

CHIL-GARD

Guide Specifications

GENERAL

Underground chilled water supply and return shall be a Ricwil CHIL-GARD system composed of integral sealed units of PVC plastic outer jacket, PVC plastic carrier pipe and insulated with polyurethane foam, completely filling the annular space between the pipe and jacket. Jacket ends shall be protected with factory applied moisture barrier. (Heat shrink end caps are available as an optional extra.)

Units and fittings shall be joined with integral bell and spigot joints, including a rubber sealing ring. 10" and 12" pipe size fittings shall be ductile iron.

All steel pipe adjoining this system shall be anchored at, or near the point of connection. Connection between PVC and steel pipe shall be made by inserting steel pipe into PVC bell end. The contractors shall pour concrete thrust blocks prior to testing pipe at every change of direction. The block size to be in accordance with normal water line installation for existing soil conditions and with the Engineer's approval.

Immediately after the system is installed in the ditch, a partial backfill shall be made in the middle of each unit leaving the joints exposed for inspection prior to the hydrostatic tests. After all thrust blocks are poured, a hydrostatic test of _____ psig shall be required for a period of four hours. No leakage shall be allowed.

NOTE: Air or gas is not recommended for pressure testing of plastic lines (PVC). Water should be used as the test medium.

After hydrostatic testing, final backfill of selected earth shall be hand-placed and hand-tamped to 12" minimum over the top of the jacket. Remainder of the backfill shall be free of large boulders, rocks over 6" in diameter, frozen earth or foreign matter. The backfill operation shall now be completed by any convenient means. Do not use wheeled or tracked vehicles for tamping.

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