Therm-O-Tile

H. W. Porter & Co.

INCORPORATED

817-G Frelinghuysen Ave., **Newark 5, New Jersey**

Permanent Protection and Insulation for Underground Pipe Lines

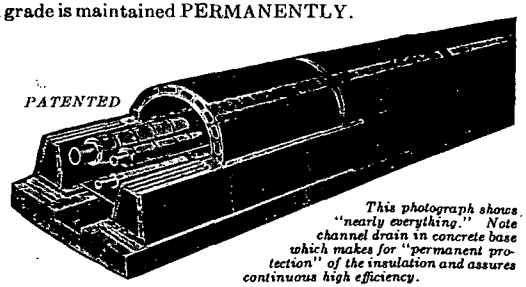
BALTIMORE, MD. CHARLOTTE, N. C. RICHMOND, VA.

Also sold and installed by Johns-Manville Construction Units in all principal cities.

Nine Outstanding Therm-O-Tile Advantages:

1—Superior insulation. A permanently DRY conduit. Higher efficiency.
2—Considerably stronger than required by *A.S.T.M.* Arched construction. Spread-footing foundation.
3—Longer life. The initial grade is maintained PERMANENTLY.
4—Positive sealing throughout. No leakage.
5—The concrete "sidewalk" makes installation easier.
6—No condensation pockets at any time.
7—Highest economy.
8—Backed by experienced engineering.
9—The first cost is COMPETITIVE, and, the ultimate cost is LOWER.

PATENTED

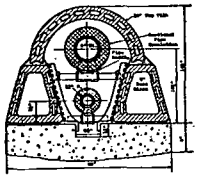


This photograph shows "nearly everything." Note channel drain in concrete base which makes for "permanent protection" of the insulation and assures continuous high efficiency.

THERM-O-TILE STEAM CONDUIT SYSTEMS

"Everlasting"—Now that Therm-O-Tile has been on the market so many years, and its design is so well known by all leading heating and ventilating engineers, we wish again to emphasize the importance of "Permanent protection." It is not difficult to provide TEMPORARY protection and insulation for underground pipe lines. Threads and joints don't fail immediately. Foundations don't sag immediately. But unless the job is properly done in the first place it won't be long before water seeps in and ruins the insulation. So, be careful. With wet and ruined insulation, efficiency drops drastically. And unless the conduit is built on a truly solid foundation there will be sagging and collection of water in pockets.

Always Well Drained—In the Therm-O-Tile concrete base there is a drainage channel—clearly visible in the photograph—which carries off all water that may enter the conduit from any source, thereby keeping the insulation PERMANENTLY dry. Drainage is entirely internal. Open to thorough inspection at any time at manholes. Amply large to keep the pipe space dry at all times.



Single or Multiple Pipe Lines Using Sectional Pipe Insulation. *Showing a typical Therm-O-Tile piping arrangement when there are two pipe lines. Note the channel drain which "permanently protects" the insulation.*

"Spread Footing" Foundation—The Therm-O-Tile "Spread Footing" foundation base is a thick concrete slab poured directly in the trench bottom. Settling and sagging are thus positively prevented. The original correct slope is PERMANENTLY maintained so that condensate or other pockets cannot form. Steel reinforced or placed on piles when installed over filled or boggy ground to insure PERMANENT protection.

Other Details—In previous issues of this GUIDE we gave details regarding the Tile Envelope which produces 27 different conduit cross sections. We told about the ideal accessibility of this conduit, its great strength, how it is waterproofed, and so on. For complete information ask for a copy of Bulletin 381.

Cost is Competitive—Despite the high efficiency, greater strength, dependability, and other features that are obtained in Therm-O-Tile, it is nevertheless competitive in total first cost. Final cost is much less, thanks to its permanence.

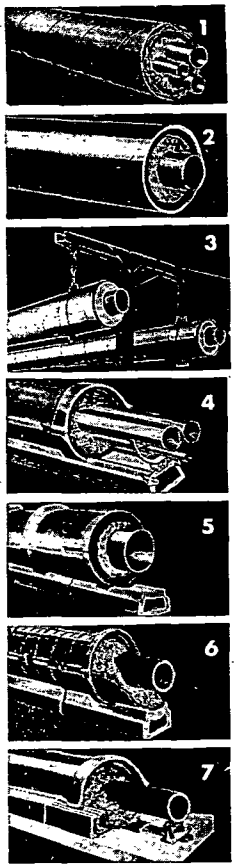
Experienced Engineers—Our engineers have had exceptional experience in designing and installing steam conveying equipment for nearly every purpose.

The Ric-wiL Company

INSULATED PIPE CONDUIT SYSTEMS

Union Commerce Bldg., Cleveland, Ohio • Agents in Principal Cities

There is a Ric-wiL insulated conduit system engineered to your specific needs—the transmission of steam, hot water, oil, hot or refrigerated process liquids—providing heat transfer with the lowest possible loss.



1. Ric-wiL Hel-cor Insulated Pipe Units

Prefabricated complete units with one or more pipes—in any specified combination—in helical corrugated conduit, coated and wrapped with asphalt saturated asbestos felt. 21-ft lengths for easy installation. Insulation is applied to any or all pipes in any thickness specified.

2. Ric-wiL Cast Iron Insulated Pipe Units

Completely factory-prefabricated, with pipe and insulation, as specified, housed in cast iron conduit of great structural strength, high corrosion resistance. 18½ ft long units are easily connected in field with solid sleeve, standard mechanical or flanged joint.

3. Ric-wiL Foilclad Insulated Pipe Units

Pipe and insulation are protected and waterproofed by a double coating of machine-applied, high temperature asphalt. Unit is then wrapped with asbestos felt and covered with a final spiral wrapping of copper or aluminum foil for maximum insulation and protection.

4. Ric-wiL Standard Tile Conduit—Type F

Vitrified glazed *A.S.T.M.* Standard Tile Housing—acid and waterproof—with foundation type base drain supporting weight of piping through correctly engineered pipe supports. Positive locked-in-place cement seals on sides and ends. For single or multiple pipes.

5. Ric-wiL Super Tile Conduit—Type F

Same advantages as Standard Tile but with walls approximately double thick for strength under heavy traffic or where overhead load is above normal. Will support concentrated static load of 6 tons per wheel under actual installation conditions. Base drain of extra-heavy tile.

6. Ric-wiL Cast Iron Conduit—Type F

Heavy reinforced cast iron conduit for use where underground pipe lines run close to or under railroad tracks. Durable, water-tight and vibration-proof. Positive locked-in-place cement seals on sides and ends with metal clamps for extra tightness.

7. Ric-wiL Tile Conduit—Universal Type

Where installation conditions dictate the use of a concrete pad Ric-wiL Universal Tile is recommended. Side walls are double-cell vitrified trapezoidal block design. Arch may be Standard Tile, Super-Tile, or Cast Iron.

Ric-wiL accessories are available in all type systems; standard and special fittings, factory fabricated or field fabricated expansion devices, alignment guides, and anchors. Descriptive bulletins on request. **Write: The Ric-wiL Co., Dept. 27.**