

<b>PLUMBING</b>
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<b>FOUNDATIONS</b>
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SLEEVES:	Pipes run through or under foundation pipe must be in a sleeve <b>2 sizes</b> larger than pipe.
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<b>UNDERGROUND</b>
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DEPTH:	Plumbing pipe must be buried a minimum of 12-inches underground.
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<b>NAIL PLATES</b>
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STUD/JOIST:	Nail plates are required where pipe is within 1 1/2" of the face of the stud/joist
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<b>TESTS</b>
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P. V. C.:	Plastic piping must be tested by water pressure (air test is not allowed).
DRAIN LINE:	Entire system must be filled to 5-foot head of water for inspection.
SUPPLY:	Plastic water piping must be tested by water at the working system pressure.
COPPER:	Metal supply piping may be tested at minimum 50 PSI air pressure.

<b>WATER HEATER PAN</b>
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REQUIRED:	Pans are required when water heaters are located in the home or attic.
DRAIN SIZE:	The minimum size drain line is 3/4".
TERMINATION:	Drain must terminate outside the building between 6" & 24" above ground.
RELIEF VALVE:	The relief valve pipe may terminate at the drain pan.
DEPTH:	Water heater pan must be a minimum 1 1/2" deep.
MATERIAL:	Gas water heaters must have metal drain pans.

<b>WATER SUPPLY &amp; DISTRIBUTION PIPING</b>
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P. V. C.:	Exterior piping may be PVC, interior piping must be CPVC.
SIZE:	The minimum size water supply piping is 3/4-inch.

<b>GLUE / SOLVENT CEMENT</b>
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C. P. V. C.:	Must be glued using an approved primer & orange color glue Or May use approved yellow glue up to 2-inch size.
P. V. C.:	Must be glued using a purple primer & glue of another color.

<b>SHUT OFF VALVES</b>
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REQUIRED:	Shut-off valves are required for all plumbing fixtures.
EXEMPT:	Residential tubs & showers do not require shut-off valves.
ACCESS:	All shut-off valves must be accessible.

<b>BACKFLOW PREVENTION</b>
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GENERAL:	Backflow prevention is required for all plumbing outlets by 1 of the following:
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	<ol style="list-style-type: none"> <li>1. Air gap</li> <li>2. Reduced pressure principle backflow preventer</li> <li>3. Backflow preventer with intermediate atmospheric vent</li> <li>4. Vacuum breaker</li> </ol>
HOSE:	Hose connections must be protected by atmospheric vent or vacuum breaker.

<b>WELL PUMP SIZING</b>					
# BATHROOMS:	1	1 - 1 1/2	2 - 2 1/2	3 - 4	5 - 6
PUMP GALLONS PER MINUTE:	7	10	14	17	21

<b>DRAINAGE</b>	
<b>DRAIN PIPE MINIMUM SLOPE</b>	
<b>SIZE</b>	<b>MINIMUM SLOPE</b>
2-1/2" or less	1/4-inch per foot
3" to 6"	1/8-inch per foot
8" or larger	1/16-inch per foot

<b>GLUE / SOLVENT CEMENT</b>	
P. V. C.:	Purple primer must be used with glue of another color.

<b>PIPE FITTINGS</b>	
SANITARY TEE:	A sanitary tee can only be used for horizontal to vertical drainage, such as a lavatory.

<b>CLEANOUTS</b>	
DRAINS:	Cleanouts are required on all building drains.
SEWER:	Cleanouts are required on all sewer lines.
BENDS:	Cleanouts required at all building drain direction changes over 45 degrees.
EXTERIOR:	A cleanout is required outside where the building drain and sewer connect.
SIZE:	Cleanouts must be the same size as the pipe they serve.

<b>TRAP SIZES</b>	
<b>FIXTURE TYPE</b>	<b>MINIMUM TRAP SIZE</b>
Clothes Washer	2-inch
Bathtub	1 1/2-inch
Dishwasher	1 1/2-inch
Drinking fountain	1 1/4-inch
Floor drain	2-inch
Kitchen sink	1 1/2-inch
Lavatory	1 1/4-inch
Shower	1 1/2-inch
Urinal	Same as fixture outlet
Toilet	Same as fixture outlet

<b>VENTS</b>		
<b>VENT STACK</b>		
<b>REQUIRED:</b>	All homes must have at least 1 vent stack from drain through roof .	
<b>HEIGHT:</b>	Vents must extend at least 6-inches above roof.	
<b>MAXIMUM DISTANCE FROM TRAP TO VENT</b>		
<b>TRAP SIZE</b>	<b>SLOPE</b>	<b>MAXIMUM DISTANCE</b>
1 - 1/4"	1/4-inch	3 1/2 – feet
1 - 1/2"	1/4-inch	5 – feet
2-inch	1/4-inch	6 – feet
3-inch	1/8-inch	10 – feet
4-inch	1/8-inch	12 – feet
<b>AIR ADMITTANCE VALVES</b>		
<b>PERMITTED:</b>	Air admittance valves can be used on individual, branch, and circuit vents.	
<b>LOCATION:</b>	Minimum of 6-inches above insulation & 4-inches above fixture drain. Air admittance valves cannot be located within walls.	
<b>ACCESS:</b>	All air admittance valves must be accessible & in ventilated area.	