

H. W. Porter & Co.

INCORPORATED

Newark, New Jersey

Permanent Protection and Insulation for Underground Pipe Lines

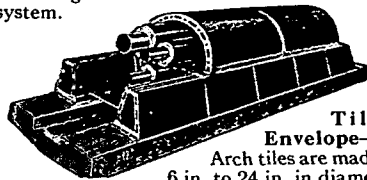
BALTIMORE, MD. CHARLOTTE, N. C. RICHMOND, VA. WASHINGTON, D. C.

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.



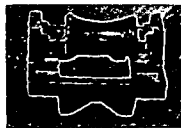
Tile

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.

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.



Pipe Support for Single Pipe.



Pipe Support for Three Pipes.

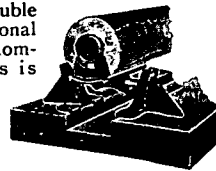
Pipe Support—All pipes are supported on cast-iron adjustable supports resting directly on the concrete base independent of the tile envelope.

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

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.



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

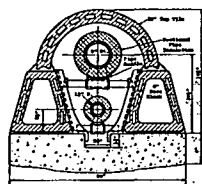
Waterproofing—Under normal soil conditions, this conduit is waterproof. If marshy ground or partially submerged conditions are encountered, the conduit may be made completely waterproof by the use of membrane waterproofing applied under the slab on a sub-base and carried completely over the tile envelope.



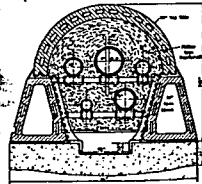
Anchor Block. Fits directly in line with Base Tiles.

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.



Single or Double Pipe Lines Using Sectional Pipe Insulation.



Multiple Pipe Lines Using Filler Type Insulation.

The Ric-wil Company

REG. U. S. PAT. OFF.

Ric-wil

Agents in
Principal Cities

ESTABLISHED IN
1910

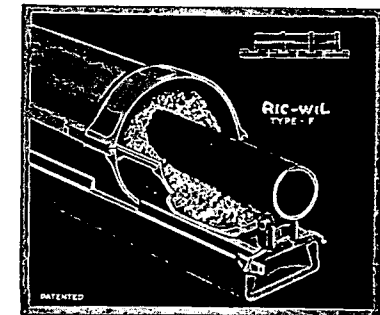
CONDUIT SYSTEMS FOR UNDERGROUND STEAM PIPES
Union Trust Bldg., Cleveland, Ohio
New York, Chicago

Conduit—Standard conduit is vitrified salt glazed tile or cast-iron with Loc-liP Side Joints, bell and spigot type, lined or unlined. Tile in 24 in. sections, sizes 4 to 27 in. inside diameter. A Super-Tile conduit to support any average traffic load is also available. For extra heavy duty under railroads or where conduit is subject to extreme loads, Ric-wil is made of cast-iron in 2 or 4 ft sections. Where reduced labor cost is not essential, Ric-wil Universal Type System is recommended (details 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.

Pipe Supports—Standard pipe supports will carry from one to five or more pipes and are ordinarily spaced 12 ft apart. They are strong, made of cast-iron, rust-proofed, and interlock with the base drain foundation, imposing no load on the conduit itself. No movement of pipes can disturb them. Special pipe supports available for different conditions. Information on request.

Insulation—Ric-wil Dry-paC Waterproof Insulation is high-grade long fibre asbestos processed so that it is permanently water repellant. Of unusually high efficiency and great natural strength, it will not slump away from pipes and is non-corrosive. Sample will be sent gladly for testing. Ric-wil No. 11 Insulation (same

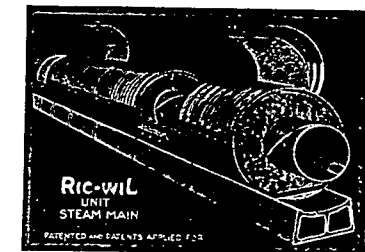


as Dry-paC except non-waterproof) or sectional pipe covering can also be furnished. For lined conduit, diatomaceous earth mixture is molded and keyed inside the tile.

Accessories—Shutter sleeves, alignment guides, filter cloth, manhole covers, and other accessories will be furnished as desired.

Engineering Service—Full cooperation with architects and engineers. Installation supervision if desired.

Technical Data—Tabulated Steam Heating Rates, Test Reports, Service Detail Bulletins, Catalog Bulletins, Central and District Heating Bulletins and Architects and Engineers Detail Sheets available upon request.



Ric-wil Unit Steam Main, a prefabricated, ready-to-install unit, 13 1/2 ft long, including conduit (Armed Iron), pipe, insulation, and accessories. Ideal for speed and economy on district heating projects.

