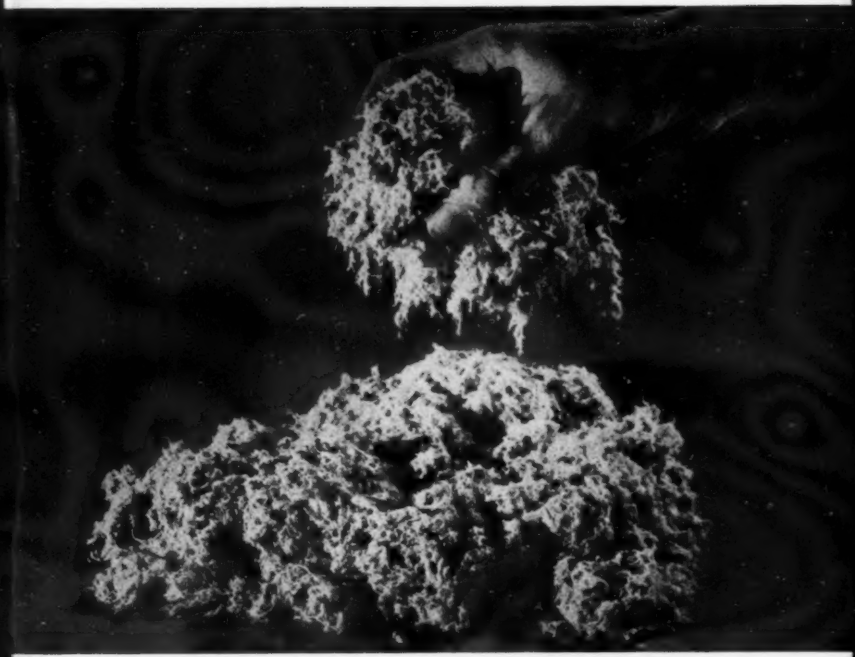
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MILLING ASBESTOS ORE IN CANADA

By: W. E. Sinclair, M.I.M.M.

Trends in world production, according to the Statistical Year Book (1958) of the United Nations, show a remarkable expansion in the volume of manufacturing activities. In the same manner, the production, treatment and processing of the necessary raw materials has also widely expanded. This is readily witnessed in the Canadian asbestos mills where outstanding developments have taken place in mill design and processing, to meet the demand of industry for high quality chrysotile.

It is said that raw materials are subjected to more complicated processes of manufacture, and it might be added also, that Canadian milling, in the production of raw asbestos, bears a similar relationship to the final treatment.

This is understandable when it is remembered that Canadian technique is based on seventy-five years experience in the extraction and processing of chrysotile of the finest quality—a fact recognized by industry everywhere. In recent years, however, the extended application of asbestos in a new and wider field of fabrication has somewhat changed the old precepts. Because of the need for fibre to satisfy more exacting demands in certain spheres, entirely new uses have been found for some grades and particularly short fibres (shorts and Floats, etc.,) that now constitute about 65% of the total output. The outcome of all this has been an intensive overhaul of milling technique, design and operational functions, to ensure a clean, uniform output, from a plant layout that is well balanced and capable of handling increased tonnages continuously and smoothly without let or hindrance.

Canadian mill capacities vary from 1,000 tons to 20,000 tons of ore daily. This range, however, includes the smallest mill (Quebec Asbestos Corporation, 1,000 tons) to the (Jeffrey Mill, 20,000 tons). The average of the remaining nine mills, in the main Quebec field, is about 3,000 tons a day. The average content of the ore is about 5% asbestos but is stepped up to 8% in milling.

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The handling and treatment of material in the order of some 800 tons an hour is in itself an immense undertaking but, in addition, the recovery of every possible grade of fibre, economically, to conform to standard specifications, calls for maximum efficacy. Most mills have developed grading techniques to provide from thirty to seventy-five different grades, ranging from crude (long fibres) down to the shortest mill grades, even to a mill product that is essentially little more than dust or refuse, but which, surprisingly, finds a ready outlet in the manufacture of tiles and other flooring compositions and insulating cement.

In overall mill design, the most revolutionary feature today is the elimination of the dust menace. In this connection, efficient filtration systems remove the dust from the circulating air to produce a worthwhile commercial product, (shorts and floats) and in so doing, provide clean air which can be recirculated or exhausted to atmosphere. An interesting point in this is that the clean air is warm enough, due to the friction and the heat generated in electric motors, to heat the mill atmosphere to a comfortable temperature in cold weather. In modern milling machines, as much as two to three million cubic feet of air per minute is swept through, to deliver the dust to the filters, where an area of up to thirty acres of cloth bags is used to remove the dust. To maintain the necessary pressure of air a number of fans with a capacity of up to 120,000 cub. ft. per minute, are part of the necessary equipment.

In most common characteristics all the mills may be said to follow the basic operations of crushing, drying, screening, fiberizing and pneumatic separation by aspirating the released fibre. This process is accepted theoretically as the most effective means of extracting fibre from its parent rock. Special factors may enter into practical procedure, as for example, the question of the finer technique in the removal of foreign minerals that may be associated with the fibre, such as, magnetite, pierolite, brucite or talc or mica. In some instances, other local factors play a part in unusual mill design. However, flowsheets, as a general rule, vary only in the machines and equipment used, either on account of tonnage capacity or that of machine efficiency in the matter of prevailing ore conditions.

Fine crushing machines, screens and similar plants are

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mainly improved models of older types and their arrangement in the general layout to achieve well balanced, automatic and continuous operations are all part of the ultra-modern and efficient mill design.

To describe in detail even a few of the Canadian mills would exceed the scope of this article, but reference must be made to the Jeffrey mill at Asbestos, the largest mill in Canada and, in fact, the largest in the world. The layout of this mill is something out of the ordinary since the plant is distributed systematically on different floors in an immense twelve story building. The crushed rock (800 tons hourly) is delivered to the various floors by conveyors and elevators while men and equipment are conveyed by means of lifts.

The top floor comprises the dedusting plant, consisting of bag filters. This is the source of the fine fibre grades (shorts and floats) which, when recovered, are delivered to storage bins on the 6th floor. Cleaned air is either re-circulated or exhausted to atmosphere, according to the temperature in the building.

Crushed ore is delivered to the 11th floor, whence it is fed down to the lower floors for treatment in various circuits. Initial screening to remove fine granular material and dust is carried out on the next floor down, while released fibre is delivered to cyclone collectors. The serious fibre recovery, however, takes place on the 9th floor, where shaker screens are equipped with hoods that pick up the fibre for conveyance to the collectors.

After cleaning, the fibre is conveyed to the 7th floor for grading, after which it is transferred to the 4th floor for mixing, to ensure the production of a uniform product.

At different stages, the flow of the material is subjected to fine crushing, but on the second floor, final fiberization takes place and the fibre distributed to bins for blending. At this stage, automatic sampling is carried out for the control of the quality of the fibre. Finally the asbestos is conveyed by means of screw conveyors to pressure packing hoppers, which in turn, automatically weigh out 100 lb. batches of fibre for delivery to the pressure packing machines. The packing, sealing and stacking or loading to trucks, by means of fork trolleys, is all carried out on the 1st floor.

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An interesting feature of the mill is that the 3rd floor is reserved mainly for "Fibre Development", that is, for testing results of the equipment in use, and for the production of any special grades that may be ordered.

Eleven other producing mills in the Quebec field, are treating some fifty-thousand tons of ore daily. These mills are designed and laid out on much the same principles as the Jeffrey Mill described above. They are naturally on a smaller scale, but with one exception they are all flat layouts. The exception is Johnson's Megantic Mill. This is built into a hillside, thus allowing all movement of material through the mill to be done by gravity, thereby avoiding the use of elevators or conveyors, which constitute a major mechanical effort in flat layouts.

Some brief notes on prevalent milling operations on the remaining mills must serve as an overall picture, to round off this review. These include, the King-Beaver, British Canadian and the Normandie of the Asbestos Corporation, and the Johnson's mines, Bells Asbestos, Flintkote and Nicolet.

The mill capacity ranges from 2,000 (Bell and Flintkote) to 6,000 tons (British Canadian) treated on three shifts on a five day week.

Primary crushing operations (either underground or on the surface) employ jaw crushers, (30″ by 60″ to 49″ by 60″) set to 5″ to 6″. Where hand sorting is carried out to remove high grade crudes and to eliminate barren rock, picking is done on conveyors delivering the crushed rock to secondary crushers.

The latter operation is commonly effected by the use of cone or gyratory crushers, set at 1½″ to 2″ openings. In some mills only the ore from secondary crushing is dried.

Drying is carried out in either tower or rotary type plant. The former are generally coal fired by means of automatic stokers, while rotary heating is effected by the use of fuel oil. In some mills steam plant is used to heat up the oil as this is delivered to storage reservoirs. After drying, the ore is conveyed to storage bins, that may hold anything up to 30,000 tons, depending on the mill capacity.

Milling in each case varies mainly as to the type of plant in use, but general processing follows along pneumatic separation principles, as already mentioned. In one mill

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(Normandie), instead of the use of hammer mills (Torreys, Williams, Jumbos, etc.), for tertiary reduction, a battery of six Aerofall mills are utilized. In another mill, (Johnson's Megantic Mine), third stage crushing is done in four Harding Air-Swept ball mills, 10″ by 48″.

Fiberizers are employed in all mills for the final reduction process and the recovery of the released fibre, throughout the milling operations, follows standard methods. The fibre is picked up from either gyratory or shaker screens and concentration takes place in collectors, from which the asbestos is finally cleaned and graded. The equipment used in these operations varies from common type graders, vertical dusters, sifters and standard screens or classifiers.

Finally the cleaned fibre is delivered to mixing bins and blenders from which it is pressure packed in jute or paper on standard bagging machines and transported to storage or loaded.

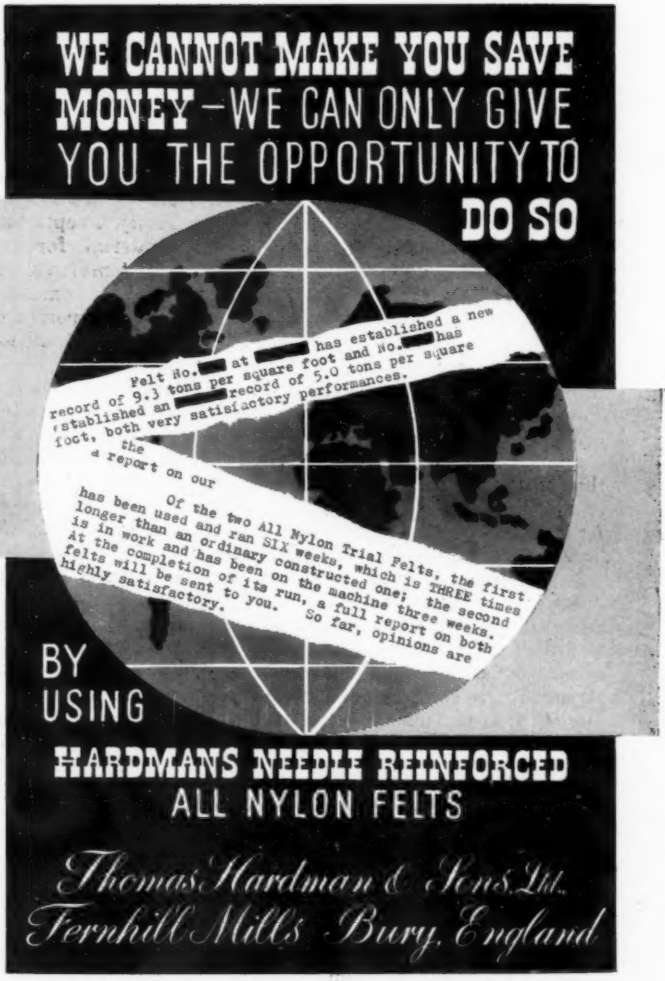
Two mills not included in this review are the Munro Mine in Ontario and the Cassiar Mine in British Columbia. Procedure at the former follows closely that at Jeffrey. The Cassiar mill is designed on conventional lines and allows for increased capacity as the ore output is increased from the mining development.

JOHNS-MANVILLE CORPORATION has entered into an agreement for the cash purchase of *Franklin Plastics, Inc.*, of Franklin, Pennsylvania, manufacturers and distributors of extruded plastic pipe, it was announced by A. R. Fisher, Chairman.

Responsibility for producing and selling the J-M extruded plastic pipe line will be assigned to the Johns-Manville Pipe Division, which also manufactures and markets a broad line of asbestos-cement pipe products.

The added manufacturing plant will bring J-M production facilities in the United States, Canada, Mexico, Great Britain and Belgium to a total of 39 plants and 4 mines, including two plants now under construction, one at Chillicothe, Ohio, and another at Hull, England, that will go into production soon. They produce a wide variety of products for industry and homes.

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THE WORLD'S FIRST ASBESTOS MERCHANTS

Finska Mineral Aktiebolaget, of Helsingfors, Finland, describes itself as "the World's first asbestos merchants" and the following article has been published in booklet form by Finska Mineral. (Editor's Note)

Finnish asbestos from Paakkila in the Savo lake district today finds its way, by land and sea, to all corners of the world—to Scandinavia, to Central Europe, to Britain, to the Americas, to Japan . . . Modern industry accepts the Finnish anthophyllite asbestos as raw material for its finest products. Where caustic acids and high temperatures subject material to severe tests, Paakkila asbestos comes to the aid of the scientist and the technician. With experience gained over four decades, we, today's merchants of asbestos, face the future with confidence.

Where pneumatic drills today bore into the asbestos stone and giant excavators bite deep into the rock, there, four thousand years ago, the world's first asbestos merchants started work. Finnish archeologists have revealed this startling prospect of the life of the Stone Age inhabitants with their highly developed technical sense. Archeology has provided the asbestos trade with a historical background rarely found in modern industry.

Archeological studies have shown that as early as 2500 years before recorded time people in Finland knew how to add fine asbestos fibre to the raw material for pottery. The technical significance of this discovery is obvious; in the same way as asbestos is now used to improve the tensile strength (in the armouring of cement products for example) so it was once used to strengthen the sides of lightly fired pottery. When the material had been strengthened, the sides of the vessels could be made thinner, in this way were produced cooking utensils which were not only lighter in weight but in which food could be cooked more quickly. This surprisingly mature technical invention found also a practical adaptation, which commands respect for the economic instincts of those forefathers whom we often regard as very primitive people. Asbestos pottery was not limited to being a provincial specialty of Northern Savo; it spread over a wide area—from the South-East to the North-West of Finland, and from the Eastern Carelia to Northern

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Scandinavia. From the large number of finds, and from percentage of asbestos, one can surmise that the center of asbestos usage was located in the same area where present-day deposits are to be found. There have been discoveries, however, in areas where the occurrence of asbestos is almost a geological impossibility. Transportation of earthenware over long distances without breakage must, at that time, have been impossible—even for guaranteed Paakkila asbestos pottery! We can imagine the asbestos merchant, our bearded Stone Age ancestor, clad in hides, and carrying with him the asbestos stone which he had dug and cleaned —"Buy good Paakkila asbestos—makes strong pottery—food boils quicker—one hundred squirrel skins or a stone axe for two handfuls".

The asbestos pottery as found in Finland is unique—nowhere else have discoveries of that kind been made. This remarkable fact is obviously not due to the people who developed the new technique, but to the specific characteristics of the fibre used. Finnish anthophyllite, which is almost void of crystal water, withstands high temperatures and preserves its strength even in temperatures to which earthenware has been subjected on open fires. Finnish anthophyllite deposits remain, even today, the largest and best known in the world, and Finnish asbestos is famous for its heat-resistance. Finska Mineral certainly has a fine tradition to maintain.

JEFFREY ASBESTOS MINE of Canadian Johns-Manville Co., Ltd., at Asbestos, Quebec, Canada, has won first place in the Vice President's safety rating for 1959, it was announced by K. W. Huffine, Vice President for Production of Johns-Manville Corporation, New York City.

Since April 4, 1959, and up till mid-January 1960, the 1800 employees of the Jeffrey mine have worked more than 2,635,000 hours without having a lost time accident.

The multi-million man-hour safety record has made this mine and mill the safest mine in North America.

Safety conscious employees have, in addition, smashed their own company record, the Quebec record, and that of the Dominion of Canada, as well.

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PROFILE—J. W. HUMPHREY
THE PHILIP CAREY MANUFACTURING CO.



J. W. Humphrey

John W. Humphrey, President, The Philip Carey Manufacturing Company, was born Steptember 28, 1902, at Brighton, Michigan. He graduated from the University of Michigan with a B.S. Degree in Industrial Engineering in 1924.

From 1924 to 1927, Mr. Humphrey was in Sales and Industrial Engineering with the Athol Manufacturing Company in Athol, Massachusetts. In 1927, he went to General Motors in Detroit, Michigan, as an Industrial Engineer and in 1933 transferred to General Motors Plants at Warren, Ohio (Sunlite) and Dayton, Ohio (Delco) as their Factory Manager. He was Factory Manager for National Cash Register in Dayton, Ohio, from 1940 to 1945.

In 1945, he became Vice President in Charge of Manufacturing at International Telephone & Telegraph, New York City. He left there in 1947 for his own Consulting Business (Engineering) in Cincinnati, Ohio. He joined The Philip Carey Manufacturing Company in Cincinnati, Ohio, in 1948 to become Executive Vice President and was elected President of Philip Carey in 1949, the position he presently holds.

Mr. Humphrey is a Member of the Board of Directors of the National Association of Manufacturers, the Board of Trustees of the Community Chest and Council of Cincinnati, Ohio area and the Commercial Club of Cincinnati.

He and his wife, Virginia Schachne Humphrey, have three children—John W., II; Holly B. and Heather C. They reside in Glendale, Ohio.

GREEN, TWEED & COMPANY recently published a revised catalog and price list offering extensive information on its 14 distinctive types of Palmetto Packings.

This catalog can be obtained from Green, Tweed & Company, North Wales, Pennsylvania.

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SECOND EDITION—"ASBESTOS", ITS ORIGIN, PRODUCTION & UTILIZATION, By W. E. Sinclair

The new edition of "ASBESTOS", Its Origin, Production & Utilization, by W. E. Sinclair (a book generally welcomed when it first appeared in 1955) has been made even more comprehensive. Several new chapters dealing with primary production and the manufacture of asbestos products in North America, a field recently visited by the author, have been added. Besides a geological appraisal of the future potential in that area, details are given of actual mining and milling at the various producing centers, while the latest fabrication techniques are fully described. This aspect of the asbestos picture has been brought up to date in respect of all the main world producing and manufacturing fields. The relevant statistics covering production, distribution, marketing, and prices are included, and there are a number of charts giving details which date from the earliest and cover the latest records.

The basic chapters dealing with the origin of the asbestos minerals and the record of recovery, from source to final uses, have been revised, with the description of many new discoveries and particulars of recent developments in various branches of the industry.

The work can in fact be said as a whole to achieve its main object which is to present a detailed and authoritative picture of the several varieties of asbestos and their spheres of usefulness. It is thus interesting not only to practicing engineers and executives but to students and others connected directly or indirectly with the industry.

The price of this book is $10.50, including postage, and can be obtained from The Technical Bookshop, Boop Department of the Mining Magazine, Salisbury House, London Wall, London, E. C. 2, England.

"ASBESTOS" will be glad to place orders for interested readers.

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MARKET CONDITIONS

GENERAL BUSINESS.

General business continues good. Industrial production, personal income and many other yardsticks of our economic health are still trending upward. In mid-February the stock market turned upward rather strongly after a consistently lower trend since the first of the year. Perhaps this marks the end of a correction which was long overdue. Steel production is catching up with demand at a more rapid rate than was expected and deliveries on many items are improving substantially. All in all prospects remain good but we must remember constantly that prosperity, as predicted for the next few years, is not an automatic thing which will happen if we just sit back and wait for it. It still must be earned by us as individuals and as a nation, by careful and thoughtful planning and by good old fashioned hard work.

ASBESTOS—RAW MATERIAL.

Shipments of asbestos fibre for the first two months of 1960 are running approximately 15% above the same period last year.

All grades of fibre are in ample supply, and relatively heavy inventories are being carried by all producers.

Indications are that the foreign asbestos market is very active, and as a result, the industry anticipates increased exports during 1960.

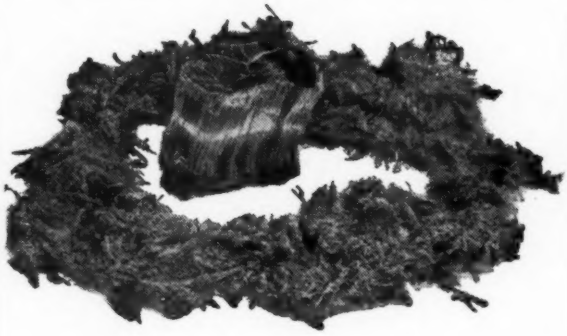
ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. The business being obtained for this material at the present time is below capacity levels but the situation is expected to improve very shortly.

Asbestos Brake Lining. January sales in replacement are at a good level. 1960 should be a near record year as

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SOLE SELLING AGENTS

Minerals Fibres Ltd., Market Buildings, Mark Lane, London.
Argentine, Belgium, Brazil, Chile, Columbia, Denmark, France and French Morocco, Egypt, Eire, Great Britain, Holland, India, Israel, Italy, Mexico, Norway, Pakistan, Peru, Portugal and Portuguese Africa, Spain, Sweden, Switzerland, Turkey, Uganda, Uruguay, Venezuela.

Carters (Merchants) Ltd., Winchester House, Old Broad St., London.
Austria, Czechoslovakia, Germany, Hungary, Japan, Poland, U.S.S.R., Yugoslavia.

In Australia, address inquiries to:—
AUSTRALIAN BLUE ASBESTOS LTD.,
89 St. George's Terrace, Perth, Western Australia.

CSR BUILDING PRODUCTS

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the average age of cars now in operation has materially increased, so repairs volume should likewise increase. The second best year in history is anticipated for equipment sales; however, the increase is mostly in compact car sales —these being closely watched to determine whether or not this volume is at the expense of standard size cars.

Asbestos Paper. The demand for this material has increased quite a bit during the past weeks and prices are still very competitive for the business that is available. It is anticipated that the volume for this product will increase during the coming weeks. The demand for *Asbestos Millboard* has increased slightly during the past two or three weeks and prices have been somewhat the same as in the past. The volume is expected to increase slightly during the coming months. The market situation at the present time for *Asbestos Saturated Paper* is improving and the outlook for the remainder of the year is excellent.

Asbestos Cement Products. The market situation is seasonally slow on products used for residential and commercial construction. The outlook appears to be much the same as last year but with improvement for products used in industrial construction toward the end of the year.

High Pressure Insulation. Orders for this material have increased slightly during the past month. However, prices for this material are still very competitive among both contractors and manufacturers. For the balance of the year, it is anticipated that there will be a substantial increase in volume over the latter months of 1959.

Low Pressure Insulation. The demand for this material has fallen off considerably and prices are extremely competitive. This situation is not expected to change during the next few months.

Asbestos Pipes. The market situation at the present time is seasonally satisfactory and is expected to improve during the next few months.

The above comments have been made by various informed executives in the Industry. All comments are welcome.

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CONTRACTORS

*save money on "BlueMud"!**

New Carey-Canadian 7M-90 has the following advantages • Trowels easier—reduces labor costs • Whiter finish • 15% less shrinkage • 10% more dry coverage • Hard, non-dusting surface • Competitively priced to save you money.

*Trade vernacular for 7M Asbestos Shorts

Note these laboratory-proven differences in shrinkage and whiteness between Carey-Canadian 7M-90 and a well known competitive 7M.



	Carey 7M-90	*Brand X*
Shrinkage (volumetric)	33.7%	44.3%
Wet Coverage (1-1 ratio)	28.5 Bd. Ft.	27.7 Bd. Ft.
Dry Coverage	18.9 Bd. Ft.	15.5 Bd. Ft.

Information and samples may be obtained from your Carey Asbestos Fibre Sales Engineer or by contacting Carey-Canadian Mines, Ltd., P. O. Box 95, Lockland, Cincinnati 15, Ohio, or Carey-Canadian Mines, Ltd., East Broughton Station, P.Q., Canada.

Carey®

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BUILDING

Contracts for future construction in the United States (excluding Alaska and Hawaii) in January totalled $2,192,949,000, down 5% from a year ago, F. W. Dodge Corporation reported. On a seasonally adjusted basis, the Dodge Index of construction contracts in January was 235, compared with 244 in December and 231 in November. Chief factors contributing to the January drop were contined declines in housing and highways, according to Dodge.

Dr. George Cline Smith, Dodge vice president and chief economist, pointed out, however, that "the drop in housing was certainly no more than expected and highway contracts have shown little strength for the past year or so".

"At the same time", Dr. Smith added, "contracts for industrial and commercial buildings continued to score gains over year-earlier levels, and school building contracts registered their sharpest percentage increase in more than a year and a half".

Non-residential building contracts in January amounted to $801,402,000, down 2% from the same month last year. The gains in commercial, industrial, and educational building contracts were more than offset by declines in all other non-residential building types.

Contracts for residential buildings totalled $926,966,000 in January, a decrease of 9% from the comparable 1959 level. The number of dwelling units represented by the residential contracts in January totalled 72,329, down 14% from a year ago.

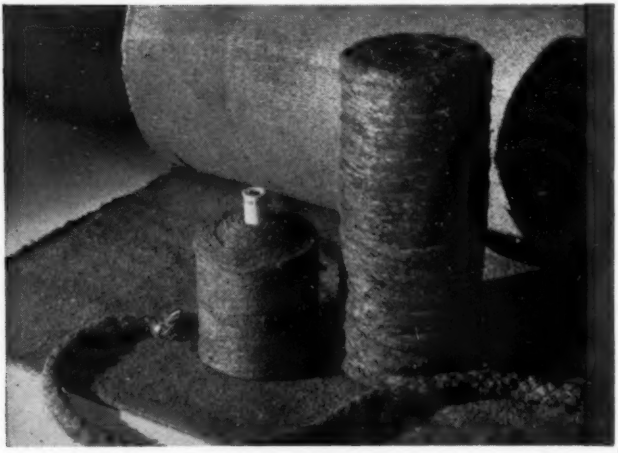
Heavy engineering contracts in January were valued at $464,581,000, down 3% from last year. A decline in public works contracts, caused chiefly by a 12% drop in highways, more than offset a small gain in utility contracts. The increase in utility contracts was wholly accounted for by a very sharp rise in contracts for electric light and power systems, while all other utilities were down.

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NORAMITE

... Crocidolite and Amosite Asbestos Products for Reinforcement of Plastics

Noramite identifies a group of new products which greatly extend the range of properties normally available in reinforcing fibers. Noramite products, all based on Amosite or Crocidolite asbestos, include prepared fibers, rovings, ropes and fabrics. Greater chemical resistance, higher moduli, and greater heat resistance are among the principal advantages of Noramite products.



NAAC

In the United States
NORTH AMERICAN ASBESTOS CORPORATION
Board of Trade Building • Chicago 4, Illinois

In Canada
CAPE ASBESTOS (CANADA) LIMITED
200 Bloor Street East • Toronto, Ontario

CAPE

Subsidiaries of The Cape Asbestos Company, Ltd., London

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AUTOMOBILE SALES

	December 1959
Passenger Cars	475,382
Motor Trucks	72,669
Motor Coaches	287
	548,338

In December 1958, a total of 709,078 motor vehicles were sold. Sales for the year 1959 amounted to 6,728,644.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

UNARCOBOARD, a completely new, inorganic insulating sheet material that combines lightweight and structural strength, has been announced by *Union Asbestos & Rubber Company*, Fibrous Products Division, Bloomington, Illinois.

This 100% incombustible board is available in sheets up to 4′ x 8′ in size. It can be worked like wood and can be machined, cut and drilled. For precision model making applications, it can be planed to .001 accuracy.

This white board is completely inorganic—It is composed of asbestos and other materials—and will not burn, rot, mold or sustain vermin.

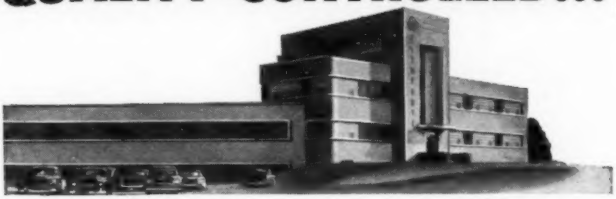
Structural properties are practically unaffected by moisture, immersion in water, steam, fumes or temperatues up to 1200°F. The board will not swell, crack or warp. Expansion from a dry to a completely saturated state is only .0005 in./in.

Compressive strength of 2400 psi is obtained with 35 pound density. Deformation under 1000 psi load is .002 in./in. Modulus of rupture is 600 psi and modulus of elasticity is 500,000 psi. The board's conductivity at room temperature is 0.80 BTU. According to the manufacturer, the board has excellent acoustical properties.

The board is available in thicknesses of 1 inch, 1½ inches, 2 inches, 2½ inches and 3 inches. Density per cubic foot ranges from 20 to 75 pounds.

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QUALITY-CONTROLLED...



Flintkote's modern research center at Whippany, New Jersey provides the facilities and technical know-how to determine the right fibres for diversified product uses.

...FLINTKOTE Asbestos Fibres

You, too, can gain from experience. The Flintkote Company stresses quality—has manufactured quality products for over fifty years—uses quality-controlled asbestos fibres produced by Flintkote Mines in many of its products.

A wide variety of asbestos fibres now available for *your* use.

For further information and descriptive brochure—Write: The Flintkote Company, East Rutherford, New Jersey.

FLINTKOTE MINES, LIMITED

(Subsidiary of The Flintkote Company) Thetford Mines, P. Q., Canada



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The CLUTE CORPORATION has just published its *Progress Report,* dated January 25, 1960.

This report is in the form of a pamphlet and contains information and illustrations on Clute's activities.

Readers interested in obtaining a copy of this pamphlet can write to Clute Corporation, 1050 Littleton Boulevard, Littleton, Colorado.

The UNIVERSAL ASBESTOS MANUFACTURING COMPANY LIMITED has been awarded a Certificate of Merit for its entry in Class 1 (manufacturers' own literature) in the 1959 Trade and Technical Literature Competition organized jointly by The Royal Institute of British Architects and The Building Centre.

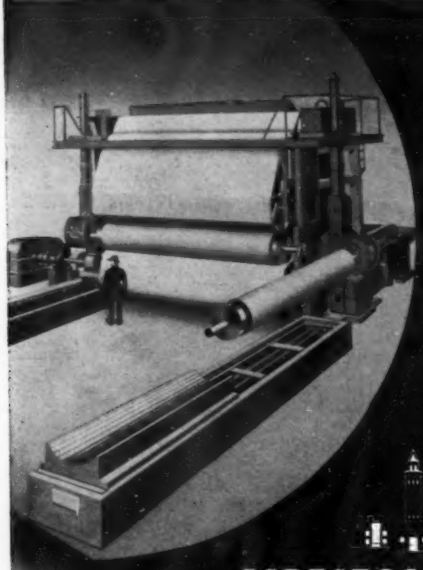
The INSULATION CONTRACTORS ASSOCIATION of Washington, D. C., Inc. has announced that at its regular meeting, the following Officers were elected to serve during the year 1960: John Kelso Shipe, President, Asbestos Covering & Roofing Company; Walter E. Campbell, Vice President, Walter E. Campbell Company; and M. R. Murnan, Secretary-Treasurer, Heat & Frost Insulators, Inc.

CLASSIC MINABOARD, Armstrong Cork Company's new acoustical ceiling material, features a distinctive "free-flowing" surface pattern in incombustible, lay-in units designed for installation in exposed-grid systems. The large 24″ x 48″ panel reduces installation time and cost.

ASBESTOS FIBRES
ASBESTOS WASTE
Frank G. Ruggles Co. Inc.
26 BROADWAY
NEW YORK 4, NEW YORK

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PLANTS TO MAKE ASBESTOS CEMENT LOW AND HIGH PRESSURE PIPES



Fully automatic plants to make Socketed Pipes

Plants for making Asbestos Cement Pipes for OIL PIPELINES

Modern plants for making Asbestos Cement corrugated, flat and flexible SHEETS

Automatic corrugating and stapling machines

Presses up to 10.000 tons pressure

Plants to make Shingles

Plants for making SILICA CEMENT Steam Hardening

ASBESTOS CEMENT ENGINEERING

Hauptstraße 26
VADUZ-LIECHTENSTEIN
(Switzerland)
P. O. Box 34649

PLANTS PROJECTED DELIVERED AND STARTED · PARTICIPATIONS TAKEN · FINANCING ARRANGED · AGENTS REQUIRED

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PRODUCTION STATISTICS

AFRICA (Rhodesia)
(Published by Rhodesia Chamber of Mines)

Tons 2,000 lbs.

Production for October 1959	12,267.35
Valued at	£667,013.00
Production for October 1958	9,970.40
Valued at	£639,402.00

CANADA
(Dept. of Mines, Province of Quebec)

Tons 2,000 lbs.

Production for December 1959 (Quebec)	67,683
Other Provinces	4,365
	72,048

Total production for December 1958 was 63,120 tons.

AUSTRALIA
(Published by Bureau of Mineral Resources)

Tons 2,000 lbs.

	Quarter Ending June 30, 1959
Production	
Chrysotile	367
Crocidolite	2,444
	2,811
Imports	
Amosite	2,516
Chrysotile	3,401
Crocidolite	204
Other	329
	6,450
Exports	
Chrysotile	139
Crocidolite	6,049
Other	28
	6,216

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asbestos cement department

10, VIA SANTA TERESA
TURIN, ITALY

Manufacturers of all types of Fully Automatic

asbestos cement machinery

Daily output guaranteed according to the International Standard Specification:

150 ton high pressure pipes
300 ton flat and corrugated sheets

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CYPRUS

(From Inspector of Mines)

	4th Quarter (Ending December 31, 1959)		
	October	November	December
Rock Mined	131,169.00	64,294.00	..
Rock Treated	82,948.00	63,438.00	51.00
Fibre Produced	1,963.50	1,370.25	114.10
Fibre Exported	1,600.00	3,850.00	161.00

THE AUSTRALIAN MINERAL INDUSTRY

Australian production and consumption of asbestos continued their upward trend and were at a record level in 1958; exports decreased by about 8%, but imports were the second highest on record.

Short tons	Year 1958
Australian production	15,568
Exports	10,365
Imports	38,888
Apparent consumption	44,091

NATIONAL GYPSUM COMPANY

Annual Report

Record sales and earnings for 1959 were reported by National Gypsum Company.

Net income rose to an all-time record of $25,562,000 or $4.56 a share on 5,503,013 common shares outstanding. This was an increase of 31% over the Company's 1958 net income of $19,488,000 or $3.46 a share on the same number of shares.

Sales of $226,278,000 exceeded the previous record of $200,211,000 set in 1958 by 13%.

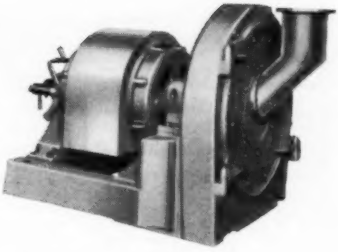
The 1958 figures are adjusted to reflect sales and earnings of cement and tile companies acquired in 1959 by National Gypsum.

The Company's assets increased $58,984,000 last year to a record $250,933,000. National Gypsum's 1959 capital expenditures totaled $27,448,000.

PHILIP CAREY MANUFACTURING COMPANY has moved the headquarters of their Insulation Division from Plymouth Meeting, Pennsylvania, to their General Offices in Cincinnati, Ohio. This division is headed by **Paul D. Japp,** Vice President, with **Don L. Bigelow** as Sales Manager and **Robert J. Littin** as Assistant Sales Manager .

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Bauer



Single Revolving Disc Mills

for your wet grinding

In this type of mill, one disc rotates while the other remains stationary.

These famous Bauer machines are used for wet applications in the asbestos industry . . .

1. To reduce coarse particles—1/16″ and larger.
2. To deflock fiber bundles in asbestos slurry, for the production of both paper and cement.

Our mills are adaptable to many specific purposes. We take pride in engineering installations to meet exact requirements. When we encounter new problems, we make tests in our fully equipped research laboratories.

You are invited to consult with us.

THE BAUER BROS. CO.
1826 SHERIDAN AVE.
SPRINGFIELD, OHIO

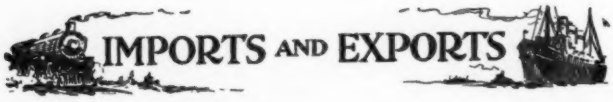
CANADIAN AGENTS:—Lynn Macleod Engineering Supplies Ltd., Thedford Mines, P.Q.
EXPORT AGENTS:—M. Neumunz & Son, Inc., 90 West St., New York 6, N.Y.



Bauer-McNett Classifier

A widely used device for classifying any sample of slurry into a number of fractions, each containing fibers of the same approximate length. Ask for literature.

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Imports Into U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:	October 1959 Tons (2,240 lbs.)
From: Canada	49,606
Union of South Africa	2,078
Yugoslavia	787
Rhodesia (Ny)	616
Other Countries	63
	53,150
Valued at:	$5,037,292
By Grades:	
Crude, No. 1, Chrysotile	3
Crude, Other, Chrysotile, Yugoslavia	787
Crude, Other, Chrysotile, Rhod (Ny)	616
Crude, Other, Chrysotile, Other Countries	39
Crude, Blue, Union of South Africa	703
Crude, Amosite, Union of South Africa	1,196
Textile Fiber, Chrysotile, Canada	1,039
Textile Fiber, Chrysotile, Other Countries	13
Shingle Fiber, Chrysotile, Canada	6,063
Shingle Fiber, Chrysotile, Union of S. Africa	179
Paper Fiber, Chrysotile, Canada	4,011
Paper Fiber, Chrysotile, Other Countries	8
Other Fibers, Chrysotile, Canada	38,493
	53,150

Manufactured Asbestos Goods:	October 1959 Quantity (lbs.)	Value
Asbestos Yarn, United Kingdom	19,279	$ 14,272
Israel	25,126	10,926
Other Countries	4,838	9,100
Asbestos Packing	23,610	5,855
Asbestos Shingles (Impreg)		
Belgium	294,057	37,829
Other Countries	94,882	4,838
Asbestos Shingles (Not Impreg)		
Canada	252,978	18,475
Belgium	3,346,964	263,842
Italy	2,600,803	104,189
Other Countries	25,962	817
Asbestos Manufactures — Others	..	9,731
	6,688,499	$479,874

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We've expanded into new quarters! For faster service to users west of the Rockies, Gold Bond asbestos fibres will now be distributed by the Great Western Chemical Company. Offices are in Seattle, Portland and Richmond, Calif.; with distributing warehouses in Seattle, Spokane, Portland, Eugene, Richmond, (Calif.) and Los Angeles; and sales representatives covering the western states, Alaska and Hawaii.

East of the Rockies, contact National Gypsum Company, Buffalo 2, New York. In Canada: National Asbestos Mines, Ltd., Thetford Mines, P. Q.

Gold Bond
INDUSTRIAL PRODUCTS

a step ahead of tomorrow

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Exports From U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	November 1959 Tons (2,240 lbs.)	Value
To: Europe	353	$ 88,551
Mexico	94	12,517
Canada	34	12,096
United Kingdom	22	2,350
Other Countries	46	11,762
	549	$ 127,276

Manufactured Asbestos Goods:

	November 1959 Quantity	Value
Asbestos Cement & Pipe Coverings Lbs.	418,579	$ 109,740
Asbestos Textiles & Yarns .....Lbs.	42,838	49,481
Asbestos Packing .....Lbs.	122,167	146,382
Asbestos Clutch Facing .....No.	131,417	104,566
Asbestos Bk.Lng.(Mld.&S.Mld.) Lin. Ft.	164,171	80,146
Asbestos Brake Lining, Other .....Lbs.	408,220	333,923
Asbestos Construction Materials ..Lbs.	1,262,553	146,247
Asbestos Manufactures—Others	..	68,676
		$1,039,161

IMPORTS OF ASBESTOS BY UNITED KINGDOM

Raw Materials
Tons 2,240 lbs.

	December 1959
From: Union of South Africa	1,512
Basutoland, Bechuanaland & Swaziland	809
Rhodesia & Nyasaland	2,814
Canada	7,926
Other Commonwealth Countries and Irish Republic	138
Foreign Countries	158
	13,357

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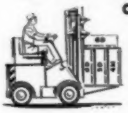
The world's largest asbestos mill
enables Johns-Manville to offer

1. Higher quality fibre



Johns-Manville's new mill employs the most modern equipment and skilled technicians to assure highest quality within each grade.

2. Faster delivery of any quantity



This new mill's tremendous capacity permits speedily efficient attention to all orders, large and small.

3. Greater uniformity of grade

Each grade of J-M asbestos fibre is submitted to a rigorous series of tests that assure maximum uniformity.

Write to address below for further information and free copy of new illustrated 8-page brochure



Asbestos Fibre Division

Canadian Johns-Manville Co., Ltd.

Box 1500, Asbestos, P.Q., Canada, Telephone: 100

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Exports From Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos:	September 1959 Tons (2000 lbs.)	Value
Crude		
United States	..	$ ..
United Kingdom	30	34,650
South America	..	..
Central America & Mexico	..	..
European Countries	2	1,862
Other Countries	..	..
	32	$ 36,512
Milled		
United States	14,946	$ 3,000,118
United Kingdom	2,998	676,094
South America	4,054	745,305
Central America & Mexico	303	51,323
European Countries	13,754	2,660,524
Other Countries	5,285	859,033
	41,367	$ 7,992,397
Shorts		
United States	41,871	$ 2,081,659
United Kingdom	3,812	194,736
South America	548	36,648
Central America & Mexico	135	8,577
European Countries	6,345	347,290
Other Countries	1,616	122,347
	54,327	$ 2,791,257
Grand Total— Unmanufactured Asbestos:	95,726	$10,820,166
Manufactured Asbestos Goods:		
Brake Lining		$ 33,493
Packing		..
Other Materials		101,033
		$ 134,526

DeWitt W. Keach has been named Personnel Manager for all its Ambler locations by KEASBEY & MATTISON COMPANY, manufacturers of asbestos, asphalt, and heat insulating products. A veteran of World War II, he holds a B.S. degree from Yale University.

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ASBESTOS FIBRE

OF ALL TYPES

BRANDHURST COMPANY LIMITED

Vintry House

LONDON

E. C. 4

Telephone:	Cables:
London Central 1411	Brandcolim
(Private Branch Exchange)	London

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Exports From Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos:	October 1959 Tons (2,000 lbs.)	Value
Crude		
United States	3	$ 2,250
United Kingdom	30	33,000
South America	..	..
Central America & Mexico	..	..
European Countries	1	698
Other Countries	1	1,725
	35	$ 37,673
Milled		
United States	11,425	$ 2,220,803
United Kingdom	3,306	678,924
South America	4,018	733,093
Central America & Mexico	864	150,360
European Countries	13,552	2,512,172
Other Countries	4,769	781,312
	37,934	$ 7,076,664
Shorts		
United States	41,150	$ 2,108,023
United Kingdom	3,013	158,345
South America	764	53,919
Central America & Mexico	122	10,393
European Countries	8,034	444,190
Other Countries	1,708	138,193
	54,791	$ 2,913,063
Grand Total— Unmanufactured Asbestos:	92,760	$10,027,400
Manufactured Asbestos Goods:		
Brake Lining		$ 23,302
Packing		..
Other Materials		13,448
		$ 36,750

WANTED

Man fully experienced in estimating, sales, and supervision of Mechanical Insulation for established company's branch operation Northwestern States. Good future. Reply to Box No. 3AA-SW, "ASBESTOS", 807 Western Saving Fund Building, Philadelphia 7, Pennsylvania

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THE FLINTKOTE COMPANY

Annual Report

The Flintkote Company reported 1959 sales rose to a record high at $221,075,187 for an increase of 13.9% from 1958 volume of $194,071,638, while earnings increased 17% to the second best level in the Company's history.

In its annual report to shareholders, the Company listed 1959 earnings at $14,285,578, equal after prefered dividend requirements to $2.61 per share on an average of 5,042,900 common shares outstanding. These earnings, exceeded on a pooled basis only in 1956, compared with $12,230,165, or $2.24 per share on 4,950,146 average common shares outstanding in 1958.

I. J. Harvey, Jr., Chairman of the Board and Chief Executive Officer, pointed out that 1959 represented another year of growth for the Company with its program of expansion and diversification being "greatly implemented by three desirable corporate acquisitions". These were the Blue Diamond Corporation, Glens Falls Portland Cement Company, and the Calaveras Cement Company.

The December 31, 1959, balance sheet showed total assets of $178,986,363 compared with $166,696,859 a year earlier. Total current assets on December 31 last were $68,209,440 against $26,302,730 in total current liabilities.



Exporters of

RAW ASBESTOS

ALL GRADES—ALL TYPES

C. J. PETROW & COMPANY (PTY.) LTD.

P. O. BOX 11000 — CABLE: SOTSEBSA

VOLKSKAS BLDG. — 76 MARKET STREET

JOHANNESBURG - SOUTH AFRICA

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NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

William A. Sussman, Vice President & Secretary, The Sussman Asbestos Company, Toledo, Ohio, March 8.
William A. Kamke, Vice President & Treasurer, The Sussman Asbestos Company, Toledo, Ohio, March 14.
John H. Balch, Executive Vice President, Union Asbestos & Rubber Company, Chicago, Illinois, March 22.
Grady B. Gulledge, Director and General Manager, Apache Asbestos Mines, Inc., and, Owner and Manager, Pine Top Asbestos Mines, Globe, Arizona, March 23.
George Barge, Chief Financial Officer, Keasbey & Mattison Company, Ambler, Pennsylvania, March 27.
A. R. Fisher, Chairman and Chief Executive Officer, Johns-Manville Corporation, New York City, March 27.
J. T. Griffis, Vice President, Southern Asbestos Company, Charlotte, North Carolina, March 28.
J. A. O'Brien, Vice President, Johns-Manville Corporation, New York City, March 28.
Lord Elton, Director, The Cape Asbestos Company, London, England, March 29.
F. V. S. Smith, Director & Secretary, Hodgson & Hodgson, Ltd., Carrington, Nottingham, England, March 29.
W. C. Bowman, District Manager, The Philip Carey Manufacturing Company, Philadelphia, Pennsylvania, March 30.
Rene A. Cooper, Vice President, Inland Insulation Company, Chicago, Illinois, April 1.
George Kanzler, President, Smith & Kanzler Corporation, Elizabeth, New Jersey, April 4.
Herbert D. Harris, Asbestos Corporation of America, New York City, April 12.
J. M. Weaver, formerly of Raybestos-Manhattan, Inc., Manheim, Pennsylvania, April 14.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

ARMSTRONG CORK COMPANY
Annual Report

Armstrong Cork Company reported net earnings for 1959 of $19,207,000 and sales of $290,620,000, highest for each in history.

Earnings increased 41% over the 1958 figure of $13,607,000. Sales were up 16% over the previous year's $249,859,000.

Earnings per share were reported at $3.69 for last year as compared with $2.60 for 1958.

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THE FLINTKOTE COMPANY announced the election of the following men as Vice Presidents. All are operating heads of Flintkote divisions.

W. L. Davis, a Flintkote Director, is President of Hankins Container Division, acquired by Flintkote in December 1958.

Kennedy Ellsworth, General Manager of U. S. Lime Products Division, acquired in September 1956.

Wm. Wallace Mein, Jr., President of Calaveras Cement Division, acquired in September 1959.

Noel J. Redmond, a Flintkote Director, is President of Blue Diamond Division, a West Coast gypsum producer, acquired in May 1959.

H. J. Robertson, a Flintkote Director, is President of Orangeburg Manufacturing Division, acquired in December 1958.

I. J. Harvey, Jr., Flintkote's Chairman and Chief Executive Officer, said "our long-range company expansion and diversification program calls for continuous preparation of staff as well as products and services and with this in mind we are bringing to the top executive management of Flintkote those persons who have been long and successfully identified with the operations of their respective divisions".

INDUSTRIAL SERVICE COMPANY

Builders of

ASBESTOS CEMENT MACHINERY

Our experienced engineers and machinists offer the industry entire machines built to deliver maximum production.

Your Inquiries Are Invited

1-51 Paterson Avenue **E. Rutherford, N. J.**

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CURRENT RANGE OF PRICE

As of March 10, 1960

ARIZONA— Per Ton of 2,000 lbs., f.o.b. Globe, Arizona

No. 1 Crude (soft)	$1,475.00 to $1,800.00
No. 2 Crude (soft)	830.00 to 1,050.00
Group-3 (Filtering & Spinning)	350.00 to 450.00
Group-4 (Plastic & Filtration)	190.00 to 250.00
Group-5 (Plastic & Moulding)	125.00 to 177.00
Group-7 (Refuse & Shorts)	60.00 to 100.00

CANADA— Per Ton 2,000 lbs. f.o.b. Mine
Canadian Currency

Group No. 1 (Crude No. 1)	$1,410.00 to $1,475.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	610.00 to 875.00
Group No. 3 (Spinning Fibre)	350.00 to 650.00
Group No. 4 (Shingle Fibre)	180.00 to 245.00
Group No. 5 (Paper)	120.00 to 150.00
Group No. 6 (Waste, Stucco or Plaster)	.. 86.00
Group No. 7 (Refuse or Shorts)	40.00 to 80.00

VERMONT—Per ton of 2,000 lbs. f.o.b. Hyde Park or Morrisville, Vt.

Group No. 3 (Spinning & Filtering)	$ 353.00 to $ 440.00
Group No. 4 (Shingle Fibre)	181.00 to 218.00
Group No. 5 (Paper Fibre)	120.00 to 142.00
Group No. 6 (Waste, Stucco or Plaster)	.. 86.00
Group No. 7 (Refuse or Shorts)	41.00 to 75.00

Ralph L. Tucker has been appointed Manager of Tile Flooring Products, a new position created with THE RUBEROID CO.'s recent entry into the resilient floor covering field.

Mr. Tucker was previously associated with Ruberoid's Mastic Tile division which now conducts the business of the former Mastic Tile Corporation of America acquired by Ruberoid in September of 1959.

Ruberoid has undertaken distribution through regular building materials channels of floor tile products under its own brand name manufactured by its Mastic Tile division.

WILHELM BURGDORF
Importer of **Raw Asbestos**
P. O. Box 1131, BREMEN, GERMANY

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Now in Operation: New Independent Source of Asbestos. **Lake Asbestos of Quebec, Ltd. will supply 100,000 tons of high-quality chrysotile asbestos fibre annually. If you need a new dependable source for high grade asbestos, write to Lake Asbestos of Quebec, Ltd., 120 Broadway, N.Y. 5, N.Y.**

North American Sales Agents:

California, Los Angeles
E. B. Taylor Company
California, San Francisco
E. M. Walls Company
Colorado, Denver
Braun-Knecht-Heimann Co.
Illinois, Chicago
Central Solvents & Chemicals Co.
Indiana, Indianapolis & Ft. Wayne
Hoosier Solvents & Chemicals Corp.
Kentucky, Louisville
Dixie Solvents & Chemicals Co.
Massachusetts, Allston
D. H. Litter & Co., Inc.
Michigan, Detroit
Baker & Collinson
Missouri, Kansas City & St. Louis
Missouri Solvents & Chemicals Co.
New York, Buffalo
Buffalo Solvents & Chemicals Corp.
New York, New York
D. H. Litter & Co., Inc.
Ohio, Cincinnati
Amsco Solvents & Chemicals Co.
Ohio, Cleveland
A. C. Mueller Co., Inc.
Oregon, Portland
Van Waters & Rogers, Inc.
Pennsylvania, Conshohocken
Van Horn, Metz & Co., Inc.
Texas, Houston
Federated Metals Division
Utah, Salt Lake City
Braun-Knecht-Heimann Co.
Washington, Seattle
Van Waters & Rogers, Inc.
Wisconsin, Milwaukee
Wisconsin Solvents & Chemicals Corp.

LAKE ASBESTOS OF QUEBEC, LTD.

a subsidiary of American Smelting and Refining Company



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Laurens C. van Dyck has been appointed Sales Manager of GREENE, TWEED & CO., North Wales, Pennsylvania, manufacturer of Palmetto® packings.

Formerly district sales representative covering the Michigan and Western Ohio area, Mr. van Dyck's 25 years of diversified experience in the packings industry includes a broad, extensive background in statistical quality control, cost control and analysis, production management and technical sales service.

In his new assignment, Mr. van Dyck will direct and coordinate sales operations both in the home office and in the field. He will be responsible for the sales of gasketing and gasket products; molded, self-lubricating, fabric, foil, plastic and filament packings.

The Company said that the appointment was "another forward step in a continuing national expansion of the sales and customer service activities of the firm."

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

		February 1960		
	Par	Low	High	Last
American Brake Shoe	np	48¼	50⅜	50⅛
Armstrong Cork (Com)	1	39½	44⅝	43¾
Armstrong Cork (Pfd)	np	75½	78¼	77
Asbestos Corporation	np	20¾	25	21⅜
Philip Carey	10	30½	35⅜	34¼
Cassiar Asbestos Corp.	np	12¾	13¾	13
Celotex (Com)	1	32¼	34½	33⅝
Celotex (Pfd)	20	17⅞	19	18
Certain-Teed	1	12⅞	13⅝	13¼
Fibreboard	np	42½	45¾	43¾
Flintkote (Com)	5	33½	35⅞	35⅝
Flintkote (Pfd)	np	81¼	84	83
Johns-Manville	5	45⅜	50½	50½
National Gypsum(Com)	1	51½	56¼	55⅞
National Gypsum (Pfd)	np	89⅜	91½	91
Porter, H. K.	100	92	93⅜	93
Raybestos-Manhattan	np	64¼	68¼	67¾
Ruberoid	1	39¾	41	40
Unarco	5	9½	11⅝	11½
United Asbestos	1	$4.05	$4.40	$4.05
U. S. Gypsum (Com)	4	86½	94½	92¾
U. S. Gypsum (Pfd)	100	149	151	151
U. S. Rubber (Com)	5	54	58⅞	56¼
U. S. Rubber (Pfd)	100	144½	149¾	146½

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BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA



Producers of

Raw Asbestos Crudes

& Fibres



Sales Representatives

for

Cassiar Asbestos Corporation Limited

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JOHNS-MANVILLE CORPORATION
Annual Report

Johns-Manville sales and earnings set new high records in 1959, A. R. Fisher, Chairman, announced in issuing the audited figures for the year.

Net earnings in 1959 were $31,616,000 or $3.74 per share of common stock on an average of 8,451,462 shares outstanding. In 1959 earnings were $23,374,000 or $2.83 per share on an average of 8,255,177 shares.

Sales were $377,562,000 in 1959, compared with $331,743,000 in 1958.

According to Mr. Fisher, "These records were achieved despite the adverse effects of long strikes at two of our plants and the general slowing down of the national economy caused by the prolonged strike in the steel industry. Our fiber glass business grew rapidly during 1959 and contributed substantially to earnings and sales. We continued our program of diversification and expansion with the acquisition of a perlite business".

Before taxes of all kinds, J-M earnings in 1959 were $62,754,000, which was $14,684,000 more than in 1958.

Depreciation and depletion in 1959 were $16,783,000, an increase of $1,002,000 as compared to 1958.

Expenditures for additions to and improvements and replacements of J-M properties amounted to $17,083,000 in 1959, compared with $12,514,000 in 1958.

It is anticipated that capital expenditures in 1960 will amount to approximately $35,000,000.

Daniel Shichman has been appointed Manager of Fiber Engineering Research at UNITED STATES RUBBER COMPANY'S Research Center in Wayne, New Jersey, it was announced by Dr. L. M. White, Director of Research and Development.

In his new position Mr. Shichman will head the department that specialized in the engineering of new textile processes for elastic and other types of fibers, filaments and fabrics.

Mr. Shichman succeeds **Boutwell H. Foster,** who has retired after 42 years with the Company.

„ Tropag "

Hamburg —:— Ballindamm 6

Importers since 1909 of

ASBESTOS-ORES-MINERALS

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Royal F. Power has been promoted to Manager of NATIONAL GYPSUM COMPANY'S Garwood, New Jersey, Sales District, it was announced by President Fred A. Manske.

Mr. Power succeeds John P. Hayes who has been promoted to Midwest Division Manager for National Gypsum.

The new Garwood Manager joined National Gypsum in 1945 as a general line salesman in Providence, Rhode Island. In 1955 he was promoted to Assistant Manager of the Garwood District.

John P. Hayes has been promoted to Manager of NATIONAL GYPSUM COMPANY'S Midwest Sales Division, it was announced by President Fred A. Manske.

Mr. Hayes, whose headquarters will be in Chicago, Illinois, succeeds Jay P. Nicely who recently was promoted to Dealer Sales Manager at National Gypsum's Buffalo, Indiana, headquarters.

National Gypsum's Midwest division embraces its Chicago, Milwaukee, Indianapolis, Peoria and Cincinnati districts.

ASBESTOS TEXTILES

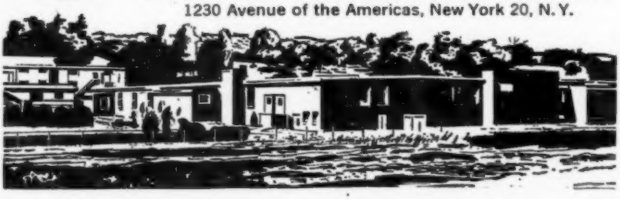
US RUBBER

are manufactured in our own modern plant at Stark Mills, Hogansville, Ga. Spinning and weaving operations are closely controlled for maximum uniformity in asbestos yarns, fabrics and tapes. Specialties developed to meet customers' requirements.

Write: Asbeston® Dept., Textile Division

UNITED STATES RUBBER COMPANY

1230 Avenue of the Americas, New York 20, N.Y.



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TURNER & NEWALL LIMITED
Annual Report

The Fortieth Annual Report and Accounts of Turner & Newall Limited for the fiscal year ending September 30, 1959, has been received; the annual general meeting having been held on January 21, 1960.

Net profit for the year after taxation was £6,894,925.

In the Chairman's Statement in 1958, reference was made to a curtailed demand in the world market for raw asbestos, which had caused Turner & Newall's mining organization in Africa to reduce its rate of production. This lessened activity did, as was foreshadowed, have an adverse influence upon profits earned and the effect was accentuated by more particularly reduced sales of the high grade fibres used in the textile section of the Asbestos Industry. However, with the exception of those fibres, the market for raw asbestos has now substantially recovered, and resumption of the normal rate of production took place on July 1st, 1959.

In the case of its Canadian mining company, Bell Asbestos Mines Limited, the restraining factors described in relation to its African mining activities have applied in a much smaller degree. Hence, this Company has experienced a very satisfactory year, operating at a high level of output. The lessened demand reported last year showed a significant recovery in the second half of the financial year now under review and, subject to a note of caution in relation to the textile grades of fibre, there is no reason why mining operations in Canada should not continue at a high and profitable level.

P. E. Gargrave has been appointed as an additional representative to the London area, by the U. A. M. GROUP. As of March 14th, 1960, Mr. Gargrave will take over the London SouthWest and West postal districts. Apart from Universal asbestos-cement products, he will also handle Union pitch fibre pipes and Unilux translucent sheeting.

PHILLIPS ASBESTOS MINES

Producers of

CRUDES

and

FIBERIZED ASBESTOS

The World's Finest Fibres

DRAWER 71 GLOBE, ARIZONA

Mines and Mills in Gila Co., Arizona

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RAW ASBESTOS DISTRIBUTORS

LIMITED

FOR CANADIAN, RHODESIAN
AND SOUTH AFRICAN ASBESTOS

ASBESTOS HOUSE • 77-79 FOUNTAIN ST. • MANCHESTER 2
ENGLAND

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THE TWELVE ESTIMATING TABLES

The Twelve Estimating Tables, with Chart, convenient in figuring flange fittings and other areas, is $1.00 per set.

These tables have been found very useful by estimators in figuring areas, but since we have not for some time published the detailed list, it occurred to us that many would like to know exactly what the tables cover, and order them before the fall work begins. Following is the list.

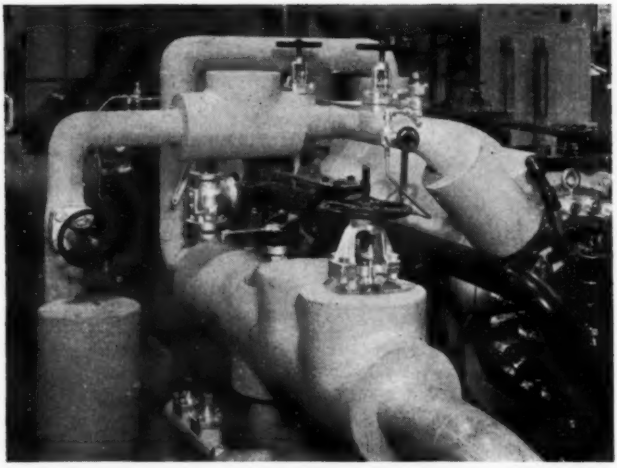
Sq. Ft. Areas of Pipe Covering.
Mean Sq. Ft. Areas Standard Screwed Fittings.
Mean Area Standard Weight Flanged Fittings.
Standard Weight Flange Areas, Permanent Type.
Standard Weight Flange Areas, Removable Type.
Figuring Hair Felt, 1″, 1½″, 2″.
Anti-Frost Insulation.
Cork Pipe Covering, Outside Area in Sq. Ft.
Ice Water Thick Cork Moulded Fittings Screwed, Outside Area in Sq. Ft.
Brine Thickness Cork Moulded Fittings, Screwed, Outside Areas in Sq. Ft.
Special Thickness Cork Moulded Fittings, Screwed, Outside Areas in Sq. Ft.
Dusts and Flue Perimeters.
The chart gives an easy way to figure Curved Cylindrical Surfaces.

The tables are printed on paper which will wear well under handling. Orders can be filled immediately upon receipt, write Asbestos, 807 Western Savings Fund Bldg., Philadelphia 7, Pa.



International Asbestos Cement Review
An architectural quarterly devoted to the promotion of asbestos-cement, published in English, French and German editions
Circulation exceeding 44 000
Editions Girsberger, 40 Kirchgasse, Zurich, Switzerland
(U. S. agents: Wittenborn & Co. 38 East 57th Street, New York 22)

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Maximum control of temperatures with

PABCO PRECISION-MOLDED CALTEMP

a Calcium Silicate Insulation

Curb expensive heat loss, control temperatures within minimum tolerances with performance-proved Pabco Insulations. For power plant piping and equipment, a Pabco Insulation insures peak performance wherever temperatures must be maintained up to 1900° F. Pabco's Caltemp and 85% Magnesia insulations are "Precision-Molded" by a patented process in both pipe and block form. For data on technical advantages... case histories... or engineering consultation, write... or call... a Pabco insulation engineer.

INSULATION GUIDE

Temperature	Recommended Pabco Insulation
to 550° F.	85% Magnesia pipe covering • block • cement
to 1200° F.	Caltemp pipe covering • block • cement
to 1500° F.	Prasco 15 C pipe covering • block • cement
to 1900° F.	Prasco 19 C block

PABCO

INDUSTRIAL INSULATIONS DIVISION

Fibreboard Paper Products Corporation
San Francisco 19 • Chicago 54
Houston 4 • New York 16 • Los Angeles

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BOOK LIST

The Asbestos Factbook, 16 pages: Information in comment form on origin, facts, locations, uses of analyses, qualities, 25c per copy.

Asbestos Mining Methods. By C. V. Smith. (Reprint) 16 pages 25c per copy.

Milling Asbestos. By J. C. Kelleher. (Reprint) 16 pages. Companion article to Asbestos Mining Methods. Both should be in every Asbestos Library, 25c per copy.

Recovery of Raw Asbestos. By Roland Starkey. (Reprint) 6 pages. Supplement to Milling Asbestos. 25c per copy.

Canadian Chrysotile Asbestos Classification. Including latest Quebec Testing Method. January 1, 1949 Edition. 4 pages 25c per copy.

Processing Asbestos Fibres. 8 pages. (Reprint). 25c per copy

Tests for Cotton Content. 4 pages (Reprint). Describing several methods of testing asbestos textile for cotton content. 10c per copy.

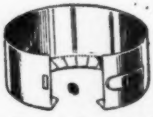
Chart—Dollars Cost of Uninsulated Pipe. (Reprint), 20c each

Brake Linings of Various Types. By R. T. Halstead, (Reprint) (12 pages) from August, September and October 1949 "ASBESTOS". Price 25c per copy.

Twelve Estimating Tables, with Chart. Convenient in figuring flange fittings and other areas, $1.00 per set.

Manual of Unit Prices. For figuring pipe covering and blocks $1.00 per single copy postpaid. Discount in quantities of 6 or more, postage billed.

Order any of the above from "ASBESTOS," 807 Western Saving Fund Bldg., Philadelphia 7, Pa. Payment should accompany order.

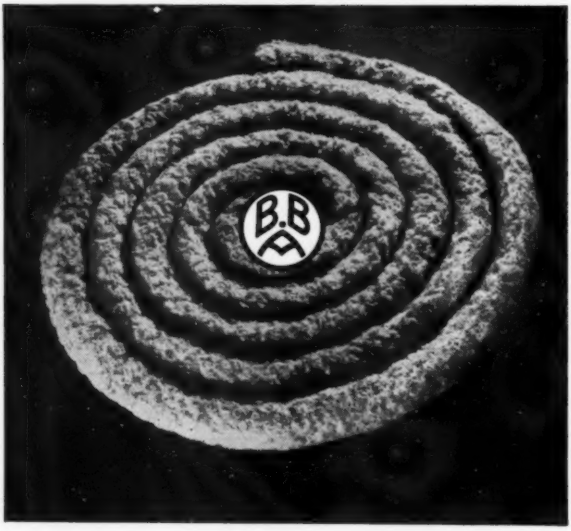


PIPE COVERING PROTECTORS

The "Royal" All Aluminum Adjustable and Permanent Protector for Pipe Covering-ends. Easy to Apply . . . Prompt Shipment.

THE PROTECTOR CO. • **GRANT WILSON, INC.**
SO. BOSTON 27, MASS. CHICAGO 4, ILL.

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LAGGING IN FRONT

This is B.B.A. Asbestos Fibre-Filled Rope Lagging for Steam Pipe Insulation, one of many of asbestos products, from yarn and rovings to cloth, tapes and jointings of all types and the world-famous MINTEX friction materials and MINTEX Industrial Plastics—made by B.B.A. In production, as in research, we are in the front of our field.

BRITISH BELTING & ASBESTOS LTD
CLECKHEATON, YORKSHIRE, ENGLAND

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PATENTS

Abstracts of U. S. Patents on Asbestos and Asbestos Products by Oliver S. North.

Copies of patents can be obtained by sending 25 cents, (in coin), to The Commissioner of Patents, Washington 25, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

Surface Covering Unit, No. 2,916,908. Granted on December 15, 1959 to J. L. Felder. An improved joint sealing composition for insertion between bricks or blocks during the building of walls or the like comprises optimum proportions of loose and substantially meshed asbestos fibre or other fibrous material, and talc, silica, or hydrated lime, along with aluminum stearate or other temporary lubricant. This compound is permanently non-brittle and requires no water when used.

Pipe Machining Tool, No. 2,916,955. Granted on December 15, 1959 to J. B. Gill. Design for an improved tool for use in the machining of tapered or cylindrical finishes on the ends of asbestos-cement pipes.

Felted Products and Processes Containing Fibrous Boehmite, No. 2,917,426. Granted on December 15, 1959 to J. Bugosh (assigned to E. I. du Pont de Nemours & Co., Wilmington, Delaware). In the manufacture of inorganic papers and textiles based on use of fibrous alumina monohydrate, or boehmite, as the binder, materials highly resistant to tearing can be made from mixtures of boehmite and No. 2 chrysotile asbestos fibre, mineral wool, glass fibre, or the like.

Composite Mica Paper, Mica Flake Electrical Insulating Material, No. 2,917,570. Granted on December 15, 1959 to G. M. Wolff and C. D. Richardson (assigned to General Electric Company, a corporation of New York). In the manufacture of improved electrical insulating sheet or tape, various combinations of mica paper and mica flakes are made into layered materials having asbestos fibre or other fibrous reinforcement on one or both of the outer surfaces.

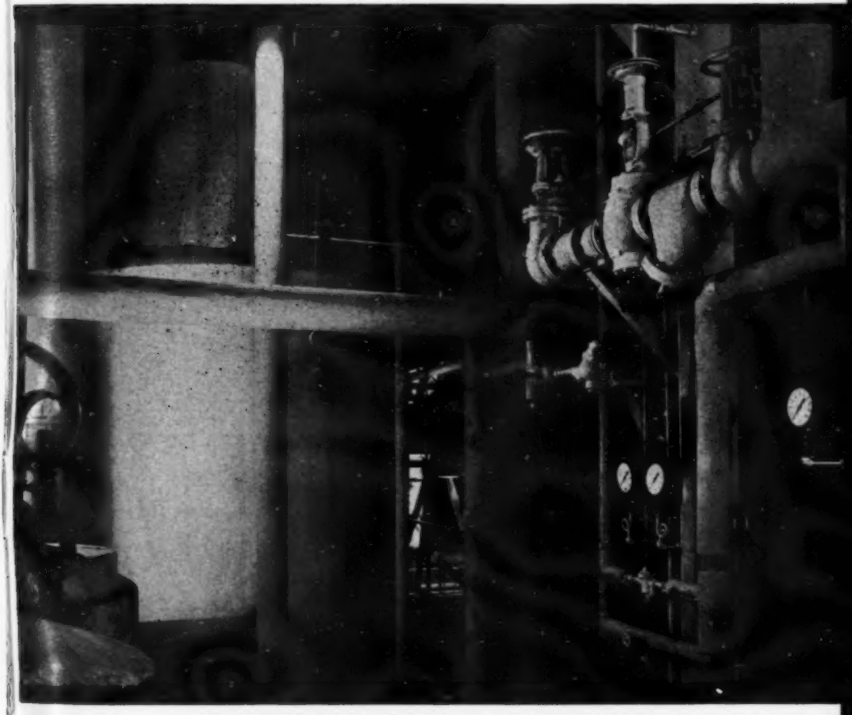
Chemically Bonded Vermiculite Insulating Blocks and Method For Manufacturing Same, No. 2,919,202. Granted on December 29, 1959 to J. C. Ekedahl and J. H. Veale (assigned to Illinois Clay Products Company, Joliet, Illinois). In the making of dry-pressed, chemically-bonded insulating blocks or bricks, exfoliated vermiculite is mixed with 5-25% sulfuric acid, 1-10% phosphoric acid, and 2-8% magnesium sulfate. The mixture is pressed to desired shapes at 20-200 psi pressure, and the unit heated to about 212°F. Pumice or diatomite can be used instead of vermiculite. If good tensile strength is desired in the product, a part of the vermiculite can be replaced by asbestos fibre.

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ONLY APPROVED CONTRACTORS INSTALL B-E-H INSULATIONS

The THERMALITE 85% Magnesia Insulation in this boiler room is typical of the faultless work of B-E-H approved contractors. Only men fully skilled in the application of B-E-H products are entrusted with their installation. Result: Full insulating value and long, trouble-free service life with economical heating.

Standard inventories of THERMALITE are maintained by distributors in all principal cities. For the full story of this money-saving insulating material, see your B-E-H Distributor or write direct for new Catalog to the address below.



Typical THERMALITE installation. THERMALITE has unusually low thermal conductivity, is molded to exact shape, assuring tight joints and snug pipe fits essential for maximum heat economy.

B E H
BALDWIN-EHRET-HILL

BALDWIN-EHRET-HILL, INC.
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SOUTHERN ASBESTOS — TEXTILES



SOUTHERN ASBESTOS COMPANY — *a subsidiary of*

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THERMOID DIVISION

CHARLOTTE 1, N. C.



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