

## **DOWNWARD BEND**

<b>SECTION</b>	D - D
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BLOCKING FOR PLUGS AND ELBOWS						
OUTSIDE FACE AREA (SQ. FT.)						
PIPE SIZE (IN.)	PLUG	90° ELBOW	45° ELBOW	22 1/2° ELBOW	11 1/4° ELBOW	
20	16	25	14	7*	4*	
16	12	16	9	5*	3*	
12	7	9	5	3*	2*	
10	4	7	4	2*	1*	
8	3	5	3	2*	1*	
6	2	3	2	1*	1*	

<sup>\*</sup> NOT REQUIRED UNLESS SPECIFIED

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BLOCKING FOR TEES AND WYES			
SIZE OF RUN (IN.)	SIZE OF BRANCH (IN.)	OUTSIDE FACE AREA (SQ. FT.)	
	16	12	
20 OR 16	12	7	
	10	6	
	8	5	
	12	7	
12 OR LESS	10	6	
	8	4	
	6	2	

## NOTES:

- 1. USE CLASS 'B' CONCRETE FOR ALL THRUST BLOCKS
- 2. THRUST BLOCKS ARE INCIDENTAL TO THE INSTALLATION OF WATER MAIN
- 3. FOLLOW DIPA PIPE RESTRAINT REQUIREMENTS FOR PIPE LENGTH INTO AND OUT OF A FITTING
- 4. MECHANICAL RESTRAINTS ARE REQUIRED WITH THRUST BLOCKS

## WATER MAIN RESTRAINT/THRUST BLOCKS