

## RESTRAINED JOINT TABLE FOR TEES

Minimum branch length to be restrained (Feet):

PVC PIPE														
Branch Pipe Size (in.)	Run Pipe Size (In.)													
	3	4	6	8	10	12	14	16	18	20	24	30	36	42
3	6	1	1	1	1	1	1	1	1	1	1	1	1	1
4	17	12	1	1	1	1	1	1	1	1	1	1	1	1
6	39	36	26	17	8	1	1	1	1	1	1	1	1	1
8	61	58	50	42	33	26	18	11	4	1	1	1	1	1
10	78	76	69	62	54	47	40	33	26	20	7	1	1	1
12	97	95	89	82	75	68	61	54	48	41	28	12	1	1
14	115	113	107	101	95	88	81	75	68	61	48	31	16	1
16	133	131	126	120	114	108	101	94	88	81	68	50	34	1
18	151	149	144	139	133	127	120	114	107	100	87	69	52	1
20	168	166	162	157	151	145	139	132	126	119	106	87	69	1
24	203	201	197	192	187	181	175	169	163	156	143	124	104	1
30	253	252	248	244	239	234	228	222	216	209	196	176	155	1
36	305	304	300	296	292	287	281	275	269	263	249	229	207	1

Not Recommended

DUCTILE IRON PIPE														
Branch Pipe Size (in.)	Run Pipe Size (In.)													
	3	4	6	8	10	12	14	16	18	20	24	30	36	42
3	4	1	1	1	1	1	1	1	1	1	1	1	1	1
4	11	8	1	1	1	1	1	1	1	1	1	1	1	1
6	26	24	17	12	5	1	1	1	1	1	1	1	1	1
8	40	38	33	28	22	17	12	7	3	1	1	1	1	1
10	52	50	46	41	36	31	27	22	17	13	5	1	1	1
12	65	63	59	55	50	46	41	36	32	27	19	8	1	1
14	76	75	71	67	63	59	54	50	45	41	32	21	11	2
16	88	87	83	80	76	72	67	63	58	54	45	33	23	13
18	100	99	95	92	88	84	80	75	71	67	58	46	34	24
20	111	110	107	104	100	96	92	88	84	79	70	58	46	35
24	134	133	131	127	124	120	116	112	108	104	95	82	69	57
30	168	167	164	162	158	155	151	147	143	139	130	117	103	90
36	202	201	199	196	193	190	186	182	178	174	165	152	138	124
42	235	235	232	230	227	224	220	216	212	208	200	186	171	156
48	270	269	267	264	262	258	255	251	247	243	234	221	205	190

Table is based upon Class II soil type SP, trench type 4, 150 psi testing pressure, a safety factor of 1.5, an assumed minimum cover of 3', and the minimum attached length of pipe (Lr) to extend in each direction along the run of the tee is 5'. 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 3B**

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