	1009.48	849.42	385.50	297.91	630.30	474.16
4.80	633.41	500.48	1021.45	861.44	387.64	299.44	640.04	480.61
5.00	636.94	503.05	1034.00	874.35	389.84	301.01	650.33	487.59
5.20	640.62	505.78	1034.00	874.35	392.13	302.63	650.33	487.59
5.40	644.39	508.57	1061.27	903.01	394.49	304.29	672.82	503.15
5.60	648.32	511.47	1076.06	918.74	396.90	306.00	684.99	511.84
5.80	652.36	514.43	1091.50	935.55	399.41	307.76	697.53	521.06
6.00	656.60	517.53	1107.82	953.43	402.00	309.59	710.32	530.70
6.20	660.96	520.73	1107.82	953.43	404.72	311.51	710.32	530.70
6.40	665.51	524.09	1141.63	992.31	407.55	313.52	735.43	550.41
6.60	670.23	527.60	1158.35	1012.60	410.53	315.63	747.24	559.90
6.80	675.17	531.29	1174.44	1032.84	413.64	317.86	758.25	568.81
7.00	680.30	535.10	1189.18	1051.94	416.94	320.20	768.20	576.76
7.20	685.70	539.13	1202.07	1069.16	420.43	322.68	776.59	583.31
7.40	691.34	543.41	1212.32	1083.11	424.17	325.32	782.77	588.28
7.60	697.32	547.97	1219.78	1092.49	428.19	328.15	786.90	591.32
7.80	703.54	552.86	1223.96	1097.17	432.46	331.17	788.44	592.44



X	Model 9	Model 10	Model 11	Model 12	Model 13	Model 14	Model 15	Model 16
8.00	703.54	552.86	1224.81	1096.89	432.46	331.17	788.03	591.69
8.20	710.96	558.80	1220.85	1092.90	438.07	334.77	784.82	588.84
8.40	722.41	567.47	1213.03	1083.51	445.89	340.74	779.46	583.81
8.60	722.41	567.47	1202.20	1069.29	445.89	340.74	772.08	576.99
8.80	735.19	577.21	1188.75	1051.72	454.64	347.36	762.81	568.92
9.00	742.08	582.54	1173.55	1031.53	459.35	350.88	752.41	559.91
9.20	742.08	582.54	1156.99	1009.91	459.35	350.88	740.85	550.38
9.40	756.88	594.18	1139.80	988.09	469.50	358.31	728.67	540.56
9.60	756.88	594.18	1122.46	966.67	469.50	358.31	716.11	530.58
9.80	773.02	607.08	1105.43	946.33	480.50	366.16	703.32	520.73
10.00	781.66	614.11	1089.02	927.12	486.25	370.22	690.70	511.24
10.20	781.66	614.11	1073.21	908.99	486.25	370.22	678.37	502.26
10.40	800.08	629.38	1058.12	892.17	498.37	378.56	666.49	493.92
10.60	800.08	629.38	1043.77	876.40	498.37	378.56	655.10	486.10
10.80	820.07	646.42	1030.17	861.85	511.52	387.25	644.38	478.84
11.00	830.67	655.67	1017.19	848.24	518.57	391.78	634.23	472.11
11.20	830.67	655.67	1004.79	835.68	518.57	391.78	624.67	465.82
11.40	853.37	676.00	992.92	823.77	533.97	401.48	615.65	459.95
11.60	865.60	687.12	981.72	812.81	542.49	406.84	607.07	454.38
11.80	878.38	698.99	971.07	802.47	551.73	412.70	598.88	449.08
12.00	891.98	711.67	961.02	792.75	561.64	419.17	591.11	443.99
12.20	891.98	711.67	951.49	783.61	561.64	419.17	583.68	439.07
12.40	906.29	725.17	951.49	783.61	572.42	426.31	583.68	439.07
12.60	937.52	755.51	933.93	767.01	596.38	442.78	569.80	429.62
12.80	954.50	772.68	925.77	759.38	609.55	452.08	563.30	425.09
13.00	972.47	791.28	917.94	752.12	623.52	462.10	557.01	420.71
13.20	972.47	791.28	910.50	745.12	623.52	462.10	550.96	416.45
13.40	991.49	811.54	903.37	738.52	638.29	472.78	545.22	412.36
13.60	1032.60	856.78	896.56	732.28	670.03	496.19	539.80	408.43
13.80	1054.45	881.76	890.04	726.36	687.09	509.03	534.66	404.75
14.00	1076.95	908.32	883.74	720.61	704.61	522.67	529.85	401.23
14.20	1076.95	908.32	877.74	715.29	704.61	522.67	525.33	397.93
14.40	1099.60	936.55	871.83	710.01	722.55	537.22	521.04	394.76
14.60	1144.86	996.75	866.07	704.99	758.66	568.61	516.99	391.78
14.80	1167.97	1027.39	860.40	700.06	777.32	585.05	513.08	388.98
15.00	1190.70	1057.95	854.99	695.44	794.47	600.43	509.44	386.33
15.20	1211.61	1086.14	849.49	690.75	812.66	616.18	505.80	383.73
15.40	1211.61	1086.14	844.19	686.33	812.66	616.18	502.26	381.17
15.60	1227.44	1112.56	838.66	681.71	831.65	634.25	498.68	378.58
15.80	1228.23	1117.35	833.05	676.91	833.09	633.94	494.63	375.57
16.00	1226.44	1118.43	833.05	676.91	832.84	633.07	494.63	375.57

Model	Position	Bridge Substructure Config.	Width	Span	Vertical Clearance	Heat Release Rate (HRR)
17	Abutment	Piers	13.0 m	24 m	5 m	2400 kW/m ²
18	Abutment	Piers	13.0 m	24 m	5 m	1800 kW/m ²
19	Mid-Span	Piers	13.0 m	24 m	5 m	2400 kW/m ²
20	Mid-Span	Piers	13.0 m	24 m	5 m	1800 kW/m ²
21	Abutment	Piers	13.0 m	24 m	9 m	2400 kW/m ²
22	Abutment	Piers	13.0 m	24 m	9 m	1800 kW/m ²
23	Mid-Span	Piers	13.0 m	24 m	9 m	2400 kW/m ²
24	Mid-Span	Piers	13.0 m	24 m	9 m	1800 kW/m ²





X	Model 17	Model 18	Model 19	Model 20	Model 21	Model 22	Model 23	Model 24
0.00	384.89	318.72	703.42	559.99	260.15	209.57	418.70	321.20
0.20	386.87	320.12	708.29	564.07	261.12	210.14	421.93	323.44
0.40	388.93	321.63	713.29	568.29	262.05	210.73	424.84	325.48
0.60	390.59	322.89	717.78	572.10	262.81	211.21	427.54	327.35
0.80	392.51	324.38	722.59	576.20	263.68	211.81	430.24	329.26
1.00	394.01	325.55	726.96	579.97	264.37	212.26	432.76	331.03
1.20	395.80	326.97	731.73	583.94	265.18	212.82	435.37	332.90
1.40	397.23	328.13	736.25	587.63	265.86	213.29	437.94	334.68
1.60	398.96	329.54	741.11	591.69	266.67	213.86	440.63	336.57
1.80	400.43	330.71	745.75	595.60	267.40	214.35	443.33	338.46
2.00	402.18	332.11	750.73	599.81	268.25	214.94	446.16	340.47
2.20	403.71	333.32	755.77	603.90	269.03	215.48	449.03	342.49
2.40	405.49	334.73	761.24	608.49	269.92	216.10	452.06	344.61
2.60	407.10	335.95	766.76	613.02	270.74	216.68	455.13	346.77
2.80	408.95	337.35	772.69	617.95	271.68	217.34	458.30	349.03
3.00	410.64	338.60	772.69	617.95	272.57	217.97	461.58	351.34
3.20	412.55	340.01	785.04	628.35	273.57	218.68	464.98	353.77
3.40	414.33	341.31	785.04	628.35	274.52	219.36	468.50	356.27
3.60	416.30	342.73	796.28	637.62	275.58	220.12	472.22	358.90
3.80	418.14	344.08	796.28	637.62	276.60	220.86	476.04	361.62
4.00	420.15	345.56	808.40	647.95	277.71	221.67	480.03	364.49
4.20	422.09	346.97	814.77	653.48	278.80	222.48	484.18	367.49
4.40	424.18	348.52	821.48	659.21	279.98	223.35	488.54	370.64
4.60	426.24	350.03	821.48	659.21	281.16	224.22	493.13	373.89
4.80	428.42	351.66	835.44	671.36	282.42	225.15	497.95	377.30
5.00	430.60	353.27	842.71	677.88	283.68	226.08	503.00	380.89
5.20	432.96	355.01	850.31	684.55	285.02	227.08	508.31	384.65
5.40	435.35	356.76	858.12	691.50	286.37	228.10	513.92	388.64
5.60	437.95	358.65	858.12	691.50	287.83	229.19	519.90	392.85
5.80	440.62	360.54	874.73	706.16	289.32	230.32	526.34	397.32
6.00	440.62	360.54	883.36	713.99	289.32	230.32	526.34	397.32
6.20	446.57	364.78	892.29	722.13	292.59	232.82	540.18	406.73
6.40	449.05	366.64	901.49	730.61	293.98	233.97	546.09	410.92
6.60	449.05	366.64	910.99	739.41	293.98	233.97	546.09	410.92
6.80	451.61	368.54	920.95	748.63	295.42	235.15	552.38	415.35
7.00	457.21	372.66	931.25	758.31	298.51	237.66	566.06	424.69
7.20	460.18	374.87	941.94	768.44	300.15	238.98	573.43	429.55
7.40	463.20	377.13	953.01	779.03	301.83	240.32	581.27	434.62
7.60	463.20	377.13	964.49	790.17	301.83	240.32	581.27	434.62
7.80	469.59	381.92	976.40	801.69	305.34	243.12	597.91	445.28

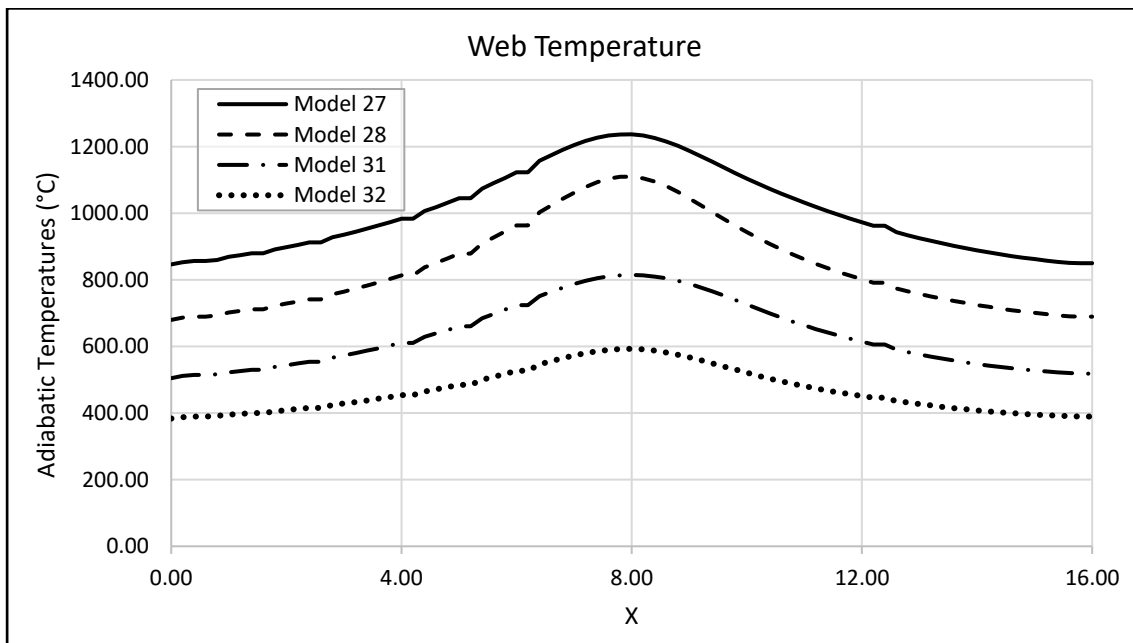
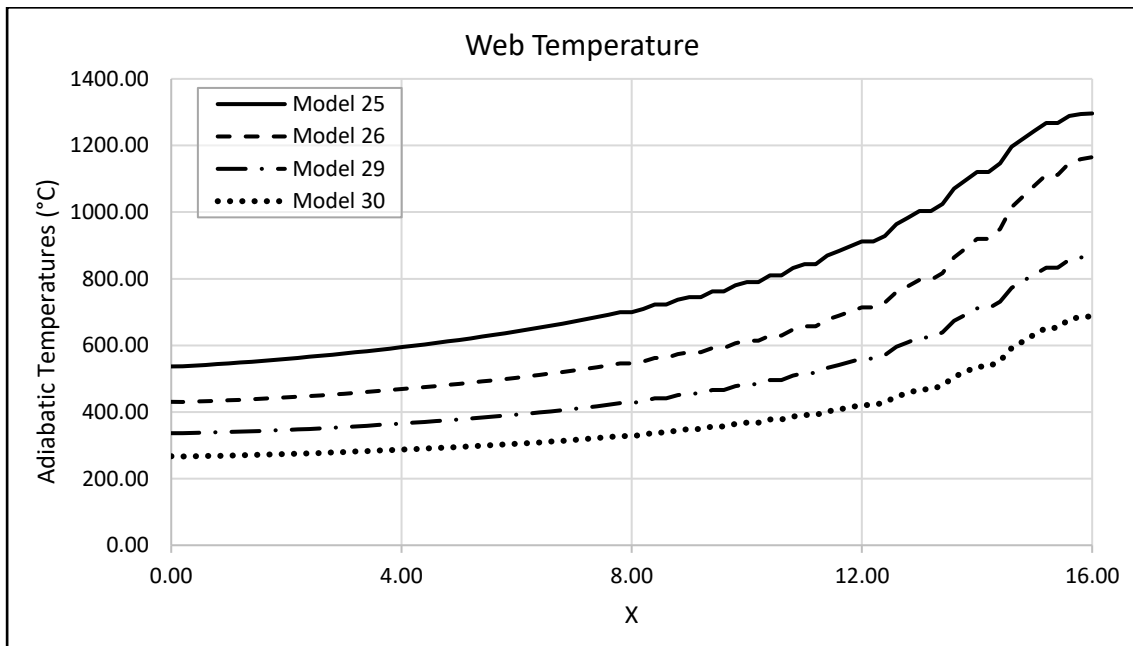


X	Model 17	Model 18	Model 19	Model 20	Model 21	Model 22	Model 23	Model 24
8.00	472.98	384.41	988.70	814.04	307.17	244.58	606.83	450.95
8.20	472.98	384.41	988.70	814.04	307.17	244.58	606.83	450.95
8.40	480.03	389.51	1014.60	840.59	310.95	247.58	625.90	463.03
8.60	480.03	389.51	1028.21	854.80	310.95	247.58	625.90	463.03
8.80	487.48	394.79	1042.42	870.02	314.89	250.70	647.13	476.51
9.00	491.33	397.49	1057.06	885.97	316.90	252.30	658.63	483.89
9.20	491.33	397.49	1057.06	885.97	316.90	252.30	658.63	483.89
9.40	499.35	403.07	1088.31	920.86	321.06	255.58	683.35	500.16
9.60	503.54	405.94	1104.92	939.57	323.16	257.27	696.48	509.03
9.80	507.75	408.84	1121.96	959.24	325.29	258.96	709.97	518.29
10.00	512.07	411.82	1139.43	979.99	327.45	260.68	723.64	527.75
10.20	512.07	411.82	1156.86	1001.54	327.45	260.68	723.64	527.75
10.40	520.89	417.89	1174.09	1023.40	331.85	264.15	750.23	546.23
10.60	525.44	421.05	1190.33	1044.82	334.08	265.89	762.27	554.65
10.80	530.08	424.28	1205.46	1065.59	336.34	267.66	772.89	562.25
11.00	534.74	427.55	1218.78	1084.32	338.63	269.42	781.75	568.83
11.20	534.74	427.55	1229.62	1100.47	338.63	269.42	781.75	568.83
11.40	544.30	434.21	1236.97	1112.34	343.32	272.96	793.38	577.88
11.60	549.17	437.65	1240.33	1119.10	345.70	274.74	795.27	579.48
11.80	554.15	441.14	1239.51	1119.82	348.08	276.52	794.85	578.76
12.00	559.22	444.71	1234.43	1115.13	350.51	278.32	792.39	576.71
12.20	559.22	444.71	1225.33	1104.84	350.51	278.32	792.39	576.71
12.40	569.65	452.03	1213.36	1089.83	355.49	281.93	780.50	567.63
12.60	574.97	455.80	1198.88	1071.40	358.03	283.74	771.91	560.77
12.80	580.36	459.68	1182.26	1050.95	360.63	285.58	762.21	552.70
13.00	585.85	463.62	1164.49	1029.50	363.28	287.45	751.25	543.84
13.20	591.51	467.67	1146.45	1007.41	366.01	289.34	739.34	534.47
13.40	597.31	471.78	1128.40	986.01	368.80	291.28	726.91	524.84
13.60	603.25	475.94	1110.50	965.28	371.67	293.26	714.26	515.23
13.80	609.26	480.16	1093.20	945.66	374.62	295.28	701.62	505.84
14.00	615.35	484.49	1076.54	927.27	377.66	297.37	689.31	496.87
14.20	621.54	488.87	1060.50	909.51	380.80	299.52	677.32	488.41
14.40	627.83	493.28	1044.91	892.69	384.02	301.76	665.76	480.47
14.60	634.20	497.83	1029.88	876.76	387.35	304.08	654.64	473.04
14.80	640.69	502.49	1015.33	861.60	390.79	306.49	644.11	466.16
15.00	647.30	507.20	1001.42	847.40	394.33	309.00	634.07	459.71
15.20	653.94	512.02	987.95	833.81	398.01	311.61	624.62	453.61
15.40	660.73	516.91	974.94	820.89	401.82	314.32	615.57	447.82
15.60	667.57	521.99	962.42	808.62	405.80	317.12	606.93	442.28
15.80	674.59	527.18	950.33	796.87	409.92	320.04	598.69	436.92



X	Model 17	Model 18	Model 19	Model 20	Model 21	Model 22	Model 23	Model 24
16.00	681.84	532.58	938.68	785.77	414.17	323.06	590.85	431.74
16.20	689.36	538.14	927.44	775.03	418.65	326.21	583.41	426.72
16.40	689.36	538.14	916.57	764.89	418.65	326.21	583.41	426.72
16.60	705.41	550.10	906.15	755.13	428.22	332.93	569.78	417.24
16.80	713.96	556.58	895.94	745.74	433.43	336.51	563.56	412.78
17.00	713.96	556.58	886.12	736.79	433.43	336.51	563.56	412.78
17.20	724.11	564.43	876.65	728.13	439.74	340.66	553.95	406.77
17.40	731.70	570.20	867.37	719.91	444.33	344.04	546.59	401.81
17.60	747.89	582.66	858.38	711.97	454.19	351.14	533.23	392.67
17.80	756.76	589.50	849.65	704.26	459.50	354.87	527.11	388.44
18.00	766.09	596.69	841.21	696.80	465.00	358.68	521.31	384.39
18.20	766.09	596.69	833.03	689.74	465.00	358.68	521.31	384.39
18.40	775.81	604.22	825.12	682.94	470.76	362.60	515.85	380.52
18.60	796.75	620.83	817.37	676.42	482.96	370.73	505.49	373.30
18.80	807.97	629.94	809.86	670.05	489.47	374.99	500.61	369.93
19.00	819.71	639.51	802.64	664.09	496.34	379.45	495.92	366.74
19.20	819.71	639.51	795.67	658.27	496.34	379.45	495.92	366.74
19.40	832.02	649.55	788.97	652.73	503.61	384.13	491.43	363.69
19.60	858.48	671.60	782.49	647.29	519.63	394.50	482.92	358.02
19.80	872.68	683.87	776.33	642.10	528.54	400.43	478.89	355.38
20.00	887.59	697.02	770.45	637.08	538.17	406.92	474.95	352.85
20.20	887.59	697.02	764.87	632.51	538.17	406.92	474.95	352.85
20.40	903.30	711.18	759.58	628.03	548.65	414.13	471.19	350.41
20.60	937.36	742.88	754.59	623.77	571.97	430.56	464.00	345.80
20.80	956.04	760.67	749.65	619.58	584.88	439.83	460.60	343.62
21.00	975.79	779.89	749.65	619.58	598.59	449.89	457.31	341.52
21.20	975.79	779.89	743.15	613.81	598.59	449.89	457.31	341.52
21.40	996.51	800.62	737.72	609.02	613.09	460.73	454.04	339.46
21.60	1040.65	846.84	727.66	600.24	644.56	484.57	447.94	335.53
21.80	1063.89	872.34	723.12	596.13	661.42	497.74	445.06	333.67
22.00	1087.63	899.42	718.53	591.88	679.01	512.04	442.20	331.83
22.20	1087.63	899.42	718.53	591.88	679.01	512.04	442.20	331.83
22.40	1111.34	927.86	714.32	587.97	697.50	527.72	439.50	330.09
22.60	1157.20	986.82	705.90	580.12	736.41	563.11	434.16	326.72
22.80	1178.82	1017.41	701.60	576.02	756.27	581.85	431.47	325.03
23.00	1198.93	1047.73	697.53	572.18	774.61	599.54	428.90	323.41
23.20	1198.93	1047.73	697.53	572.18	774.61	599.54	428.90	323.41
23.40	1219.44	1079.06	693.07	567.96	794.08	616.68	426.09	321.66
23.60	1232.08	1109.53	684.13	559.54	817.06	638.98	420.36	318.08
23.80	1231.70	1115.86	679.51	555.32	820.30	640.50	417.07	316.03
24.00	1228.96	1118.03	674.76	550.97	821.81	641.13	413.97	314.10

Model	Position	Bridge Substructure Config.	Width	Span	Vertical Clearance	Heat Release Rate (HRR)
25	Abutment	Piers	13.0 m	16 m	5 m	2400 kW/m ²
26	Abutment	Piers	13.0 m	16 m	5 m	1800 kW/m ²
27	Mid-Span	Piers	13.0 m	16 m	5 m	2400 kW/m ²
28	Mid-Span	Piers	13.0 m	16 m	5 m	1800 kW/m ²
29	Abutment	Piers	13.0 m	16 m	9 m	2400 kW/m ²
30	Abutment	Piers	13.0 m	16 m	9 m	1800 kW/m ²
31	Mid-Span	Piers	13.0 m	16 m	9 m	2400 kW/m ²
32	Mid-Span	Piers	13.0 m	16 m	9 m	1800 kW/m ²



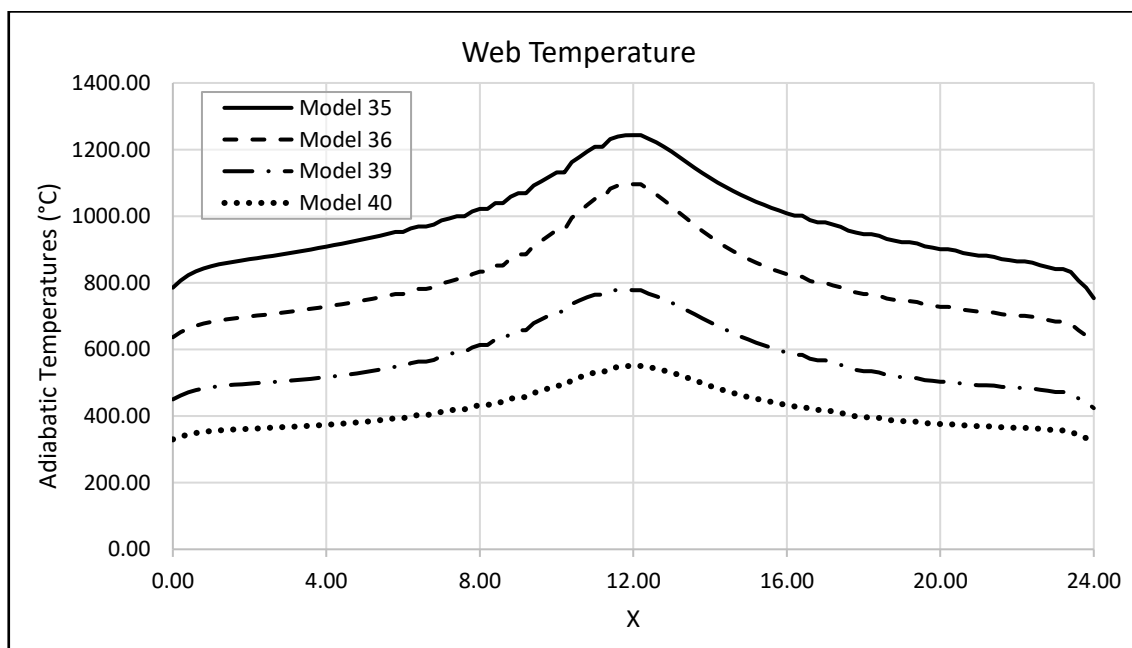
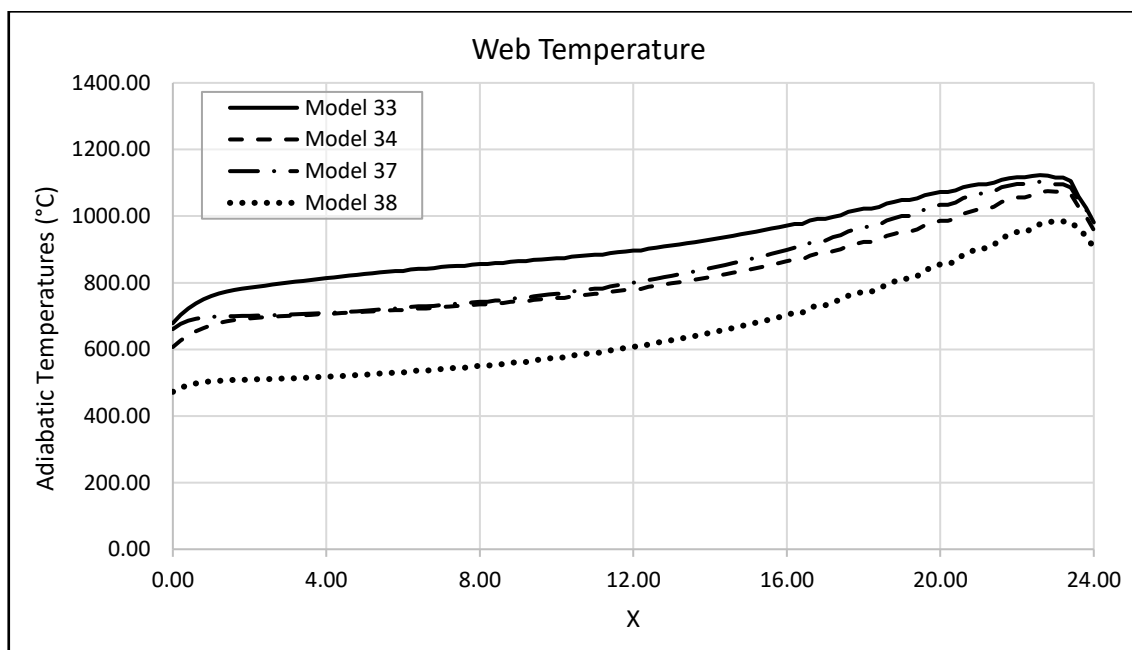


X	Model 25	Model 26	Model 27	Model 28	Model 29	Model 30	Model 31	Model 32
0.00	536.78	430.42	846.30	679.69	336.56	266.75	504.66	383.53
0.20	537.19	430.08	852.68	686.47	336.42	266.52	511.58	387.80
0.40	539.38	431.33	856.15	689.86	337.39	267.24	514.23	389.71
0.60	541.26	432.29	856.15	689.86	338.07	267.71	514.23	389.71
0.80	543.72	433.68	859.77	693.20	338.98	268.36	516.68	391.32
1.00	545.92	434.94	868.80	701.46	339.83	269.00	522.64	395.07
1.20	548.58	436.60	874.00	706.27	340.90	269.80	526.10	397.30
1.40	551.01	438.12	879.42	711.21	341.97	270.60	529.84	399.72
1.60	553.84	439.97	879.42	711.21	343.24	271.56	529.84	399.72
1.80	556.51	441.69	891.52	722.37	344.55	272.52	538.48	405.40
2.00	559.55	443.75	898.09	728.53	346.03	273.62	543.40	408.67
2.20	562.44	445.74	904.86	734.89	347.55	274.73	548.66	412.18
2.40	565.64	448.01	912.14	741.68	349.23	275.96	554.23	415.96
2.60	568.77	450.18	912.14	741.68	350.96	277.19	554.23	415.96
2.80	572.17	452.58	927.54	756.71	352.83	278.51	566.30	424.20
3.00	575.55	454.92	935.74	764.83	354.75	279.83	572.88	428.61
3.20	579.19	457.55	944.40	773.49	356.79	281.23	579.78	433.28
3.40	582.78	460.14	953.40	782.65	358.85	282.63	587.08	438.07
3.60	586.61	462.93	962.93	792.36	361.01	284.09	594.69	443.05
3.80	590.42	465.68	972.94	802.57	363.21	285.55	602.64	448.19
4.00	594.53	468.63	983.46	813.44	365.50	287.06	610.96	453.50
4.20	598.57	471.61	983.46	813.44	367.81	288.58	610.96	453.50
4.40	602.87	474.76	1006.10	837.36	370.20	290.14	629.05	464.88
4.60	607.23	477.93	1018.36	850.45	372.64	291.73	638.98	471.00
4.80	611.81	481.27	1031.34	864.15	375.17	293.39	649.50	477.52
5.00	616.42	484.59	1045.06	878.59	377.76	295.07	660.59	484.54
5.20	621.25	488.05	1045.06	878.59	380.46	296.82	660.59	484.54
5.40	626.11	491.59	1074.17	909.80	383.21	298.62	684.46	500.02
5.60	631.23	495.31	1089.68	926.73	386.08	300.49	697.24	508.55
5.80	636.45	499.11	1105.94	944.71	389.00	302.42	710.56	517.59
6.00	641.90	503.05	1122.84	963.31	392.08	304.43	724.17	526.95
6.20	647.43	507.07	1122.84	963.31	395.26	306.53	724.17	526.95
6.40	653.18	511.29	1157.20	1002.60	398.57	308.73	751.21	546.15
6.60	659.08	515.65	1174.00	1022.70	402.00	311.03	764.13	555.58
6.80	665.20	520.17	1190.04	1042.67	405.56	313.45	776.37	564.52
7.00	671.56	524.82	1204.47	1061.54	409.31	316.00	787.36	572.68
7.20	678.18	529.67	1216.95	1079.01	413.25	318.69	796.78	579.80
7.40	685.08	534.70	1226.41	1093.37	417.44	321.54	804.51	585.52
7.60	692.31	540.01	1233.16	1104.02	421.90	324.57	810.04	589.79
7.80	699.85	545.57	1236.68	1109.51	426.61	327.80	813.46	592.25



X	Model 25	Model 26	Model 27	Model 28	Model 29	Model 30	Model 31	Model 32
8.00	699.85	545.57	1236.80	1109.56	426.61	327.80	814.74	592.78
8.20	708.89	552.04	1233.31	1104.97	432.61	331.56	813.25	590.92
8.40	722.57	562.30	1225.80	1095.15	441.04	337.83	809.67	587.35
8.60	722.57	562.30	1215.54	1081.22	441.04	337.83	804.39	582.11
8.80	737.35	573.52	1202.37	1063.85	450.41	344.74	797.02	575.49
9.00	745.22	579.50	1187.43	1044.46	455.46	348.40	787.94	567.58
9.20	745.22	579.50	1171.16	1023.87	455.46	348.40	777.28	558.78
9.40	761.96	592.28	1154.35	1003.05	466.06	356.10	765.36	549.41
9.60	761.96	592.28	1137.13	982.33	466.06	356.10	752.40	539.86
9.80	780.14	606.27	1120.12	962.37	477.30	364.24	739.11	530.36
10.00	789.83	613.71	1103.63	943.12	483.17	368.47	725.46	521.02
10.20	789.83	613.71	1087.98	924.83	483.17	368.47	712.07	511.97
10.40	810.12	629.63	1072.85	907.54	495.68	377.22	698.90	503.39
10.60	810.12	629.63	1058.46	891.25	495.68	377.22	686.28	495.27
10.80	832.23	647.33	1044.59	876.04	509.23	386.39	674.36	487.75
11.00	844.06	656.96	1031.35	861.56	516.52	391.23	663.13	480.67
11.20	844.06	656.96	1018.55	847.98	516.52	391.23	652.37	474.08
11.40	869.36	677.95	1006.48	835.28	532.39	401.79	642.09	467.86
11.60	882.99	689.40	994.70	823.28	541.09	407.65	632.27	462.02
11.80	897.29	701.54	983.36	812.10	550.38	414.09	622.98	456.47
12.00	912.38	714.48	972.57	801.53	560.41	421.15	614.21	451.11
12.20	912.38	714.48	962.23	791.53	560.41	421.15	605.88	445.91
12.40	928.38	728.44	962.23	791.53	571.21	428.90	605.88	445.91
12.60	963.53	759.75	942.83	773.53	595.54	446.67	590.34	436.03
12.80	982.81	777.43	933.78	765.15	609.13	456.71	583.08	431.42
13.00	1003.12	796.53	925.24	757.35	623.81	467.68	576.26	427.00
13.20	1003.12	796.53	917.10	749.91	623.81	467.68	569.73	422.79
13.40	1024.56	817.24	909.42	742.98	639.40	479.50	563.64	418.83
13.60	1070.85	864.20	902.06	736.40	673.31	505.82	557.87	415.02
13.80	1095.53	890.70	895.21	730.28	691.56	520.54	552.43	411.47
14.00	1120.88	919.31	888.60	724.40	710.73	536.46	547.36	408.15
14.20	1120.88	919.31	882.54	718.97	710.73	536.46	542.72	405.16
14.40	1146.26	949.64	876.74	713.79	730.97	553.64	538.46	402.41
14.60	1195.98	1014.54	871.48	709.09	772.72	591.57	534.56	399.93
14.80	1220.35	1047.80	866.40	704.60	793.73	612.10	531.01	397.68
15.00	1244.57	1080.07	861.95	700.60	812.86	632.86	527.93	395.70
15.20	1267.82	1111.76	857.57	696.72	833.49	652.44	525.02	393.85
15.40	1267.82	1111.76	854.07	693.54	833.49	652.44	522.51	392.20
15.60	1288.46	1147.10	850.66	690.39	857.38	678.56	519.84	390.27
15.80	1294.68	1159.20	849.43	689.20	864.23	685.37	518.36	389.24
16.00	1296.25	1164.93	849.43	689.20	866.22	687.08	518.36	389.24

Model	Position	Bridge Substructure Config.	Width	Span	Vertical Clearance	Heat Release Rate (HRR)
33	Abutment	Abutments	23.4 m	24 m	5 m	2400 kW/m ²
34	Abutment	Abutments	23.4 m	24 m	5 m	1800 kW/m ²
35	Mid-Span	Abutments	23.4 m	24 m	5 m	2400 kW/m ²
36	Mid-Span	Abutments	23.4 m	24 m	5 m	1800 kW/m ²
37	Abutment	Abutments	23.4 m	24 m	9 m	2400 kW/m ²
38	Abutment	Abutments	23.4 m	24 m	9 m	1800 kW/m ²
39	Mid-Span	Abutments	23.4 m	24 m	9 m	2400 kW/m ²
40	Mid-Span	Abutments	23.4 m	24 m	9 m	1800 kW/m ²





X	Model 33	Model 34	Model 35	Model 36	Model 37	Model 38	Model 39	Model 40
0.00	678.76	607.02	785.65	636.45	660.79	472.57	450.51	329.94
0.20	703.12	626.64	806.90	651.49	676.36	484.64	462.08	338.24
0.40	722.51	641.83	822.60	662.47	686.16	492.76	471.01	344.49
0.60	737.95	654.03	834.27	670.89	691.83	498.07	477.91	349.20
0.80	750.55	663.94	843.12	677.50	695.27	501.64	483.09	352.67
1.00	760.48	672.22	849.99	682.76	697.38	504.09	486.98	355.22
1.20	768.11	679.02	855.44	686.97	698.57	505.88	489.89	357.16
1.40	773.82	684.24	859.92	690.45	699.31	507.14	492.17	358.69
1.60	778.30	687.98	863.81	693.49	699.84	508.03	494.06	359.96
1.80	782.04	690.83	867.37	696.30	700.31	508.73	495.71	361.07
2.00	785.35	693.01	870.76	698.96	700.75	509.31	497.28	362.10
2.20	788.39	694.73	874.09	701.55	701.24	509.90	498.78	363.08
2.40	791.34	696.26	877.46	704.21	701.83	510.49	500.36	364.07
2.60	794.28	697.72	880.94	706.99	702.46	511.15	502.01	365.08
2.80	797.21	699.18	884.52	709.84	703.20	511.89	503.74	366.12
3.00	800.09	700.48	888.25	712.75	704.03	512.71	505.57	367.22
3.20	802.94	701.61	892.09	715.76	704.98	513.60	507.51	368.39
3.40	805.70	702.72	896.04	718.83	705.95	514.57	509.57	369.62
3.60	808.44	703.86	900.10	722.07	706.97	515.59	511.78	370.93
3.80	811.11	705.03	904.26	725.34	708.07	516.67	514.13	372.31
4.00	813.73	706.23	908.51	728.77	709.24	517.79	516.61	373.79
4.20	816.32	707.46	912.85	732.27	710.45	518.95	519.27	375.38
4.40	818.87	708.77	917.32	735.84	711.72	520.15	522.06	377.08
4.60	821.36	710.08	921.90	739.65	713.06	521.43	525.01	378.90
4.80	823.79	711.37	926.65	743.59	714.48	522.76	528.22	380.86
5.00	826.19	712.67	931.50	747.63	716.03	524.15	531.64	382.96
5.20	828.53	713.97	936.48	751.87	717.62	525.65	535.30	385.24
5.40	830.80	715.31	941.57	756.35	719.30	527.24	539.30	387.69
5.60	833.06	716.72	946.85	761.03	721.11	528.95	543.66	390.36
5.80	835.30	718.19	952.33	765.89	723.01	530.76	548.39	393.26
6.00	835.30	718.19	952.33	765.89	723.01	530.76	548.39	393.26
6.20	839.62	721.33	963.76	776.42	727.65	535.20	559.08	399.75
6.40	841.56	722.69	969.20	781.31	729.02	536.52	563.67	402.73
6.60	841.56	722.69	969.20	781.31	729.02	536.52	563.67	402.73
6.80	843.47	724.09	974.84	786.53	730.42	537.93	568.66	405.91
7.00	847.22	727.05	986.97	797.94	733.53	541.23	579.62	412.83
7.20	849.06	728.56	993.41	804.13	735.26	542.98	585.68	416.51
7.40	850.87	730.13	1000.16	810.85	737.04	544.79	592.06	420.33
7.60	850.87	730.13	1000.16	810.85	737.04	544.79	592.06	420.33
7.80	854.39	733.46	1014.53	825.65	740.78	548.66	606.07	428.38

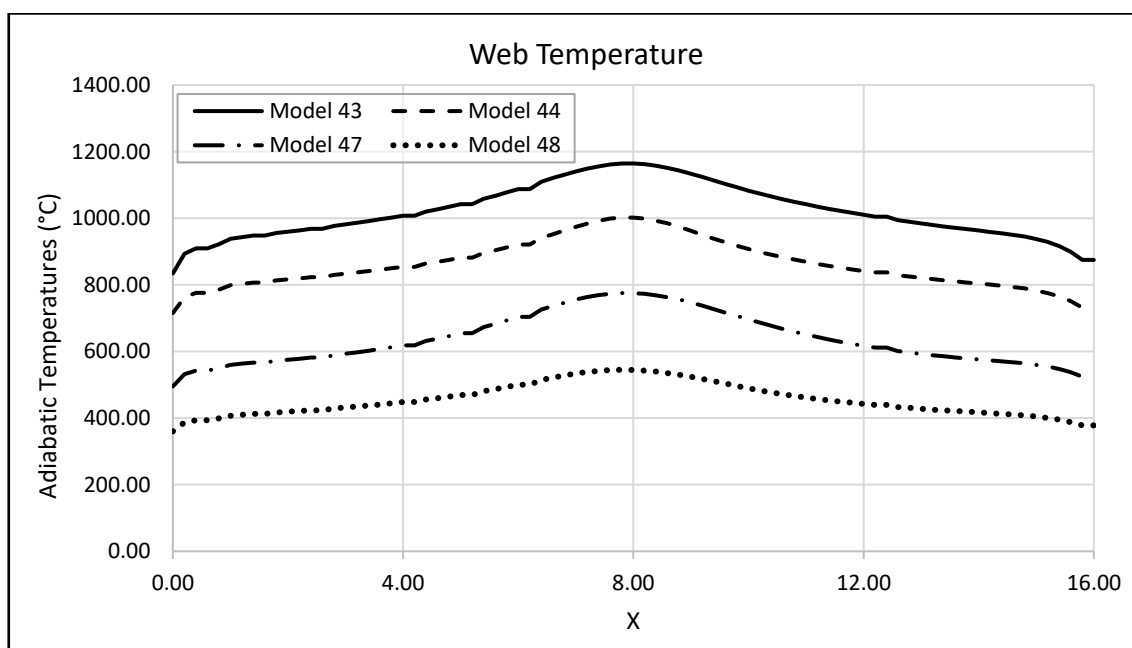
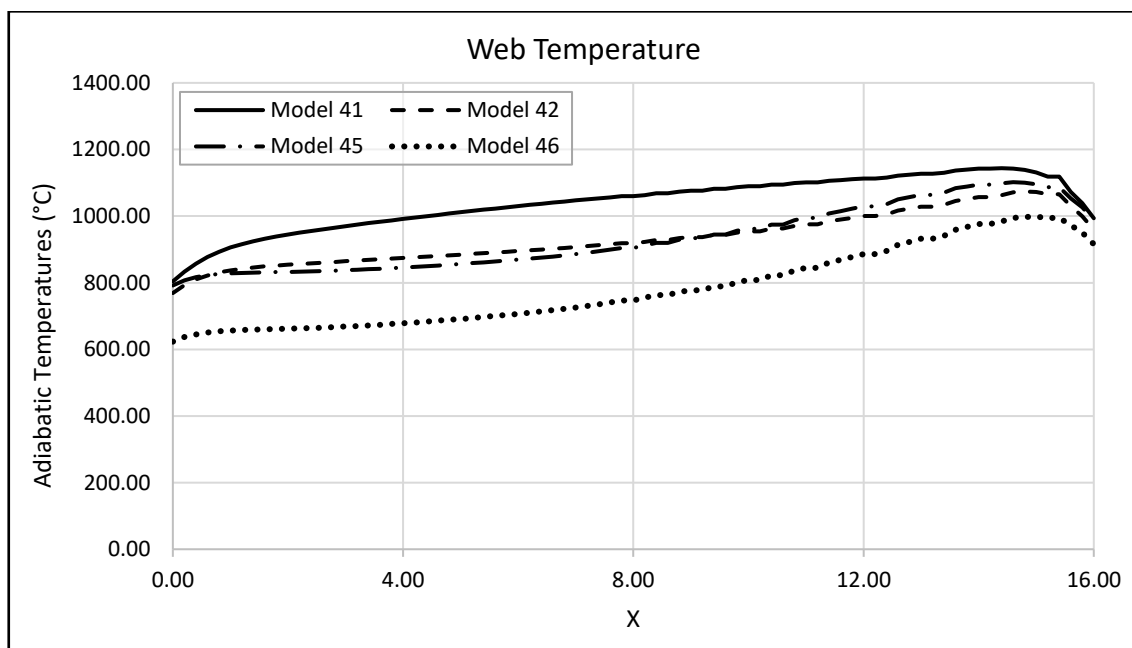


X	Model 33	Model 34	Model 35	Model 36	Model 37	Model 38	Model 39	Model 40
8.00	856.11	735.15	1022.27	833.96	742.80	550.72	613.60	432.62
8.20	856.11	735.15	1022.27	833.96	742.80	550.72	613.60	432.62
8.40	859.52	738.63	1039.21	852.26	747.16	555.07	629.82	441.61
8.60	859.52	738.63	1039.21	852.26	747.16	555.07	629.82	441.61
8.80	862.98	742.36	1058.28	873.41	751.72	559.62	647.92	451.56
9.00	864.75	744.25	1068.76	885.31	754.14	562.03	657.82	457.04
9.20	864.75	744.25	1068.76	885.31	754.14	562.03	657.82	457.04
9.40	868.32	748.26	1091.65	911.73	759.17	567.16	679.11	469.27
9.60	870.13	750.34	1104.19	926.23	761.81	569.80	690.36	476.17
9.80	871.99	752.48	1117.57	941.85	764.50	572.53	701.87	483.57
10.00	873.90	754.68	1131.79	958.48	767.28	575.30	713.61	491.43
10.20	873.90	754.68	1131.79	958.48	767.28	575.30	713.61	491.43
10.40	877.89	759.38	1162.26	994.94	773.11	581.21	736.50	507.99
10.60	879.96	761.87	1178.03	1014.14	776.20	584.24	747.00	516.21
10.80	882.11	764.43	1193.60	1033.47	779.32	587.31	756.52	524.04
11.00	884.36	767.02	1208.23	1051.82	782.52	590.50	764.67	531.29
11.20	884.36	767.02	1208.23	1051.82	782.52	590.50	764.67	531.29
11.40	889.13	772.55	1231.57	1082.45	789.24	597.21	776.09	543.17
11.60	891.62	775.44	1238.97	1092.39	792.82	600.62	779.13	547.19
11.80	894.19	778.44	1242.78	1096.85	796.56	604.21	779.49	549.59
12.00	896.87	781.52	1243.29	1096.07	800.33	607.86	777.51	550.40
12.20	896.87	781.52	1243.29	1096.07	800.33	607.86	777.51	550.40
12.40	902.56	787.88	1232.75	1079.66	808.18	615.44	767.37	546.86
12.60	905.54	791.21	1222.10	1065.27	812.25	619.38	759.61	542.51
12.80	908.65	794.67	1208.70	1048.22	816.44	623.40	750.42	536.97
13.00	911.84	798.18	1193.62	1029.72	820.77	627.52	740.16	530.45
13.20	915.13	801.79	1177.61	1010.76	825.23	631.75	729.05	523.09
13.40	918.50	805.49	1161.19	991.69	829.79	636.05	717.43	515.13
13.60	922.01	809.32	1145.01	973.20	834.43	640.48	705.50	506.87
13.80	925.63	813.24	1129.49	955.62	839.12	645.00	693.55	498.65
14.00	929.33	817.30	1114.78	938.92	843.85	649.66	681.77	490.64
14.20	933.12	821.44	1100.96	923.40	848.71	654.41	670.30	483.02
14.40	937.04	825.70	1087.90	908.87	853.73	659.39	659.21	475.86
14.60	941.06	830.06	1075.70	895.37	858.91	664.36	648.70	469.17
14.80	945.17	834.59	1064.24	882.75	864.15	669.46	638.80	462.98
15.00	949.35	839.22	1053.56	871.24	869.50	674.64	629.39	457.23
15.20	953.62	844.00	1043.52	860.60	875.03	679.99	620.57	451.85
15.40	958.00	848.95	1034.03	850.79	880.69	685.45	612.23	446.83
15.60	962.46	853.97	1025.12	841.68	886.56	691.19	604.42	442.08
15.80	967.03	859.13	1016.77	833.31	892.57	697.13	597.06	437.57



X	Model 33	Model 34	Model 35	Model 36	Model 37	Model 38	Model 39	Model 40
16.00	971.69	864.46	1008.89	825.49	898.84	703.35	590.22	433.27
16.20	976.46	870.00	1001.47	818.33	905.36	709.84	583.83	429.19
16.40	976.46	870.00	1001.47	818.33	905.36	709.84	583.83	429.19
16.60	986.51	881.62	988.09	805.61	919.36	724.13	572.40	421.56
16.80	991.74	887.70	981.95	799.88	926.77	731.90	567.21	418.04
17.00	991.74	887.70	981.95	799.88	926.77	731.90	567.21	418.04
17.20	997.81	894.77	974.61	792.64	937.09	743.08	559.39	413.28
17.40	1002.67	900.12	968.22	786.64	942.93	748.73	553.52	409.50
17.60	1012.46	911.07	956.52	775.80	954.66	760.65	543.25	402.65
17.80	1017.41	916.77	951.12	770.93	960.85	767.14	538.70	399.54
18.00	1022.43	922.64	945.92	766.27	967.27	773.98	534.43	396.62
18.20	1022.43	922.64	945.92	766.27	967.27	773.98	534.43	396.62
18.40	1027.52	928.60	940.98	761.82	973.77	781.03	530.44	393.89
18.60	1037.82	940.75	931.45	753.29	987.05	796.00	523.12	389.00
18.80	1042.92	947.00	926.85	749.30	993.82	803.83	519.80	386.76
19.00	1047.97	953.30	922.34	745.48	1000.61	811.86	516.60	384.65
19.20	1047.97	953.30	922.34	745.48	1000.61	811.86	516.60	384.65
19.40	1052.95	959.76	917.92	741.82	1007.34	820.19	513.60	382.68
19.60	1062.77	972.89	909.34	734.76	1020.96	837.34	508.09	379.11
19.80	1067.63	979.53	905.16	731.43	1027.66	846.35	505.53	377.49
20.00	1072.48	986.19	901.11	728.18	1034.39	855.64	503.08	375.96
20.20	1072.48	986.19	901.11	728.18	1034.39	855.64	503.08	375.96
20.40	1077.29	992.98	897.13	725.03	1041.15	865.09	500.79	374.54
20.60	1086.63	1006.86	889.33	718.92	1054.63	884.20	496.52	372.00
20.80	1091.22	1013.87	885.49	716.00	1061.35	893.92	494.56	370.86
21.00	1095.84	1020.92	881.76	713.18	1067.92	903.73	492.73	369.79
21.20	1095.84	1020.92	881.76	713.18	1067.92	903.73	492.73	369.79
21.40	1100.47	1028.01	878.13	710.47	1074.29	913.69	490.97	368.78
21.60	1109.32	1042.24	871.13	705.31	1086.42	933.60	487.71	366.89
21.80	1113.37	1049.24	867.72	702.87	1091.91	943.28	486.16	365.96
22.00	1117.05	1056.04	864.34	700.50	1096.72	952.79	484.59	364.99
22.20	1117.05	1056.04	864.34	700.50	1096.72	952.79	484.59	364.99
22.40	1120.18	1062.50	860.82	698.02	1100.53	961.77	482.89	363.93
22.60	1123.11	1072.71	852.64	692.24	1103.30	976.77	478.76	361.23
22.80	1121.36	1074.91	847.43	688.40	1101.14	981.70	476.00	359.31
23.00	1115.93	1073.35	840.89	683.52	1095.68	984.14	472.46	356.78
23.20	1115.93	1073.35	840.89	683.52	1095.68	984.14	472.46	356.78
23.40	1104.95	1066.19	832.53	677.11	1085.79	982.57	467.79	353.38
23.60	1058.86	1028.48	806.63	657.24	1048.32	961.66	453.26	342.59
23.80	1024.19	998.30	785.78	641.77	1019.43	939.98	441.95	334.20
24.00	981.37	958.24	753.89	617.34	981.11	905.16	423.65	320.42

Model	Position	Bridge Substructure Config.	Width	Span	Vertical Clearance	Heat Release Rate (HRR)
41	Abutment	Abutments	23.4 m	16 m	5 m	2400 kW/m ²
42	Abutment	Abutments	23.4 m	16 m	5 m	1800 kW/m ²
43	Mid-Span	Abutments	23.4 m	16 m	5 m	2400 kW/m ²
44	Mid-Span	Abutments	23.4 m	16 m	5 m	1800 kW/m ²
45	Abutment	Abutments	23.4 m	16 m	9 m	2400 kW/m ²
46	Abutment	Abutments	23.4 m	16 m	9 m	1800 kW/m ²
47	Mid-Span	Abutments	23.4 m	16 m	9 m	2400 kW/m ²
48	Mid-Span	Abutments	23.4 m	16 m	9 m	1800 kW/m ²



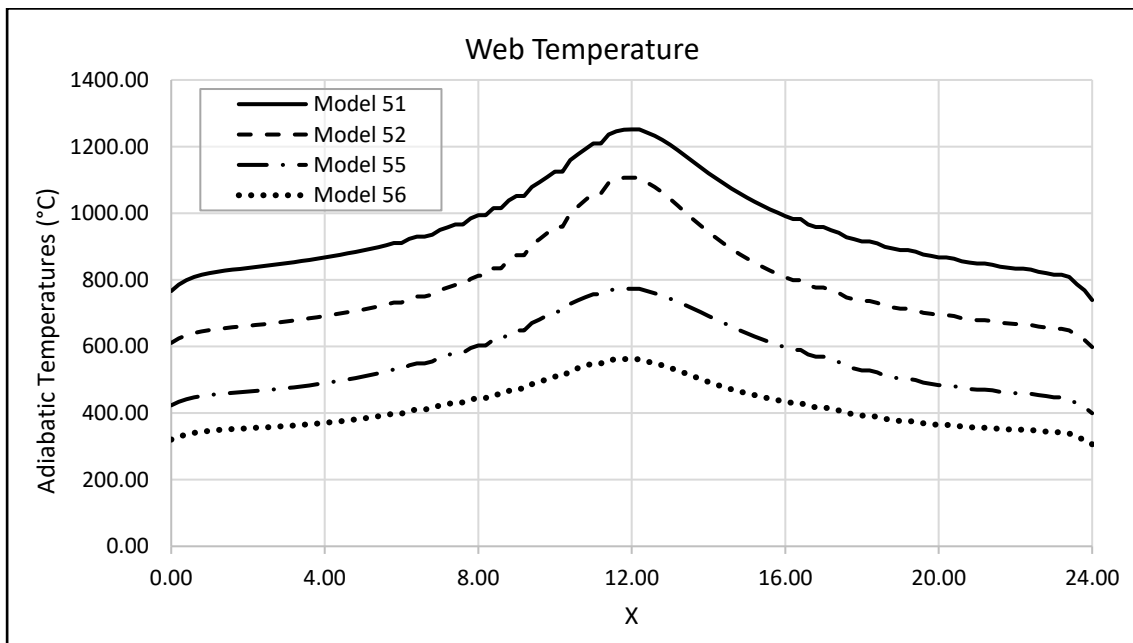
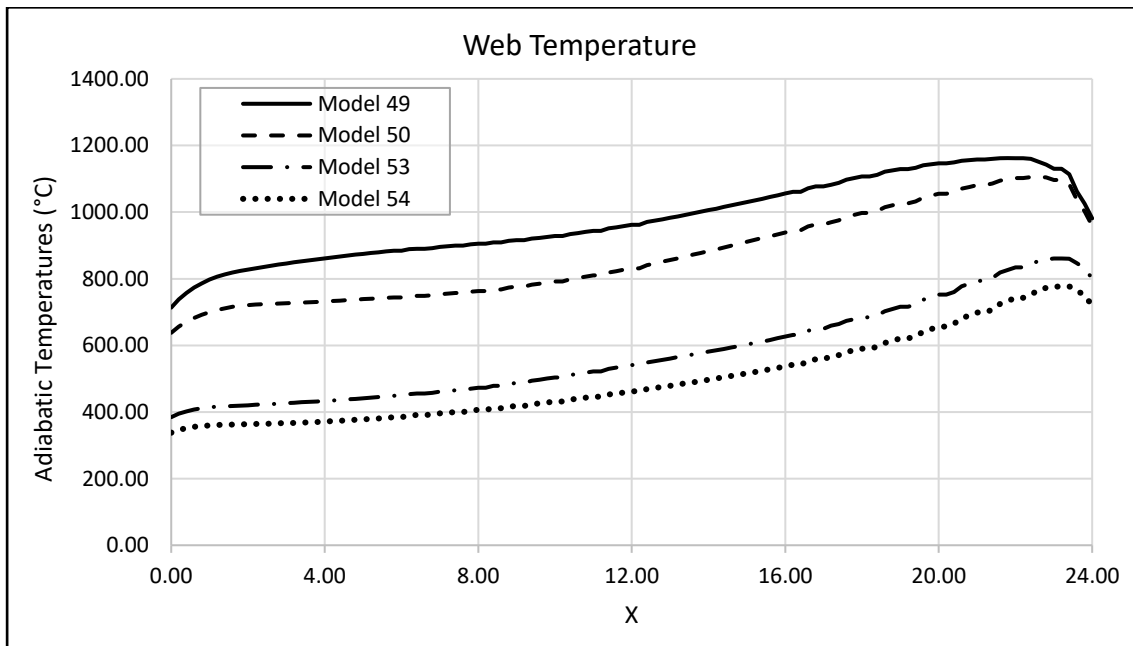


X	Model 41	Model 42	Model 43	Model 44	Model 45	Model 46	Model 47	Model 48
0.00	804.03	768.99	833.88	715.09	791.82	623.17	494.89	360.07
0.20	833.34	792.88	892.97	762.86	807.45	636.69	531.64	386.38
0.40	857.29	810.00	909.91	776.13	817.15	645.28	542.01	393.84
0.60	877.24	822.09	909.91	776.13	822.88	650.75	542.01	393.84
0.80	893.19	830.89	922.10	785.78	826.28	654.26	549.65	399.49
1.00	905.85	837.32	937.85	798.60	828.35	656.61	559.65	407.14
1.20	916.07	842.19	943.21	803.04	829.60	658.21	563.20	409.94
1.40	924.64	846.00	947.72	806.76	830.42	659.31	566.34	412.38
1.60	932.06	849.10	947.72	806.76	831.10	660.17	566.34	412.38
1.80	938.63	851.73	955.62	813.24	831.75	660.98	572.13	416.82
2.00	944.58	854.09	959.51	816.35	832.40	661.88	575.06	418.99
2.20	950.08	856.28	963.54	819.49	833.11	662.95	578.16	421.25
2.40	955.28	858.35	967.72	822.74	834.00	664.06	581.45	423.59
2.60	960.31	860.39	967.72	822.74	835.02	665.40	581.45	423.59
2.80	965.15	862.39	976.63	829.68	836.20	666.82	588.80	428.67
3.00	969.83	864.42	981.34	833.36	837.54	668.38	592.95	431.41
3.20	974.37	866.45	986.22	837.18	838.97	670.12	597.41	434.33
3.40	978.80	868.49	991.27	841.10	840.51	672.05	602.17	437.42
3.60	983.13	870.50	996.54	845.20	842.17	674.09	607.27	440.68
3.80	987.36	872.48	1002.02	849.48	843.93	676.21	612.70	444.11
4.00	991.54	874.46	1007.74	854.00	845.78	678.48	618.56	447.72
4.20	995.64	876.46	1007.74	854.00	847.68	680.83	618.56	447.72
4.40	999.68	878.46	1020.18	863.97	849.70	683.27	631.50	455.61
4.60	1003.68	880.48	1026.92	869.47	851.80	685.86	638.69	459.93
4.80	1007.64	882.51	1034.07	875.33	853.97	688.61	646.44	464.55
5.00	1011.57	884.58	1041.62	881.65	856.31	691.41	654.75	469.49
5.20	1015.41	886.65	1041.62	881.65	858.71	694.27	654.75	469.49
5.40	1019.20	888.72	1058.25	895.62	861.16	697.20	673.02	480.53
5.60	1022.91	890.81	1067.42	903.57	863.76	700.21	682.91	486.73
5.80	1026.54	892.98	1077.24	912.17	866.47	703.45	693.30	493.28
6.00	1030.11	895.18	1087.67	921.32	869.29	706.79	704.07	500.12
6.20	1033.60	897.42	1087.67	921.32	872.23	710.19	704.07	500.12
6.40	1037.03	899.69	1109.55	941.28	875.32	713.74	725.79	514.21
6.60	1040.40	902.07	1120.47	951.95	878.57	717.55	736.34	521.11
6.80	1043.73	904.54	1130.83	962.81	882.05	721.58	746.37	527.61
7.00	1047.00	907.09	1140.32	973.38	885.80	725.82	755.43	533.40
7.20	1050.21	909.73	1148.85	983.37	889.90	730.30	763.01	538.21
7.40	1053.38	912.53	1155.81	992.08	894.36	735.18	768.83	541.67
7.60	1056.53	915.50	1161.02	998.61	899.27	740.46	772.89	543.84
7.80	1059.62	918.61	1163.90	1002.20	904.50	746.21	775.17	544.74



X	Model 41	Model 42	Model 43	Model 44	Model 45	Model 46	Model 47	Model 48
8.00	1059.62	918.61	1164.28	1002.08	904.50	746.21	775.08	544.21
8.20	1062.96	922.38	1162.19	998.72	912.20	754.88	772.94	542.08
8.40	1068.44	927.90	1157.66	992.59	919.96	762.92	768.68	539.06
8.60	1068.44	927.90	1150.96	983.95	919.96	762.92	762.88	535.09
8.80	1073.79	933.76	1142.81	973.60	928.91	772.27	755.45	530.07
9.00	1076.44	936.91	1133.50	962.20	933.89	777.45	746.75	524.13
9.20	1076.44	936.91	1123.42	950.28	933.89	777.45	737.11	517.59
9.40	1081.70	943.58	1113.05	938.54	944.40	788.97	727.08	510.63
9.60	1081.70	943.58	1102.70	927.41	944.40	788.97	716.73	503.57
9.80	1086.83	950.74	1092.57	916.97	955.91	801.59	706.37	496.54
10.00	1089.34	954.52	1082.87	907.26	961.98	808.26	696.20	489.72
10.20	1089.34	954.52	1073.64	898.32	961.98	808.26	686.21	483.22
10.40	1094.30	962.43	1064.95	890.11	974.75	822.32	676.55	477.14
10.60	1094.30	962.43	1056.75	882.46	974.75	822.32	667.39	471.53
10.80	1099.10	970.94	1049.02	875.40	987.92	837.16	658.71	466.36
11.00	1101.44	975.42	1041.67	868.80	994.60	844.87	650.56	461.62
11.20	1101.44	975.42	1034.67	862.67	994.60	844.87	642.95	457.25
11.40	1106.00	984.78	1028.05	856.93	1008.15	860.81	635.83	453.17
11.60	1108.37	989.68	1021.79	851.51	1015.10	869.08	629.06	449.37
11.80	1110.81	994.75	1015.85	846.43	1022.15	877.67	622.72	445.80
12.00	1113.28	1000.01	1010.14	841.62	1029.20	886.40	616.77	442.41
12.20	1113.28	1000.01	1004.64	837.06	1029.20	886.40	611.22	439.19
12.40	1115.82	1005.45	1004.64	837.06	1036.19	895.25	611.22	439.19
12.60	1121.28	1016.72	994.17	828.49	1050.25	913.57	601.24	433.26
12.80	1124.26	1022.49	989.17	824.49	1057.20	922.88	596.77	430.54
13.00	1127.36	1028.31	984.32	820.68	1064.04	932.19	592.62	427.98
13.20	1127.36	1028.31	979.66	817.05	1064.04	932.19	588.80	425.55
13.40	1130.58	1034.11	975.18	813.57	1070.75	941.27	585.26	423.25
13.60	1136.90	1045.84	970.89	810.25	1083.52	959.26	581.99	421.09
13.80	1139.73	1051.64	966.78	807.02	1089.23	967.97	578.96	419.00
14.00	1142.14	1057.31	962.81	803.92	1094.20	976.24	576.07	416.95
14.20	1142.14	1057.31	958.83	800.74	1094.20	976.24	573.27	414.90
14.40	1143.87	1062.73	954.68	797.37	1098.16	983.65	570.48	412.76
14.60	1142.96	1071.81	950.08	793.55	1101.91	994.89	567.52	410.42
14.80	1138.89	1073.93	944.62	788.92	1100.52	997.95	564.15	407.74
15.00	1131.27	1072.60	937.72	783.07	1095.78	998.27	560.03	404.51
15.20	1118.60	1065.94	928.52	775.31	1086.85	995.02	554.69	400.42
15.40	1118.60	1065.94	915.95	764.88	1086.85	995.02	547.46	395.01
15.60	1072.86	1029.75	898.62	750.68	1052.92	972.71	537.43	387.76
15.80	1038.38	999.55	874.69	731.31	1026.09	950.54	523.79	378.16
16.00	994.02	959.35	874.69	731.31	988.17	915.35	523.79	378.16

Model	Position	Bridge Substructure Config.	Width	Span	Vertical Clearance	Heat Release Rate (HRR)
49	Abutment	Abutments	13.0 m	24 m	5 m	2400 kW/m ²
50	Abutment	Abutments	13.0 m	24 m	5 m	1800 kW/m ²
51	Mid-Span	Abutments	13.0 m	24 m	5 m	2400 kW/m ²
52	Mid-Span	Abutments	13.0 m	24 m	5 m	1800 kW/m ²
53	Abutment	Abutments	13.0 m	24 m	9 m	2400 kW/m ²
54	Abutment	Abutments	13.0 m	24 m	9 m	1800 kW/m ²
55	Mid-Span	Abutments	13.0 m	24 m	9 m	2400 kW/m ²
56	Mid-Span	Abutments	13.0 m	24 m	9 m	1800 kW/m ²





X	Model 49	Model 50	Model 51	Model 52	Model 53	Model 54	Model 55	Model 56
0.00	713.33	637.77	766.03	610.71	384.45	337.83	422.91	320.63
0.20	738.01	656.27	785.20	624.17	394.75	345.89	433.61	329.29
0.40	757.60	670.52	798.60	633.61	402.07	351.73	441.21	335.72
0.60	773.41	681.99	808.17	640.54	407.29	355.71	446.85	340.50
0.80	786.44	691.62	815.09	645.61	411.05	358.16	451.01	344.06
1.00	797.33	699.36	820.23	649.46	413.75	359.74	454.32	346.73
1.20	806.10	705.95	824.17	652.49	415.70	360.83	456.89	348.75
1.40	813.02	711.53	827.39	655.02	417.21	361.64	458.96	350.36
1.60	818.64	715.63	830.24	657.27	418.35	362.33	460.77	351.75
1.80	823.26	718.76	832.88	659.50	419.37	362.91	462.47	353.02
2.00	827.50	720.99	835.46	661.78	420.35	363.45	464.19	354.25
2.20	831.51	722.57	838.10	664.11	421.39	364.01	466.03	355.48
2.40	835.32	723.65	840.88	666.63	422.53	364.59	467.96	356.75
2.60	838.97	724.60	843.72	669.26	423.74	365.22	470.06	358.10
2.80	842.51	725.47	846.72	671.98	424.98	365.90	472.33	359.55
3.00	845.92	726.34	849.83	674.87	426.32	366.63	474.81	361.10
3.20	849.20	727.27	853.04	677.91	427.70	367.48	477.47	362.76
3.40	852.39	728.28	856.42	681.09	429.08	368.36	480.28	364.54
3.60	855.48	729.42	859.95	684.29	430.50	369.28	483.25	366.44
3.80	858.46	730.67	863.53	687.63	431.90	370.25	486.41	368.44
4.00	861.37	731.93	867.25	691.14	433.34	371.31	489.75	370.56
4.20	864.22	733.24	871.12	694.79	434.80	372.46	493.30	372.83
4.40	866.97	734.55	875.14	698.57	436.30	373.66	497.06	375.27
4.60	869.65	735.88	879.31	702.52	437.85	374.94	501.01	377.90
4.80	872.28	737.21	883.70	706.62	439.45	376.28	505.15	380.68
5.00	874.83	738.51	888.34	710.99	441.11	377.71	509.54	383.65
5.20	877.28	739.82	893.25	715.59	442.79	379.22	514.24	386.83
5.40	879.66	741.15	898.40	720.62	444.60	380.86	519.34	390.27
5.60	881.95	742.61	904.03	726.02	446.55	382.63	524.84	393.97
5.80	884.17	744.08	910.02	731.72	448.62	384.55	530.75	397.94
6.00	884.17	744.08	910.02	731.72	448.62	384.55	530.75	397.94
6.20	888.50	747.56	923.21	744.13	454.00	389.15	543.71	406.52
6.40	890.30	748.82	929.24	749.72	455.56	390.79	549.06	410.34
6.60	890.30	748.82	929.24	749.72	455.56	390.79	549.06	410.34
6.80	892.08	750.15	935.69	755.69	457.26	392.53	554.74	414.34
7.00	895.60	753.43	949.85	769.11	461.07	396.22	567.10	422.84
7.20	897.39	755.26	957.64	776.64	463.19	398.18	573.74	427.25
7.40	899.25	757.14	965.96	784.60	465.45	400.18	580.68	431.76
7.60	899.25	757.14	965.96	784.60	465.45	400.18	580.68	431.76
7.80	903.09	761.26	983.99	802.46	470.32	404.38	595.34	440.94

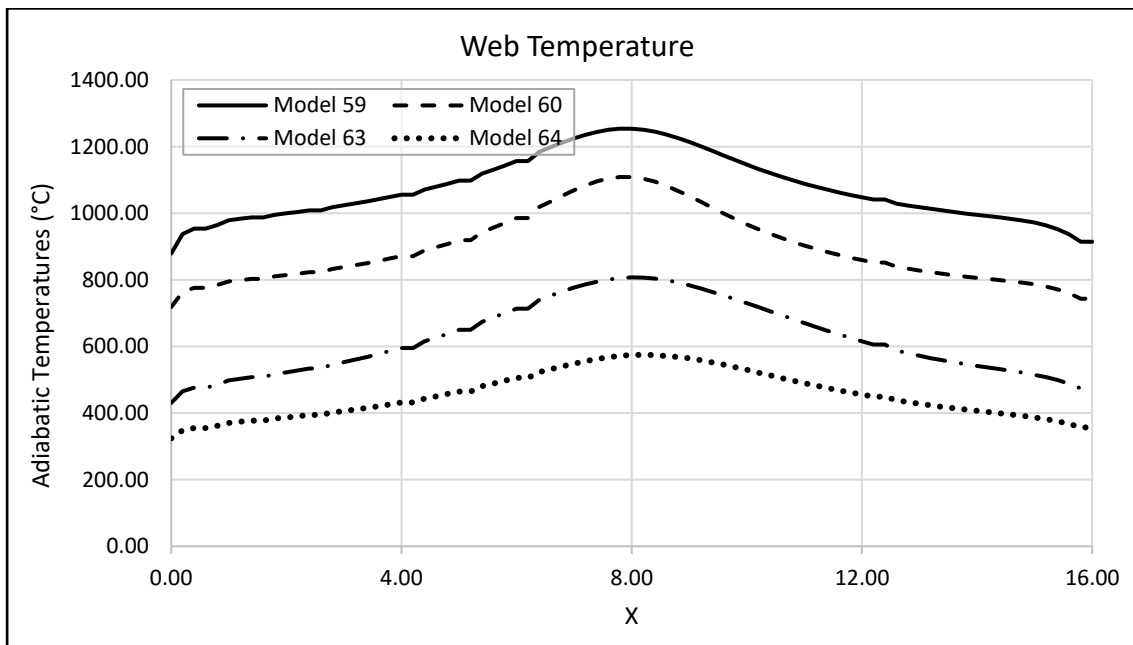
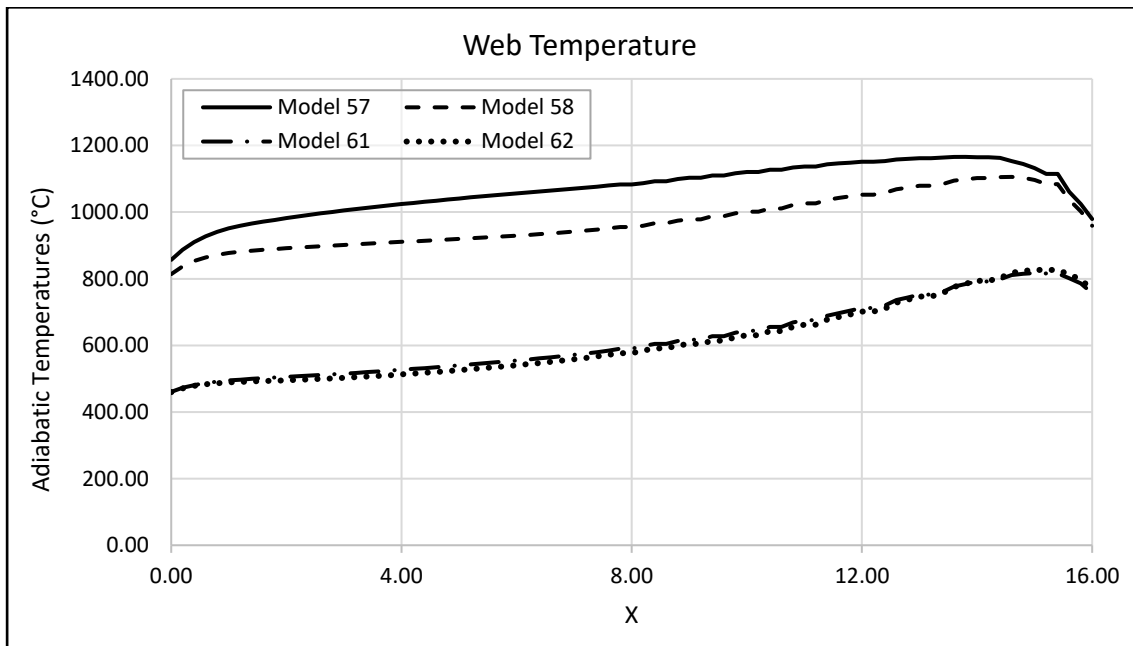


X	Model 49	Model 50	Model 51	Model 52	Model 53	Model 54	Model 55	Model 56
8.00	905.11	763.47	993.73	812.45	472.91	406.55	603.04	445.72
8.20	905.11	763.47	993.73	812.45	472.91	406.55	603.04	445.72
8.40	909.13	768.12	1015.01	834.80	478.36	411.09	619.87	455.73
8.60	909.13	768.12	1015.01	834.80	478.36	411.09	619.87	455.73
8.80	913.45	773.25	1038.48	860.23	484.14	415.84	638.40	466.79
9.00	915.69	776.06	1051.25	874.23	487.18	418.30	648.40	472.83
9.20	915.69	776.06	1051.25	874.23	487.18	418.30	648.40	472.83
9.40	920.39	781.93	1078.48	905.31	493.53	423.44	669.83	486.33
9.60	922.91	784.95	1093.19	922.29	496.83	426.07	681.19	493.75
9.80	925.55	788.15	1108.67	940.21	500.24	428.79	692.89	501.57
10.00	928.30	791.48	1124.92	958.97	503.70	431.53	704.66	509.77
10.20	928.30	791.48	1124.92	958.97	503.70	431.53	704.66	509.77
10.40	934.21	798.55	1159.11	999.42	510.83	437.25	727.57	526.53
10.60	937.33	802.30	1176.50	1020.16	514.44	440.18	738.36	534.67
10.80	940.58	806.14	1193.38	1040.40	518.16	443.15	748.13	542.31
11.00	943.92	810.07	1209.48	1059.59	521.88	446.17	756.59	549.08
11.20	943.92	810.07	1209.48	1059.59	521.88	446.17	756.59	549.08
11.40	950.90	818.34	1236.31	1091.32	529.36	452.35	768.49	558.72
11.60	954.56	822.70	1245.41	1101.38	533.20	455.50	771.93	561.40
11.80	958.35	827.14	1250.71	1106.31	537.04	458.68	773.29	562.20
12.00	962.27	831.71	1251.49	1106.52	540.92	461.92	772.97	561.20
12.20	962.27	831.71	1251.49	1106.52	540.92	461.92	772.97	561.20
12.40	970.33	841.19	1242.26	1092.01	548.77	468.51	765.81	554.51
12.60	974.49	846.11	1232.57	1078.77	552.72	471.85	759.58	549.23
12.80	978.71	851.16	1219.83	1062.09	556.68	475.27	752.11	542.93
13.00	983.00	856.29	1205.03	1043.26	560.63	478.74	743.56	535.69
13.20	987.36	861.49	1188.75	1022.99	564.64	482.26	734.19	527.66
13.40	991.86	866.81	1171.65	1002.20	568.68	485.83	724.06	519.19
13.60	996.39	872.18	1154.30	981.90	572.78	489.38	713.47	510.53
13.80	1000.97	877.57	1137.03	962.12	576.87	493.02	702.60	501.94
14.00	1005.69	882.96	1120.32	943.30	581.00	496.65	691.64	493.63
14.20	1010.45	888.37	1104.25	925.55	585.14	500.39	680.79	485.71
14.40	1015.28	893.89	1088.91	908.72	589.35	504.17	670.02	478.31
14.60	1020.17	899.45	1074.24	892.94	593.59	507.99	659.51	471.43
14.80	1025.11	905.04	1060.32	878.02	597.96	511.83	649.30	465.07
15.00	1030.09	910.72	1047.13	864.15	602.38	515.81	639.46	459.14
15.20	1035.12	916.39	1034.64	851.03	606.93	519.81	630.08	453.68
15.40	1040.19	922.09	1022.85	838.93	611.57	523.96	621.16	448.49
15.60	1045.32	927.78	1011.75	827.55	616.33	528.23	612.67	443.61
15.80	1050.48	933.52	1001.43	817.24	621.29	532.61	604.60	438.87



X	Model 49	Model 50	Model 51	Model 52	Model 53	Model 54	Model 55	Model 56
16.00	1055.66	939.33	991.62	807.58	626.38	537.17	596.87	434.31
16.20	1060.86	945.20	982.44	798.88	631.68	541.94	589.41	429.90
16.40	1060.86	945.20	982.44	798.88	631.68	541.94	589.41	429.90
16.60	1071.51	957.28	965.90	783.56	643.38	552.48	575.69	421.61
16.80	1076.84	963.35	958.41	776.88	649.81	558.33	569.25	417.66
17.00	1076.84	963.35	958.41	776.88	649.81	558.33	569.25	417.66
17.20	1082.50	970.01	949.22	767.75	659.19	566.58	559.82	412.40
17.40	1087.55	975.42	941.62	760.44	663.89	570.91	552.60	408.05
17.60	1097.55	986.45	927.72	747.46	673.60	579.99	539.41	399.89
17.80	1102.48	992.05	921.48	741.61	678.85	584.98	533.32	396.05
18.00	1107.32	997.78	915.49	736.18	684.45	590.21	527.54	392.39
18.20	1107.32	997.78	915.49	736.18	684.45	590.21	527.54	392.39
18.40	1112.04	1003.52	909.88	731.10	690.22	595.75	522.09	388.91
18.60	1121.09	1014.96	899.34	721.62	702.47	607.61	512.01	382.42
18.80	1125.41	1020.70	894.30	717.17	708.97	613.88	507.39	379.42
19.00	1129.49	1026.42	889.48	713.01	715.68	620.37	502.97	376.58
19.20	1129.49	1026.42	889.48	713.01	715.68	620.37	502.97	376.58
19.40	1133.39	1032.17	884.78	708.98	722.65	627.04	498.75	373.92
19.60	1140.45	1043.57	875.80	701.29	737.05	641.15	490.97	369.13
19.80	1143.65	1049.21	871.55	697.68	744.60	648.68	487.43	366.93
20.00	1146.61	1054.73	867.38	694.23	752.48	656.46	484.08	364.87
20.20	1146.61	1054.73	867.38	694.23	752.48	656.46	484.08	364.87
20.40	1149.40	1060.11	863.34	690.89	760.46	664.58	480.93	362.93
20.60	1154.32	1070.66	855.66	684.69	776.96	681.17	475.18	359.43
20.80	1156.46	1075.76	852.05	681.82	785.37	689.66	472.59	357.82
21.00	1158.38	1080.79	848.60	678.98	793.81	698.31	470.15	356.32
21.20	1158.38	1080.79	848.60	678.98	793.81	698.31	470.15	356.32
21.40	1160.00	1085.61	845.30	676.31	802.27	706.99	467.93	354.93
21.60	1162.02	1094.59	839.10	671.49	818.71	724.62	463.83	352.44
21.80	1162.18	1098.63	836.17	669.25	826.62	733.48	461.95	351.28
22.00	1161.51	1102.11	833.33	667.05	834.19	742.37	460.09	350.14
22.20	1161.51	1102.11	833.33	667.05	834.19	742.37	460.09	350.14
22.40	1159.83	1104.90	830.44	664.82	841.42	751.14	458.15	348.97
22.60	1150.99	1106.59	823.99	659.89	853.92	766.69	453.65	346.25
22.80	1142.47	1103.76	819.97	656.82	858.46	772.51	450.83	344.47
23.00	1130.27	1096.84	814.91	653.00	860.79	776.25	447.33	342.12
23.20	1130.27	1096.84	814.91	653.00	860.79	776.25	447.33	342.12
23.40	1113.45	1084.21	808.19	648.11	860.40	777.00	442.71	338.89
23.60	1061.69	1037.19	786.18	632.32	847.02	764.67	428.18	328.14
23.80	1025.72	1002.60	767.98	619.41	831.22	749.17	417.10	319.78
24.00	981.39	959.19	739.22	597.99	800.88	719.96	399.44	306.25

Model	Position	Bridge Substructure Config.	Width	Span	Vertical Clearance	Heat Release Rate (HRR)
57	Abutment	Abutments	13.0 m	16 m	5 m	2400 kW/m ²
58	Abutment	Abutments	13.0 m	16 m	5 m	1800 kW/m ²
59	Mid-Span	Abutments	13.0 m	16 m	5 m	2400 kW/m ²
60	Mid-Span	Abutments	13.0 m	16 m	5 m	1800 kW/m ²
61	Abutment	Abutments	13.0 m	16 m	9 m	2400 kW/m ²
62	Abutment	Abutments	13.0 m	16 m	9 m	1800 kW/m ²
63	Mid-Span	Abutments	13.0 m	16 m	9 m	2400 kW/m ²
64	Mid-Span	Abutments	13.0 m	16 m	9 m	1800 kW/m ²





X	Model 57	Model 58	Model 59	Model 60	Model 61	Model 62	Model 63	Model 64
0.00	856.72	813.85	879.02	718.49	460.43	459.63	430.45	324.05
0.20	886.95	837.41	937.57	763.72	472.35	471.00	465.30	348.01
0.40	910.11	853.38	953.34	775.57	480.76	478.46	476.33	355.38
0.60	927.81	864.27	953.34	775.57	486.76	483.39	476.33	355.38
0.80	941.04	871.80	964.36	784.08	491.10	486.57	485.17	361.40
1.00	951.08	877.13	978.24	795.00	494.43	488.72	497.97	370.54
1.20	958.91	881.13	983.14	799.06	497.10	490.30	503.12	374.10
1.40	965.44	884.32	987.38	802.76	499.41	491.56	508.00	377.35
1.60	971.22	886.95	987.38	802.76	501.45	492.72	508.00	377.35
1.80	976.64	889.32	995.34	810.03	503.33	493.88	517.53	383.63
2.00	981.84	891.52	999.50	814.00	505.17	495.07	522.49	386.89
2.20	986.87	893.62	1003.89	818.17	507.03	496.35	527.83	390.31
2.40	991.69	895.68	1008.47	822.74	508.95	497.79	533.55	393.95
2.60	996.34	897.71	1008.47	822.74	510.92	499.30	533.55	393.95
2.80	1000.82	899.69	1018.47	832.71	512.99	500.91	546.27	401.87
3.00	1005.12	901.70	1023.89	838.12	515.12	502.62	553.32	406.20
3.20	1009.27	903.67	1029.59	843.87	517.29	504.48	560.81	410.72
3.40	1013.22	905.55	1035.60	850.05	519.52	506.42	568.76	415.49
3.60	1017.04	907.28	1041.90	856.75	521.86	508.46	577.21	420.54
3.80	1020.69	908.99	1048.56	863.84	524.26	510.60	586.10	425.88
4.00	1024.23	910.69	1055.62	871.48	526.71	512.75	595.58	431.54
4.20	1027.68	912.34	1055.62	871.48	529.21	515.11	595.58	431.54
4.40	1031.08	914.05	1071.15	888.39	531.76	517.53	615.78	443.79
4.60	1034.40	915.73	1079.58	897.74	534.35	520.07	626.52	450.36
4.80	1037.68	917.51	1088.49	907.82	537.01	522.72	637.75	457.36
5.00	1040.95	919.30	1098.04	918.71	539.73	525.42	649.54	464.71
5.20	1044.14	921.14	1098.04	918.71	542.53	528.22	649.54	464.71
5.40	1047.30	923.03	1119.23	942.80	545.38	531.12	674.27	480.48
5.60	1050.40	924.98	1130.87	956.25	548.29	534.07	687.23	488.70
5.80	1053.46	926.99	1143.35	970.62	551.29	537.15	700.39	497.06
6.00	1056.46	929.11	1156.45	985.79	554.39	540.29	713.66	505.51
6.20	1059.39	931.36	1156.45	985.79	557.57	543.61	713.66	505.51
6.40	1062.28	933.71	1184.31	1018.62	560.87	547.05	740.27	522.94
6.60	1065.15	936.24	1198.36	1035.56	564.29	550.62	753.11	531.62
6.80	1068.01	938.88	1211.89	1052.50	567.85	554.35	765.39	540.18
7.00	1070.89	941.67	1224.58	1068.74	571.61	558.27	776.43	548.47
7.20	1073.78	944.67	1235.54	1083.52	575.61	562.34	786.03	555.87
7.40	1076.76	947.89	1244.30	1095.85	579.88	566.75	794.21	562.48
7.60	1079.81	951.29	1250.38	1104.45	584.57	571.46	800.80	567.83
7.80	1082.98	954.91	1253.63	1108.61	589.65	576.56	805.24	571.80



X	Model 57	Model 58	Model 59	Model 60	Model 61	Model 62	Model 63	Model 64
8.00	1082.98	954.91	1253.57	1108.28	589.65	576.56	807.26	574.22
8.20	1086.58	959.32	1250.47	1103.47	597.68	584.10	806.76	574.77
8.40	1092.94	966.62	1244.61	1094.58	604.74	591.30	803.79	573.88
8.60	1092.94	966.62	1236.30	1082.20	604.74	591.30	798.81	571.60
8.80	1099.59	974.43	1225.99	1067.53	612.84	599.58	792.11	568.30
9.00	1102.94	978.61	1213.96	1051.26	617.32	604.20	783.60	564.03
9.20	1102.94	978.61	1200.72	1034.06	617.32	604.20	773.98	558.64
9.40	1109.82	987.46	1186.78	1016.45	627.20	614.14	763.49	552.29
9.60	1109.82	987.46	1172.72	999.17	627.20	614.14	752.60	545.26
9.80	1116.92	996.72	1158.92	982.34	638.05	624.87	741.28	537.55
10.00	1120.44	1001.42	1145.62	966.55	643.83	630.56	729.71	529.55
10.20	1120.44	1001.42	1132.79	951.82	643.83	630.56	717.89	521.40
10.40	1127.35	1011.25	1120.58	938.09	655.82	642.65	705.91	513.31
10.60	1127.35	1011.25	1109.16	925.50	655.82	642.65	693.97	505.32
10.80	1134.09	1021.47	1098.47	913.79	668.54	655.63	682.03	497.50
11.00	1137.30	1026.63	1088.52	902.83	675.27	662.49	670.18	489.88
11.20	1137.30	1026.63	1079.21	892.67	675.27	662.49	658.57	482.49
11.40	1143.27	1036.99	1070.46	883.30	689.31	677.19	647.18	475.35
11.60	1146.07	1042.19	1062.34	874.63	696.56	684.97	636.37	468.49
11.80	1148.68	1047.44	1054.75	866.54	704.08	693.05	625.86	461.90
12.00	1151.16	1052.65	1047.70	859.06	711.73	701.40	615.64	455.55
12.20	1151.16	1052.65	1041.12	852.08	711.73	701.40	605.80	449.46
12.40	1153.54	1057.94	1041.12	852.08	719.66	710.06	605.80	449.46
12.60	1158.01	1068.59	1028.94	839.31	735.87	728.12	587.62	438.14
12.80	1160.10	1073.89	1023.32	833.52	744.10	737.43	579.45	432.92
13.00	1162.03	1079.21	1017.97	828.01	752.31	746.78	571.91	427.96
13.20	1162.03	1079.21	1012.87	822.92	752.31	746.78	564.90	423.24
13.40	1163.73	1084.39	1008.02	818.19	760.53	756.25	558.42	418.76
13.60	1165.77	1094.11	1003.41	813.82	776.85	775.38	552.42	414.53
13.80	1165.82	1098.30	999.07	809.73	784.63	784.75	546.81	410.50
14.00	1164.91	1101.88	994.93	805.97	792.01	793.94	541.58	406.60
14.20	1164.91	1101.88	990.93	802.45	792.01	793.94	536.53	402.78
14.40	1162.74	1104.66	986.87	798.94	799.02	802.71	531.54	399.01
14.60	1153.17	1105.81	982.53	795.31	811.13	817.93	526.45	395.16
14.80	1144.34	1102.81	977.60	791.22	815.25	823.28	520.96	391.10
15.00	1131.88	1096.13	971.46	786.21	817.08	826.45	514.89	386.64
15.20	1114.47	1084.04	963.24	779.87	815.80	826.36	507.81	381.49
15.40	1114.47	1084.04	951.97	771.27	815.80	826.36	499.07	375.13
15.60	1060.91	1037.35	936.37	759.49	801.79	812.99	487.95	367.09
15.80	1024.13	1002.47	914.02	742.75	786.09	797.66	473.91	356.84
16.00	979.58	959.33	914.02	742.75	756.25	767.93	473.91	356.84

