

The Ric-wiL Company

PREFABRICATED INSULATED PIPING SYSTEMS

Union Commerce Bldg., Cleveland, Ohio

Agents in Principal Cities

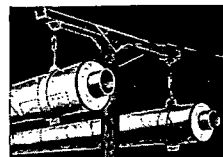
Ric-wiL produces complete insulated piping systems designed and engineered to specific operating requirements for transmission (with the lowest possible thermal loss) of steam, hot or refrigerated liquids or gases.



Insulated Pipe
Unit Single or
Multiple Pipes



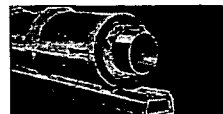
Cast-Iron Insu-
lated Pipe Units



Foiled Pipe
Units For Over-
head Lines



Standard Tile
Conduit
(Sectional)



Super-Tile
Conduit
(Sectional)



Cast-Iron
Conduit
(Sectional)



Tile Conduit-
Universal Type
(Sectional)

Prefabricated units with single or any specified combination of pipes, in complete sealed 21-ft sections. Helical corrugated conduit, asphalt and phenolic-resin coated, wrapped with asphalt saturated asbestos felt.

Prefabricated units for underground insulated piping systems where permanency and thoroughly tight joints are desired. Pipe and insulation are housed in heavy cast iron conduit—standard unit 18 ft 6 in. long, with accessories as required.

Pipe and insulation protected by a double coat of machine applied high temperature asphalt. Additional insulation and protection are given by a wrapping of asbestos felt and spiral wrapping of copper or aluminum foil.

Vitrified and glazed A.S.T.M. Standard Tile housing—acid and weather proof. Foundation type drain supporting pipe with correctly engineered pipe support. For single or multiple pipe system—sectional pipe covering or filler type insulation.

Similar to Standard Tile but with double-strength walls for heavy overhead loads. Will support static load of 6 tons per wheel under actual installed conditions. Heavy duty tile base drain.

Heavy duty reinforced cast iron conduit for use in shallow underground installation close to or under rail traffic. Durable watertight vibration proof clamps insure tightness.

For use where installation conditions require concrete pads. Side walls are double-cell vitrified trapezoidal design. Arch may be Standard Tile, Super Tile or Cast Iron.

For full technical information on Ric-wiL products and services, call or write the Ric-wiL office nearest you or Dept. 16-Z in Cleveland, Ohio.



Division Zonolite Company

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Chicago 3, Ill.

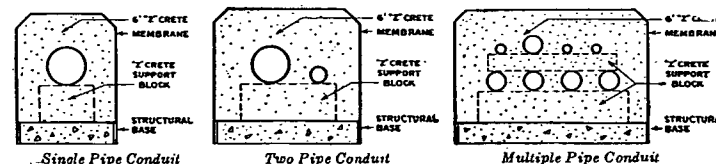
UNDERGROUND PIPE INSULATION

Z-CRETE* is a Lightweight Insulating Concrete which is poured directly and monolithically around heated underground piping.

GENERAL DATA The improved Z-CRETE system of underground insulation is a field fabrication adaptable to any size, number or arrangement of pipes. Six inches of insulation is ordinarily used on the outside of all pipes. A minimum of four inches is economical spacing between piping. The strength and water resistance of Z-CRETE in-

sulation serves as a monolithic, jointless insulating filler around pipes. A curing and waterproofing membrane completes the installation.

Z-CRETE installations have no joints to leak heat or collect water—they are as permanent as the earth itself. Anchors, guides and expansion devices (except loops) are the same as used in conventional systems. The curing membrane provides external water protection and imparts a tensile strength to the conduit.



TYPICAL Z-CRETE CONDUITS

Commonly used installations of Z-CRETE are shown above. The single pipe and double pipe conduit consist of a structural concrete pad, pre-cast Z-CRETE support blocks on which the pipes rest, a pour of Z-CRETE insulating concrete and a curing and waterproofing membrane. The multiple pipe conduit at the right has a second pre-cast support for the upper group of pipes.

REINSULATION OF EXISTING CONDUITS

The ruinous effect of water on steel pipe and insulation is well known. Z-CRETE insulation restricts moisture, keeps the conduit dry. Inorganic Z-CRETE concrete naturally resists deterioration. Most open boxes or voids may be filled with Z-CRETE insulation without using rollers, rods, etc. The mass of water resistant Z-CRETE restricts the move-

ment of moisture, so special drainage provisions are not ordinarily required. Z-CRETE is sold and installed by licensed applicators of Zonolite Company under U. S. Patent No. 2355966—Canadian Patent No. 439356. There is an applicator near you. For further data or information, write Dept. ASH 51.

*Z-Crete is a registered trade mark of Zonolite Company.