



		PIPE SIZE (RUN)							
		4	6	8	12	16	18	20	24
PIPE SIZE (BRANCH)	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6		N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8			191	169	169	169	169	169
	12				240	240	240	240	240
	16					309	309	309	309
	18						342	342	342
	20							374	374
	24								438

RESTRAINED LENGTHS "L" IN FEET

## TEE

**NOTES:**

- ALL JOINTS WITHIN LENGTH "L" MUST BE RESTRAINED. INSTALL A FULL LENGTH OF PIPE ON EACH SIDE OF THE BRANCH AND A RESTRAIN JOINT ON BOTH ENDS OF THE RUN. THE FOLLOWING ASSUMPTIONS APPLY FOR THE RESTRAINED PIPE LENGTH:
  - TEST PRESSURE: 225 PSI
  - TYPE 4 LAYING CONDITION
  - A SAFETY FACTOR OF 2
  - SAND/SILT SOIL CONDITION
  - POLYETHYLENE WRAP

REVISION	BY	APPR	DATE

**ELSINORE VALLEY**  
MUNICIPAL WATER DISTRICT

*Parag Kalaria*  
06/22/2023  
PARAG KALARIA R.C.E. 83927 DATE

**STANDARD RESTRAINT FOR  
DUCTILE IRON AND PVC PIPE**

STD. DWG. NO.  
**W-4A**