

MAXIMUM RESTRAINT SPACING – CAST IRON SOIL PIPE

Table A6.3-1; Maximum Seismic Restraint Spacing for Service (SV) Cast Iron Soil Pipe – Empty

Seismic Coefficient C_s					0.25	0.50	0.75	1.00	1.50	2.00
Seismic Hazard Level SHL					D	C	B	A	----	----
Pipe Size (in)	Pipe Weight per 10' Section (lbs)	Barrel O. D. (in)	Barrel I. D. (in)	Pipe Weight w_p (lb/ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)
2	41	2.30	1.96	4.1	40	40	40	30	30	30
3	61	3.30	2.96	6.1	40	40	40	40	40	40
4	79	4.30	3.94	7.9	40	40	40	40	40	40
5	100	5.30	4.94	10.0	40	40	40	40	40	40
6	124	6.30	5.94	12.4	40	40	40	40	40	40
8	181	8.38	7.94	18.1	40	40	40	40	40	40
10	260	10.50	9.94	26.0	40	40	40	40	40	40
12	346	12.50	11.94	34.6	40	40	40	40	40	40
15	525	15.88	15.16	52.5	40	40	40	40	40	40

MAXIMUM RESTRAINT SPACING – CAST IRON SOIL PIPE

PAGE 1 of 9

SECTION – A6.3

RELEASED ON: 07/30/2008



Toll Free (USA Only): 800-959-1229
 International: 614-889-0480
 FAX: 614-889-0540
 World Wide Web: www.kineticsnoise.com
 E-mail: sales@kineticsnoise.com



Dublin, Ohio, USA • Mississauga, Ontario, Canada

Member

Table A6.3-2; Maximum Seismic Restraint Spacing for Service (SV) Cast Iron Soil Pipe – Half Empty

Seismic Coefficient C_s					0.25	0.50	0.75	1.00	1.50	2.00
Seismic Hazard Level SHL					D	C	B	A	----	----
Pipe Size (in)	Pipe Weight per 10' Section (lbs)	Barrel O. D. (in)	Barrel I. D. (in)	Pipe Weight w_p (lb/ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)
2	41	2.30	1.96	4.8	40	40	40	30	30	20
3	61	3.30	2.96	7.6	40	40	40	40	40	30
4	79	4.30	3.94	10.5	40	40	40	40	40	40
5	100	5.30	4.94	14.2	40	40	40	40	40	40
6	124	6.30	5.94	18.4	40	40	40	40	40	40
8	181	8.38	7.94	28.8	40	40	40	40	40	40
10	260	10.50	9.94	42.8	40	40	40	40	40	40
12	346	12.50	11.94	58.9	40	40	40	40	40	40
15	525	15.88	15.16	91.6	40	40	40	40	40	40

MAXIMUM RESTRAINT SPACING – CAST IRON SOIL PIPE

PAGE 2 of 9



Dublin, Ohio, USA • Mississauga, Ontario, Canada

Toll Free (USA Only): 800-959-1229
 International: 614-889-0480
 FAX: 614-889-0540
 World Wide Web: www.kineticsnoise.com
 E-mail: sales@kineticsnoise.com

SECTION – A6.3

RELEASED ON: 07/30/2008



Member

Table A6.3-3; Maximum Seismic Restraint Spacing for Service (SV) Cast Iron Soil Pipe – Full

Seismic Coefficient C_s					0.25	0.50	0.75	1.00	1.50	2.00
Seismic Hazard Level SHL					D	C	B	A	----	----
Pipe Size (in)	Pipe Weight per 10' Section (lbs)	Barrel O. D. (in)	Barrel I. D. (in)	Pipe Weight w_p (lb/ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)
2	41	2.30	1.96	5.4	40	40	30	30	30	20
3	61	3.30	2.96	9.1	40	40	40	40	30	30
4	79	4.30	3.94	13.2	40	40	40	40	40	40
5	100	5.30	4.94	18.3	40	40	40	40	40	40
6	124	6.30	5.94	24.4	40	40	40	40	40	40
8	181	8.38	7.94	39.6	40	40	40	40	40	40
10	260	10.50	9.94	59.6	40	40	40	40	40	40
12	346	12.50	11.94	83.1	40	40	40	40	40	40
15	525	15.88	15.16	130.7	40	40	40	40	40	40

MAXIMUM RESTRAINT SPACING – CAST IRON SOIL PIPE

PAGE 3 of 9



Dublin, Ohio, USA • Mississauga, Ontario, Canada

Toll Free (USA Only): 800-959-1229
 International: 614-889-0480
 FAX: 614-889-0540
 World Wide Web: www.kineticsnoise.com
 E-mail: sales@kineticsnoise.com

SECTION – A6.3

RELEASED ON: 07/30/2008



Member

Table A6.3-4; Maximum Seismic Restraint Spacing for Extra Heavy (XH) Cast Iron Soil Pipe – Empty

Seismic Coefficient C_s					0.25	0.50	0.75	1.00	1.50	2.00
Seismic Hazard Level SHL					D	C	B	A	----	----
Pipe Size (in)	Pipe Weight per 10' Section (lbs)	Barrel O. D. (in)	Barrel I. D. (in)	Pipe Weight w_p (lb/ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)
2	45	2.38	2.00	4.5	40	40	40	40	30	30
3	84	3.50	3.00	8.4	40	40	40	40	40	40
4	105	4.50	4.00	10.5	40	40	40	40	40	40
5	134	5.50	5.00	13.4	40	40	40	40	40	40
6	157	6.50	6.00	15.7	40	40	40	40	40	40
8	246	8.62	8.00	24.6	40	40	40	40	40	40
10	375	10.75	10.00	37.5	40	40	40	40	40	40
12	471	12.75	12.00	47.1	40	40	40	40	40	40
15	676	15.88	15.00	67.6	40	40	40	40	40	40

MAXIMUM RESTRAINT SPACING – CAST IRON SOIL PIPE

PAGE 4 of 9

SECTION – A6.3

RELEASED ON: 07/30/2008



Toll Free (USA Only): 800-959-1229
 International: 614-889-0480
 FAX: 614-889-0540
 World Wide Web: www.kineticsnoise.com
 E-mail: sales@kineticsnoise.com



Dublin, Ohio, USA • Mississauga, Ontario, Canada

Member

Table A6.3-5; Maximum Seismic Restraint Spacing for Extra Heavy (XH) Cast Iron Soil Pipe – Half Empty

Seismic Coefficient C_s					0.25	0.50	0.75	1.00	1.50	2.00
Seismic Hazard Level SHL					D	C	B	A	----	----
Pipe Size (in)	Pipe Weight per 10' Section (lbs)	Barrel O. D. (in)	Barrel I. D. (in)	Pipe Weight w_p (lb/ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)
2	45	2.38	2.00	5.2	40	40	40	30	30	30
3	84	3.50	3.00	9.9	40	40	40	40	40	40
4	105	4.50	4.00	13.2	40	40	40	40	40	40
5	134	5.50	5.00	17.7	40	40	40	40	40	40
6	157	6.50	6.00	21.8	40	40	40	40	40	40
8	246	8.62	8.00	35.5	40	40	40	40	40	40
10	375	10.75	10.00	54.5	40	40	40	40	40	40
12	471	12.75	12.00	71.6	40	40	40	40	40	40
15	676	15.88	15.00	105.9	40	40	40	40	40	40

MAXIMUM RESTRAINT SPACING – CAST IRON SOIL PIPE

PAGE 5 of 9

SECTION – A6.3

RELEASED ON: 07/30/2008



Toll Free (USA Only): 800-959-1229
 International: 614-889-0480
 FAX: 614-889-0540
 World Wide Web: www.kineticsnoise.com
 E-mail: sales@kineticsnoise.com



Dublin, Ohio, USA • Mississauga, Ontario, Canada

Member

Table A6.3-6; Maximum Seismic Restraint Spacing for Extra Heavy (XH) Cast Iron Soil Pipe – Full

Seismic Coefficient C_s					0.25	0.50	0.75	1.00	1.50	2.00
Seismic Hazard Level SHL					D	C	B	A	----	----
Pipe Size (in)	Pipe Weight per 10' Section (lbs)	Barrel O. D. (in)	Barrel I. D. (in)	Pipe Weight w_p (lb/ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)
2	45	2.38	2.00	5.9	40	40	40	30	30	20
3	84	3.50	3.00	11.5	40	40	40	40	40	30
4	105	4.50	4.00	15.9	40	40	40	40	40	40
5	134	5.50	5.00	21.9	40	40	40	40	40	40
6	157	6.50	6.00	28.0	40	40	40	40	40	40
8	246	8.62	8.00	46.4	40	40	40	40	40	40
10	375	10.75	10.00	71.5	40	40	40	40	40	40
12	471	12.75	12.00	96.1	40	40	40	40	40	40
15	676	15.88	15.00	144.2	40	40	40	40	40	40

MAXIMUM RESTRAINT SPACING – CAST IRON SOIL PIPE

PAGE 6 of 9



Dublin, Ohio, USA • Mississauga, Ontario, Canada

Toll Free (USA Only): 800-959-1229
 International: 614-889-0480
 FAX: 614-889-0540
 World Wide Web: www.kineticsnoise.com
 E-mail: sales@kineticsnoise.com

SECTION – A6.3

RELEASED ON: 07/30/2008



Member

Table A6.3-7; Maximum Seismic Restraint Spacing for Hubless Cast Iron Soil Pipe – Empty

Seismic Coefficient C_s					0.25	0.50	0.75	1.00	1.50	2.00
Seismic Hazard Level SHL					D	C	B	A	----	----
Pipe Size (in)	Pipe Weight per 10' Section (lbs)	Barrel O. D. (in)	Barrel I. D. (in)	Pipe Weight w_p (lb/ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)
1 1/2	29	1.90	1.50	2.9	40	40	40	30	30	20
2	38	2.35	1.96	3.8	40	40	40	40	30	30
3	54	3.35	2.96	5.4	40	40	40	40	40	40
4	71	4.38	3.94	7.1	40	40	40	40	40	40
5	98	5.30	4.94	9.8	40	40	40	40	40	40
6	118	6.30	5.94	11.8	40	40	40	40	40	40
8	165	8.38	7.94	16.5	40	40	40	40	40	40
10	255	10.56	10.00	25.5	40	40	40	40	40	40
12	318	12.50	11.94	31.8	40	40	40	40	40	40
15	493	15.83	15.11	49.3	40	40	40	40	40	40

MAXIMUM RESTRAINT SPACING – CAST IRON SOIL PIPE

PAGE 7 of 9

SECTION – A6.3

RELEASED ON: 07/30/2008



Toll Free (USA Only): 800-959-1229
 International: 614-889-0480
 FAX: 614-889-0540
 World Wide Web: www.kineticsnoise.com
 E-mail: sales@kineticsnoise.com



Member

Table A6.3-8; Maximum Seismic Restraint Spacing for Hubless Cast Iron Soil Pipe – Half Empty

Seismic Coefficient C_s					0.25	0.50	0.75	1.00	1.50	2.00
Seismic Hazard Level SHL					D	C	B	A	----	----
Pipe Size (in)	Pipe Weight per 10' Section (lbs)	Barrel O. D. (in)	Barrel I. D. (in)	Pipe Weight w_p (lb/ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)
1 1/2	29	1.90	1.50	3.3	40	40	30	30	30	20
2	38	2.35	1.96	4.5	40	40	40	40	30	30
3	54	3.35	2.96	6.9	40	40	40	40	40	40
4	71	4.38	3.94	9.7	40	40	40	40	40	40
5	98	5.30	4.94	14.0	40	40	40	40	40	40
6	118	6.30	5.94	17.8	40	40	40	40	40	40
8	165	8.38	7.94	27.2	40	40	40	40	40	40
10	255	10.56	10.00	42.5	40	40	40	40	40	40
12	318	12.50	11.94	56.1	40	40	40	40	40	40
15	493	15.83	15.11	88.2	40	40	40	40	40	40

MAXIMUM RESTRAINT SPACING – CAST IRON SOIL PIPE

PAGE 8 of 9

SECTION – A6.3

RELEASED ON: 07/30/2008



Toll Free (USA Only): 800-959-1229
 International: 614-889-0480
 FAX: 614-889-0540
 World Wide Web: www.kineticsnoise.com
 E-mail: sales@kineticsnoise.com



Member

Table A6.3-9; Maximum Seismic Restraint Spacing for Hubless Cast Iron Soil Pipe – Full

Seismic Coefficient C_s					0.25	0.50	0.75	1.00	1.50	2.00
Seismic Hazard Level SHL					D	C	B	A	----	----
Pipe Size (in)	Pipe Weight per 10' Section (lbs)	Barrel O. D. (in)	Barrel I. D. (in)	Pipe Weight w_p (lb/ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)
1 1/2	29	1.90	1.50	3.7	40	40	30	30	30	20
2	38	2.35	1.96	5.1	40	40	40	30	30	30
3	54	3.35	2.96	8.4	40	40	40	40	40	30
4	71	4.38	3.94	12.4	40	40	40	40	40	40
5	98	5.30	4.94	18.1	40	40	40	40	40	40
6	118	6.30	5.94	23.8	40	40	40	40	40	40
8	165	8.38	7.94	38.0	40	40	40	40	40	40
10	255	10.56	10.00	59.5	40	40	40	40	40	40
12	318	12.50	11.94	80.3	40	40	40	40	40	40
15	493	15.83	15.11	127.0	40	40	40	40	40	40

MAXIMUM RESTRAINT SPACING – CAST IRON SOIL PIPE

PAGE 9 of 9

SECTION – A6.3

RELEASED ON: 07/30/2008



Toll Free (USA Only): 800-959-1229
 International: 614-889-0480
 FAX: 614-889-0540
 World Wide Web: www.kineticsnoise.com
 E-mail: sales@kineticsnoise.com



Dublin, Ohio, USA • Mississauga, Ontario, Canada

Member