

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

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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

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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

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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

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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

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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

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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

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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

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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

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