

RESTRAINED JOINT TABLE FOR BENDS

Minimum length to be restrained each side of bend (Feet):

PVC Pipe (in.)	Horizontal Bends				Vertical Bends (upper/lower)			
	90°	45°	22½°	11¼°	90°	45°	22½°	11¼°
3	12	5	3	2	NOT RECOMMENDED	13/3	7/2	4/1
4	14	6	3	2		16/3	8/2	4/1
6	20	8	4	2		22/5	11/2	6/1
8	26	11	5	3		29/6	14/3	7/2
10	30	13	6	3		35/7	17/4	9/2
12	35	15	7	4		41/8	20/4	10/2
14	40	17	8	4		47/9	23/5	12/3
16	45	19	9	5		53/10	26/5	13/3
18	49	21	10	5		58/12	28/6	14/3
20	53	22	11	6		64/13	31/6	16/3
24	61	26	13	6		74/15	36/7	18/4
30	72	30	15	8		89/17	43/9	22/5
36	82	34	17	9		103/20	50/10	25/5

D.I. Pipe (in.)	Horizontal Bends				Vertical Bends (upper/lower)			
	90°	45°	22½°	11¼°	90°	45°	22½°	11¼°
3	10	4	2	1	NOT RECOMMENDED	9/3	4/1	2/1
4	12	5	3	2		10/3	5/2	3/1
6	16	7	4	2		14/4	7/2	4/1
8	21	9	5	3		19/5	9/3	5/2
10	25	11	5	3		22/6	11/3	6/2
12	29	12	6	3		26/7	13/4	7/2
14	33	14	7	4		30/8	15/4	7/2
16	37	16	8	4		34/9	16/4	8/2
18	41	17	9	4		37/10	18/5	9/3
20	44	19	9	5		41/11	20/5	10/3
24	51	21	11	5		47/12	23/6	12/3
30	60	25	12	6		56/15	27/7	14/4
36	69	29	14	7		65/17	32/8	16/4
42	76	32	16	8		73/19	35/10	18/5
48	83	35	17	9		81/21	39/11	20/5

Table is based upon Class II soil type SP, trench type 4, 150 psi testing pressure, a safety factor of 1.5, and an assumed minimum cover of 3' on upper vertical bends, and 6' on lower vertical bends. This table was derived from EBAA Iron, Inc. Restrained Length Calculation Program. For evaluation of other criteria, use this or other similar programs.

COMMON PANEL 3A

**BERKELEY COUNTY WATER AND SANITATION
POTABLE WATER & SANITARY SEWER STANDARDS**