

Alfol Insulation Company

Incorporated

Chrysler Building :: New York, N. Y.

Agents in Principal Cities

INSULATION for

Fans
Blowers
Pumps
Ducts
Houses, Buildings, etc.

Turbines
Dehumidifiers
Air Conditioners
Boilers, Pipes, etc.
Houses, Buildings, etc.



ALFOL
PAT. IN 34 COUNTRIES

INSULATION for

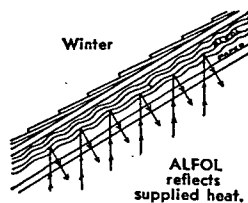
Refrigerators
Refrigerator Cars
Refrigerator Trucks
Refrigerator Boxes
Refrigerated Rooms etc.

Ships
Ovens
Ranges
Tanks
Still

At temperatures up to 1250° F.

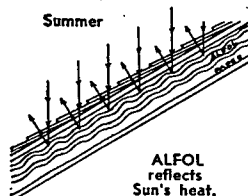
ALFOL consists of single or multiple sheets of polished pure aluminum foil installed between wall studs, furring strips, ceiling joists or roof rafters. When heat tends to flow through such insulated structures, 95 per cent of radiant heat is reflected back toward its source. In summer, stifling outdoor heat is driven off. In winter, practically all supplied heat is retained in the house where it is needed.

The reflection of heat is a revolutionary principle in insulation engineering which has won widespread recognition and acceptance by engineers and scientists throughout the world. ALFOL is now



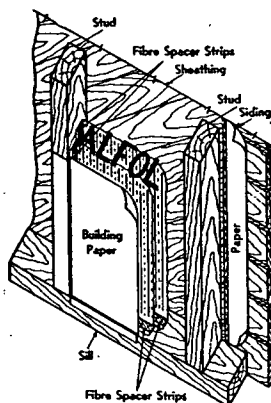
Winter

ALFOL reflects supplied heat.



Summer

ALFOL reflects Sun's heat.

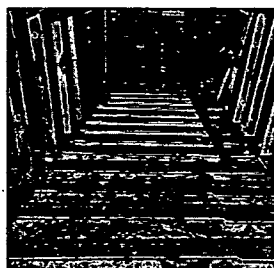


Fibre Spacer Strips



Trained mechanics unroll sheets of Alfol as needed. These compact rolls cause no dust, dirt or waste.

Alfol is flanged on edges and nailed to face of studs, joists or rafters, through fibre spacer strips.



This Alfol-insulated ceiling is equivalent in insulating effect to a solid concrete ceiling slab 8 ft thick.

Aluminum Foil Does Not Tarnish

Data on Heat Savings Effected by Alfol

Construction	Heat Transmission BTU/Hr/Sq Ft/°F			Heat Transfer Stopped . . . %	
	Not Insulated	1 layer ALFOL	2 layer ALFOL	1 layer ALFOL	2 layer ALFOL
Wood Stud Wall—4-in. studs	0.25	0.11	0.09	56%	64%
8-in. Brick Wall—Furred	.30	.12	.09	60	70
Open Attic Floor	.62	.13	.10	79	84
Wood Shingle Roof (no lath and plaster)	.46	.13	.09	72	81
Concrete Roof—6-in. slab—suspended ceiling	.35	.13	.10	63	72
Slate, Tile or Composition Shingle Roof (no lath and plaster)	.56	.15	.11	73	81

These Coefficients have been determined in accordance with the method employed in THE A.S.H.V.E. GUIDE, and are based on new insulating value of aluminum foil tabulated in National Bureau of Standards Letter Circular No. 465, June 4, 1936, which contains the latest available data on the insulating value of aluminum foil.

ALFOL ADVANTAGES

UNAFFECTED BY DAMPNESS

ALFOL is non-porous, has no capillarity, cannot absorb moisture. Moisture infiltration in non-metallic insulations increases conductivity frequently as much as 50 per cent. Such variations cannot occur in ALFOL.

INSULATING EFFECT

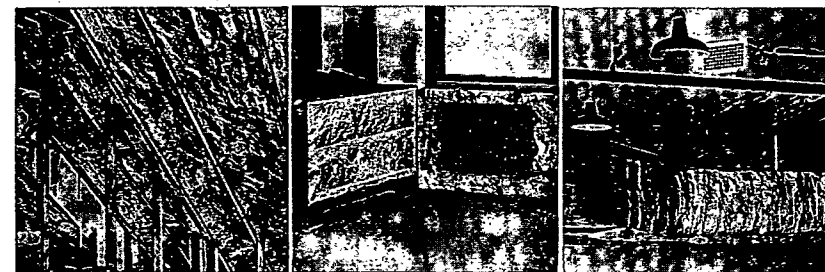
Transmittance coefficients (see table above) are determined from tests made on actual wall sections insulated with ALFOL. They accurately measure ALFOL's insulating effect including the heat loss through and around studs, joists, rafters, etc. Where published coefficients of materials are based on 12-in. by 12-in. panel tests . . . materials preheated in "bone dry" condition and at specified densities . . . they do not include the heat loss at studs, nor the effect of moisture infiltration, variation in density, thickness, etc. Many noted authorities on heat transfer recognize that the performance of ALFOL in actual use is difficult to surpass.

FIREPROOF, CLEAN, AND SANITARY

No heat-storage capacity. ALFOL preheats or cools in approximately one-fourth the time required for other insulations. Being metal, ALFOL is clean. It repels vermin; prevents bacterial growth.



Alfol metal-jacketed pipe lines



Alfol applied between roof rafters reduces heat loss over 80 per cent.

Recessed radiators give off about 15° more heat when insulated with Alfol.

Alfol applied to overhead air duct of an Air Conditioning installation.

Alfol Actively Reflects Radiant Heat