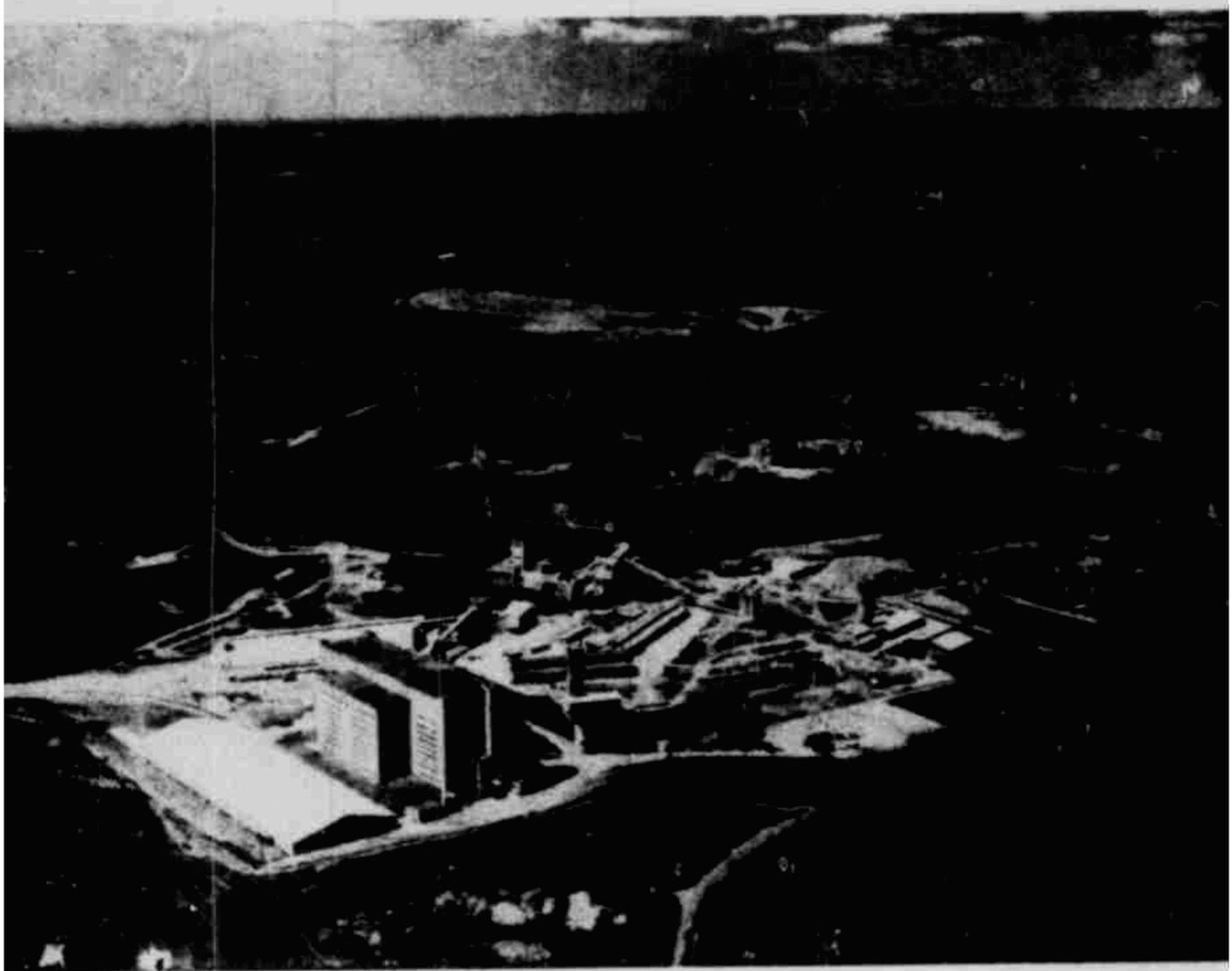
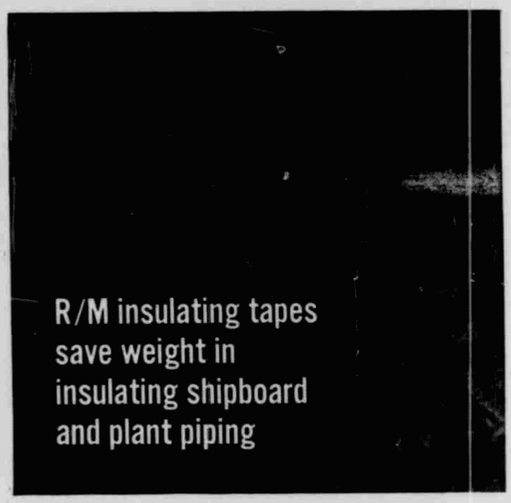
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Aerial view of Canadian Johns-Manville Company Limited properties located at Asbestos, P.Q., Canada

SEPTEMBER 1964

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History of Mining Methods At Jeffrey Mine

By: S. K. Brigham & G. A. Piche

Jeffrey Mine is located at the town of Asbestos, Quebec, Canada, 100 miles east of Montreal, in the Eastern Townships. It is interesting to note that the Jeffrey Asbestos deposit has been in continuous operation since 1881. Mining operations, at the Jeffrey Mine of Canadian Johns-Manville Company Limited, are, as you would expect, governed by the ore required by the Mill for production of tonnages and grades of asbestos fibres for which sales (or usage) is indicated. The mining (and milling) of asbestos ore is governed by a short term sales forecast—one year. However, to ensure that in future years, ore will be accessible and available for economical mining, development of the orebody must be done based on longer range forecast of fibre sales (15 to 20 years). In fact, the mining function is really two simultaneous operations of equal importance: first, mining of exposed or developed ore to meet current requirements; and second, removal of waste and overburden to expose or develop ore to permit continuity of mining operations in the foreseeable future.

With this elementary and self-evident statement in mind, I will try to explain and justify the conversion of our mining operations from open pit to underground followed by the reversal to open pit.

Initially all work was done by hand, including drilling, and black powder was used for blasting. A small hand truck running on two planks and pushed manually was the orginal system of haulage. Gradually air drilling was introduced and steam shovels were adopted for loading. In 1920, a mining system of spiral benching was initiated with direct rail haulage to the mill using steam locomotives. In 1928 to 1930, steam shovel loading gave way to electric shovels and, during the same period, haulage to the waste and tailings dump were electrified.

In 1939, the Management realized that although the mining then in effect would supply ore at the forecasted requirements for several years to come, a change in mining methods would eventually be required because:

(a) the 2% grade limitation of rail haulage resulted in a long spiral haulage on the perimeter of the pit. As



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mining proceeded to depth, it was foreseen that a large horizontal expansion would be required to accommodate the haulage way;

(b) the steam locomotives which had been purchased second-hand were an average of 40 years old and were in a condition such that a complete replacement had to be contemplated within a relatively short period;

(c) the required horizontal expansion would necessitate purchase of considerable property around the perimeter of the pit and also removal of large tonnages of waste and overburden outside of the ore zone.

With the equipment then available, difficulties were foreseen in the removal of the required quantities of overburden and waste, stabilization of pit walls and drainage control. The area under consideration was that which in the past "ran" badly and gave most difficult, if not impossible, operating conditions when stripping had been attempted. At one point, it had been necessary to dismantle a 4 cubic yard shovel piece by piece to get it out of a quicksand trap even though extra wide bearing pads were being used. The lowest valid contract bid for overburden removal at that time was double the price per cubic yard now currently paid. Waste rock necessary for the riprapping of freshly opened banks would not have been available in sufficient quantity from the regular mining operations.

The spiral mining method resulted in mining the pit to the shape of an inverted cone. As the pit deepened more and more ore would be tied up in benches which would have to be removed by some other method, the number of working faces would be reduced and costs would rise to the point that a different mining method would eventually be desirable.

The study of a long range mining development program was assigned to a Task Force of Mining and Engineering Personnel. This group investigated several possibilities and issued several reports with a final recommendation in 1944, that an underground block caving mining system be installed forthwith.

A few of the advantages of block caving were:

(a) The method was considered relatively safe.

(b) It was cheaper than the other methods under consideration.

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(c) It was inherently suitable to the Jeffrey Mine with its highly fractured ore.

(d) It had been in successful operation for several years at two other asbestos mines in the Thetford area, at a cost consistent with ore values.

(e) Once in operation, it can be carried on without further method changes.

(f) It lends itself to efficient supervision and large scale operations.

This recommendation was made after considering the following alternatives and factors:

(a) Steep grade electric haulage equipment was considered and rejected because expenditures for the equipment were not justified by the savings that would be effected.

(b) Truck haulage was investigated and rejected as being not developed to a stage of dependability.

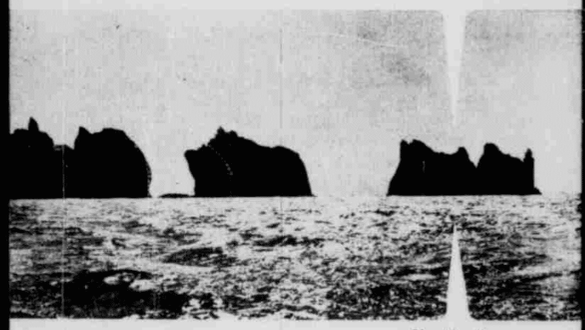
(c) Other mining methods such as glory holing, skips, etc. were investigated and rejected due to difficulties from freezing weather and large rock.

(d) Although it was considered possible to do further stripping, inherent difficulties indicated costs which would be comparable to underground mining. Indications were that, with controlled caving, many years of ore at the then rate of consumption would be available in the area already stripped.

In view of the foregoing, there seemed to be no point in delaying the beginning of underground operations. Shaft sinking was begun in late 1944. Some development ore was hoisted in 1949 with production ore beginning in 1950. The original underground layout called for an extraction method similar to the sub-level grizzly drawpoint system at Thetford Mines. This layout was changed subsequent to 1945 to incorporate loading directly into cars by 72" wide scrapers pulled by 125-horsepower slusher hoists. Mechanization of the loading permitted great flexibility of operations and production of high tonnages with very few operators.

During the 1950's, the underground mine developed into a very efficient operation. Peak was reached in 1956 with a total annual production of 3,582,000 tons. Peak daily production amounted to 15,000 tons. Total from the

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underground mine 1950-1960, amounted to about 29,000,000 tons.

Possession of the underground production facilities allowed mining of some richer sections of the orebody which would not have been available in the normal sequence of open pit mining. Without the highly mechanized underground operations, we would have been unable to mine enough ore of high quality to meet fibre demand in the peak years.

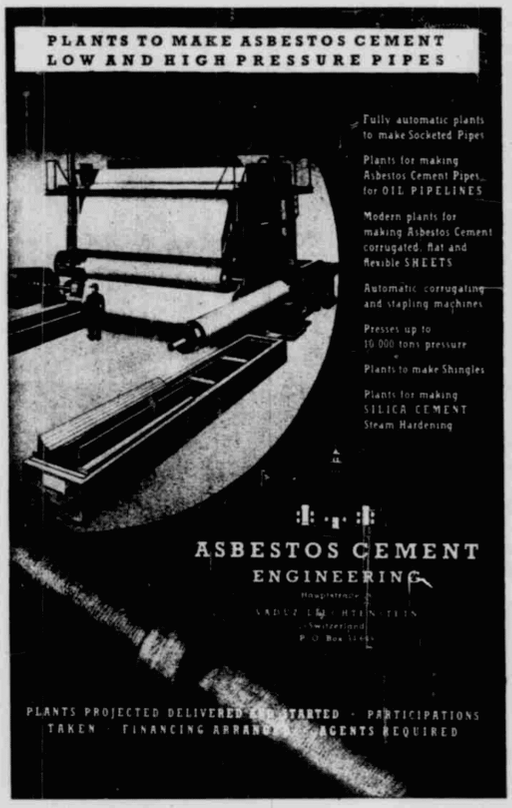
As is well known, economic conditions changed considerably during the period 1945 to 1958. So also changed the economic picture of the underground versus open pit mining. The increase in wage rates from 65¢ to $1.90 per hour increased the differential between cost of underground ore as against open pit ore due to the 5:1 man ratio between underground and open pit.

Also by 1958, there had been great improvements in all types of equipment for open pit mining, especially in the quantity and quality of equipment available for overburden removal. At this time, due to the completion of the St. Lawrence Seaway, several contractors equipped with modern earth moving equipment and experienced personnel were available and seeking other contracts. It appeared that, with these changed conditions, a cost reduction was possible by extending and expanding the open pit operations which were then on a salvage basis.

At this time, it was also apparent that subsidence from the block caving operations could not be as closely controlled as it was previously thought possible. Contamination of the fibre from overburden percolating through the caved rock was already being experienced to a limited extent. Tests indicated that this contamination would result in an increase of: from 4 to 15 points in the minus 200 mesh fines of the fibre produced.

Studies also showed that the cost to mine, dry and mill, the portion of the overburden that would be mixed with and hoisted as ore would cost 95¢ per ton at no return versus the cost of stripping overburden of about 50¢ per ton.

From these studies, it was obvious that to avoid this serious contamination and increased costs, it would become necessary to strip large quantities of overburden



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from around the perimeter of the ore zone. This stripping would be common to either open pit or underground mining methods.

Water had become a greater problem than originally anticipated. Pit ore averaged 5½% moisture content against 9½% for underground ore. This item alone represented a possible saving of 6¢ per ton of ore or about a half-million dollars a year at the present rate.

Another factor favoring a return to open pit mining was that experience in milling underground ore had shown that the fibre produced from it was of a lower quality than that produced from open pit ore. This was due to the attrition inherent in the block caving mining method, and the additional handling stages required by an underground operation. McNett tests indicated that the minus 200 mesh content of fibre produced from underground ore was 18 to 20 points higher than fibre produced from open pit ore under similar conditions.

Engineering studies made by the Jeffrey staff during 1958, indicated that it was indeed feasible and desirable to mine the open pit to a depth of 800 feet below any previously contemplated limit, increasing the ore available by open pit mining to about 185,000,000 tons on an overall waste to ore ratio of ½ to 1.

The key to achieving the additional depth of open pit mining was the use of skipways to hoist ore and waste out of the pit combined with large unit truck haulage in the pit proper. The skipways were decided upon after observation of similar installations in some of the iron and copper mines. All installations were operating satisfactorily at lower cost than truck haulage and appeared to be suitable for our purpose.

In March 1959, a proposal to expand the open pit operation to a capacity of 28,000 tons of ore a day was presented as a cost reduction project. This proposal was approved the same year.

Although overall waste to ore ratio would only be ½ to 1, in order to make ore available on the mining schedule worked out, this had to approach a 1 to 1 ratio for the first few years. In addition to the wate rock, 12 million cubic feet of overburden had to be removed in the first five years at the time the decision was made to

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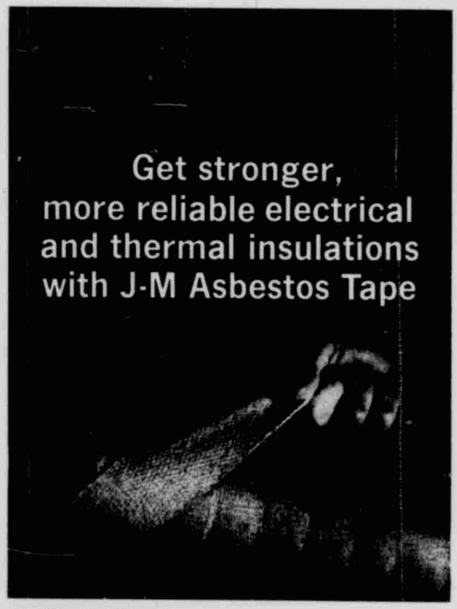
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adopt this open pit program. Also, the open pit equipment and methods were in a sorry state. From the time the underground started to supply ore in 1950, the open pit was considered a dying operation and therefore no great effort was made toward advancement in pit mining equipment and methods. It was vitally necessary then to overhaul both as quickly as possible.

To date, all our four cubic yard shovels have been replaced by six-yard units and additional ones purchased. The haulage fleet has been completely converted to 35-ton trucks from 22-ton size. Drilling equipment has been replaced by heavier and more efficient equipment. Ore is hoisted from the pit bottom in two 35-ton skips in a balanced operation. The hoisting distance is presently 560 feet inclined and the speed set at 1,000 feet per minute. The 35-ton trucks dump into either of the two bins. In this way, the trucks do not have to be in phase with the skips. The loaded skips travel up to the headframe crusher house where they are discharged into a 300-ton ore bin. The ore skipway has been in satisfactory operation for the last year and a half. Construction of a waste skipway on the opposite side of the pit is being completed. Waste will be hauled in 70-ton cars to a dump approximately 3 miles from the mine.

Looking back on the two major decisions to change the method of exploiting the orebody at Jeffrey, one is inclined to be critical of particularly the decision to develop the underground method of mining. However, if the reasoning pertaining at the time of these decisions, is reviewed in detail, the conclusions reached are: that each decision was valid at the time.

THE COVER—Aerial view of Canadian Johns-Manville Co. Ltd. properties located at Asbestos, P. Q., Canada. In the foreground, Mill 5, where more than 60 grades of chrysotile asbestos fibre are produced; center, Jeffrey open pit mine. Canada's largest asbestos mine; background, manufacturing plant, which is one of the largest in Canada devoted to the production of finished products made of asbestos for domestic and export requirements.



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JOHNS-MANVILLE JM ASBESTOS TEXTILES

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SUPERCONCRETE PIPES (S.A.) LIMITED has ordered R400,000 worth of equipment from Italy to make asbestos-cement pressure pipes and meet the demand for irrigation equipment. The new plant will be delivered by *Rivisione Costruzione Macchine* of Turin, Italy, in about a year's time. Other extensions will bring development costs at Superconcrete's factory at Rozzlyn Border Industrial Township up to R700,000. There are already two other firms in South Africa making asbestos concrete pressure pipes. Superconcrete is hoping for orders from Northern Transvaal irrigation schemes, particularly for 4″ piping.

Plastic piping is rapidly taking hold on the smaller diameter market, but asbestos-cement, being non-corrosive and cheaper, is ousting steel in the medium diameter range.

Superconcrete's plant will be capable of making pipes from 2″ to 18″ internal diameter and in lengths of 5 meters. The address of Superconcrete Pipes (S.A.) Limited is 286 Von Wielligh Street, Pretoria, South Africa.

The Italian company specializes in making pipe equipment and has supplied most countries in the Western world.

EBONIZED ASBESTOS—Because of the strenuous environmental conditions encountered in the Chesapeake Bay Bridge-Tunnel project, the materials used for the utility niche doors and frames in the two mile-long tunnels had to be immune to the deleterious effects of both moisture and salt air. The consulting engineers on the project specified the use of impregnated monolithic asbestos board since it is a material that has proved to be impervious to warpage and corrosion in similar installations. Meeting all the engineers' stringent specifications was Ebonized Asbestos, manufactured by *Nicolet Industries, Inc.* This is a rugged material composed of selected asbestos fibers and cement which are wet mixed and formed under high pressure into homogenous sheets, and specially impregnated to resist moisture penetration.

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UNITED STATES ASBESTOS COMPANY is scheduled to put its new Coalinga, California, asbestos mill into full production September 12th, 1964.

The firm's deposits are located in the central area of a 65 square mile serpentine mass in western Fresno and eastern San Benito Counties. This mass in the Coast Ranges northwest of Coalinga was the scene of an asbestos "rush" in 1959.

"While U. S. Asbestos was the fourth and last company to begin operations there, by locating in the central area and stripping off 10 feet of overburden they found a superior grade ore." "A primary plant at the site of the ore deposits will assure a constant ore flow to the company's mill located in Coalinga", according to James Stockman, Chairman of the firm's Board of Directors.

U. S. Asbestos expects to put a superior product on the market by utilizing an impact rather than an attrition process of fiberization. The firm will utilize a special gravity-type air table separation process developed by Wilson Davis, the company's Chief Engineer.

Serving on the Board of Directors with Mr. Stockman, President of Transwestern Hotels, Inc., are: Reginald E. Bayley, Vice-President, Transwestern Hotels, Inc.; Donald V. Clair, President, Marine Diesel Supply & Equipment Company; John H. Reading, President, Ingram's Food Products; and, Coalinga attorney Henry T. Leckman.

DURA-SHAKE, a new siding that simulates the natural appearance of wood shakes, has been introduced by *The Ruberoid Co.* This new siding is made of rock hard all mineral composition and with its authentic cedar shake appearance, offers a virtual maintenance-free wearability coupled with a low cost of application. Its lightweight stonelike consistency can be handled smoothly during application either on lumber, non-lumber or plywood sheathing.


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AUTOMOBILE SALES

JUNE 1964—The Automobile Manufacturers Association, Detroit, Michigan, has issued the following statistics for June 1964 of motor vehicle factory sales from plants in the United States: passenger cars 740,623, trucks and buses 152,537; total for June 1964 was 893,160 compared to 804,123 in June 1963. Total motor vehicles for the first six months of 1964 amounted to 5,243,029.

J-M BOOKLET TR-386A—Farmers, growers and ranchers, as well as irrigation system contractors, engineers, designers and others concerned with farm irrigation, will find much useful information in this new 12-page booklet. It relates savings to low and high head irrigation, points out economic benefits in flood, sprinkler and water recovery methods, and summarizes Transite advantages in the areas of operation, maintenance, and construction costs. Sizes, weights and dimensions of pipe plus engineering detail, test information, and a friction loss of head chart based on Transite's "C" values are also given. The booklet demonstrates the adaptability of a Transite system by illustrations and dimensions of available fittings and offers diagrams of typical flood and sprinkler systems and their correct and economical installation.

Copies are available free from Johns-Manville, Pipe Division, Box JJMC-23, 22 East 40th Street, New York, New York 10016.

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BUILDING

JULY 1964—According to F. W. Dodge Company, a division of McGraw-Hill, Inc., the value of construction contracts in the United States, during July 1964 (with percentage changes from July 1963) totalled $4,601,334,000, up 12%; nonresidential building, $1,547,531,000, up 22%; residential building, $2,000,168,000, up 3%; and, nonbuilding construction, $1,053,635,000, up 14%. At the end of seven months, 1964 contract value, at $28,697,365,000, was leading the amount for the comparable 1963 period by 8%.

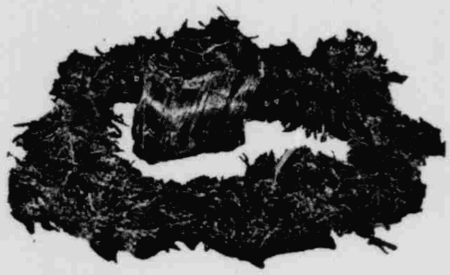
After a period of some hesitancy, the latest month's construction contract figures again are compatible with the many other bouyant economic indicators which have been making the news lately. Stores warehouses, factories, and electric utilities all played a large part in the July gain which was chiefly the result of a broad advance in industrial and commercial building activity.

THE FLINTKOTE COMPANY directors held their first board meeting in the Middle Branch, Ohio, office of the Diamond Portland Cement Company. Diamond Portland became a division of Flintkote in 1960. At the conclusion of the meeting, the directors reviewed Diamond Portland's $3,000,000 modernization program and then toured Flintkote's new asbestos-cement pipe plant at Ravenna, Ohio—built and operated by Flintkote's Orangeburg Manufacturing Company division.

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

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89 St. George's Terrace, Perth,
Western Australia.

VICTOR ACQUIRES S&K—George E. Victor, President, *Victor Manufacturing & Gasket Company* of Chicago, Illinois, has announced the acquisition of *Smith & Kanzler Corporation*, Linden, New Jersey, on July 1st 1964. The purchase of this leading manufacturer of asbestos paper, sprayed fireproofing and acoustical mineral fibre and thermal insulation products is designed to provide product diversification for Victor—the world's leading manufacturer of gaskets and oil seals.

Mr. Victor also announced the election of the following officers for Smith & Kanzler Company: President—Orrin W. Clifton; Executive Vice President—Robert M. Burns; First Vice President—Leonard Diener; Vice President and General Manager—Albert E. Binger; Vice President Manufacturing and Research—Dr. Morris Lieff; Secretary-Treasurer—Wayne D. Neathery; and, Assistant Secretary—William P. Barry.

A. E. Binger will be in charge of the Linden operation and has indicated that with the exception of the introduction of a broader line of asbestos papers and specialties, there will be no change in present product lines and policy. The new products will be made on Smith & Kanzler's new asbestos paper machine just completed and capable of providing a broad range of asbestos paper and paper specialties which have been developed by Smith & Kanzler's Research & Development Department.

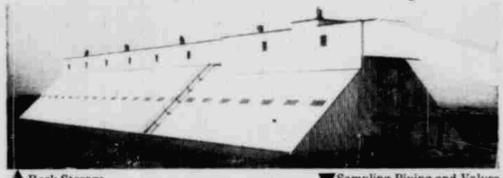
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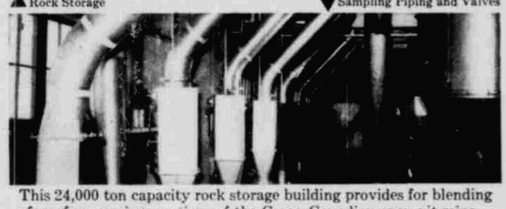
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This 24,000 ton capacity rock storage building provides for blending of ore from various sections of the Carey-Canadian open pit mine—the first step toward assuring customers of constant uniformity of asbestos fibres and shorts.

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.

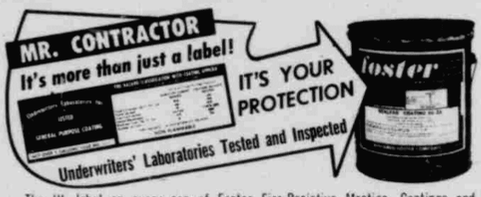
Carey-Canadian "quality controlled asbestos" may solve some of your operating problems. The assistance of factory trained Asbestos Fibre Sales Engineers may be obtained by writing any address below:

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Carey-Canadian Mines, Ltd., East Broughton Sta. P. Q.
The Philip Carey Co., Ltd., Ville St. Laurent, Montreal 9, P. Q.

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SALES AND PRODUCTION MANAGEMENT MANUAL—This book, by *Norbert Lloyd Enrick*, gives practice-tested methods and procedures showing how modern quantitative methods are applied in practical management. It shows how these modern cost-saving and profit-building methods are used in actual production as well as in marketing, promotion and merchandising. The volume presents the philosophy, practice and methods of Management Science simply and clearly. Although the book is based primarily on experience in the textile and needle-trades industries, the methods and techniques described, their results, and the conclusions drawn, apply also to other industries. The book is a timely, readable, and truly useful aid to the foreman, technologist, staff specialist and plant and sales managers and executives and is of value in industrial training courses and in college courses in management. (Published by John Wiley & Sons, Inc., 605 Third Avenue, New York, New York 10016—$7.50—191 pages).



The UL label on every can of Foster Fire-Resistive Mastics, Coatings and Adhesives assures you, your client and customer that you have complied with the most rigid specifications for fire-resistance in insulation coatings.

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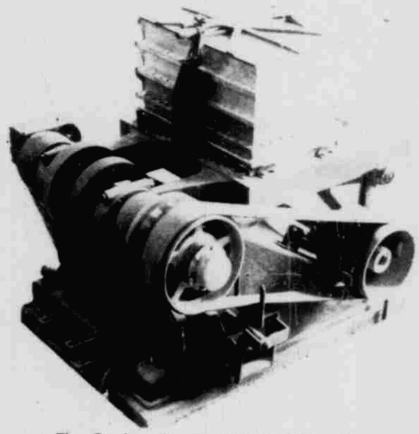
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MARKET CONDITIONS

GENERAL BUSINESS.

Business continues to improve. Practically all indicators continue a slow but steady upward movement. Steel output has turned up after a summer slump and a buildup of inventories is expected to lead to a good fourth-quarter showing for this key industry. The automakers are in the midst of wage negotiations and, here, a strike could have an unsettling effect on the entire economy. While new housing starts are down, personal income continues to reach new high levels and factory orders for hard goods are showing an upward trend. The normal "summer slump" has been hardly noticeable this year in most industries and this indicates business should improve further in the fourth quarter.

ASBESTOS—RAW MATERIAL.

Quebec asbestos fibre shipments for the Industry during July 1964 were 101 147 tons or 3,493 tons lower than the same period last year.

Year to date shipments at 643,148 tons exceed the same period 1963 by 44,806 tons or approximately 7%.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Brake Lining. The market situation at present for this material is good and this condition should continue for the rest of the year.

Asbestos Paper. This market has shown a slight improvement over the first half of the year and it is expected to continue to improve during the coming months.

Asbestos Millboard. Orders for this product continue to come in slowly but volume is expected to pick up shortly.

High Pressure Insulation. The market for this material remains strong and prices firm. The outlook is that business should continue at a very good level.

WOVEN AND NEEDLED

ASBESTOS CEMENT

SHINGLE, PIPE AND

CORRUGATING FELTS

NORDISKAFILT

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Asbestos-Cement Siding. Volume of business has picked up recently and should be better than this time last year.

Asbestos-Cement Pipes. The present market on all asbestos-cement pipe products continues strong and is beginning to show a favorable price stiffening which is long overdue in this industry due to accelerating increased costs. The outlook for the balance of 1964 shows that the current demand trend can continue at present strength levels.

Asbestos Filter Fibre. Demand for this type fibre is increasing in volume and the Arizona mines will have to increase production to take care of this current demand. Due to the growing amount of uses for low iron asbestos in many applications of the filter industry, the outlook for the balance of the year looks very good.

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

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for pipes of asbestos cement

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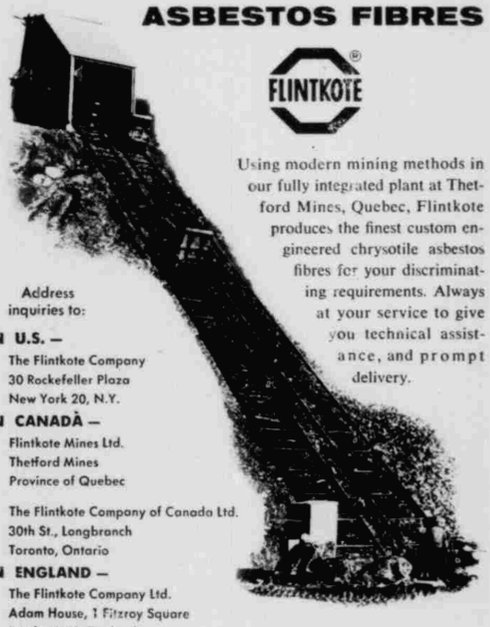
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The Flintkote Company of Canada Ltd.
30th St., Longbranch
Toronto, Ontario

IN ENGLAND –
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Adam House, 1 Fitzroy Square
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PRODUCTION

Australia—The Bureau of Mineral Resources has issued "The Australian Mineral Industry" containing the following production statistics on asbestos: 4TH QUARTER 1963—production totalled 3,323 short tons (Chrysotile—312 & Crocidolite—3,011); YEAR 1963—production totalled 13,356 short tons (Chrysotile—931 & Crocidolite—12,425).

Canada—The Dominion Bureau of Statistics has issued the following for the month of JUNE 1964 in short tons: Producer's Shipments totaled 121,191 (Quebec—102,416 and Newfoundland, Ontario and British Columbia—18,775). Total shipments for June 1963 were 112,029.

1964 Mining Annual Review is now available and offers: The Quest for Stability (leading article); Review of Metals and Minerals (including asbestos, under "Insulants and Refractories"); Technical Progress Reports; The World's Mining Fields and, Progress of Individual Companies. This 388 page comprehensive publication is circulated free to all subscribers to Mining Journal and Mining Magazine. To others the price is 27s.6d postage paid, and may be obtained from The Mining Journal, 15 Wilson Street, London., E.C.2, England.

U. S. Rubber First Six Months 1964—Sales, totalling $544,303,297, set a new record during the first six months of 1964 and were 8% over the $504,195,292 reported for the first half of 1963. Profit rose 16.2% to $16,188,731 compared with $13,932,823. Sales increases were registered in all areas of the company's activities. Second quarter sales also set a new record of $286,423,913, 6.3% above the previous record of $269,404,465 set in the second quarter of 1963. Second quarter profit was $9,646,413 compared with $6,542,318.

„ Tropag "

Hamburg —:— Ballindamm 6

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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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Ohio, Cleveland
A. C. Mueller Co., Inc.

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Van Waters & Rogers, Inc.

Pennsylvania, Conshohocken
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Utah, Salt Lake City
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IMPORTS & EXPORTS

Imports Into U.S.A.

(Figures by Bureau of the Census) FEBRUARY 1964

Unmanufactured Asbestos:	Short Tons
Amosite, Crude, Republic of South Africa	2,741
Crocidolite, Crude, Republic of South Africa	2,418
Chrysotile, Crude, Canada	1
Republic of South Africa	370
Rhodesia & Nyasaland	670
Chrysotile, Spinning Fibers, Canada	1,135
Chrysotile, Other, Canada	47,139
Mexico	104
Yugoslavia	55
Rhodesia & Nyasaland	407
Asbestos, Other, Canada	1,927
Finland	110
Republic of South Africa	61
Rhodesia & Nyasaland	391
	57,829

Valued at: $6,029,297

Manufactured Asbestos Goods:	Pounds	Value
A-C Pipes, Tubes, Fittings	3,355,407	$208,360
Asbestos-Cement Articles, Other	1,545,721	192,484
Asbestos Yarn, Rope, etc. & Other	..	58,745
		$459,589

MARCH 1964

Unmanufactured Asbestos	Short Tons
Amosite, Crude—Republic of South Africa	1,184
Crocidolite (Blue), Crude—Republic of South Africa	705
Chrysotile, Crude—Canada	3
Yugoslavia	116
Chrysotile, Spinning Fibres—Canada	1,420
Chrysotile, Other—Canada	54,049
Yugoslavia	925
Republic of South Africa	71
Rhodesia & Nyasaland	487
Asbestos, Other—Canada	2,577
Bolivia	1
United Kingdom	51
Finland	155

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Western Portuguese Africa	130
Republic of South Africa	270
Rhodesia & Nyasaland	615
	62,759

Valued at: $5,921,443

Manufactured Asbestos Goods:	Pounds	Value
A-C Pipes, Tubes, Fittings	6,723,368	$338,739
Asbestos-Cement Articles, Other	1,670,621	168,822
Asbestos Yarn, Rope, etc. & Other	..	50,728
		$558,289

Imports By United Kingdom

Raw Materials

Tons 2,240 lbs.	JUNE 1964
From: Republic of South Africa	2,221
Basutoland, Bechuanaland & Swaziland	711
Rhodesia & Nyasaland	4,123
Canada	8,975
Other Commonwealth Countries & Irish Republic	219
Foreign Countries	379
	16,628

Imports & Exports of Australia

(Published by Bureau of Mineral Resources)

Short Tons

	4th Quarter 1963		Year 1963	
	Imports	Exports	Imports	Exports
Amosite	2,155	..	7,019	..
Chrysotile	8,074	..	26,532	10
Crocidolite	62	717	89	2,569
Other	770	..	2,988	50
	11,061	717	36,628	2,629

Southern Rhodesia's asbestos exports in the coming year are expected to be £2-million more than in the previous year, said G. W. Rudland, the Minister of Trade, Industry and Development, in Bulawayo. According to Mr. Rudland, the Government is doing all it can to ensure that locally manufactured goods are used in preference to imported articles.

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They last longer and start faster . . . thus improving production and reducing felt cost.

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Exports From U.S.A.

(Figures by Bureau of the Census) MAY 1964

Unmanufactured Asbestos Short Tons

Crude & Spinning		Non-Spinning Fibers		Waste & Refuse	
Canada	30	Australia	50	Italy	35
Italy	10	Canada	73	Japan	626
Japan	22	Denmark	451	Korean Rep	742
		India	150	Phil. Rep.	30
		Japan	339	Thailand	50
		Mexico	49	Other Ctys	11
		Venezuela	50		
	62		1.162		1.494

Total Unmanufactured Asbestos—2,718 Valued at—$320,903

Manufactured Asbestos Goods:		Production	Value
Cement & Pipe Covering	Lbs	690,428	$ 129,745
Textiles & Yarn	Lbs	80,707	56,828
Packing	Lbs	196,758	255,087
Clutch Facing	No	252,931	200,200
Brake Lining (Mld & S. Mld)	Lin Ft	57,875	33,069
Brake Lining, Other	Lbs	656,599	389,473
Construction Material	Lbs	2,129,099	298,750
Asbestos Manufactures—Other	..	..	137,321
			$1,500,473

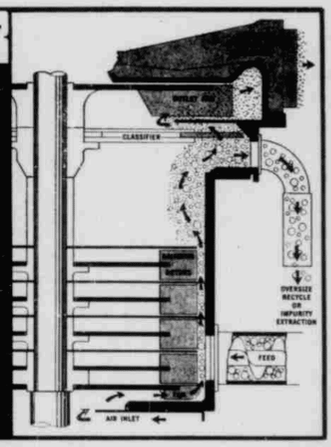


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Extracts Impurities—

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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.

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Exports From Canada

(Published by Dominion Bureau of Statistics) MAY 1964

Unmanufactured Asbestos:	Crude S. Tons	Milled S. Tons	Shorts S. Tons
United States	5	14,738	38,621
United Kingdom	..	4,650	3,897
South America	..	4,317	915
Central America & Mexico	..	2,006	175
Europe	..	14,151	12,152
Japan	..	2,211	2,010
Other Countries	..	8,380	1,187
	5	50,453	58,957

Total Unmanufactured Asbestos—109,415 Valued at—$12,831,562

Manufactured Asbestos Goods:

Asbestos Brake Linings Facings	$ 25,885
Asbestos-Cement Building Materials	48,829
Asbestos-Cement Products, Other	15,882
	$ 90,596

JUNE 1964

Unmanufactured Asbestos:	Crude S. Tons	Milled S. Tons	Shorts S. Tons
United States	..	22,626	37,103
United Kingdom	..	4,877	3,831
South America	..	3,422	750
Central America & Mexico	..	1,652	161
Europe	2	24,990	8,375
Japan	6	3,433	5,595
Other Countries	..	7,854	1,412
	8	68,854	57,227

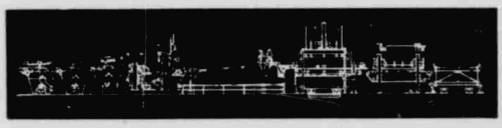
Total Unmanufactured Asbestos—126,089 Valued at—$15,745,391

Manufactured Asbestos Goods:

Asbestos Brake Linings Facings	$ 59,557
Asbestos-Cement Building Materials	72,383
Asbestos-Cement Products, Other	64,652
	$ 195,592

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INDUSTRY NEWS

HAPPY BIRTHDAY

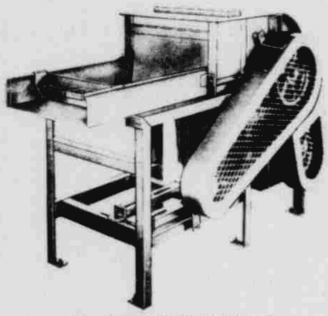
R. J. Berry, Vice President, Standard Asbestos Manufacturing Company of Cleveland, Cleveland, Ohio. September 15.
W. John Scotford, Manufacturing Director, Wunderlich Ltd., Sydney, N.S.W., Australia, September 15.
Jack L. Neal, President, Metate Asbestos Corporation, Globe, Arizona, September 16.
Albert Strodtbeck, Secretary, The Clark Asbestos Company, Cleveland, Ohio, September 17.
Walter F. Marcuse, President, Canadian Asbestos Company, St. Laurent, Montreal, Canada, September 18.
John Despard Christian, President & General Manager, Cassiar Asbestos Corp. Ltd., Toronto, Canada, September 19.
S. Ralph Zimmerman, Jr., Executive Vice President, Raybestos-Manhattan, Inc., Manheim, Pa., September 19.
William R. Whitener, Sales Manager, Pacific Asbestos Corporation, San Francisco, California, September 20.
Philip M. Malouf, President, United Asbestos Corporation Ltd., Montreal, Canada, September 21.
Charles E. Masters, Senior Vice President, National Gypsum Company, Buffalo, New York, September 21.
Paul R. Sussman, President, The Sussman Asbestos Company, Toledo, Ohio, September 21.
Jay P. Nicely, Vice President—Sales, National Gypsum Company, Buffalo, New York, September 22.
Jack B. Stiles, Works Manager, Wunderlich Limited, Rosehill, N.S.W., Australia, September 24.
Eugene H. Walet, Jr., President, Pacific Asbestos Corporation, San Francisco, California, September 24.
Win Brown, Vice President, MacArthur Company, St. Paul, Minnesota, September 25.
W. S. Jeffrey, General Manager, Australian Asbestos Pty. Ltd., Marrickville, N.S.W., Australia, September 26.
D. W. Jaquays, President, Jaquays Mining Corporation, Phoenix, Arizona, September 27.
John W. Humphrey, President, The Philip Carey Mfg. Co., Cincinnati, Ohio, September 28.
James R. Connell, Vice President, The Flintkote Company, New York City, September 29.
Colonel Sir William Charles Fenton, Chairman, British Belting & Asbestos Ltd., Cleckheaton, England, September 29.
George Courtauld, Director, The Cape Asbestos Company Ltd., London, England, October 2.
Donald A. Bain, Sales Manager, Asbestos Erectors of Canada Ltd., Montreal, Canada, October 3.
R. A. Denovan, President, Denovan Limited, Delkeith, Ontario, Canada, October 4.

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. . . now available with Second Stage Operation (optional) for more thorough fluffing of short-grain material, ensuring greater uniformity and conditioning of fibres. Eliminates lumps and mats . . . fits into any production line. Capacity up to 15 tons per hour.

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Two Stage Unit Model FM642

Partial list of users

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American Brake
American Smelting
Armstrong Cork Co.
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Battenfeld Grease
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Flintkote Co.
Garlock Packing
Grizzly Mfg. Div.
Henry, W. W. Co.
Hooker Chemical Co.
Inland Mfg. Div.
Johns-Manville
Linde Air Products
Marshall-Eclipse Div. of Bendix
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Robert E. Skinner, Works Manager, Wunderlich Limited, Melbourne, Victoria, Australia, October 5.
John W. Brown, Senior Vice President for Sales, National Gypsum Company, Buffalo, New York, October 7.
J. S. Munro, President, Raybestos-Manhattan (Canada) Limited, Peterborough, Ontario, Canada, October 7.
A. L. Penhale, President & Managing Director, Asbestos Corporation Limited, Thetford Mines, P.Q., Canada, October 11.
H. R. Barrett, Executive Vice President, The Philip Carey Mfg. Co., Cincinnati, Ohio, October 13.

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

The Ruberoid Co.—J. C. Murphy, Vice President-Sales, announced the appointment of **Jack K. Berk** as Sales Manager, National Accounts, for Ruberoid's Floor Tile Division. Mr. Berk, who will be headquartered in Joliet, Illinois, had been sales representative for Ruberoid since 1959. He was associated with the Mastic Tile Corpartion since 1955 in its sales department, where he advanced through a variety of assignments. In 1959, Ruberoid acquired the Mastic firm.

Ruberoid is a 28-plant network that produces resilient floor tile, asphalt and asbestos building materials and related industrial products.

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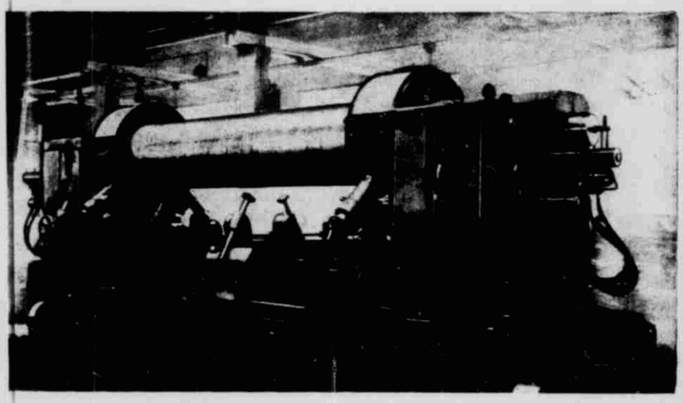
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Full-automatic pipe turning lathe with turning a pipe of nom. width 800 on the workshop test bench

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St. Poelten-Austria, P.O.B. 168 Tel. 2501, Teletype 01510

Certain-teed Products Corporation announced the appointment of **Lester F. Kaas** as Assistant Manager of its pipe plant at Ambler, Pennsylvania. Early this month, announcement was made of plans to more than double the output of asbestos-cement pipe at this plant. New pipe-making equipment will supplement the present manufacturing facilities. Certain-teed has three other plants—Hillsboro, Texas; St. Louis, Missouri; and, Santa Clara, California—and a new plant is now being built near Riverside, in suburban Los Angeles.

Flintkote—Orangeburg Manufacturing Company, a division of The Flintkote Company, has named **P. Joseph Corless** as Sales Engineer in charge of Flintite asbestos-cement pressure pipe, gravity sewer pipe, building sewer pipe and irrigation pipe in the company's North Jersey and Southern New York sales district. Before assuming this position, Mr. Corless was Product Engineer in the Flintite Sales Department.

U. S. Rubber has named **Dexter Stevens** Divisional Purchasing Agent of the Fabric Division of the General Purchasing Department. Mr. Stevens, who will be responsible for all fabric and fiber purchasing, replaces **R. T. Cummings,** who has resigned.

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CANADA



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& Fibres



Sales Representatives

for

Cassiar Asbestos Corporation Limited

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Nicolet Industries, Inc., has acquired the physical assets of **Protective Papers, Inc.,** Union, Illinois. This plant produces saturated, impregnated, laminated, reinforced and creped papers for the pipe wrap, building materials and packaging trade. Nicolet, manufacturers of a wide variety of standard and special asbestos products, has headquarter offices and R&D laboratories at Florham Park, New Jersey; asbestos mines and mineral exploration offices in Canada; plants in Ambler, Pennsylvania, Norristown, Pennsylvania, Hamilton, Ohio and Union, Illinois; and sales offices in principal cities.

Wayne L. McMackin has been named Midwest Sales Manager, Pipe Wrap Division of **Nicolet Industries, Inc.,** it was announced by K. A. Rood, Product Manager of the Division. Mr. McMackin was formerly Sales Manager for Protective Papers, Inc.

Raybestos-Manhattan—J. A. Bettes, Jr., Manager of R/M's Asbestos Textile Sales Division, has announced the addition of two new salesmen: **Frank T. MacKell** will cover the Philadelphia territory and **Carl W. Wolf** will cover the New York Textile territory. Mr. MacKell was recently associated with Kimberly Clark Corporation and Mr. Wolf, for the past two years, was district manager for Westinghouse Air Brake.

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CURRENT RANGE OF PRICE

As of September 10, 1964

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

No. 1 Crude	$1,410.00 to	$1,650.00
No. 2 Crude	610.00 to	900.00
AAA	..	800.00
Group No. 3 (Non-Ferrous Filtering & Spinning)	425.00 to	750.00
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

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
AY grade (shingle fibre—Canadian Group 5)	120.00

VERMONT— Per ton of 2,000 lbs. f.o.b. Mine

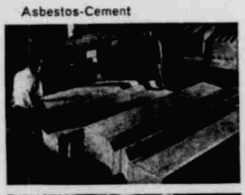
(U.S. Dollars—converted to Canadian equivalent)

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

asbestos

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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.

		AUGUST 1964		
	Par	Low	High	Last
Advocate Mines Ltd.	1	$6.25	$6.70	$6.55
American Brake Shoe	np	57⅛	59¾	58
Asarco	np	47¾	52¼	50⅛
Armstrong Cork (Com)	1	57¼	69	64⅞
Armstrong Cork (Pfd)	np	88½	90¼	90¼
Asbestos Corporation	np	22¾	24¾	24¼
Philip Carey	10	29¾	32⅛	30⅜
Cassiar Asbestos	np	11⅞	12½	11⅞
Certain-teed	1	14⅝	15⅝	15
Flintkote (Com)	5	22½	25¾	23
Flintkote (Pfd)	np	88	89½	89
Johns-Manville	5	52½	58¾	54⅛
National Gypsum (Com)	1	44	46⅜	44⅞
National Gypsum (Pfd)	np	100	102	101
Pacific Asbestos	1	2	2½	2⅛
Porter, H. K.	100	100	100¾	100½
Raybestos-Manhattan	np	45⅝	48⅞	48⅞
Ruberoid	1	32¾	35¼	33⅝
Seagrave	2½	12⅛	13¾	12⅛
Unarco Industries	5	13½	14⅜	13⅝
United Asbestos	1	$2.54	$2.75	$2.70
U. S. Rubber (Com)	5	53	56¾	56⅛
U. S. Rubber (Pfd)	100	167¼	171	168¼

Canadian JM—Karl V. Lindell, Chairman of the Board of Canadian Johns-Manville Company Limited has announced the appointment of **Ross E. Sampson** as Mine Manager of Advocate Mines Limited at Baie Verte, Newfoundland. Mr. Sampson joined the Asbestos Fibre Division of Canadian J-M in 1947 as Assistant Engineer at Jeffrey Mine, progressed to Mining Engineer, General Foreman Underground, was transferred to Munro Mine in 1954 as Acting Underground Mine Superintendent and was appointed Underground Mine Superintendent in 1958. On April 1st, 1963, he was transferred on loan to Advocate Mines Limited as Plant Engineer.

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Importer of Raw Asbestos
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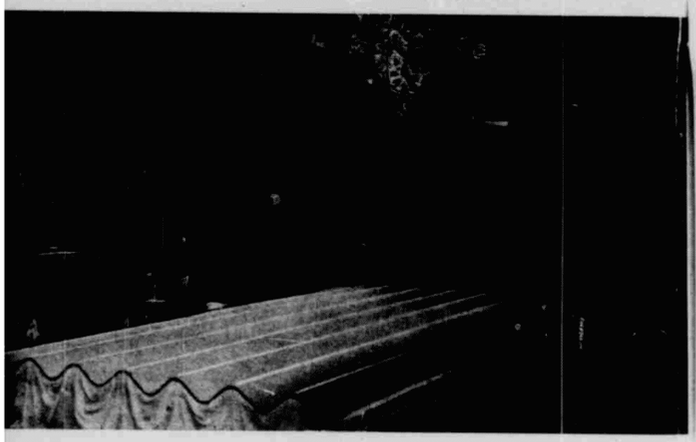
LAGGING IN FRONT

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 made by B.B.A. In production, as in research, we are in the front of our field. To all intents and purposes, B.B.A. *is* Asbestos.

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plants for producing asbestos - cement corrugated sheets



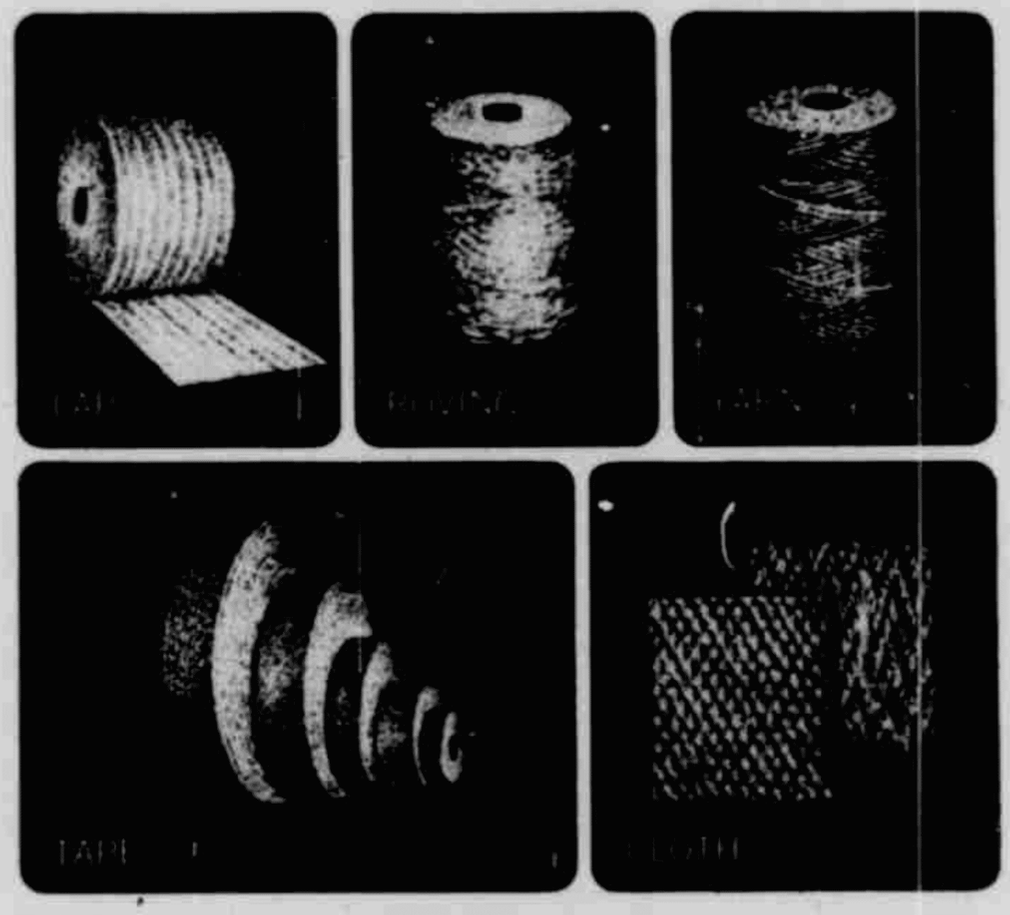
Machines for producing asbestos-cement sheets directly corrugated, having constant thickness or variable thickness with the lower profile equal to the upper one.
The sheets are obtained using as the starting material a thick slurry, deposited in superposed layers on corrugated moulds and compressed by means of mechanical vibrations.
With this type of machines short and very short asbestos fibres can be employed.

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MACHINES FOR ASBESTOS-CEMENT PRODUCTS
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PORTER

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H. K. PORTER COMPANY, INC.

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