

PLUMBING MATERIALS

COMMON PLUMBING MATERIALS

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QUEST



TUBULAR PIPE





- Varieties and Qualities
 - PFX A
 - more flexible
 - requires a special tool for fitting pipes
 - PFX B
 - is more commonly used
 - requires a crimping tool
 - it is what we use
 - Common Colors
 - White, Blue, Red
 - Common Sizes
 - **1/2**", 3/4", 1"







- *Notes
- <u>SUPPLY</u> definition: "Pipes that bring water into the house and connect to fixtures"
- <u>DRAIN</u> definition: "Pipes that are used for taking waste water away from the house"
- <u>SCHEDULE</u> definition: "Referring to the thickness of PVC pipes"



USF = DRAIN and SUPPLY*

- · Varieties and Qualities
 - Thin-wall or Schedule* 30
 - often used for drain-fields, septic systems, and gutter applications
 - used only for drain
 - Schedule* 40
 - most common variety
 - used for drain and supply
 - Schedule* 80
 - typically only used for water supply
 - it is a dark gray color
 - used only for supply
 - Common Sizes
 - **3**/4", 1", 1.5", 2", 3", 4"







COPPER

USE = DRAIN* and SUPPLY*

- · Varieties and Qualities
 - Type K
 - used for supply
 - used for main waterlines and underground lines
 - Type L
 - interior branch water supply lines
 - used for new construction
 - Type M
 - interior branch water supply lines
 - used for repairs
 - thinner than L and K
 - DWV (drain waste vent) Copper
 - used for drain waste and venting
 - often has yellow markings to distinguish it
 - Common Sizes
 - **1/2**", 3/4", 1"







GALVANIZED

USE = DRAIN* and SUPPLY*

- · Varieties and Qualities
 - This pipe can be used for water supply line underground and as interior branch lines
 - This pipe can be used for drain applications as well
 - It can be bought in the form of a nipple* or long sections that would require a threader to connect pipes
 - We try not to use galvanized pipe because of its corrosive properties
 - Common Sizes
 - **3**/4", 1", 1.5", 2"







*Notes

 NIPPLE definition: "a nipple is a fitting, consisting of a short piece of pipe, usually provided with a male pipe thread at each end, for connecting two other fittings"



- · Varieties and Qualities
 - There is just one type of CPVC. It is a variety of PVC but is typically put into a separate category since it is only used for water supply applications.
 - It requires yellow one step glue to connect fittings
 - It is generally used in high end homes and does not function well for repairs or replacements
 - Common Sizes
 - **1/2"**, 3/4", 1"







CAST IRON

USE = DRAIN*

- · Varieties and Qualities
 - This pipe is used only for drain applications
 - Joining methods include lead, cement and sand, 'Philplug', red lead putty or rust cement
 - We do not install cast iron
 - Common Sizes
 - **2**", 3", 4"









<u>CLAY</u>

USE = DRAIN*

- · Varieties and Qualities
 - This pipe is used only for drain applications
 - Clay can only be used as underground drain pipe
 - We do not install clay
 - Common Sizes
 - **3**", 4"







STAINLESS STEEL

- · Varieties and Qualities
 - Stainless Steel is a higher end water supply material that is typically used for pipe fittings (refer to fittings booklet)
 - Stainless Steel is very resistant to corrosion so is great for people that have acidic water.









BRASS

- Varieties and Qualities
 - The Primary use for Brass is for fittings (refer to fittings booklet)
 - Brass is not as resistant to corrosion but is still a very quality plumbing material









BLACK IRON

- · Varieties and Qualities
 - It is used in building sprinkler systems
 - It is also used as gas line so working around it should be done carefully
 - o Common sizes: 1/2", 3/4", 1", 1.5", 2"







BLACK POLY

- · Varieties and Qualities
 - Black poly can be most commonly found being used for main waterlines going from the water meter to the house
 - It is also used for well pipe
 - The two most common varieties are 100PSI, 150PSI, and 200PSI
 - o Common sizes: 3/4", 1"









BLUE POLY

- Varieties and Qualities
 - Blue poly can be most commonly found being used for main waterlines going from the water meter to someones house
 - Connection types include Sharkbite and compression style fittings compatible with CTS (copper tube size) pipe
 - Common sizes: 3/4", 1"
 - We don't Install blue Poly







QUEST

- · Varieties and Qualities
 - Quest pipe was recalled years ago and is typically good to remove from houses
 - Connection types are crimp rings and compression fittings
 - o Common sizes: 1/2", 3/4"







TUBULAR PIPE

USE = DRAIN*

- · Varieties and Qualities
 - Tubular pipe is typically seen under sinks where there are P-traps
 - It uses rubber washer compression style connections
 - o Common sizes: 1 1/4", 1 1/2"







STREAMLINE PLUMBING

GUIDE 1