

Restrained Length In Feet Each Side of Fitting Joint								
PIPE DIAMETER (INCHES)	D. I. P.				P. V. C.			
	90°	45°	22 1/2°	11 1/4°	90°	45°	22 1/2°	11 1/4°
3"	30'	15'	10'	5'	40'	20'	10'	5'
4"	35'	15'	10'	5'	55'	25'	15'	10'
6"	55'	25'	10'	5'	80'	35'	20'	10'
8"	65'	30'	15'	10'	90'	40'	20'	10'
10"	80'	35'	20'	10'	110'	50'	25'	15'
12"	95'	40'	20'	10'	130'	55'	30'	15'
16"	120'	50'	25'	15'	165'	70'	35'	20'
20"	150'	65'	30'	15'	200'	85'	40'	20'
24"	180'	70'	35'	20'	210'	90'	45'	25'
30"	190'	80'	40'	20'	250'	105'	50'	25'
36"	220'	95'	45'	25'	0	0	0	0
42"	245'	105'	50'	25'	0	0	0	0
48"	260'	120'	60'	30'	0	0	0	0

Restrained lengths for valves, dead ends and branches from tees shall be the same as for 90° (degree) bends

Restrained Length In Feet For Reducer										
PIPE DIAMETER (INCHES)										
	3"	4"	6"	8"	10"	12"	16"	20"	24"	30"
3"	0	0	0	0	0	0	0	0	0	0
4"	40'	0	0	0	0	0	0	0	0	0
6"	50'	45'	0	0	0	0	0	0	0	0
8"	75'	70'	40'	0	0	0	0	0	0	0
10"	95'	90'	70'	40'	0	0	0	0	0	0
12"	120'	115'	100'	75'	40'	0	0	0	0	0
16"	160'	155'	140'	125'	100'	70'	0	0	0	0
20"	200'	195'	185'	170'	150'	130'	75'	0	0	0
24"	160'	155'	150'	140'	135'	120'	90'	50'	0	0
30"	195'	190'	185'	180'	170'	160'	120'	105'	70'	0
36"	225'	220'	215'	210'	205'	195'	180'	150'	125'	70'
42"	245'	240'	235'	230'	225'	220'	205'	180'	155'	105'
48"	255'	250'	245'	240'	235'	230'	215'	195'	175'	125'

Length of restrained joint for larger diameter pipe

NOTES:

1. WHEN SOIL COVER IS LESS THAN 2 FEET INCREASE "L" BY 30%. WHEN SOIL COVER IS LESS THAN 1/2 OF PIPE OUTSIDE DIAMETER INCREASE "L" BY 100%.
2. "L" ABOVE IS GIVEN IN FEET FROM FITTING JOINT.
3. MECHANICAL JOINT ANCHORING SHALL BE USED IN LIEU OF CONCRETE THRUST BLOCKING WHERE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
4. MINIMUM NUMBER OF JOINTS TO BE RESTRAINED SHALL BE MIN. LENGTH PLUS ONE FULL JOINT. (SEE TABLE)

LBFH INC. - CADD FILE NAME: L:\CAD-DETAILS\SLC\SLC-G4.DWG



ST. LUCIE COUNTY
WATER & WASTEWATER
CONSTRUCTION STANDARDS

MECHANICAL JOINT
ANCHORING REQUIREMENTS