

15110

PLUMBING BASIC MATERIAL AND METHODS

1.0 ACCEPTABLE MANUFACTURES:

VALVES: Crane, Apollo, Nibco, Milwaukee, Grinnell, Jenkins, Rockwell, Jamesbury, Watts

1.5 MATERIALS

Service: ABOVE GROUND DOMESTIC HOT AND COLD WATER

- A. Pipe: Copper Tube, Type L, hard drawn, ASTM B88, PEC tubing at contractor's option.
- B. Fittings: Wrought copper, solder-joint, ANSI B16.22
- C. Joints 2" and smaller: 95-5 tin/antimony solder ASTM B32
2-1/2" and larger: Englehard "Silvabrite 100" solder, tin/copper/silver composition, lead/antimony free.
- D. Valves Globe Valves 3" and smaller: Threaded ends, 150-pound, bronze body, union bonnet, rising stem, renewable disk.
Ball Valves 2" and smaller: Treaded ends, 150-pound, bronze body, two-piece design, chrome plated brass ball, brass stem Teflon seats. Vinyl covered steel handle. Blowout proof stem. Extended stem length where insulation occurs.

Service: ABOVE GROUND DOMESTIC HOT AND COLD WATER

Butterfly Valves: 2 1/2" and larger:

Lug Type: 200-pound, ductile iron or cast-iron body, aluminum bronze disc, stainless-steel one-piece stem EPDM seat. Provide with hand lever operator for sizes 4" and smaller.

Service: BELOW GROUND DOMESTIC WATER

- A. Pipe: Copper Tube, Type K, soft drawn, ASTM B88, FMRC approved PVC Class C900.
- B. Fittings: Wrought copper, solder-joint, ANSI B16.22

BOOT BARN
Warehouse Expansion
Wichita, Kansas

- C. Joints: No joints allowed.

Service: SANITARY DRAIN, AND WASTE PIPING

- A. Pipe: Below 1st floor Sch. Sch. 40 PVC or service weight cast iron.
Above Floor Service weight cast iron shall be used.
- B. Fittings: Sch. 40 PVC or cast iron below first floor. Service weight cast iron shall be used. above floor
- C. Joints: PVC socket. Cast Iron Tyseal joints below grade, no hub fittings maybe used for vents.

Service: SANITARY VENT PIPING

- A. Pipe: Sch. 40 PVC service weight Cast iron or Sch. 40 galvanized steel.
PVC is not allowed as the ceiling is a return air plenum
- B. Fittings: Sch. 40 PVC service weight cast iron or galvanized steel shall be used.
- C. Joints: No hub fittings or galvanized threaded fittings maybe used for vents.

Grooved Mechanical-Joint Couplings: Ductile iron housing and synthetic rubber gasket of central cavity pressure-responsive design; with nuts, bolts, locking pin, locking toggle, or lugs to secure grooved pipe and fittings.

- D. Flanges: Cast-Iron Threaded Flanges, Forged steel, 150-pound, raised ground face, bout holes spot faced.
Cast Bronze Flanges: ANSI B16.24 Class 150, raised ground face, bout holes spot faced.

End of Section 15110