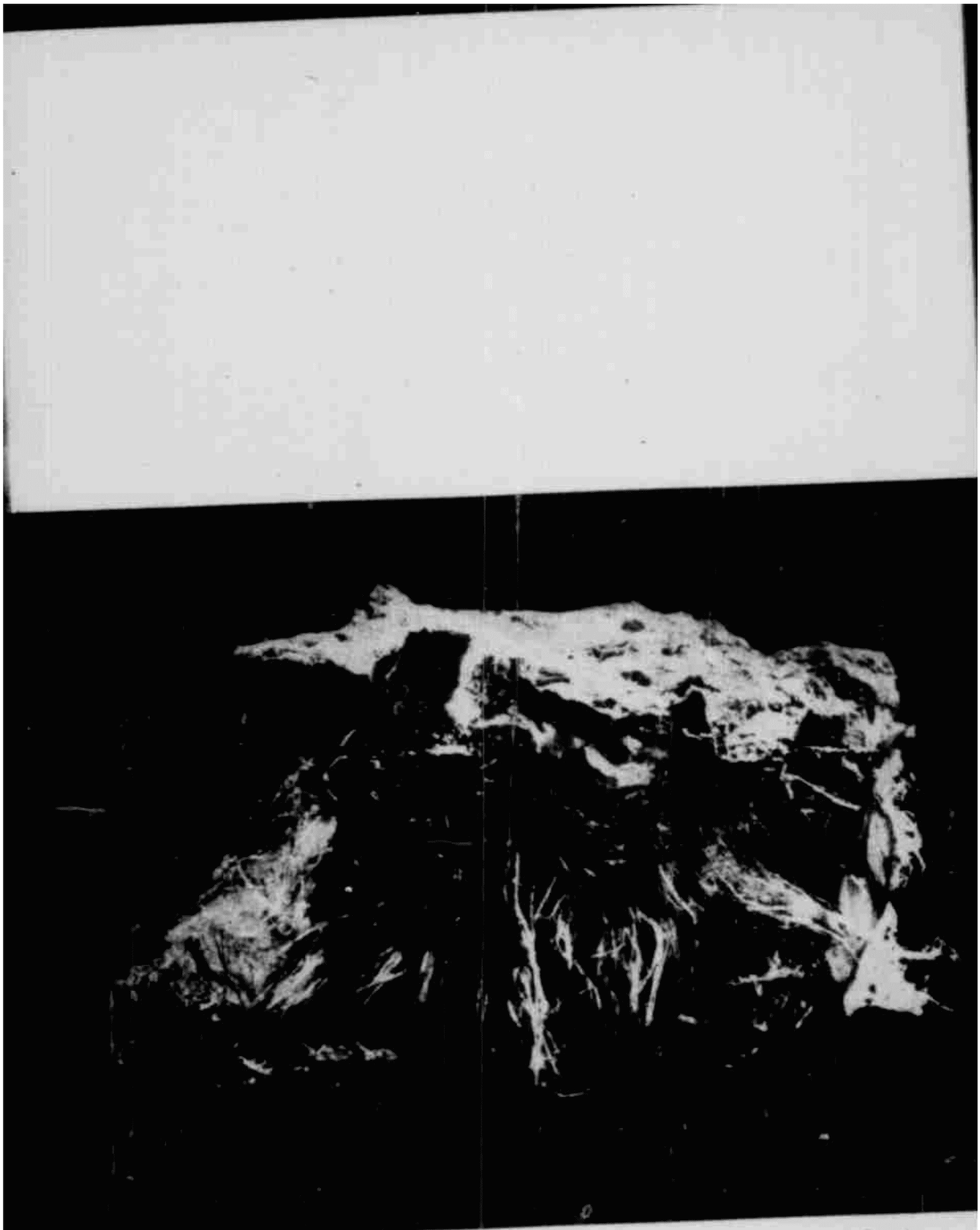


Arizona Asbestos No. 1 Crude

MAY 1964

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asbestosclaims.law/library/12565/1



R/M Thermal Insulating Tapes, made to Military Spec. MIL-I-1534A, consist of a tubular woven asbestos sheath in A.S.T.M. Grade AA and a stuffer of fiber glass slivers. The stuffer or insulating medium provides a weight saving of 6-19% in Type I and 20-36% in Type II, compared with the same sheath containing Amosite asbestos stuffer. R/M supplies these tapes in the three sizes covered by MIL-I-1534A and in eight additional sizes. Generally specified for insulating small piping aboard ship, they are also used in industry wherever vibration or physical abuse would damage or destroy standard sectional insulating materials. *Write for samples and product data.*

R/M

ASBESTOS TEXTILE DIVISION
RAYBESTOS-MANHATTAN, INC.
Manheim, Pa.
SPECIALISTS IN ASBESTOS, RUBBER, ENGINEERED PLASTICS, SINTERED METAL

"ASBESTOS"

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STURTEVANT AIR SEPARATOR AT CERTAIN-TEED

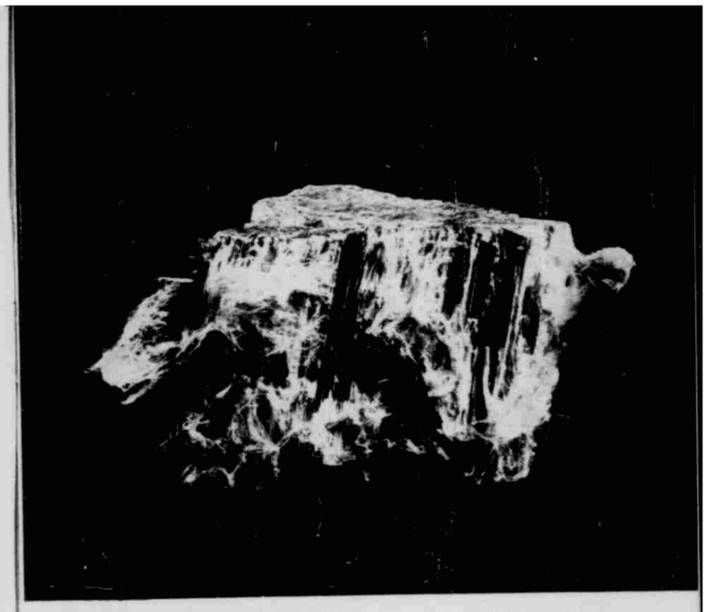
Reclaims Formerly Irreclaimable Asbestos-Cement Pipe Waste

What is now the Asbestos-Cement Pipe Division of Certain-Teed Products Corporation was founded in the nineteenth century as Keasbey and Mattison Company by two enterprising Ambler, Pennsylvania, pharmacists who were concerned with the production of magnesia, but who gradually "drifted" into other chemical ventures. When purchased by Turner & Newall Limited, of England, the company was essentially an asbestos products firm and one of its most active, productive and profitable operations was the manufacture of asbestos-cement pipe for both potable water and sewage. In 1962, when Turner & Newall sold its American interests, Certain-Teed purchased the Asbestos Cement Pipe Division.

The division has four plants, of which Ambler is the oldest. Others, geographically located to serve regional markets, are in Saint Louis, Missouri; Santa Clara, California; and, Hillsboro, Texas. The basic lightweight asbestos-cement pipe produced by all plants in Certain-Teed's ACP Division ranges from three inches in diameter to a foot — except that in Texas, where everything is bigger, the new Hillsboro plant also produces two-foot pipe. Standard lengths are thirteen feet. Couplings are also designed, engineered and fabricated. All meet rigid AWWA (American Water Works Association), ASTM (American Society for Testing & Materials) and Federal specifications.

The pipe and couplings consist of cement, silica and asbestos fibre. They are smooth; have a high flow coefficient, are lightest in weight of all potable water and sewage pipe construction materials; have leakproof joints with self-sealing rings (Certain-Teed calls them "self-energizing"); require no bolting, soldering or welding (simply lubricate the ends and fit them together); withstand high pressure and flexure stresses; and are impervious to tuberculation and corrosion.

These properties assure the permanence of the piping and guarantee it to be both infiltration — and exfiltration-proof. Roots and foreign matter cannot enter the lines to



ACL asbestos makes plastics stronger

Asbestos can do more for plastics than act as a filler. It can also be used as an excellent, low-cost reinforcing agent which will improve impact, chemical and heat-resistance, increase density and provide low mould shrinkage and good mouldability.

This new strength which asbestos brings to plastics has been proven in such critical applications as rocket flame tubes, where phenolic asbestos laminates provide the strength of aluminum at half the weight.

As the world's largest independent primary producer of asbestos for every application, Asbestos Corporation Limited is vitally interested in seeing the relationship between plastics and asbestos grow. If you have a project, process, product or problem which involves asbestos, discuss it with the specialists of Asbestos Corporation Limited, Thetford Mines, Canada.

For technical and sales information contact:
ASBESTOS CORPORATION LIMITED
Thetford Mines, Quebec

ASBESTOS

clog them; sewage cannot leak from the pipe to contaminate the soil. These attributes are responsible for the continuing growth curve of asbestos-cement pipe. Each year, ACP snags a little more of the pipe market from competing producers of clay, concrete and cast iron pipe.

Yet these desirable attributes were responsible for one of the major problems faced by Certain-Teed and its predecessors. The ultimate cured asbestos-cement pipe is virtually indestructible except under enormous pressure. It will not burn. It will not corrode. It will not even compact. Waste trim and broken piping cannot be discarded as most industrial waste and Certain-Teed's policy prohibits countryside spoilage by the creation of dumps so common in early industrial America, which meant the waste had to be either discarded in available empty quarries or reclaimed.

Because empty quarries are not readily available or accessible and transportation to them would be prohibitively expensive and because no company wishes to discard any byproduct or reprocessable material, Certain-Teed decided to attempt to reclaim the hitherto irreclaimable waste. In 1962, the company installed at Ambler a hydraulic crusher, a hammermill and an air separator which, in tandem, crush the material under pressure, reduce the crushed particles to small sizes and centrifugally select reprocessable fibres, most of which are between 20 and 65 mesh and 70% of which are 100 mesh or larger.

Focal point of the recovery system is the eight-foot air separator fabricated by Sturtevant Mill Company of Boston, Massachusetts, which operates on the principle of centrifugal force and air currents; one counteracting and overbalancing the other to select particles in desired size ranges. As the hammermilled particles enter the top of the separator, they are batted by the air forces against deflector plates until they fall to collection. Lightest, smallest particles — mostly silica and cement dust — are carried by the whirling air stream to a fines collection area. Larger, desired sizes — predominantly asbestos fibre — fall to the base collection area from which they are withdrawn to be reblended and reprocessed.

The fines, which constitute a very small percentage of introduced particles, are discarded because the produc-



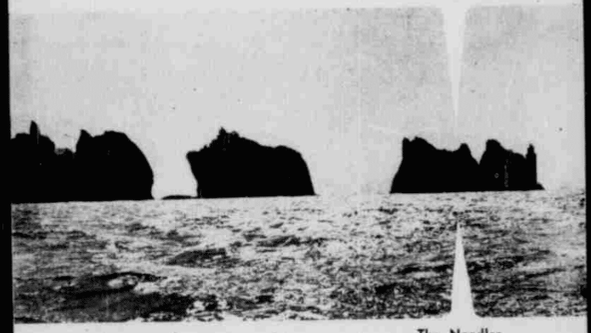
tion of asbestos-cement pipe calls for methods incorporating both papermaking and concrete pipe techniques which make it imperative that dust and fines be absent. Initial processing is on a cylinder machine, where dusty, tiny particles would not interweave with the fibres. Rather, they would sift out and clog the cylinder felt, restrict drainage, inhibit forming and drying, and cause frequent replacement of the expensive felts.

At Ambler, where ACP is produced around-the-clock six days a week, predetermined quantities of reclaim are mixed with the asbestos, silica and cement slurry. The slurry is picked up on the face of the cylinder mold and then transferred as a thin ply to the felt. The ply is carried into the press section where it is rolled up on polished steel mandrels. When the proper thickness is reached, the mandrel and wet pipe are sent through a curing tunnel. The mandrel is then removed and the pipe is passed to an autoclave for a 12-hour curing. Lathing follows.

All water main pipe is tested under pressures three and a half times as great as that for which it is intended and guaranteed. All pipe over eight inches in diameter is tested for flexural strength as well. Random destruction tests are required by regulations. Those destroyed, or which do not meet specs for any reason whatsoever, are reclaimed. Pipe with "soft spots" or "hard spots" caused by low or high fibre concentration in any given area, is pressure-crushed and transferred to open storage bins for reclaiming. Pipe damaged when curing, lathing, or other handling is either cut into random lengths (a certain percentage of random sizes is permissible) or returned for reclaim, as are all end pieces and other odd sizes resulting from lathing or cutting.

By reclaiming the particles in the Sturtevant air separator, the Ambler plant eliminates the substantial cost of waste removal. Plant management is also able to produce a higher fibre concentration by using less "raw materials" —fewer asbestos fibres in the initial formulation are supplemented by those from reclaim, providing as high or higher a concentration at lower basic purchase cost. No firm figures could be made available. However, CertainTeed has a firm two-year payout policy into which such equipment must fit.

A CHALLENGE
TO TIME . . . . .



The Needles,
Isle of Wight,
England

HARDMANS
NEEDLE REINFORCED
FELTS

This noteworthy landmark on the English southern coastline has withstood the ravages of time and tide for countless ages. Likewise Hardmans Needle Reinforced Felts challenge time, as does this monument of nature, in the manufacture of Pipes and Sheets.

Manufacturers and Patentees
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The Evolution of the Denovan Grading Hoods System (Patented)

By: R. A. Denovan, President of Denovan Limited

In the conventional asbestos milling system, the fibre is released and collected in a series of stages. That is, the longer staple grades are taken off first, followed by progressively shorter staple grades. This primary splitting *into fractions forms the basis of the final commercial grades,* that is, the most effective grading results from a minimum of mixing and separating longer and shorter staple lengths.

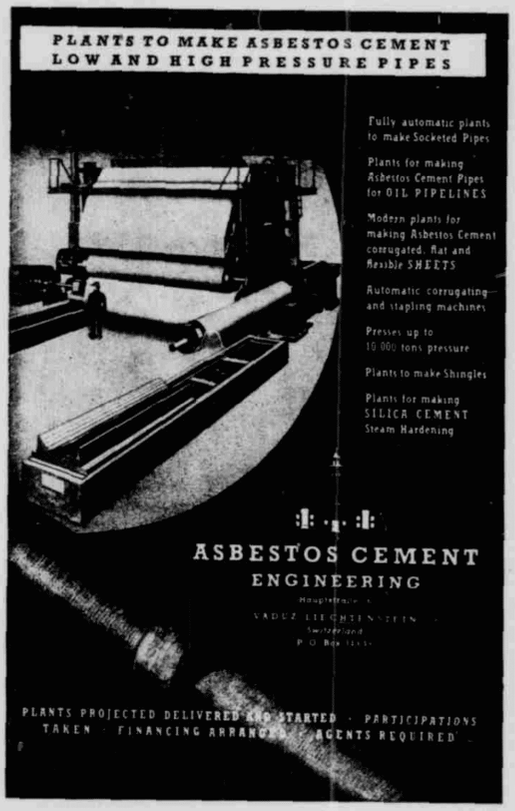
The approved method for recovering the fibre is screening over relatively coarse mesh for longer grades and finer mesh for shorter grades to further differentiate the fractions, and removing the fibre by a suction hood placed near *the discharge end of the screen.*

These hoods, in many cases, have adjustable flaps which add to the efficiency of the aspiration. *In some cases* the flaps, instead of being continuous over the breadth of the hood, are a series of short flaps and are used for selective aspiration. That is, part of the fibre is allowed to pass the hood and be further processed.

The Denovan grading screen system is a development of this selective aspiration but it uses two hoods. The conventional hood at the end of the screen to collect all the fibre that comes to it, and a second hood placed a short distance further up the screen. This second hood is fitted with a number of gates forming the approach edge of the hood. When these gates are opened, no fibre is picked up by this hood. (All goes to the end hood.) If some part of the fibre is to be collected, the appropriate gates are closed. The residual fibre is picked up by the hood at the end of the screen.

This second hood is piped either to the stage above or to the stage below in the flow sheet. If piped to the upper stage, the fibre it picks up is used to reduce the higher grade. If it is piped to the stage below, it will be used to raise the lower grade.

Whether it is piped up or down depends on the grading technique in use or the type preferred.



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In any case, it supplies a very convenient and practical method for obtaining an increase in grading facility in the screening process.

K&M KOLORMATE—Currently being constructed are 85 toll booths which will be used at the 1964-1965 New York World's Fair which opened April 22nd, 1964. Covering the countertops of all 85 of these steel booths is a rugged asbestos-cement sheet called K&M KolorMate, manufactured by *Nicolet Industries, Inc.*, of Florham Park, New Jersey. The David Asbestos Company, Brooklyn, New York, fabricator for this project, recommended 3/4" KolorMate Sheet for this job as this highly compressed asbestos-cement sheet is extremely resistant to all kinds of abrasive effect including the sort these countertops will be exposed to for two years at the World's Fair.

NICOLET K&M DIVISION—The Keasbey & Mattison Company Division of Nicolet Industries, Inc. (Ambler, Pennsylvania, producer of asbestos products for industry) has been merged into the parent company, effective April 1st, 1964. According to Guy G. Gabrielson, Jr., President of Nicolet, "the move is designed to provide customers with the full benefit of the combined resources of both companies —mining, manufacturing, research, product development and sales service". Mr. Gabrielson indicated the company will intensify its development and sales activities on all K&M product lines—asbestos sheet packings, monolithic asbestos cement materials, asbestos papers and asbestos millboard.

Executive and marketing headquarters are now located at the Nicolet home office and research center, Florham Park, New Jersey. Sales service facilities are located at the company's plants in Ambler, Pennsylvania; Norristown, Pennsylvania; and Hamilton, Ohio.

CANADIAN ASBESTOS



THE NICOLET ASBESTOS MINE
Norbestos (via Warwick)
Que.

Address Inquiries to:

NICOLET INDUSTRIES, INC.

ASBESTOS FIBRE DIVISION

Nicolet Avenue

Florham Park*, New Jersey

*Suburb of New York City.

NORAMITE ASBESTOS MATS

New methods of processing amosite and crocidolite asbestos fibres in mat form readily utilized for plastics reinforcement are now introduced by *Cape Insulation and Asbestos Products Limited*, chief producers of these asbestos fibres and with unrivalled experience of their properties.

Noramite asbestos mats are specially selected grades of amosite (fawn) and crocidolite (blue) asbestos fibres, carded into mat form and bonded with polyester or phenolic resin to give handling strength.

For the first time the well known characteristics of heat resistance, high tensile strength and high resistance to corrosive attack, inherent in amosite and blue asbestos fibres, can be employed in the whole range of plastics reinforcement.

Noramite mats made from amosite or crocidolite fibres are supplied in 42 inch wide rolls of either ½ oz/ft² or 1 oz/ft² density. Showing excellent strength characteristics and resistance to hot and cold corrosive attack, they are particularly suitable for the lining of storage tanks, pickling and plating tanks and pipework. Fume extraction equipment can be fabricated from both types of mat.

The company is developing the use of Noramite mats constantly and comprehensive information and photographs are available on request.

Cape Insulation and Asbestos Products is a member of *The Cape Asbestos Group* of Companies.

FLINTITE PLANT—The new $10-million Flintite asbestos-cement pipe plant at Ravenna, Ohio, was officially dedicated on April 30th, 1964. Built by The Flintkote Company and operated by its Orangeburg Manufacturing Company Division, the plant is the most modern and advanced asbestos-cement pipe plant in the world. The dedication of the new plant has been timed to coincide with local ceremonies of the State of Ohio's Industry Appreciation Month. The dedication will include tours through the plant's modern manufacturing facilities and demonstrations of how the pipe is assembled and installed.

The **R. C. M. Company** - *known all over the world as a Firm highly specialized in the manufacture of equipments for the production of asbestos-cement pipes and sheets - make available their own experience for the solution of the following problems*

- *dust elimination in asbestos departments*
- *pneumatic transport and ensilage of cement*
- *automatic preparation of asbestos mix*
- *hydrodesintegration of asbestos with patented process*
- *automatic preparation of slurry with turbomixer*
- *centralized recording of asbestos and cement weighings*
- *pipe curing by means of roller conveyor*
- *automatic sheet corrugation and quick maturing of them*
- *modernization of pipe machines with two forced feeded sieve cylinders.*

R. C. M.

85, Corso Pietro Colletta - TORINO (Italy) - P. O. Box 468

Cable Address: Erciem Torino - Phone: 233823/4/5 - 284837 - 284797

ASBESTOS CORPORATION LIMITED—Despite currently keen competition and unstable prices in the asbestos mining industry, long-range prospects are bright, A. L. Penhale, President of Asbestos Corporation Limited, declared at the company's annual shareholders' meeting held April 24th, 1964. "This is also true for our company, strengthened as it is by the recent acquisition of the Johnson's properties and by the rich Asbestos Hill orebody in Ungava." As a result of the current merger, substantial Canadian ownership of the asbestos mining industry will be maintained. Asbestos Corporation shareholders were also told that at the Asbestos Hill orebody in northern Ungava between 15,000,000 and 20,000,000 tons of high-grade asbestos ore had been proved and that plans are underway for the eventual construction of a plant capable of producing some 100,000 tons of asbestos fibre annually. Plans for the necessary ancillary facilities such as a townsite, roads, air-strips and a deep-water port have also been prepared. It is expected that the Asbestos Hill project will gradually create hundreds of new jobs and will materially contribute to the economic development of Northern Quebec.

The following six senior appointments were announced at the annual shareholders' meeting. *G. F. Jenkins*, a Director of the company and formerly General Manager, becomes Senior Vice President. *W. W. Oughtred*, formerly Assistant General Manager, is named Vice President and General Manager. Newly-created vice-presidential posts are now occupied by four men. *C. H. McNaughton*—Vice President, Production; *I. C. Campbell*—Vice President and Secretary-Treasurer; *J. W. McCarvill*—Vice President, Administration; and, *M. P. Carson*—Vice President, Sales. All of these officers have been with the company for a number of years.

Cough too much? Short of breath? See Your Doctor!
Don't take chances with a Respiratory Disease.



Whatever you manufacture—fire blankets, dryer felts, insulations, curtains, filter cloths, clothing—there's a J-M Asbestos Cloth in a style and texture that's exactly right for the job. They are produced by skilled artisans who, using modern equipment, maintain complete control from mine to finished textile. These products reflect the thoroughness and quality associated with the Johns-Manville name for more than 100 years. Today, there are three convenient plant locations including our newest, in Marshville, N. C. For full details and specification data on all styles and textures, send for our 16-page illustrated brochure, TX-17A. Write to Johns-Manville, Box 359, New York, N. Y. 10016. In Canada: Port Credit, Ontario. Cable: Johnmanvil.

JOHNS-MANVILLE JM ASBESTOS TEXTILES

AUTOMOBILE SALES

	February 1964
Passenger Cars	681,072
Motor Trucks &Buses	133,052
	814,124

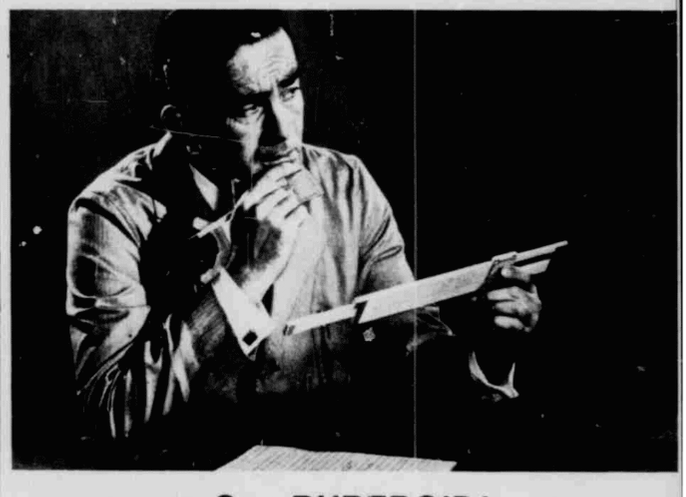
In February 1963 a total of 723,669 motor vehicles were sold. In the two months of 1964 the total was 1,673,738. These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

CANADIAN JOHNS-MANVILLE CO. LTD's Jeffrey Mine and Fibre Processing Plant has been declared the winner of the *Lynn-Macleod Safety Trophy* for 1963 by W. J. Johnson, Chairman of the Safety Committee of the Quebec Asbestos Mining Association. This challenge trophy is awarded in an annual competition among the member companies of QAMA to the Mine and Mill with the best record in respect to reportable accident cases. The trophy was donated a few years ago by Lynn, Macleod Engineering Supplies Limited in a sincere endeavor to focus attention on the great importance of safety in one's daily work.

In addition to the enviable record of Canadian J-M, it is to be noted that Johnson's Asbestos Company and National Asbestos Mines Limited had both an accident-free year, or a perfect safety record for 1963.

C. STANLEY manufacturers since 1906
MORGAN WOOL FELT-ASBESTOS
PIPE COVERINGS
1124 OAKMAN BOULEVARD — DETROIT 38, MICHIGAN

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Remember too, Ruberoid has a complete line of chrysotile fibres for these uses: electrolytic cells, compressed sheets, brake linings, gaskets, plastics, shingle stock, asbestos papers, insulation cements, and floor tile.

Asbestos problems? Just call Ruberoid

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BUILDING

According to F. W. Dodge Company, a division of McGraw-Hill, Inc., the value of construction contracts in the United States during March 1964 (with percentage changes from March 1963) totalled $4,214,544,000, up 18%: nonresidential building, $1,251,564,000, up 9%; residential building, $1,990,830,000, up 21%; and, nonbuilding construction, $972,150,000, up 22%.

Contract totals are continuing to show very large percentage gains over year-ago levels. However, on a more current basis, the seasonally adjusted totals for the first three months of 1964 have shown a modest but steady decline from the all-time peak reached last December. Total contracts for the first three months of this year amounted to $10,724,965,000, up 16% compared to the like 1963 period.

MERWIN M. BRANDON, 43 year veteran in testing for public safety, has retired as President of *Underwriters' Laboratories, Inc.* At a dinner in Mr. Brandon's honor, Executive Vice-President Baron Whitaker cited the many changes instigated by Mr. Brandon in his efforts to make Underwriters' Laboratories a finer place to work for and with, and to continue its service to American Industry and the American Public.

ARTHUR W. KNIGHT, since retiring from Johns-Manville in 1957 after 43 years of service, has maintained some contact with the asbestos business through association with Thorpe Insulation Company, and later with Asbestos Products and Fabricators Company, both of Los Angeles, and both companies representing Johns-Manville in separate fields. Mr. Knight is still doing consulting work for the latter company, and last month completed 50 years of association with J-M through this relationship.

In all these countries, it's
"WAMBESCO"
for fast service in
asbestos
fibres

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Gold Bond
ASBESTOS FIBRES

MARKET CONDITIONS

GENERAL BUSINESS.

General business continues good. The slow but steady growth in the Federal Reserve Board's figures on industrial production, while not indicating a booming economy, it, nevertheless, is encouraging. Production and sales of steel and automobiles continue to increase, and, as an indication of the broadening of activity, much of the increase in steel sales is for users other than the automotive industry. Signs are that the tax cut is resulting in increased spending by consumers and by industry for capital expansion. While profits, as a percentage of sales, are lower than those normally associated with a period of great prosperity, many corporate reports of first quarter earnings show net profits at all-time record levels. At this writing there is nothing to indicate a downswing in the general economy in the near future.

ASBESTOS—RAW MATERIAL.

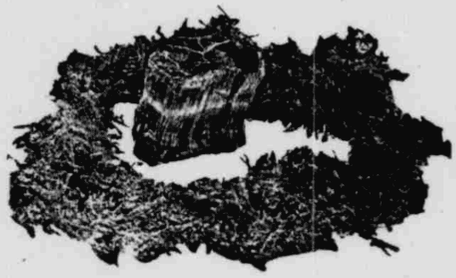
Quebec asbestos fibre shipments for the Industry during March 1964 were 75,358 tons, an increase of 8,138 tons or 12% over the same period last year.

Year to date shipments at 209,964 tons are running 29,208 tons, or approximately 16% ahead of the same period last year.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. Sales for the first quarter of 1964 were the highest recorded for the same period in more than a decade. New orders continue at a high level and price stability is evident throughout the industry. With the high rate of productivity continuing in all major industries, there is every reason to believe that the Asbestos Textile Industry is in a most favored position to exceed the average rate of growth of manufacturing industries of the country in 1964.

Australian Blue Asbestos Limited



Australian Blue is an ideal fibre for asbestos cement and for purposes requiring good heat insulation and acid resistance. It has excellent spinning properties. Samples available on request.

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Algeria, Belgium, Bulgaria, Canada, Denmark, France, Egypt, Eire, Finland, Great Britain, Greece, Holland, India, Iran, Iraq, Italy, Kuwait, Lebanon, Liechtenstein, Morocco, Nigeria, Norway, Pakistan, Portugal, Rumania, Spain, Sweden, Switzerland, Tunisia, Turkey, Uganda, Uruguay, Viet-nam, West Indies.

Huxley Development Corporation, Time & Life Building, New York.

United States of America, Yugoslavia.

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

CSR

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Asbestos Brake Lining. The present demand for this material is slightly greater than this time last year and this trend should continue during the rest of the year.

High Pressure Insulation. The market situation is very competitive, and there is a good volume of business for this material. The outlook for the coming months is good.

Low Pressure Insulation. Volume of business is currently running at a slow pace but should pick up in the near future.

Asbestos Cement Shingles—Roofing & Siding. Use of these products is seasonally increasing. Volume of orders is higher than this time last year and should be very good during 1964 due to increased modernization activity.

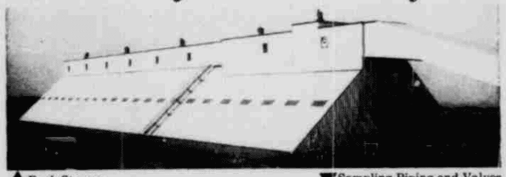
Asbestos Cement Pipes. This market continues to be strong and should show very good results for the first half of this year. Current indications are that demand during the last half of 1964 will be good but not quite reach the proportions of the first six months.

Asbestos Filter Fibre. The market situation for asbestos filter fibre is steady and markets for low iron acid washed filter fiber is improving. Demand is expected to increase for the balance of the year in the precoat and acid washed filter fiber market.

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

AUTOMOBILE FACTS & FIGURES is a statistical reference book published annually by the *Automobile Manufacturers Association*, 320 New Center Building, Detroit, Michigan 48202. The 43rd edition (1964) of this 72-page factbook, featuring 12 new sections, is now available.

Quality controlled asbestos from ore to fibre



▲ Rock Storage ▼ Sampling Piping and Valves



This 24,000 ton capacity rock storage building provides for blending of ore from various sections of the Carey-Canadian open pit mine—the first step toward assuring customers of constant uniformity of asbestos fibres and shorts.

Solenoid actuated valves controlled from the Quality Control Laboratory periodically draw samples of fibre and shorts from mill production. Continuous testing of samples insures the quality and uniformity associated with Carey-Canadian Asbestos Fibre and Shorts.

Carey-Canadian "quality controlled asbestos" may solve some of your operating problems. The assistance of factory trained Asbestos Fibre Sales Engineers may be obtained by writing any address below:

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The Philip Carey Co., Ltd., Ville St. Laurent, Montreal 9, P. Q.

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PRODUCTION

Canada—The Dominion Bureau of Statistics has issued the following for the month of January 1964 in short tons: Producer's Shipments totalled 77,887 (Quebec—70,454 and Newfoundland, Ontario, British Columbia—7,433). Total shipments for January 1963 were 64,016.

Southern Rhodesia—The Ministry of Mines, Salisbury, has issued the following statistics on asbestos: January 1964—Production 12,083.60 tons, valued at £560,655.17.10; and, February 1964—Production 12,359.97 tons, valued at £585,083 13.07.

Asbestos-Cement Sales Limited—Three-hundred tons of asbestos-cement pipes have recently been shipped on the Holland America vessel "Merwe Lloyd" to the United States. This is the second order sent by Asbestos-Cement Sales Limited (the export organization of Everite Limited). The pipes in this order vary from three inches to twelve inches in diameter and are manufactured at Everite's factory at Brakenfeld in the Cape. Fabrication complies in every respect with the specifications of the American market. The Everite factory is listed and approved by the Underwriters' Laboratories, Inc., in America, to certify that they comply with the rigid requirements during each production and testing stage. The Underwriters have appointed a South African representative to supervise the inspection and testing of all future orders.

Correction—Referring to the item concerning Merencor's processing plant (April 1964 "ASBESTOS", page 46) the statement that "an extension to the cobbing plant is now being built" is incorrect. The cobbing plant is completed and the actual mill is under construction.

The Directors of Merencor Asbestos Mines (Pty.) Limited are: A. G. Douglas, E. G. Blohm and J. von Bulow.

"Tropag"

Hamburg —:— Ballindamm 6

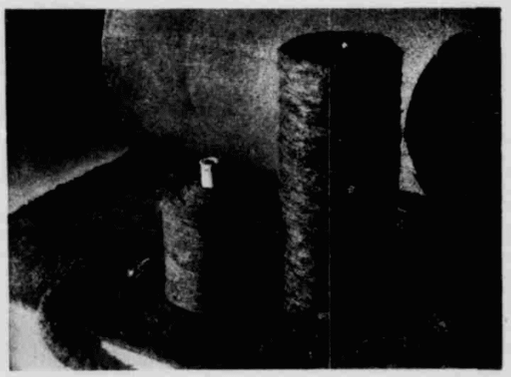
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NORAMITE

... 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.



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NORTH AMERICAN ASBESTOS CORPORATION
Board of Trade Building • Chicago 4, Illinois

CAPE

In Canada
CAPE ASBESTOS (CANADA) LIMITED
3313 Bloor Street West • Toronto 18, Ontario • Canada

Subsidiaries of The Cape Asbestos Company, Ltd., London

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THE HEAT RESISTANCE

of J-M Asbestos Fibre can put your product in the high-temperature zone



Many industries have found asbestos fibre a mineral filler of wide and diverse applications because of its many unique properties . . . particularly its exceptional heat resistance. A standard ingredient in many high-temperature applications... flame-proof J-M asbestos fibre resists loss of tensile strength during exposure to high temperature.

Other important properties of J-M asbestos include high tensile strength (greater than an equal thickness of ingot of wrought iron) . . . extreme fineness (a bundle of 1500 asbestos fibres is finer than one human hair) . . . and high bulking action . . . any of which can improve your product. For free literature, write to Canadian Johns-Manville Co., Ltd., Box 1500, Asbestos, P. Q., Canada, or to Johns-Manville Asbestos Fibre Sales, Research and Engineering Center, Manville, N. J.



PLASTICS such as distributor heads have greater heat resistance and dimensional stability, when made with J-M asbestos fibres.



FLOOR TILE has more strength, better processing characteristics and more "give" without cracking with J-M asbestos fibres in the formula.



ASBESTOS-CEMENT PRODUCTS are structurally stronger, more flexible and have more resistance to impact when they contain J-M asbestos.

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IMPORTS & EXPORTS

Imports Into U.S.A.

(Figures by Bureau of the Census) — January 1964

Unmanufactured Asbestos: — Short Tons

From: Canada	52,569
Republic of South Africa	5,262
Rhodesia & Nyasaland	340
Yugoslavia	891
Other Countries	165
	59,227

Valued at ... $6,277,353

By Grades:

Amosite, Crude, Republic of South Africa	2,787
Crocidolite (Blue), Crude, Republic of South Africa	2,219
Other Countries	2
Chrysotile, Crude, Canada	2,156
Yugoslavia	891
Republic of South Africa	140
Rhodesia & Nyasaland	255
Other Countries	56
Chrysotile, Spinning Fibers, Canada	907
Chrysotile, Other, Canada	46,295
Rhodesia & Nyasaland	85
Other Countries	102
Asbestos, Other, Canada	3,211
Republic of South Africa	116
Other Countries	5
	59,227

Manufactured Asbestos Goods:	Quantity (lbs.)	Value
A-C Pipes, Tubes & Fittings, Mexico	1,041,892	$ 88,873
Belgium	2,068,958	132,822
West Germany	608,963	27,971
Israel	592,408	26,795
Japan	1,575,246	80,970
Other Countries	114,047	4,817
A-C Articles, Other, Canada	348,938	18,217
Belgium	736,779	93,960
Other Countries	100	265
Asbestos Yarn, United Kingdom	28,097	21,346
Other Countries	622	529
Asbestos Articles, Other, Canada	..	16,794
Other Countries	..	24,492
		$537,851

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Using modern mining methods in our fully integrated plant at Thetford Mines, Quebec, Flintkote produces the finest custom engineered chrysotile asbestos fibres for your discriminating requirements. Always at your service to give you technical assistance, and prompt delivery.

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Thetford Mines
Province of Quebec

The Flintkote Company of Canada Ltd.
30th St., Longbranch
Toronto, Ontario

IN ENGLAND —
The Flintkote Company Ltd.
Adam House, 1 Fitzroy Square
London W-1, England

Manufacturer Of
DIVERSIFIED PRODUCTS FOR HOME AND INDUSTRY

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Imports By United Kingdom

Raw Materials

Tons 2,240 lbs.	February 1964
From: Republic of South Africa	2,548
Basutoland, Bechuanaland & Swaziland	1,170
Rhodesia & Nyasaland	3,546
Canada	1,904
Other Commonwealth Countries & Irish Republic	170
Foreign Countries	580
	9,918

U.A.M. Annual Report—The Universal Asbestos Manufacturing Company Limited has issued its 27th Annual Report and Accounts for the period October 1st, 1962 to September 29th, 1963. Profit of the Group after taxation amounted to £208,903 compared to £286,166 for the previous 52 week period.

National Gypsum 1963 Annual Report—Net sales in 1963 for the National Gypsum Company were $250,307,450, 8.4% above the 1962 figure of $230,814,035. Net earnings were $22,501,256 compared with $21,655,087.

The company's research scientists are probing the essential characteristics of its basic raw materials — asbestos, gypsum, prophyllite, limestone and cement rock — in an effort to develop new uses for them. Five new plants were added to National Gypsum's growing number of production facilities in 1963.

Cape Asbestos 1963 Annual Report—The net profit of The Cape Asbestos Group of Companies in 1963, before taxation, amounted to £1,648,347 compared with £1,283,793 in 1962. In reviewing the year, Chairman R. H. Dent said that from midsummer onwards, the demand for the Group's products showed a marked improvement in almost all sectors. By the end of the year, sales from the United Kingdom subsidiaries showed an increase of slightly more than 10% over 1962, while sales from overseas sources also increased. Once again virtually the total output of the mines, both Blue and Amosite, was sold during the year, and contracts have been entered into for the sale of the whole of the estimated production of 1964.

BURGDORF K.G.
Importer of Raw Asbestos
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That special combination of properties you need . . . Lake may have it!

What are your requirements? Chrysotile asbestos with high reinforcing strength plus superior wetting characteristics? Greater surface area plus low grit content? Whatever the combination, Lake may have exactly what's needed.

As a major producer with an annual capacity of 100,000 tons of high grade chrysotile asbestos fibre, we daily fill the special needs of customers throughout the world.

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NORTH AMERICAN SALES AGENTS:

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California, San Francisco — E.M. Walls Company
Colorado, Denver — Braun-Knecht-Heimann Co.
Illinois, Chicago — Fred A. Jensen & Associates, Inc.
Massachusetts, Allston — D. H. Litter & Co., Inc.
Michigan, Detroit — Baker & Collinson
Missouri, St. Louis — Harry A. Baumstark & Company
New York, Buffalo — Buffalo Solvents & Chemicals Corp.
New York, New York — D. H. Litter & Co., Inc.
Ohio, Cleveland — A. C. Mueller Co., Inc.
Oregon, Portland — Van Waters & Rogers, Inc.
Pennsylvania, Conshohocken — Van Horn, Metz & Co., Inc.
Texas, Houston — Cron Chemical Corp.
Utah, Salt Lake City — Braun-Knecht-Heimann Co.
Washington, Seattle — Van Waters & Rogers, Inc.
In Canada: Toronto & Montreal — Federated Metals Canada, Ltd.

Lake Asbestos of Quebec, Ltd., is a subsidiary of
AMERICAN SMELTING AND REFINING COMPANY

LAKE ASBESTOS

ASARCO

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Exports From Canada

(Published by Dominion Bureau of Statistics) — Short Tons

Unmanufactured Asbestos:	January 1964	February 1964
Crude		
United States	3	2
United Kingdom	..	..
South America	..	..
Central America & Mexico	..	..
Europe	2	..
Japan	..	..
Other Countries	..	..
	5	2
Milled		
United States	16,275	14,357
United Kingdom	2,578	740
South America	3,192	172
Central America & Mexico	1,292	1,237
Europe	14,828	2,083
Japan	3,941	635
Other Countries	4,509	1,542
	46,615	20,766
Shorts		
United States	33,001	36,134
United Kingdom	5,005	493
South America	1,149	15
Central America & Mexico	315	160
Europe	13,065	710
Japan	5,161	1,425
Other Countries	1,119	325
	58,815	39,262
Grand Total — Unmanufactured Asbestos:	105,435	60,030
Total Crude valued at:	$ 4,180	$ 3,020
Total Milled valued at:	8,473,577	4,002,589
Total Shorts valued at:	3,372,384	2,237,093
	$11,850,141	$6,242,612
Manufactured Asbestos Goods:		
Brake Linings Facings	$ 16,789	$ 21,407
A-C Building Materials	40,971	30,222
A-C Products—Other	28,827	17,181
	$ 86,587	$ 68,810

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Sole Agents in the United Kingdom:-

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ELASTIC AND UNIFORM HIGH PRESSURE process

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Most uniform and highest density.
Best water proofness.
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Minimum of breakage in transport and service.
High frost resistance.
All characteristics never reached until now.
Our information department ready for you.

NEW SIMPLICITY D'CENTEGRATOR



Produces longer fibres with fewer fines

On-the-job performance has proved that the new Simplicity D'centegrator will produce longer fibres. The horizontal impeller action fibrizes so thoroughly that the longer fibres are not "dirtied." Tests to date also indicate a higher recovery rate and a lower percent of fines. Basic design permits lower initial cost and exceptionally low maintenance costs.

Model 24-A has 12 fibrizing bars and will take up to 60 t.p.h. of 2" cubical feed. Simplicity D'centegrators are now producing higher profits for mills in the U.S., Canada and South Africa. Write or call for literature and your own test at our plant.

312

OTHER MINING INDUSTRY EQUIPMENT: vibrating screens, feeders, grizzly feeders, scalpers, crushers, conveyors.

Simplicity
ENGINEERING COMPANY • Durand 18, Mich.

CANADA: Simplicity Materials Handling Ltd., Guelph, Ont.
EXPORT: Brown & Sites, 50 Church St., New York 7, N.Y.

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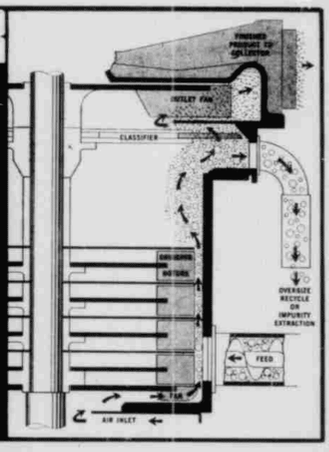
INDUSTRY NEWS

HAPPY BIRTHDAY

John L. Anderson, President, Asbestos Products, Inc., St. Paul, Minnesota, May 15.
R. M. Bateman, Deputy Chairman & Joint Managing Director, Turner & Newall Limited, Manchester, England, May 15.
W. Vermeer, Jr., Managing Director, Chemische Productenhandel J. J. van de Vrande, Haarlem, The Netherlands, May 16.
Warren Darrell, Vice President—Manufacturing, Nicolet Industries, Inc., Florham Park, New Jersey, May 18.
John J. Dempsey, President, Armor Products, Inc., New York City, May 18.
Norman L. Barr, Vice President—Marketing and member of the Board, Atlas Asbestos Company Limited, Montreal, Canada, May 19.
Robert A. Schneider, Chief Engineer, Pipe Division, Certain-Teed Products Corporation, Ambler, Pennsylvania, May 21.
William J. Van Akin, Vice President—Manufacture, The Ruberoid Co., New York City, May 23.
Charles J. Clark, Vice President, Asbestos & Magnesia Materials Company, Chicago, Illinois, May 25.
Geo. V. Hamilton, President, Geo. V. Hamilton, Inc., McKees Rocks, Pennsylvania, May 26.
Paul A. Benke, Vice President & General Manager, Thermoid Division, H. K. Porter Co., Inc., Pittsburgh, Pennsylvania, May 27.
A. J. McMullen, President, Garlock, Inc., Palmyra, New York, May 27.
J. H. Mooney, Vice President, Johnson's Company Limited, Thetford Mines, Canada, May 27.
Giles Fendall Newton, Honorary President, The Cape Asbestos Company Limited, London, England, May 27.
Edward G. Koch, Vice President, Orangeburg Division, The Flintkote Company, New York City, May 28.
Fred A. Wagner, Treasurer, National Gypsum Company, Buffalo, New York, May 30.
George A. Gelish, President, Port Asbestos Insulation Company, Brooklyn, New York, June 1.
Bert I. Bertelsen, President, Drycor Felt Company, Staffordville, Connecticut, June 3.
Walter H. O'Connell, Vice-President—Manufacturing, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, June 6.
Manley Alsaker, Vice President, Kelley Asbestos Products Company, Omaha, Nebraska, June 9.
Herbert Morton Ball, Secretary & General Attorney, Johns-Manville Corporation, New York City, June 9.

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Space Saving 2-in-1 Hurricane Pulverizer-Classifier



Extracts Impurities—
Product Quality Up! Grinding Cost Down!

Heavy duty, high capacity air attrition mill. Designed for sub-sieve processing of asbestos, filler clays, technical ceramics, rare earth oxides, pigments and other friables. Provides particle reduction to any desired average size from 150 microns to less than one micron. Plus extraction of such impurities as silica, sand, mica, iron, etc.

Ask for our help on processing problems. Remember, we supply a wide range of crushers, hammer mills and attrition mills for preliminary size reduction. Send for literature.

The Bauer Bros. Co. Springfield, Ohio

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Walter Fenn, Director in Charge of Contract Department, Atlantic Asbestos Corporation, New York City, June 12.
G. S. Sutcliffe, Joint Managing Director, Turner & Newall Limited, Manchester, England, June 12.

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

American Brake Shoe First Quarter 1964—Shipments of American Brake Shoe Company in the first quarter of 1964 amounted to $58,088,851, 13% above the first quarter 1963 figure of $51,283,312. Net earnings rose 77% to $2,250,811, from $1,270,324.

Asarco First Quarter 1964—American Smelting and Refining Company had net earnings of $8,761,300 for the first three months of 1964 which compares with the 1963 first quarter figure of $7,184,000. The overall increase in business activity has been reflected in strong markets for all the company's major metals.

Philip Carey First Quarter 1964—Net earnings of The Philip Carey Manufacturing Company and subsidiaries for the first three months of 1964 were $280,868 compared with a net loss of $656,985 for the same months of 1963. Sales amounted to $14,568,903, compared with $12,018,754, an increase of 21%.

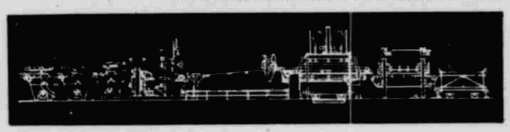
Flintkote First Quarter 1964—The Flintkote Company reported that first quarter sales and earnings for 1964 were at a near record high (largest first quarter dollar amounts of sales and earnings since 1959). Net sales totaled $57,935,065, 12% ahead of $51,675,843 a year earlier. Net income was $1,693,217 compared with $382,900.

National Gypsum First Quarter 1964—A 44.5% increase in earnings on record first quarter sales was reported for 1964 by National Gypsum Company. Net earnings were $3,828,000 compared with $2,650,000 for the first quarter 1963. Sales climbed 15.5% over last year's $45,950,000 to a first quarter record of $53,052,000.

Ruberoid First Quarter 1964—Increased home building, an improvement in its floor tile activities and further economies in operations, contributed to higher sales and earnings for The Ruberoid Co. in the first quarter of 1964 over the same period last year. Net sales totaled $25,240,121 compared with $21,118,818. Net income was $606,425, compared to net loss of $199,382.

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Machinery for the asbestos - cement industry is the result of more than a man's age of experience in the development, construction and erection of machines for asbestos-cement.



More than 50 asbestos-cement plants all over the world are successfully producing:

pressure pipes
socket pipes
flat sheets
corrugated sheets
shingles **on machines of**

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NMA

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NORDISKA MASKINFILT AKTIEBOLAGET
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Frederick K. Sweeney has been elected a Director of THE RUBEROID CO. to fill an existing vacancy. He joined Ruberoid in 1938, was elected a Vice President in 1958 and is presently Vice President and General Manager of Ruberoid's Building and Industrial Products Division.

Barton K. Wickstrum has been elected a Director of THE RUBEROID CO. to fill an existing vacancy. He is President of General Time Corporation and has held this position since 1962.

The Ruberoid Co. has announced a major realignment of its Advertising Department, according to R. A. White, Director of Advertising and Sales Promotion: HAROLD LUNDBY has been appointed Advertising Manager replacing R. G. McCOY who has retired after 41 years of service; SEYMOUR ZELNICK has been appointed Sales Promotion Manager; and, MRS. SUSANNE SERVIN has been appointed Assistant to Mr. White.

Robert C. Hunter has been named as Chief Installation Instructor for Flintite asbestos-cement pipe by ORANGEBURG MANUFACTURING COMPANY, a division of The Flintkote Company. Mr. Hunter's function will be to train contractors and inspectors in the proper installation of Flintite pipe and to assist Flintite sales engineers in field installation methods, including handling, machining, cutting and the proper use of tools.

Thomas A. Harper has been appointed Midwest Area Representative for the NORTH AMERICAN ASBESTOS CORPORATION and will be located in Chicago, Illinois, at NAAC headquarters. Mr. Harper has had more than 20 years experience in the sales of asbestos materials and other industrial products. He was for a number of years associated with Keasbey & Mattison Company as Manager of its Chicago Industrial Products Division, supervising a sales force covering a 23-state territory.

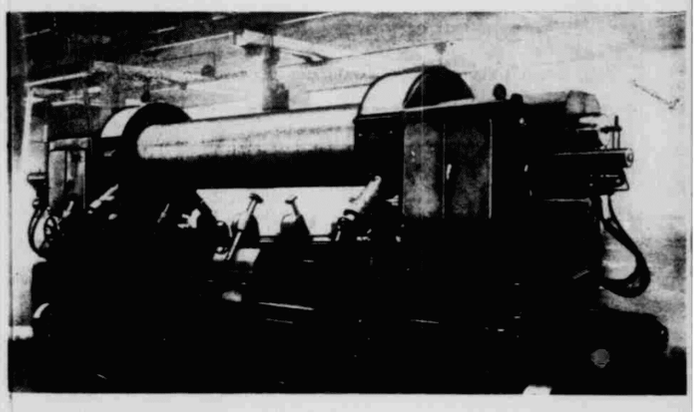
J. W. Bartlett has been appointed as Division Vice President for THE PHILIP CAREY MANUFACURING COMPANY's Eastern Division comprised of Boston, New York and Washington Districts. This assignment is in addition to his present responsibilities as Division Vice President for Carey's Midwest Division. He will continue to headquarter at the company's offices in Chicago (Bellwood), Illinois, until about June 1st, 1964, after which time he will be located at Carey's General Offices in Cincinnati, Ohio.

J.M.VOITH A.G.

one of the oldest manufacturers of asbestos-cement machinery are proud to have at their disposal a team of first-class engineers and technicians who are continually engaged in the development, design and construction of the complete machinery for the production and testing of all kinds of asbestos-cement sheets and pipes.

Our engineering staff shun no effort to promote an increasing economy of manufacturing operations in the asbestos-cement industry by continually improving the design of the individual machines and by making their operation largely automatic.

We invite you to avail yourself of the experience of our staff of expert engineers and highly-skilled craftsmen!



Full-automatic pipe turning lathe IIIh turning a pipe of nom. width 800 on the workshop test bench

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CANADA

Producers of

Raw Asbestos Crudes

& Fibres

Sales Representatives

for

Cassiar Asbestos Corporation Limited

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Melvin F. Cerruti and **Colon Brown** have been elected as Directors of NATIONAL GYPSUM COMPANY to fill the vacancies on the Board of Directors created by the decision of two present directors to retire and not run for re-election: **Elmer E. Finck** and **Paul H. Townsend.**

Mr. Cerruti joined National Gypsum in 1928 as a General Line Salesman in Boston, Massachusetts; was promoted to New York City District Manager in 1936; became Eastern Division Manager in 1953; was promoted to General Sales Manager in 1956; was elected a Vice President in 1958; and, just last year was elevated to Executive Vice President.

Mr. Brown began his career with National Gypsum in 1937 at its Mobile, Alabama, plant; became Manager of that plant in 1941; served as General Manager of the company's Kansas ordnance plant during the Korean War; was named Assistant to the President in 1959; and, in 1960 became Vice President for Corporate Development.

foster

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BENJAMIN foster COMPANY
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SHEETS
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WORLD'S FIRST MANUFACTURER
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COMPANY
STAFFORDVILLE,
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CURRENT RANGE OF PRICE

As of May 10, 1964

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

No. 1 Crude	$1,410.00 to	$1,495.00
No. 2 Crude	610.00 to	875.00
Group No. 3 (Non-Ferrous Filtering & Spinning)	425.00 to	550.00
Group No. 4 (Non-Ferrous Plastic & Filtering)	385.00 to	500.00
Group No. 5 (Plastic & Filtering)	250.00 to	400.00
Group No. 7 (Refuse & Shorts)	58.00 to	90.00

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. Mine

(U.S. Dollars—converted to Canadian equivalent)

Group No. 3 (Spinning & Filtering)	$ 345.00 to	$ 402.00
Group No. 4 (Shingle Fibre)	181.00 to	320.00
Group No. 5 (Paper Fibre)	120.00 to	142.00
Group No. 6 (Waste, Stucco or Plaster)	.. to	86.00
Group No. 7 (Refuse or Shorts)	40.00 to	75.00

CASSIAR— Per Ton of 2,000 lbs., f.o.b. Vancouver, B. C.

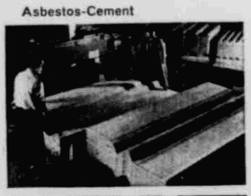
(As of January 1, 1964) Canadian Currency

AAA grade (non-ferrous spinning fibre)	$ 787.00
AA grade (non-ferrous spinning fibre)	625.00
A grade (non-ferrous spinning—Canadian Group 3)	470.00
AC grade (asbestos cement—Canadian Group 4)	325.00
AD grade (asbestos-cement—Canadian Group 4)	260.00
AK grade (shingle fibre—Canadian Group 4)	220.00
AS grade (shingle fibre—Canadian Group 4)	181.00
AX grade (shingle fibre—Canadian Group 5)	160.00

asbestos

chrysotile, crocidolite and amosite fibres for:

Asbestos-Cement



Friction Materials







Insulation Materials

Asbestos Textiles

from Britain's largest distributors

Turners Asbestos Fibres Ltd

Faulkner House, Faulkner Street, Manchester 1, England
Cables: VULBESTON, MANCHESTER Telephone: CENtral 0334
Telex: 66560 *A Turner & Newall company*

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ASBESTOS STOCK QUOTATIONS

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

		April 1964		
	Par	Low	High	Last
Advocate Mines Ltd	1	$6.35	$6.60	$6.55
American Brake Shoe	np	51½	54⅜	52½
Asarco	np	95¼	101⅜	96
Armstrong Cork (Com)	1	122	127¼	125¾
Armstrong Cork (Pfd)	np	87	89	88
Asbestos Corporation	np	18¾	20⅝	19¾
Philip Carey	10	27½	30	29
Cassiar Asbestos	np	10½	11⅞	11¼
Certain-teed	1	15⅝	18¼	15⅝
Flintkote (Com)	5	26⅛	28¾	26¾
Flintkote (Pfd)	np	87	89	89
Jefferson Lake Asbestos	1	2⅛	3⅜	2¼
Johns-Manville	5	56½	60⅜	57
National Gypsum (Com)	1	48	51⅜	50
National Gypsum (Pfd)	np	99¼	101	99½
Porter, H. K.	100	99½	101	100
Raybestos-Manhattan	np	44½	47⅞	46¼
Ruberoid	1	31¾	34⅜	31¾
Seagrave	2½	9¼	10¼	9⅝
Unarco Industries	5	13⅞	15½	13⅞
United Asbestos	1	$2.70	$3.05	$2.72
U. S. Rubber (Com)	5	50½	54¼	51⅜
U. S. Rubber (Pfd)	100	163½	165½	165

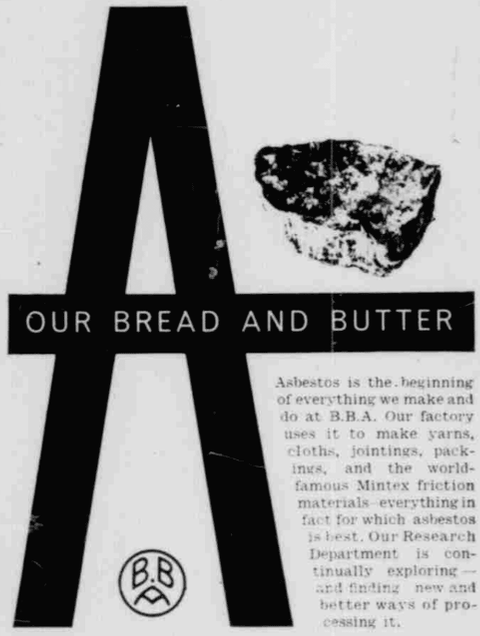
POLYREZ®

Phenolic & Cashew Resins

Cashew Dusts & Polymers

POLYREZ COMPANY, INC.

RAILROAD & SO. COLUMBIA WOODBURY, N.J.



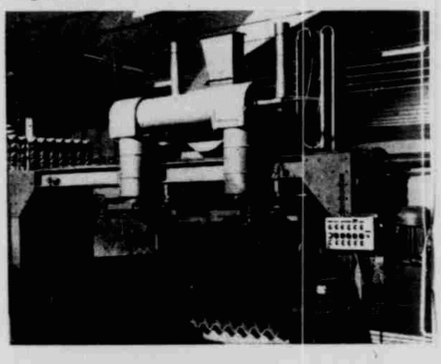
Asbestos is the beginning of everything we make and do at B.B.A. Our factory uses it to make yarns, cloths, jointings, packings, and the world-famous Mintex friction materials—everything in fact for which asbestos is best. Our Research Department is continually exploring—and finding new and better ways of processing it.

British Belting & Asbestos Ltd.

CLECKHEATON · YORKSHIRE · ENGLAND

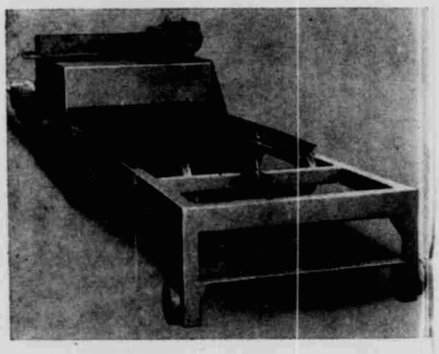
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machines for removing asbestos - cement sheets from moulds



Fully automatic machines for removing asbestos-cement flat, straight corrugated and curved corrugated sheets from their moulds.
Oleodinamyc working with fast and exact displacements.
Suckers provided with jointed anchorage for a sure drawing of the sheet.
Possibility of installation combined with the cleaning and lubricating unit.

machines for cleaning and lubricating steel moulds



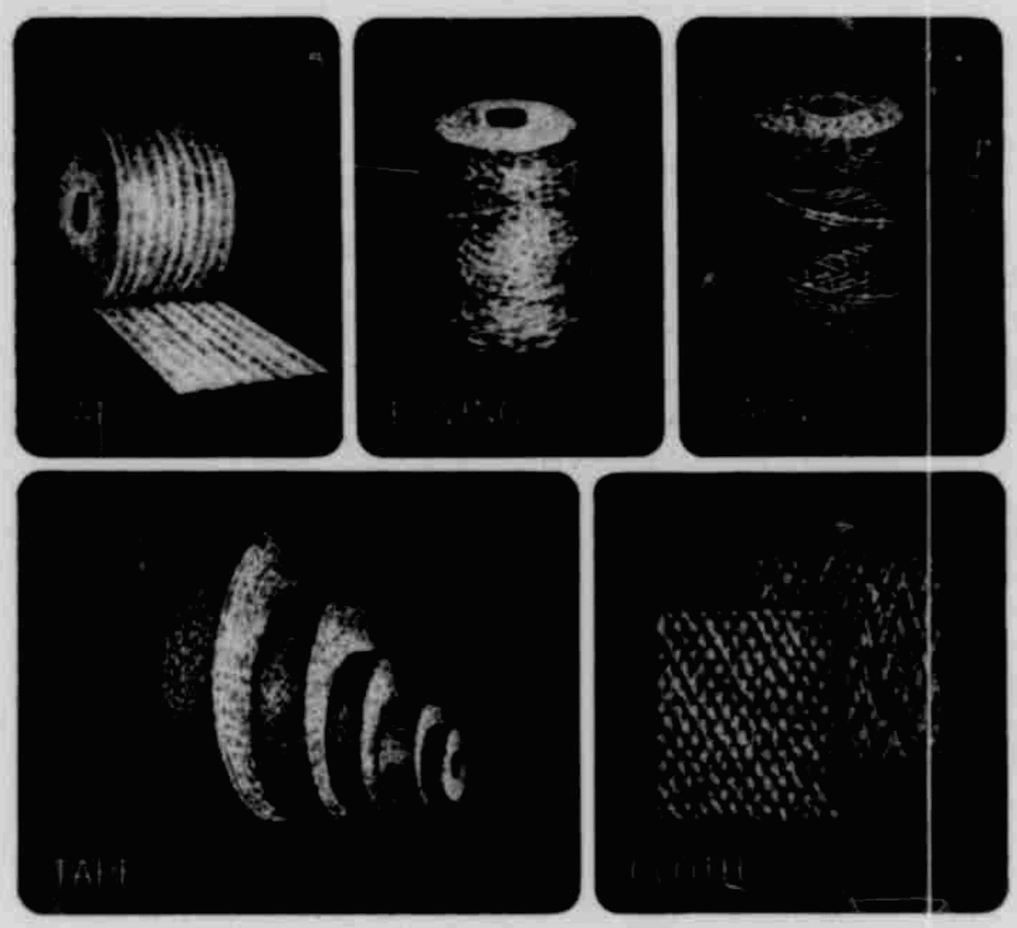
Fully automatic machines for cleaning, lubricating and storing on the proper carriages the flat or corrugated steel moulds.
Cleaning section provided with rollers having a steel wire covering, and lubricating section with special cloth rollers that assure one regular oiling and low lubricating consumption.

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VIA ROMA 27 BRONI (PAVIA) ITALIA TEL. 51024

SMITH and KANZLER CORPORATION

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Asbestos Millboard
Asbestos Rollboard
Corebestos Panel Fill
Commercial Asbestos Paper
Pipe and Block Insulation for Heat and Cold
Asbestos Felts and Paper for Saturating
Spraycraft Fireproof Acoustic Plaster

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whether it is plain or metallic cloth in herringbone or other weaves, or any of the more basic asbestos forms illustrated above, Porter Asbestos Textile products are available in all types, grades and forms.

For detailed information on any kind of asbestos textile product to meet the most exacting demands for heat, friction and acoustical problems, call or write Thermoid Division, H. K. Porter Company, Inc., 1000 Seaboard Street, Charlotte, North Carolina 28206, or Porter Building, Pittsburgh, Pa. 15219.

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