

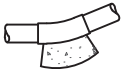
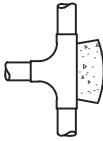
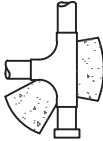
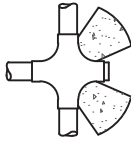
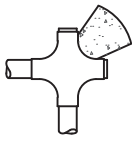


FITTING TYPE		90° BEND	45° BEND	11¼° OR 22½° BEND	TEE OR DEAD END	TEE W_PLUG	CROSS W_PLUG	CROSS W_PLUGS
TYPICAL INSTALLATION								
PIPE SIZE	2" to 4"	2	1	1	2	2	2 EA	2
	6"	4	2	1	3	4	4 EA	4
	8"	7	4	2	5	7	7 EA	7
	10"	12	6	3	8	12	12 EA	12
	12"	16	10	5	12	16	16 EA	16
	14"	23	13	7	16	23	23 EA	23
	16"	29	16	8	20	29	29 EA	29

1. NUMBERS IN TABLE ABOVE ARE REQUIRED MINIMUM BEARING AREAS IN SQUARE FEET. THRUST BLOCK BEARING AREA SHALL BE GENERALLY CONSTRUCTED AS A SQUARE OR AS DIRECTED BY THE CITY ENGINEER.
2. THRUST BLOCKS SHALL BE CONSTRUCTED OF MIN 4,000 PSI CONCRETE.
3. AREAS GIVEN ARE FOR CLASS 200 PIPE AT 200 PSI TEST PRESSURE IN SOILS WITH 2,000 PSF BEARING CAPACITY. IF DESIGN PIPE PRESSURE EXCEEDS 200 PSI OR IF SOIL BEARING CAPACITY IS LOWER THAN 200 PSF, THRUST BLOCKS ARE REQUIRED TO BE APPROVED BY THE CITY ENGINEER.
4. THRUST BLOCKS SHALL BE PLACED AGAINST UNDISTURBED SOIL.
5. STRAPS USED FOR ANCHORING PIPE TO THRUST SHALL BE STAINLESS STEEL OR EPOXY COATED REBAR.
6. PIPE FITTINGS SHALL BE PROTECTED WITH MINIMUM 8 MIL POLYETHEYLENE ENCASEMENT THEN WRAPPED WITH 10 MIL TAPE, IN ORDER THAT NO CONCRETE WILL TOUCH THE FITTING, OR JOINT, OR BOLT HARDWARE UPON THRUST BLOCK PLACEMENT.
7. A SOILS REPORT SHALL BE PROVIDED UPON REQUEST BY THE CITY ENGINEER.
8. THIS TABLE IS NOT APPLICABLE TO THE DESIGN OF ON-SITE FIRE SUPPRESSION WATER MAINS.
9. THRUST BLOCKS FOR PIPE SIZES LARGER THAN 16" SHALL BE APPROVED BY THE CITY ENGINEER.
10. NO BACKFILLING OF THE TRENCH UNTIL A MINIMUM OF TWELVE (12) HOURS OF PLACING THRUST BLOCK. SPECIAL CIRCUMSTANCES FOR EARLIER BACKFILL IS AT THE DISCRETION OF THE CITY ENGINEER IN SITUATIONS WHERE A CONTRACTOR HAS A SMALL PROJECT IN A STREET AND WOULD LIKE TO GET THE TRENCH BACKFILLED AS SOON AS POSSIBLE.



APPROVED: Aug. X, 2025

STANDARD
DETAIL #

519

TITLE:

**THRUST BLOCK
BEARING
AREA TABLE**

