

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.

Therm-O-Tile

STEAM CONDUIT SYSTEMS

"Permanent" Protection—Therm-O-Tile has been on the market over ten years. Its design is well known to all leading heating and ventilating engineers but we would again like to point to the importance of "Permanent protection."

In issues of this book previous to 1944 we stated that Therm-O-Tile is "A complete conduit system for the permanent support, protection, and insulation of underground mains for steam distribution."

Not Merely "Temporary"—We therefore want to emphasize the word "permanent." It is not difficult to provide temporary protection and insulation for underground pipe lines. Threads and joints don't fail immediately, and foundations don't sag immediately, but unless the job is properly done it won't be long before water seeps in and ruins the insulation. With wet and spoiled insulation, efficiency drops drastically. And, unless the conduit is built on a solid foundation there will be sagging and collection of water in pockets. Hence the importance of a "permanent" job.

Therm-O-Tile Drainage System—In the Therm-O-Tile concrete base there is a drainage channel—clearly visible in the photo above—which carries off all water that may enter the conduit from any source, thereby keeping the insulation permanently dry. Drainage is entirely internal. The channel is accurately and permanently sloped so that condensate or other pockets cannot form. Open to thorough inspection at any time at man-holes. Ample large to keep the pipe space dry at all times.

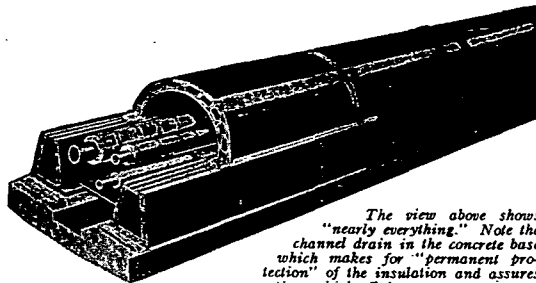
"Spread Footing" Foundation—So that there will be no settling or sagging the Therm-O-Tile "Spread Footing" foundation base is a thick concrete slab poured directly in the trench bottom as shown in the photograph. It is steel reinforced or placed on driven piles when installed over

filled or boggy ground—constructions that are necessary for permanent protection.

See Previous Issues—In issues of this GUIDE previous to 1944 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 water-proofed, and how the insulation is applied. For complete information ask for a copy of Bulletin 381.

Help Win the War—Therm-O-Tile is made almost entirely of "Non-Critical Materials." Less than 2 per cent of the entire conduit, by weight, is made of metal—the pipe supports are the ONLY metal.

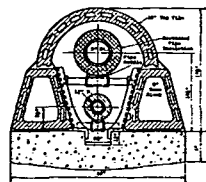
Competitive in Cost—Despite the



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

high efficiency, strength, dependability, and other highly desirable features that are obtained in Therm-O-Tile, it is nevertheless competitive in total first cost. Thorough investigation is invited.

We Co-operate—Our engineers have had unusual and broad experience in the design and installation of steam conveying equipment for an exceptional range of purposes. They will gladly cooperate in solving your own individual problems of this nature.



Single or Multiple Pipe Lines Using Sectional Pipe Insulation.

Showing a typical piping arrangement in Therm-O-Tile when there are two pipe lines. Note the channel drain which "permanently protects" the insulation.

Representatives—Therm-O-Tile is sold and installed by Johns-Manville Construction Units in all principal cities.

The Ric-wil Company

INSULATED PIPE CONDUIT SYSTEMS

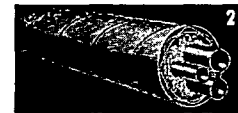
Union Commerce Bldg., Cleveland, Ohio • Agents in Principal Cities

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 INSULATED PIPE UNIT—SINGLE PIPE SYSTEM

Prefabricated complete units—pipe as specified, thoroughly insulated, in helical corrugated conduit, coated and wrapped with asphalt saturated asbestos felt. 21-ft lengths for speedy installation. For underground or overhead systems.



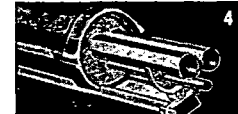
2. RIC-WIL INSULATED PIPE UNIT—MULTIPLE PIPE SYSTEM

Any specified combination of pipes in prefabricated conduit—insulated and protected the same as the single pipe system. Any or all of the pipe lines may be specially insulated to meet job requirements.



3. RIC-WIL INSULATED PIPE UNIT—FOR PROCESS LIQUIDS

An adaptation of the multiple system used where a steam or hot water line heats fluids in other lines. Pipes are insulated from the exterior but not from each other. Sizes and specifications as required—conduit same as for other insulated pipe units.



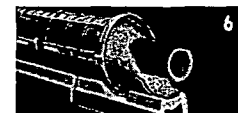
4. RIC-WIL STANDARD TILE CONDUIT—TYPE F

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.



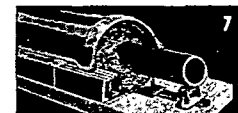
5. RIC-WIL SUPER TILE CONDUIT—TYPE F

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.



8. RIC-WIL TILE CONDUIT—TYPE DA

For oil or process liquids where conduit must be insulated but individual lines are not insulated from one another. Insulation is a diatomaceous earth lining, moulded and keyed to inside of tile. May also be used (Type DF) with fibre insulation for steam heat, power and superheated steam. Applicable to Standard, Super-Tile and 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.

GET THE ORIGINAL—SPECIFY RIC-WIL