

Alfol Insulation Company

Incorporated

155 East 44th St. :-: New York, N. Y.

Agents in Principal Cities

INSULATION for

Fans
Blowers
Pumps
Ducts
Houses, Buildings, etc.

At temperatures up to 1250 F.



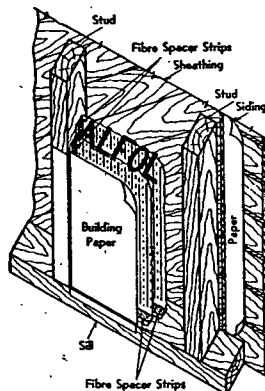
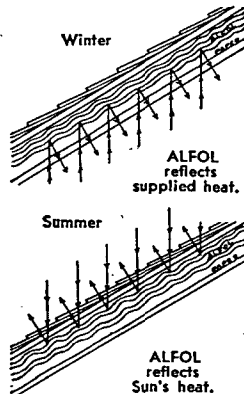
INSULATION for

Refrigerators
Refrigerator Cars
Refrigerator Trucks
Refrigerator Boxes
Refrigerated Rooms
etc.

Ships
Ovens
Ranges
Tanks
Still

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



extensively used by many of the largest manufacturing and industrial plants, U. S. Navy, and others, as well as in houses and buildings of every kind and size.

ALFOL will save up to 75 per cent or 80 per cent of the heat loss that would occur through an uninsulated house.

It consequently costs less to heat an ALFOL insulated home.

Many owners report over one-third saving in fuel costs.

ALFOL is installed only by Authorized Applicators. All work is done in strict accordance with ALFOL Standard Specifications.



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



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

Aluminum Foil Does Not Tarnish

Data on Heat Savings Effected by Alfol

Construction	Heat Transmission Btu/Hour/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

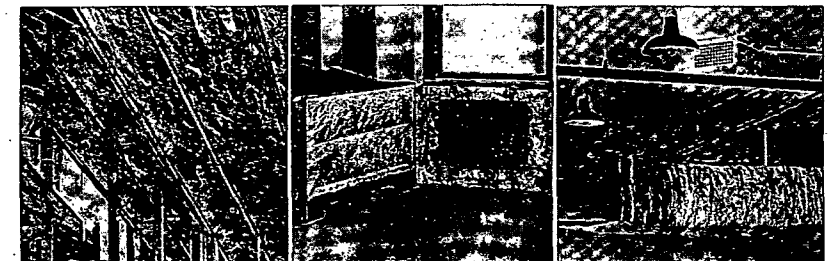
Transmittance coefficients (see table above) are determined from tests made on actual wall sections insulated with ALFOL. They accurately measure ALFOL's insulating effect including the heat loss through and around studs, joists, rafters, etc. Where published coefficients of materials are based on 12-in. 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

Negligible 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 deg more heat when insulated with Alfol.

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

Alfol Actively Reflects Radiant Heat