

Insulation, Underground

Telephone
Main 1736

The Ric-wil Company

Established 1910

UNDERGROUND CONDUIT SYSTEMS FOR HEATING PIPES
Union Trust Building CLEVELAND, OHIO
AGENTS IN PRINCIPAL CITIES—REFER TO LOCAL TELEPHONE DIRECTORY

Products—Ric-wil Conduit, which includes Base Drain, Pipe Supports, insulation and other accessories for underground steam, hot water and fuel oil pipes. Cast Iron conduit for extra heavy duty.

Ric-wil Conduit—Hard burned and glazed tile, bell and spigot type, which splits on the job for easy installing. Special Loc-Lip Side joints seal top and bottom halves together again after pipes and insulation are installed, a strong water-tight joint. Sections 2 ft. long, sizes 1. D. 4 to 24 in.

Ric-wil Base Drain—Hard burned and glazed tile designed to be a base for supporting and lining up conduit and drain for carrying away moisture. Slotted sections interlock with conduit bells to form a strong construction. No concrete foundation necessary in solid ground. Three sizes: No. 1 for 4 and 6 in. conduits, No. 2 for 8 to 15 in., No. 3 for larger sizes.

Ric-wil Pipe Supports—Planned to carry one to five or more pipes and ordinarily spaced 12 ft. apart. Made of cast-iron, rust proofed, and interlocked with the base drain, imposing no load on the conduit itself.

Ric-wil Conduit Systems for All Uses—Type SPC system for steam heating and power pipes and superheated steam. Insulation provided by standard pipe covering applied directly to pipes.

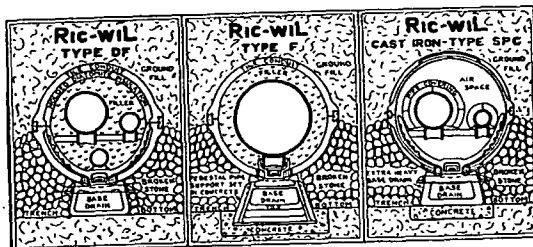
Type F system for steam heating and power pipes. Unlined Ric-wil conduit with filler packed around pipes. DRY-PAC Waterproof Filler if desired.

Type DA system for hot water, fuel oil and condensation returns. Silo-cell insulation moulded to inside of tile and keyed in. Pipes insulated from outside earth but not from each other.

Type DF system for steam heating and power pipes. Type DA with addition of Ric-wil Conduit filler packed around pipes. DRY-PAC Waterproof Filler if desired.

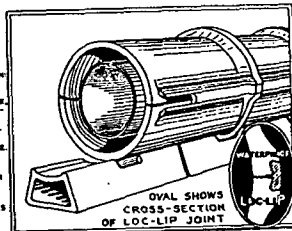
Cast Iron Ric-wil Conduit—For extra heavy duty under railroads or other places where conduit is subject to abnormal strain. Similar in design to tile Ric-wil. Special reinforced base drain.

Engineering Service—Maintained for the convenience of customers. Inquiries answered promptly. Catalogs and special information on request.

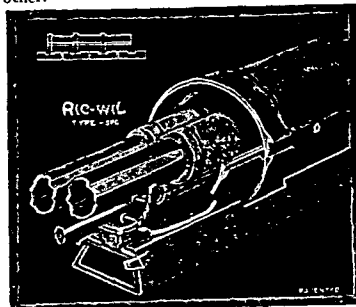


ADVANTAGES OF THE RIC-WIL SYSTEM

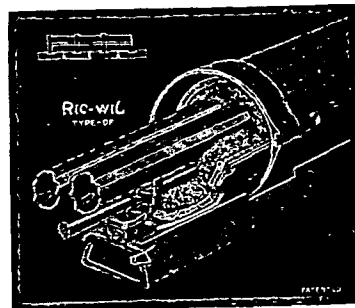
MECHANICAL
WATER-TIGHT JOINTS COMPLETELY SEALED WITH CEMENT LOCKED IN.
STRENGTH AMPLIFIED FOR USUAL CONDITIONS—NOT STRONGER THAN ANY OTHER TILE SYSTEM.
INTERLOCKING CONSTRUCTION CONDUIT AND BASE DRAIN STAGGER JOINTS. PIPE SUPPORTS LOCKED IN PLACE, TOP AND BOTTOM OF CONDUIT LOCATED TOGETHER AND CEMENT LOCKED IN.
FOOT PROOF TOP AND BOTTOM OF CONDUIT ALIKE. CAN NOT INSTALL UP SIDE DOWN.
BASE DRAIN FOUNDATION AND CHABLE FOR CONDUIT TO REST ON.
PERMANENT MATERIALS ALL OF PERMANENT CHARACTER.



PRACTICAL
SPEED OF INSTALLATION: IMPORTANT FOR STREET WORK.
COMPLETE SYSTEM: RIC-WIL SYSTEMS ARE FURNISHED COMPLETE IN ALL DETAILS.
COMMON PUBLIC LIABILITY: LESS CONSTRUCTION IN STREETS.
TRENCH WIDTH: RIC-WIL REQUIRES LEAST TRENCH WIDTH. SAVES ON PAVING COST.
EASINESS OF JOINTS: EXTRA EASY. CEMENT A WHOLE RUN AT ONE TIME.
INSPECTION: LOC-LIP JOINT VISIBLE FROM TOP OF TRENCH.
DRY INSULATION: DESIGN KEEPS INSULATION DRY AT ALL TIMES—EFFICIENCY.
COST: LABOR COST OF INSTALLATION IS LOW AND TOTAL COST IN LINE.



Ric-wil Type F is an unlined conduit like this SPC, insulation being a loose filler packed around the pipes.



Ric-wil Type DA is like this DF with insulation moulded to tile but without loose filler.

Insulation and Sound Proofing

Samuel Cabot, Inc.

141 Milk St., Boston, Mass.

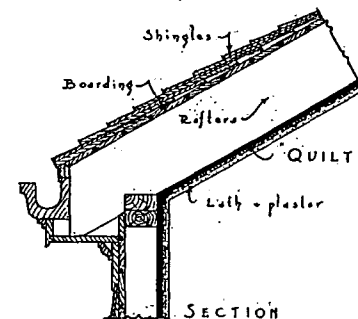
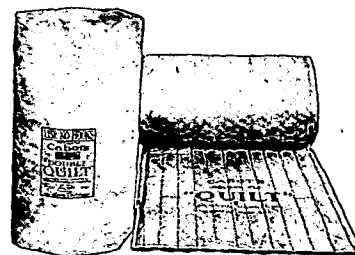
101 Park Avenue, New York

5000 Bloomingdale Avenue, Chicago

PHILADELPHIA KANSAS CITY MINNEAPOLIS LOS ANGELES SAN FRANCISCO PORTLAND

CABOT'S HEAT-INSULATING "QUILT" (Trade-mark)

Cabot's "Quilt" is the original flexible insulator. It is made in three thicknesses—single, double and triple—is 36 in. wide and shipped in rolls covering 250 sq. ft. each. It is made of cured eel-grass, and will not rot, will not burn and will not harbor insects or vermin.



"Quilt" Insulation in Roof and Wall Construction

U. S. Government Bureau of Standards Letter Circular No. 227, reporting tests of numerous Insulating Materials, gives Cabot's "Quilt" a Thermal Conductivity rating of 0.25 which was equalled by only two other insulators, regardless of cost.

Tests conducted by Prof. Gordon B. Wilkes, of the Massachusetts Institute of Technology, show the following savings in heat leakage in different methods of construction:

WALL CONSTRUCTION	Conductivity Uninsulated "H"	Conductivity Insulated "H"	Percentage Saving
Clapboard, studding	0.70	0.26	63
Clapboard, studding, lath, plaster	0.44	0.21	52
Clapboard, sheathing, studding, lath, plaster	0.28	0.16	43
8 in. brick	0.40	0.20	50
8 in. brick, furring, lath, plaster	0.27	0.16	41
4 in. tile, stucco, outside, plaster inside	0.40	0.20	50
12 in. concrete	0.46	0.21	54
Corrugated iron	1.50	0.32	79
12 in. stone	0.49	0.22	55
12 in. concrete, furring, lath, plaster	0.40	0.20	50
Stucco, studding, plaster	0.45	0.21	53

ROOF CONSTRUCTION	Conductivity Uninsulated "H"	Conductivity Insulated "H"	Percentage Saving
Tar, gravel on 4 in. concrete	0.60	0.24	60
Metal on tongue and groove sheathing	0.42	0.20	52
Corrugated iron on wood frame	1.80	0.32	82
Tile or slate on wood sheathing	0.82	0.27	67
Tar, gravel, tar paper, 2 in. wood plank	0.26	0.16	39
Shingles, sheathing, studding, lath, plaster	0.30	0.17	43
Wood shingles on shingle lath	0.64*	0.24	63

*Average value from JONES' tables, *The Heating and Ventilating Magazine*.

The cost of Cabot's "Quilt" is so low, for material and application, that reduction in Heating Equipment warranted by above figures more than pays for entire insulation. The annual fuel saving is pure velvet.

Fire-resistant: "Quilt" is a real fire-resistant. It will not smoulder or carry fire.

Will not Rot: "Quilt" will not rot. It will last as long as the house.

Flexible: "Quilt" will fit any surface, or around corners or jogs. Lowest labor cost.