

H. W. Porter & Co.

INCORPORATED

Newark, New Jersey

Permanent Protection and Insulation for Underground Pipe Lines

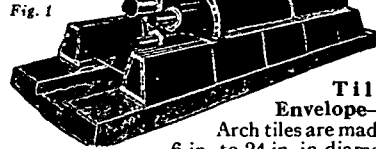
BALTIMORE, MD. CHARLOTTE, N. C. RICHMOND, VA. WASHINGTON, D. C.

Therm-O-Tile

REG. U. S. PAT. OFF.

STEAM CONDUIT SYSTEMS

For Central Heating—Therm-O-Tile is a complete conduit system for the permanent support, protection, and insulation of underground mains of a central heating system.



Tile Envelope—

Arch tiles are made 6 in. to 24 in. in diameter, and with 5 different size base tiles they produce 27 different conduit cross sections.

Foundation—The base of the system is a thick concrete slab poured directly in the trench bottom, reinforced with steel when installed over a filled or boggy ground. See Figs. 1, 4, 6 and 7.

Drainage—The drainage system of the conduit is entirely internal, open to inspection at manholes, and of ample capacity to keep the pipe space dry at all times without any possibility of becoming clogged with silt or vegetation. See Figs. 6 and 7.

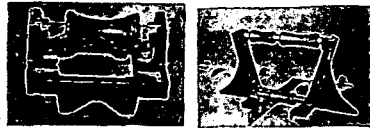


Fig. 2—Pipe Support for Single Pipe.

Fig. 3—Pipe Support for Three Pipes.

Pipe Support—All pipes are supported on cast-iron adjustable supports resting directly on the concrete base independent of the tile envelope. Figs. 2, 3, 4, 6 and 7.

Accessibility—All piping is installed before tile is placed, giving complete accessibility for welding, testing and insulation. Pipe fitters work on concrete slab "walkway." Figs. 1 and 4.

Strength—Due to immovable concrete base and arch construction of extra heavy tile members, conduit will sustain any roadway traffic load usually encountered without extra reinforcement.

Insulation—Either sectional pipe covering or Thermobestos waterproof fibre filling may be used for insulation, as the insulation space is kept dry at all times, by the internal drain.

For single or double pipe lines, sectional insulation of economical thickness is recommended; for multiple pipe lines, a filler type of insulation is usually more economical in first cost. See Figs. 6 and 7.

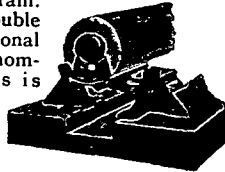


Fig. 4—Pipe Saddle. Permits full thickness of insulation between pipe and roller.

Waterproofing—Under normal soil conditions, this conduit is waterproof. If marshy ground or partially submerged conditions are encountered, the conduit may be made completely waterproof by the use of membrane waterproofing applied under the slab on a sub-base and carried completely over the tile envelope.

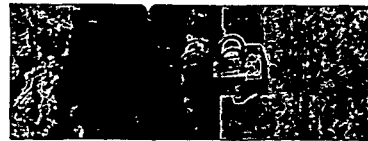


Fig. 5—Anchor Block. Fits directly in line with Base Tiles.

Efficiency—The degree of thermal efficiency secured depends upon the type and thickness of insulation used. This conduit, due to its sealed air chambers in the tile and dry insulation space, adds to the normal efficiency of the insulating material on the pipe lines.

Representatives—Therm-O-Tile is also sold and installed locally by Johns-Manville Construction Units.

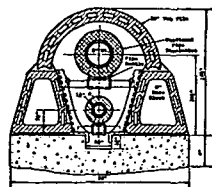


Fig. 6—Single or Double Pipe Lines Using Sectional Pipe Insulation.

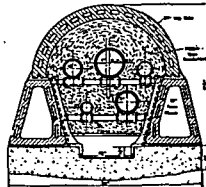


Fig. 7—Multiple Pipe Lines Using Filler Type Insulation.

The Ric-wil Company

Agents in Principal Cities

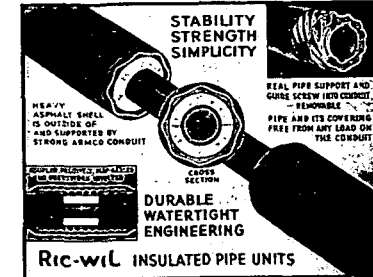
Ric-wil

REG. U. S. PAT. OFF.

ESTABLISHED IN 1910

CONDUIT SYSTEMS FOR UNDERGROUND STEAM PIPES
Union Commerce Bldg., Cleveland, Ohio New York, Chicago, San Francisco

Ric-wil Insulated Pipe Units—Pre-fabricated, pre-sealed, ready-to-install units, ideal for speed and economy. Armco Iron Conduit is the foundation supporting heavy asphalt shell of any desired thickness—a permanent housing for the insulated pipe which is surrounded with a protective air-space. Ample structural strength, lightweight and watertight. Furnished in any lengths, for single or multiple pipes, with any kind of steam pipe or insulation, for underground or overhead steam lines. Welded couplings used if preferred. Write for latest Unit Bulletin.



Types of Sectional Conduit—Ric-wil SuperTile Conduit, shown below, with Dry-paC Insulation, is an extra weight, heavy duty system designed for use under highway traffic or in especially wide or deep trenches. Vitrified tile, split on the job, with Loc-liP Side Joints, interlocking construction throughout. Same design also furnished in standard weight tile (Type F). Tile is bell and spigot design, lined or unlined, and comes in 24 in. sections, 4 in. to 27 in. inside diameter. For extra heavy duty under railways, Ric-wil is made of cast iron in 2 or 4 foot sections. Where continuous concrete base, poured on job, is desired, and reduced labor cost not essential, Ric-wil Universal Type System is recommended. Each system supplied complete with proper pipe supports, accessories, and insulation as specified. Separate bulletin on any one of these Ric-wil types supplied on request.

Base Drain—Standard Base Drain is vitrified salt glazed tile for tile conduit and extra heavy tile or cast iron for the cast iron conduit, in 24 in. lengths. Made in three sizes to support and drain properly all conduit sizes.

Insulation—Ric-wil Dry-paC Waterproof Insulation is high-grade long fibre asbestos, specially processed. Any grade of commercial hand packed insulation can be furnished, also sectional pipe covering. For lined conduit, diatomaceous earth mixture is molded and keyed inside the tile.

Engineering Service—Full cooperation with architects and engineers. Installation supervision if desired. Write for Catalog Bulletin with valuable underground data.

