

Zonolite Corporation

General Offices

Fisher Building, Detroit, Michigan

Plants At

LONG ISLAND CITY JOLIET, ILLINOIS OMAHA DETROIT ST. LOUIS LIBBY, MONTANA

Trade Mark Reg. U. S. Patent Office



THE PERFECT INSULATION

ZONOLITE INSULATION FOR HOMES

ZONOLITE LOOSE FILL

Zonolite is a mineral which has been expanded many times by the application of intense heat. Each particle contains thousands of tiny dead air cells which make Zonolite a *non-conductor* of heat. And, in addition, every particle is filled with glittering, golden surfaces that make Zonolite a *reflector* of heat. Zonolite provides a natural DUAL insulation.

Zonolite has a uniform, tamper-proof density. Its *actual* insulating value in the walls of a house is always the same as the *theoretical* insulating value as shown by laboratory tests. Zonolite cannot be "fluffed" or stretched when being installed. It flows naturally, filling every nook and corner.

ZONOLITE POURS EASILY

Zonolite is easily installed in attics by pouring directly from the bag between



joists or rafters. When put between walls, Zonolite pours easily, requiring no machinery and taking a minimum of time and labor. Your local Zonolite representative will furnish accurate estimates of installation costs.

Zonolite is packed in $3\frac{1}{2}$ cu ft bags with the following coverage:

20 square feet.....	2 in. thick
14 square feet.....	3 in. thick
11 square feet.....	$3\frac{3}{4}$ in. thick

AN EFFICIENT HEAT BARRIER

One of the many tests of Zonolite's resistance to heat passage was made by the Consolidated Gas, Electric Light and Power Co. of Baltimore. A hot plate test showed a thermal conductivity rating of 0.27. In addition, "U" factor tests show its effectiveness as an insulating material.

Zonolite is FIREPROOF—a 100 per cent mineral; VERMIN PROOF—rats or mice will not burrow or nest in it; termite-proof; SOUND ABSORBING—tests by V. O. Knudsen, acoustical authority, show Zonolite to be high in sound absorption and sound insulation: $3\frac{3}{4}$ in. of loose Zonolite, in panels of 3 ft x 3 ft 6 in., showed a coefficient of sound absorption of 0.58 at a frequency of 512 d.v.; DIELECTRIC—a test by J. C. Peebles, Armour

Institute of Technology, showed that 20,800 volts were required to puncture a one-inch layer of Zonolite between one-inch brass balls; CHEMICALLY INERT—tests of every description prove that Zonolite will not rot, rust, or deteriorate in any way. Zonolite forms a THICK insulation; is approved by leading air conditioning firms for use with their units.

ZONOLITE INSULATING PLASTER

A prepared mixture of carefully selected calcined gypsum and Zonolite. The growing interest in insulation is bringing this plaster into widespread use, as it provides an inexpensive insulation in cases where economic or construction difficulties render a complete insulating job imprac-

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ticable. Tests made by J. C. Peebles of Armour Institute of Technology show heat conductivity of Zonolite Insulating Plaster, 0.90.

Since it contains no sand, Zonolite Insulating Plaster is very light in weight—Zonolite plaster weighs only 10 lb per yard on wall—thus it is extremely easy to handle and spreads rapidly. It is uniform, since it is not dependent upon varying grades of sand. It also possesses a high degree of sound-insulating value, and is free of map cracks.

Zonolite Insulating Plaster, in a texture finish, is furnished in a wide variety of soft, attractive tints.

This adds another advantage to the list which includes comfort in winter and summer, fuel-saving, sound insulating, fire safety and ease of handling.

ZONOLITE HIGH TEMPERATURE CEMENT

Ideal for insulating tanks, boilers, furnaces, etc., where the insulation must withstand temperatures up to 2300 deg. It has a thermal conductivity factor of 0.46 at 100 deg. and up to 1.9 at 2000 deg. ZONOLITE HIGH TEMPERATURE CEMENT BLOCKS are made for industrial oven insulation and have proved highly efficient. These blocks are made 1 ft x 3 ft with thicknesses varying from 1 in. up to 4 in.

ZONOLITE COLD STORAGE INSULATION

Made of Zonolite and a moisture-proof binding element. It is in sheet form, for insulating refrigerated rooms. Sturdy, serviceable; does not support vermin. It is so resistant to moisture that its efficiency will continue indefinitely.

Available in sheets of all sizes; 1 to 4 in. in thickness.

ZONOLITE INSULATED AIR DUCTS

(Patents applied for—all infringements will be prosecuted)

Recognizing the insulation defects of the ordinary air duct, Zonolite engineers decided to perfect the product as a whole rather than simply to engineer a new style of insulation for this type of work. In using the conventional type of sheet metal construction, the velocity of the air is greatly reduced because of the necessity of covering the inside of the duct with sound absorbing material, and as most of these coverings are not fire-proof, a fire hazard is introduced. In the Zonolite patented style of construction, the duct is constructed of a specially designed wire



Showing equipment used for extensive tests by the Detroit Edison Co.

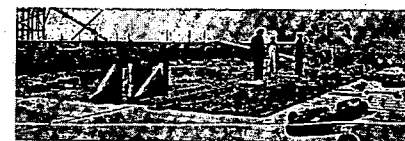
1. Conventional-type Air Duct.
2. Zonolite Air Duct.
3. Zonolite Air Duct with Insulation Applied.

mesh rather than a solid strip of metal, and is then covered with Zonolite fire-proof Air Duct Insulation, which has unusual insulating and sound absorbing values and eliminates the necessity for an inner lining. Tests by leading air conditioning firms show a reduction in noise of $11\frac{1}{2}$ decibels. With the Zonolite patented type of duct, it is now possible to use a much smaller duct and higher air velocities, which make for more pleasing, practical, and economical home and building installations.

Zonolite Patented Air Ducts are made exclusively by local sheet metal shops licensed by the Zonolite Corporation.

ZONOLITE INSULATED ROOFING

An unique combination gives a proper insulation and roofing material in one product. A combination of high grade asphalts and Zonolite is bonded together in such a way as to withstand great changes in temperatures without cracking or softening. The latest practice is to use Zonolite roofing with two plies of felts over it. This construction is practically permanent as the product is 100 per cent mineral composition and can be installed in any weather. In addition, if the roofing felts should ever crack, any entrance of moisture could not cause the product to deteriorate in any way, which makes the maintenance problem a very simple one; nothing more than an occasional mop coat being needed to make the roof last indefinitely.



Zonolite all-mineral roof block as installed on Chrysler Engineering Building.