

Infra Insulation, Inc.

252 Broadway, New York, N. Y.

Telephone: WOrth 4-2241

THERMAL FACTORS OF INFRA INSULATION AND DRY ROCKWOOL EQUIVALENTS

Type 6	Type 4 Jr. in ONE-INCH Space
Up-Heat C.089 R11.23 = $4\frac{1}{2}$ " dry rockwool.	Up-C.194R 5.15 = $2\frac{1}{2}$ " dry rockwool
Wall-Heat C.073 R13.69 = $5\frac{1}{2}$ " dry rockwool.	Wall-C.150R 6.66 = $2\frac{1}{2}$ " dry rockwool
Down-Heat C.044 R22.72 = 9" dry rockwool.	Down-C.097R 10.30 = $4\frac{1}{2}$ " dry rockwool

Infra Insulation, Type 6, is a tough 3-aluminum-sheet insulation, with 6 heat-ray-reflective surfaces, plus two outer reflective spaces, and four rows of inner, alternating, reverse triangular air spaces. (Total, 6 reflective spaces.) It is easily and quickly installed between wood joists, furring strips, and between steel trusses, metal beams, and girders. The normal installation rate between wood joists is 2,000 sq ft a day. The $1\frac{1}{2}$ cu ft carton contains 500 sq ft, weighs 40 lbs. Standard width, for 12 in., 16 in. and 24 in. centers. Standard Type 4, for 12 in., 16 in., 24 in. centers.

Heat flow through wall space, which is air, is 5 per cent to 7 per cent by Conduction; 15 per cent to 28 per cent by Convection; and by Radiation, 65 per cent to 80 per cent.

ABSORPTIVITY and RADIATION—Each of Infra's 6 aluminum surfaces THROWS BACK 97 per cent of the heat rays which strike it. As emissive surfaces, they emit ONLY 3 per cent of heat actually absorbed by conduction, convection and radiation. Practically all building materials, including ordinary insulations, absorb and emit 90 per cent of heat rays, against Infra's 3 per cent.

CONDUCTION—One sq ft of Type 6 Infra weighs only $1\frac{1}{2}$ oz, has only $1\frac{1}{2}$ cu in. mass. The ratio is 1 of Infra mass to 431 of low conductive air. Ordinary insulation, when dry, has a ratio of 1 of mass to 23 of air.

CONVECTION and VAPOR—Each of the 3 tough aluminum sheets of Infra has ZERO permeability to all gases, including heated air, cold air, and water vapor.

NON-CONDENSATION-FORMING—The 3 aluminum sheets together with TWO inner accordion separators, which permanently prevent metal to metal contact, form FOUR inner rows of alternating, reverse, triangular, reflective air pockets. The construction, and the lack of weight for heat exchange, make Infra Insulation absolutely non-condensation forming. Neither can it absorb nor store moisture.

Infra Insulation uses 99.5 per cent pure .0009 in. and .002 in. aluminum, made in accordance with special Infra emissivity requirements. It has 17 lbs and 52 lbs bursting strength (Mullen test), 800 per cent to 2600 per cent greater than ordinary foils. The tearing strength is 28 grams and 80 grams (Elmendorf test). The special fiber separators are permanently flame-proof, mold-proof, and vermin-resistant.

FIRE—Since Infra emits practically no heat rays, and since aluminum's melting point is 1250° F, it has actually prevented the spread of fire.

SANITARY—Infra is sanitary, inhospitable to vermin, and DOES NOT RETAIN odors. Mechanics like to work with Infra. It is CLEAN, free of DUST or lint, with permanent freedom from floating particles.



INFRA, TYPE 4 JR. is half ($\frac{1}{2}$) inch in depth. Can be used in 1 in. spaces between furring strips; in brick or masonry walls; around metal ducts; and under floors, ordinary or radiant heated.

Write for new 56-page authoritative manual, "Simplified Physics of Vapor and Thermal Insulation."

1482

ALFOL INSULATION

Manufactured by
Reflectal Corporation

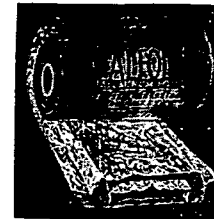
155 East 44th Street

New York 17, N. Y.

HEAT INSULATION for ALL PURPOSES



Easy to Apply



Handy Package—250 Sq Ft of Insulation

Alfol Building Blanket—for all Types of Building Structures.

Alfol Building Blankets consist of spaced layers of Alfol Aluminum Foil Insulation attached along the edges to a liner sheet of heavy vapor proof paper.

Packaged in handy rolls of 250 sq ft each for use on 12 in., 16 in., 20 in. or 24 in. centers. Weighs less than $\frac{1}{10}$ lb per sq ft.

- High Insulating Efficiency
- Positive Vapor Barrier.
- Low Heat Storage Capacity.
- Negligible in Weight.
- Moisture Proof.
- Durable.
- Odorless and Clean.
- Easily Applied.
- Low Cost.

Specifications

Description	Widths	Net Area per Roll	Net Weight per Roll
Type I.— 1 Layer ALFOL	12"-16"-24"	250 sq. ft.	17 lbs.
Type II.— 2 Layers ALFOL	16"-20"-24"	250 sq. ft.	19 lbs.
Type III.— 2 Layers ALFOL	12"-16"-24"	250 sq. ft.	20 lbs.
Type IV.— 3 Layers ALFOL	16"-20"-24"	250 sq. ft.	23 lbs.

A L S O

• ALFOL PREFABRICATED INSULATION PANELS

For Tanks, Towers, And All Types of Heated Equipment.

• ALFOL ASBESTOS

Alfol Aluminum Foil Insulation Laminated To Asbestos For Ovens, Ranges, Boiler Jackets, Hot Water Heaters, And All High Temperature Insulation Purposes.

• ALFOL JACKETING

Heavy Reinforced Paper Combined With Alfol Aluminum Foil. Provides Insulation And Vapor Barrier In One Convenient Form. For Refrigerator Cars, Trucks, Buses, Trailers, Etc.

Write for complete information, catalogs and prices.

1483