

DOWNWARD BEND

ECI	ION I	<u>U - C</u>		

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*		

^{*} 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			
20 OK 16	10	6			
	8	5			
	12	7			
12 OR LESS	10	6			
12 OR LESS	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 DIPRA 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