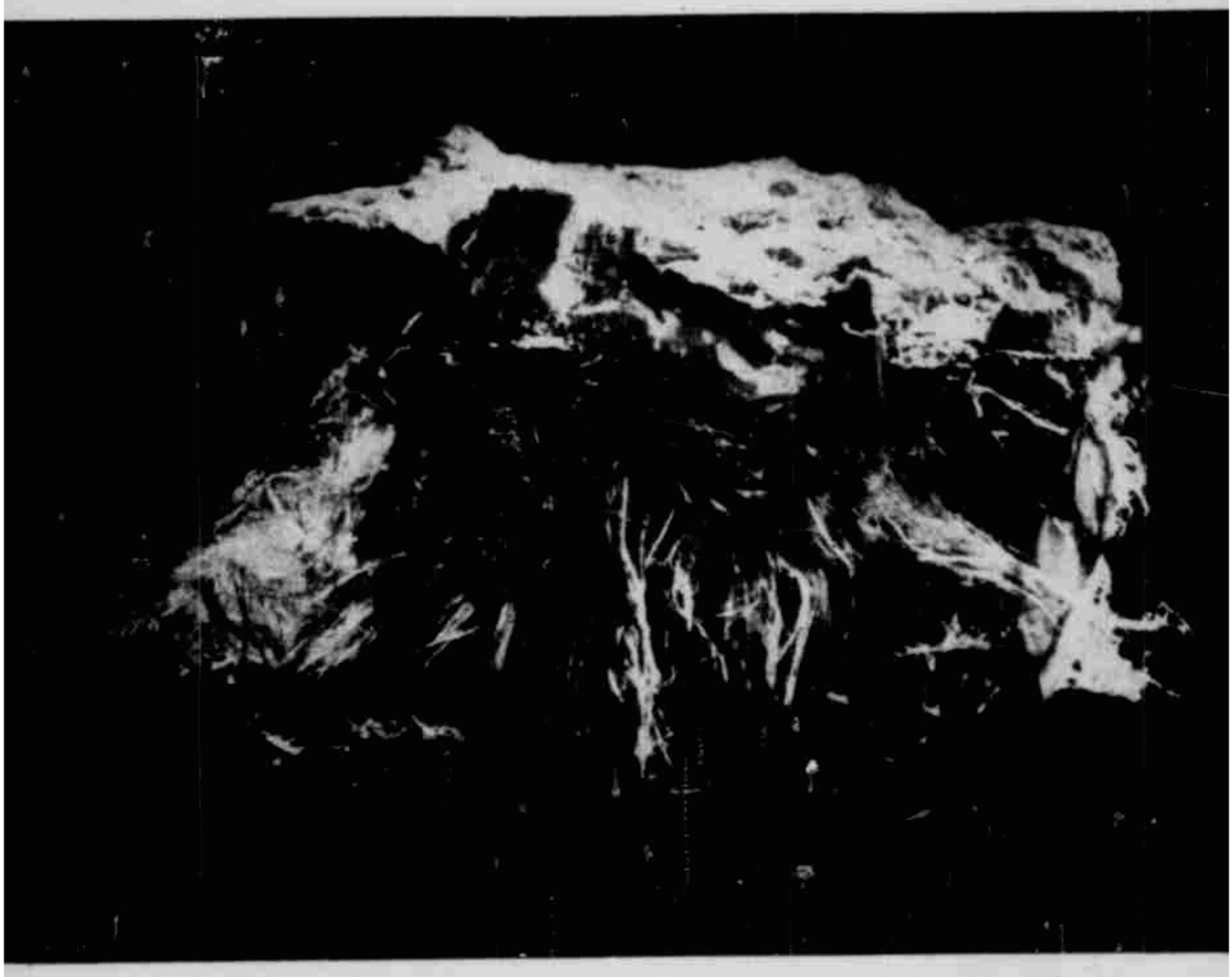
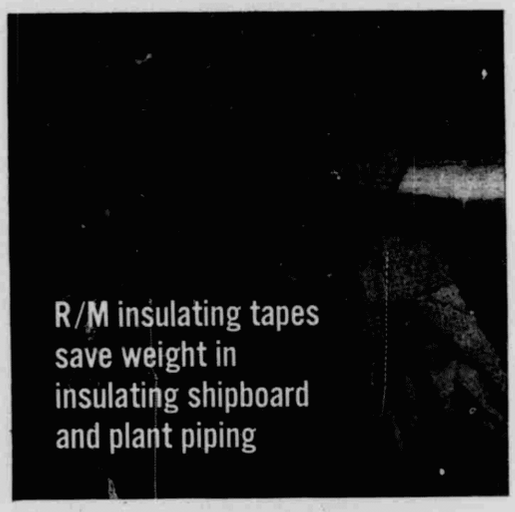
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CONTENTS

	Page
CROCIDOLITE PRODUCTION IN SOUTH AFRICA AND AUSTRALIA	2
ASBESTOS AROUND THE WORLD—QUEBEC ASBESTOS BOOSTS YOUNG COUNTRY'S PROSPERITY	14
AUTOMOBILE SALES	24
BUILDING	28
MARKET CONDITIONS	30
PRODUCTION	34
IMPORTS & EXPORTS	36
INDUSTRY NEWS	42
CURRENT RANGE OF PRICE	52
ASBESTOS STOCK QUOTATIONS	54

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CROCIDOLITE PRODUCTION

In South Africa and Australia

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

To most people the word asbestos is synonymous with chrysotile because, for many years, it was the principal class of commercial fibre. Indeed, this highly fibrous form of serpentine still commands an important niche in the fabrication of asbestos product and, for this reason, continues as the premier of all varieties.

However, the gradual and now certain recognition of the value of the amphibole varieties (particularly crocidolite) and a consequent greater demand for this class of asbestos in various branches of industry has already changed the perception as to the commercial value of these fibres.

The relative importance of this variety is clearly illustrated by the progressive increase in output in the past decade. This applies mainly to production in South Africa and Australia since these countries now constitute the world's principal source of supply of crocidolite asbestos. While there are several other known crocidolite deposits (a comparatively small production has taken place in Bolivia and China,*) and a number of reported occurrences, asbestos manufacturers look to South Africa and Australia to satisfy their requirements for good quality fibre, especially for the fabrication of asbestos-cement products and other specialized commodities.

Following the installation of many new asbestos-cement manufacturing plants in different industrial centers throughout the world, the demand for this variety of asbestos will automatically continue to develop rapid growth. This trend is already illustrated in production figures in 1961, when the total output amounted to 109,577 tons, of which 93,800 tons were produced in South Africa and 15,777 tons in Australia.

The South Africa output was made up of the following tonnage from her two main producing fields:

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Transvaal: 11,176 tons

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The value of the South African production in the past two years has been fully maintained at a steady comparatively level reckoned at:

In 1961: R23,255,695 (£11,627,847)
In 1962: R23,133,391 (£11,566,695)

These figures represent tonnage and value of more than double that produced ten years ago.

A more outstanding advance in production is represented in Australia where the current output is ten times as much as that produced ten years ago.

Current production in both of these fields is on a mounting scale. Fortunately, physical characteristics of the occurrences indicate a bright future potential, especially in the case of the Australian field where the orebodies are more consistent and continuously deposed than the scattered, irregular and erratic South African deposits.

This point leads interest to frequent enquiries about the salient differences in these fields (located as they are in different continents) and the comparative reason for their superior fibre characteristics.

In the first place, the commercial value of any asbestos is judged by the natural properties that bestow on the fibres those attributes necessary in the fabrication of special products. Fibre length, non-inflammability, heat resistance and so on are well known and generally accepted as the most common prerequisites necessary in all classes of quality fibres. In addition, however, the fibres stemming from the hornblende and monoclinic group of amphiboles (such as crocidolite) possess other properties of commercial value. Most important amongst these are their high resistance to acids, chemicals and alkali solutions. Also, as is common to many varieties of asbestos, crocidolite fibres withstand high temperatures although they are fusible at 3 because of their high iron content.

Strangely enough, although emanating from somewhat different geological formations, the crocidolite fibres from South Africa and Australia have a close resemblance and possess like qualities and properties. The chemical make-up of each may vary (a fact not unusual in any class of asbestos, even in the same parent formation) but the commercial

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value is common to both. This can be accounted for because each class possesses all the inherent natural properties and valuable attributes of high quality crocidolite.

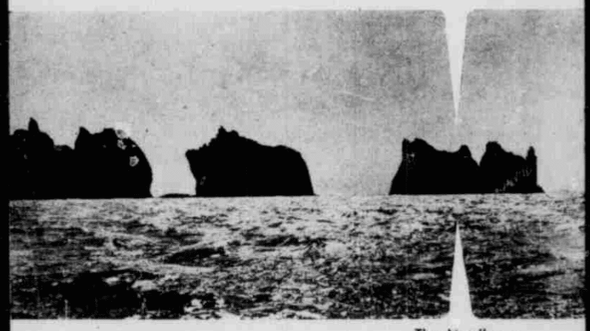
The more common name for crocidolite, namely: "Blue" asbestos, was initially derived from the first production of this class of fibre in the Cape field in South Africa. The term is now recognized generally as a standard of commercial quality. The prevailing blue color of the fibres, both in the ore and after fiberization is attributed to the high soda content or to iron compounds derived from the country rock.

It might be interesting, at this point, to consider the outstanding properties that combine to appraise these blue fibres as superior to others in certain branches of industry. In the fabrication of asbestos-cement and other products by wet methods of treatment, the density or otherwise the buoyancy of the fibre assists, in the process, in keeping the opened fibres in suspension. Other specialized natural properties of essential value in this field of application include the harsh texture and the strength of the fibres, their free filterability and their natural mode of imbrication plus the constant moduli and extreme heat resistance.

As already mentioned, there is a difference in the geological formation in which the orebodies occur in the South African and Australian fields and yet the origin is common and mineralization in many respects is closely analagous, and the fibre, in each case, is similarly deposed in stratified tabular rocks in veins in cross-fibre form.

In the South African deposits, the mineralized zones occur in a rock series characterized by layers of siliceous ferruginous or jaspery slates with chert stingers, in which quartz and iron minerals are the principal constituents of the formation. The general uniformity of the strata is a feature of this rock series which, in the Cape, extends almost continuously for over 250 miles, and for about 60 miles in the Transvaal field. Continuity of the formation, however, is disrupted structurally at many places by the intrusion of diabase dykes and faults which cause frequent displacement of the strata and consequently anomalous asbestos zones, where these are present. As it happens mineralization is not continuous throughout the formation, in-

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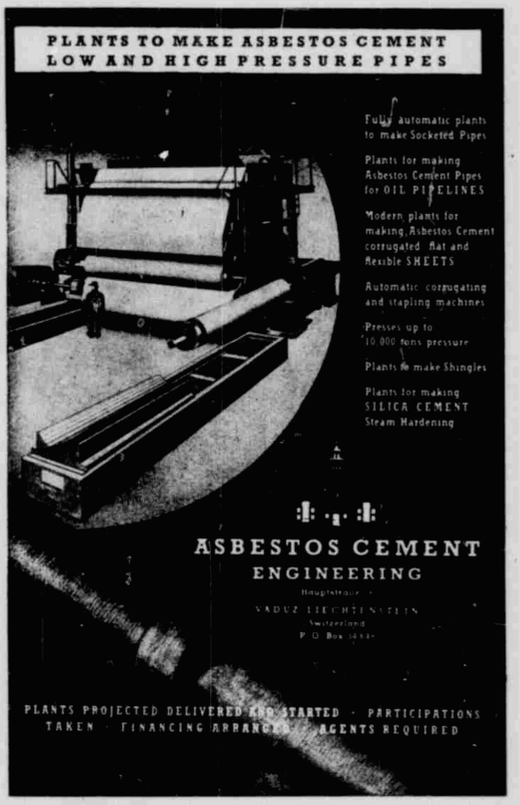
deed, asbestos deposition is extremely sporadic both as to compact orebodies and continuity of the asbestos veins.

By contrast, the Western Australian occurrences in the Hammersley Range are generally found in undisturbed beds conforming to the general trend of the country rocks and are remarkable for their regular form. The mineralized rock formation constituting the Range, runs for about 100 miles and in this distance the asbestos horizons are exposed in hillside outcrops in a series of gorges.

The cross-fibre asbestos seams in these orebodies occur in lodes in stratified ferruginous quartzites and shales with occasional bands of dolomite. In general the formation is made up mainly of jasperized quartzites and dolomites and the fibre seams are located in various horizons in marker bands of riebeckite rock or quartzite adjacent to layers of dolomite. (At one time crocidolite was accepted as a fibrous form of riebeckite.)

In both these fields the asbestos horizons occur in their respective formations at varying distances between each other. In the South African ironstone formations two or three fibre groups are usually found from 10 feet to 20 feet apart in most deposits. In the Australian formation, two distinct horizons generally occur about 20 feet apart.

Because of the scattered nature and irregular deposition of the Cape and Transvaal fields, mining procedure perforce consists of the application of special techniques to achieve economic extraction from the many small and irregular and narrow lode fibre bodies. In addition, in many cases because of the faulted and structurally deformed nature of the strata, plus the erratic fibre deposition, the adoption of any systematic mining method on a large scale is precluded. Limited application of any method is mostly the rule, indeed, it has often been said that any convenient system of mining is generally one of expediency as a solution to economic extraction. Consequently, many methods are employed as a means to an end and, in this way, more effective and efficient results are attained, especially where sorting can be carried out to assist in ground support and to step up the value of the ore delivered to the mill. In this manner, in the majority of workings, face values are in-



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creased and an economic recovery is achieved from orebodies that would normally be classed as marginal.

Australian production methods present a very different picture. As a general rule, the bedded lodes in the Hammersley Range deposits are fairly regularly deposed at flattish angles that rarely dip more than ten degrees from the horizontal. This is a distinct advantage by comparison with the South African orebodies, where the beds vary from almost flat to nearly vertical in many places, depending on physical disturbances, such as faulting or major or minor anticlinal or synclinal rolls.

In the Australian orebodies, fibre disposition is also relatively uniform in harmony with the rock formation, a condition that allows for the application of systematic mining methods. In general, this takes the form of a long-wall stoping system, in which re-suing is practiced despite the hard and abrasive nature of the rock. This produces a means of effective sorting and waste separation and thereby assists in ground support thus reducing the need to leave an excessive number of ore pillars, notwithstanding the fact that these can always be reclaimed at a later stage. All fibre bearing rock is delivered by means of scrapers to orepasses for conveyance to main haulages and thence to the mill.

Milling methods in these two fields vary little in general treatment techniques following, as they do, the broad principles of the original Canadian practice. As would be expected, however, specialized procedure for the effective extraction of the fibres from the hard rock in which they occur are employed according to local conditions. Except for such local variations in the ore and the need for special consideration of the physical characteristics of the fibres, normal dry pneumatic treatment is controlled by the employment of specialized plant and equipment.

It is in this respect that mill features vary, particularly in the sphere of comminution and more especially in the final stages of fine crushing. Screening methods are also of considered design depending on the quality of the coarse hard gangue. In every aspect of plant design and utilization, cognizance is given to the question of the extreme

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hardness of the product being treated. Hence, an important step in this connection is the accepted practice to remove all waste rock in the initial crushing stages to reduce wear and tear of machines, and more important still, to avoid excessive attrition of the fibres.

*"The Distribution of Crocidolite Asbestos", by the author, "ASBESTOS", September 1962, page 2.

We have been advised that Messrs. PUTTEN'S ASBESTOS CORPORATION LIMITED, producers and exporters of all types of South African and Rhodesian asbestos (Chrysotile, Crocidolite, Amosite, Montasite and Anthophyllite), have appointed W. E. SINCLAIR, M.I.M.M. as Consulting Engineer as from August 1st, 1963.

It may not be generally known that, besides contributing regular factual articles to this Magazine, Mr. Sinclair has spent nearly thirty years actively and continuously engaged in every aspect of the asbestos field. An interesting profile of Mr. Sinclair's career can be read on page 14 of the June 1962 issue of "ASBESTOS".



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ASBESTOS AROUND THE WORLD

Quebec Asbestos Boosts Young Country's Prosperity

(This article, taken from the April 1963 issue of "The Asbestos Producer", is the fourth of a series prepared by Canadian author Jean Danard, who, in the course of a round-the-world voyage, is interviewing asbestos manufacturers.)

In 1953 Israel was five years old and had a population of 1½ million. That was the year Hugo D. Schwartz and his brother, Edward, bought three moulding presses, hired half a dozen workers and started to make asbestos brake linings in the little town of Ramat Gan on the outskirts of Tel Aviv. Sales that year were $50,000.

Chilean by birth but educated as engineers in the United States, the two brothers had come to their new homeland in 1947 and 1948 respectively in the first flood of immigrants. In 10 years they have increased their staff to 220 and bumped sales to $2-million, while Israel has grown to a nation of 2½ million people exporting half a billion dollar's worth of goods and services a year. In the same period exports as a percentage of imports have gone up from a mere 14% to a healthier 45%.

Part of that growth comes from the Israel Brake Lining plant, for almost 70% of their production is shipped abroad — to Japan, Hong Kong, Singapore, Iran, Turkey, Cyprus, Greece and Yugo-Slavia. They are presently negotiating with India. The raw material? From Quebec's asbestos mines.

"We've always used Canadian asbestos", says Edward Schwartz, a soft-spoken man and Technical Manager of the company. "Very reluctantly we once tried another kind but it was no more than a ton or two". Yearly orders now total about $250,000 although the tonnage is small.

Almost every year has brought an innovation to the company's operation. From moulded brake linings the Schwartz brothers turned their attention in 1954 to woven brake linings, at first only impregnating imported goods with resins, and baking them. By 1956 they had their own weaving machinery and the next year started producing yarn and resin. The number of spindles was doubled in 1959 and wire brake lining produced by 1961. Today you

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can find cloth for firemen's suits and safety gloves, clutch facing and wicks for kerosene stoves which are a must in sub-tropical Israel. Winter nights bring too much chill for comfort but central heating is not a necessity.

This year they are introducing new products such as asbestos ropes and packings and doubling production of all kinds of brake lining.

"This will be done by automation alone", says Mr. Schwartz, "No new staff".

"We have excellent men", adds Dov Ehrlich, the man responsible in the last six years for sales abroad. "Actually we could turn out just as much with fewer men. Machinery is so automated that, for example, one man alone can handle 240 spindles".

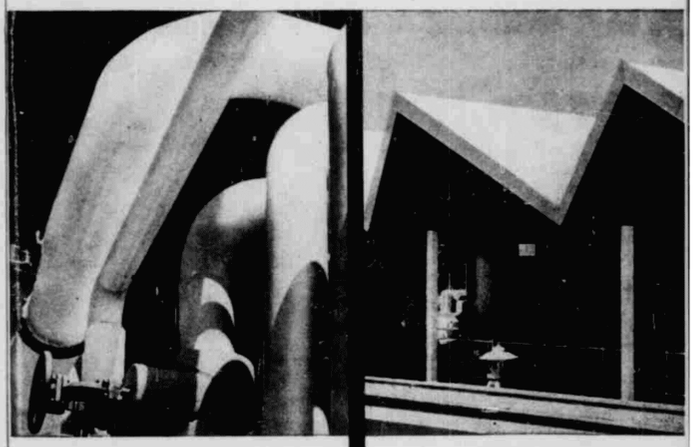
But automation and good men, the Schwartzes know, don't necessarily ensure top quality. Hence a laboratory staffed by two chemists, two engineers and two female lab assistants has become the guardian of quality and the instigator of many new products. Process control brings several samples each day from each machine and initial tests are done within half an hour. When the lab is closed (the factory has a 24-hour day) the shift boss does the testing. "With such constant checking", explains Mr. Ehrlich, "there is practically no wastage of the final product because we find something is going wrong before trouble actually occurs".

The current research project involves coating flexible asbestos fabrics with polyvinyl coating — a plastic resistant to solvent. Thus the material would be useful wherever fire or solvent was a hazard. A small quantity has been successfully prepared but, say the lab experts, "it's one thing to do it under lab control and another to produce on a quantity basis. Commercial production is our next step and we don't know how long this will take".

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NATIONAL CONSTRUCTION INDUSTRY RESEARCH AND DEVELOPMENT CONFERENCE will be held October 17-18, 1963, in the *Chamber of Commerce of the United States'* Hall of Flags in Washington, D. C. The controversial proposal for federal subsidized research and development activities will be examined in depth.

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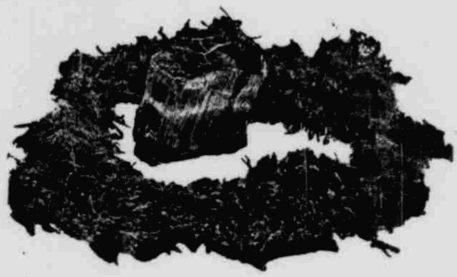
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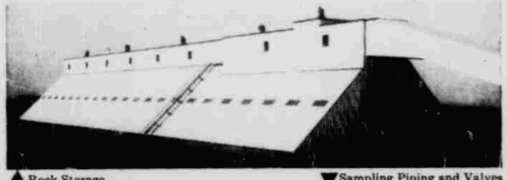
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AUTOMOBILE SALES

	June 1963
Passenger Cars	687,489
Trucks and Buses	116,634
	804,123

In June 1962 a total of 678,183 motor vehicles were sold. In the 6 months of 1963 the total was 4,759,441.

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

RUBBER RINGS



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HIGH QUALITY RUBBER RINGS

for all types of joints for asbestos-cement pipes.

Suppliers of the largest manufacturers of asbestos-cement pipes in Europe.

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

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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TURNERS ASBESTOS FIBRES LIMITED's new address, effective September 9th, 1963, is Faulkner House, Faulkner Street, Manchester 1, England. These new offices will provide the extra space needed for the further growth of the Company's business.

Faulkner House is a new building located in the Piccadilly area of the city and is about 600 yards from Turners Asbestos' previous premises in Asbestos House.

DIRECTORY OF TEXTILE MACHINES AND ACCESSORIES, published by L'Union Des Constructeurs De Material Textile De France, 11 Avenue Hoche, Paris 8°, has recently been received by "ASBESTOS". This very attractive and informative Directory contains many illustrations and an alphabetical index where reference numbers are given for all textile machines and accessories.

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In Canada — The Flintkote Co. of Canada Ltd., 30th St., Longbranch, Toronto, Ontario
Flintkote Mines Ltd., Thetford Mines, P.Q., Canada

In England — The Flintkote Co., Ltd., Adam House, 1 Fitzroy Square, London W-1, England

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BUILDING

A spurt in residential building contracts boosted the total value of contracts for new construction in July 1963 to $4,124,713,000, F. W. Dodge Corporation reported. The current month's activity reflected a gain of 10% in total contract value over July 1962 and lifted to 7% the cumulative gain in 1963's volume through July. "The 19% increase in residential contracts over last year's July total promises to give homebuilding a new shot in the arm", said George A. Christie, Dodge Senior Economist. "This latest spurt in residential contracts, after adjustment for normal seasonal differences, reflects a modest but significant gain over the June rate." In July, Dodge contracts for apartments ran 32% ahead of July 1962 volume, while one- and two-family housing led by 14%.

Nonresidential building contracts at $1,270,609,000 were 6% above the July 1962 totals with the largest gains shown by the hospital and educational categories. Commercial building contracts were up 4% as a substantial gain in stores more than offset a decline in offices. Manufacturing contracts, after showing a lead of close to 50% above the 1962 rate for the past 3 months, ran barely equal to last year's level in July. Hospitals, ahead of 1962 at mid-year by one-third, maintained that lead in July, while a 13% increase in school-building contracts put this category ahead by 3% for the year to date. Public buildings showed a sharp decline in July.

In the nonbuilding construction sector, contracts at $920,413,000 were down 1% from the July 1962 total, putting the 7 month 1963 cumulative deficit at 3%. Public works contracts advanced by 3% with road building and sewer work providing all of the month's gain. Contracts for utility construction were off 14%. Cumulative totals of construction contracts for the first 7 months of 1963 with percentage changes for the same period of 1962 are: nonresidential building $8,490,965,000 up 8%; residential building $12,019,867,000 up 11%; nonbuilding construction $5,974,859,000 down 3%—total construction $26,485,691,000 up 7%.

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.

Write today to Lake Asbestos of Quebec, Ltd., 120 Broadway, New York 5, N. Y. . . . or to the sales agent nearest you . . .

NORTH AMERICAN SALES AGENTS:

California, Los Angeles — E. B. Taylor Company
California, San Francisco — E.M. Walls Company
Colorado, Denver — Braun-Knecht-Heimann Co.
Illinois, Chicago — 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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MARKET CONDITIONS

GENERAL BUSINESS.

General business is good and continues to improve at a slow but steady rate. Auto production is picking up as producers start turning out the 1964 models. Steel production is low but an upswing is expected soon as auto-makers place orders for fourth quarter deliveries. Sales of durable goods were up in July and total personal income reached a new high in that month. The stock market continues to advance, reflecting the confidence of both large and small investors in the soundness of the economy in general.

ASBESTOS—RAW MATERIAL.

Quebec asbestos fibre shipments for the Industry during July 1963 were 104,640 tons and exceeded the same period last year by 14,793 tons, or approximately 16%.

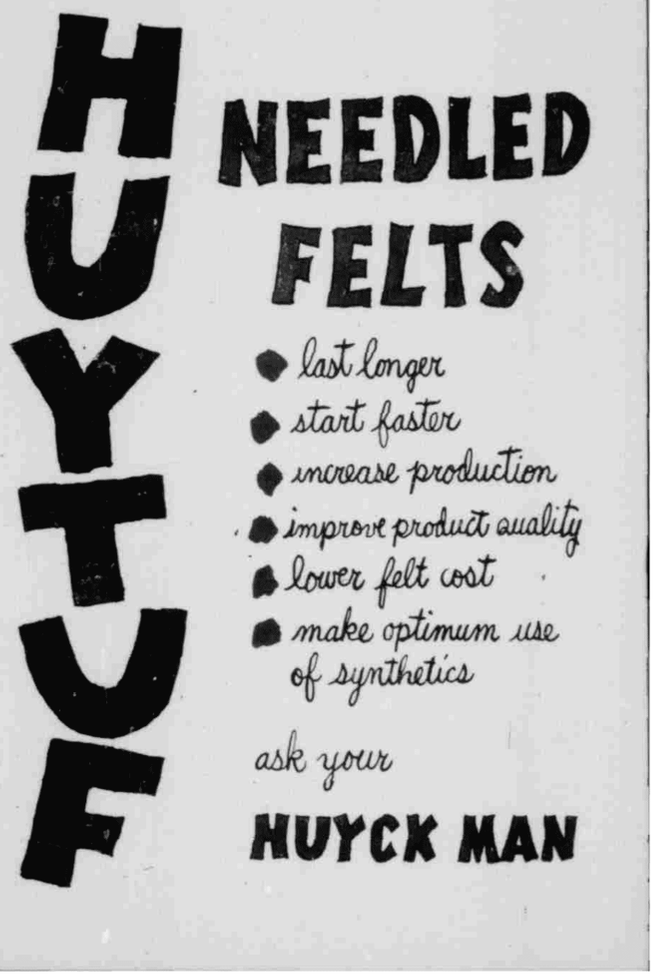
Year to date shipments at 598,341 tons are running 13,772 tons or roughly 2% ahead of the same period 1962.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. The order position of asbestos textiles is strengthening as the vacation period nears its end. Despite the vacation period, shipments remain at a healthy level. The demand for textiles is expected to increase in September and continue at a high level into the fourth quarter.

Asbestos Brake Lining. The market situation for this product is good and is exptected to continue to be good for the rest of the year.

High Pressure Insulation. The present market situation is firm and prices have strengthened. Demand during the fourth quarter of this year is expected to continue to improve.



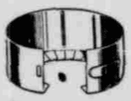
Low Pressure Insulation. The market situation at present is normal and this condition should remain for the balance of the year.

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

NATIONAL FIRE PROTECTION ASSOCIATION is considering important revisions in its standards-making procedures. Rules governing the adoption of technical standards and codes at NFPA Annual Meetings, particularly those relating to the processing of amendments to committee reports, will be affected.

The proposed revised regulations are now available in pamphlet form and are being circulated for review and comment by all those interested. Copies may be secured without charge from NFPA at 60 Batterymarch Street, Boston 10, Massachusetts. A deadline date of October 15th, 1963, for comments has been set prior to proposed action by the NFPA Board of Directors.

CANADIAN CHRYSOTILE ASBESTOS CLASSIFICATION, including description of method of testing on the Canadian Standard Testing Machine, *January 9, 1961* edition, is available at 35¢ per copy from "ASBESTOS", 807 Western Saving Fund Building, Philadelphia, Pennsylvania 19107.



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

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PRODUCTION

AFRICA (Southern Rhodesia)

(Published by Rhodesian Mining and Engineering) *Tons 2,000 lbs.*

	Production	Value
Asbestos: June 1963	11,396.00	£470,450*
June 1962	11,565.70	£592,575*

*Corrected to the nearest £.

CYPRUS

(From Inspector of Mines) 2nd Quarter—ending June 30, 1963

	Production Short Tons	Exports Long Tons	Value
April	401	143	£ 6,305
May	1,120	2,698	158,623
June	1,811	1,068	53,998
	3,332	3,909	£218,926

REPUBLIC OF SOUTH AFRICA

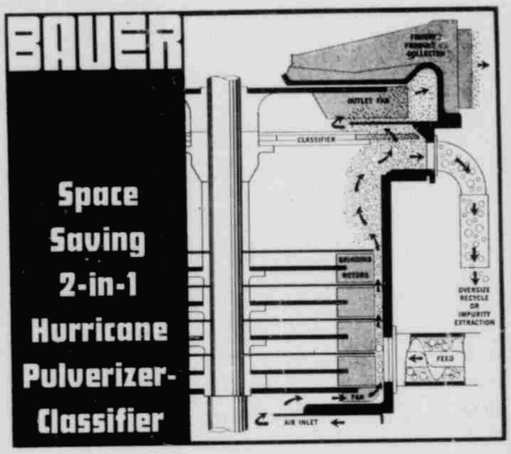
(Quarterly Information Report—Dept. of Mines) *Tons 2,000 lbs.*

1st Quarter—ending March 31, 1963

	Production	Local Sales		Exports	
	Tons	Tons	Value	Tons	Value
Amosite	18,949	266	R 19,175	13,890	R1,323,904
Chrysotile	7,219	1,078	58,544	5,512	557,036
Cape Blue	22,525	1,101	123,537	19,637	2,767,825
Transvaal Blue	3,036	135	16,463	1,557	199,062
Tremolite	28	12	510	9	375
	51,757	2,592	R218,229	40,605	R4,848,202

Fibreboard Six Month Report 1963 — Earnings of the Fibreboard Paper Products Corporation for the six months ended June 30, 1963, amounted to $1,718,000 compared to $1,086,000 in the same period of 1962. Sales amounted to $58,351,000 against $54,782,000.

Earnings for the second quarter of 1963 were $1,169,000 compared with $1,024,000 for the comparable 1962 quarter. Sales totaled $31,568,000 against $29,411,000.



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

In Canada: The Bauer Bros. Co. (Canada) Ltd., Brantford, Ont.

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IMPORTS & EXPORTS

Imports Into U.S.A.

(Figures by Bureau of the Census)

April 1963

Unmanufactured Asbestos:

	Short Tons
From: Canada	53,931
Republic of South Africa	3,225
Rhodesia & Nyasaland	195
United Kingdom	420
Yugoslavia	54
Other Countries	49
	57,874

Valued at: $5,150,234

By Grades:

Crude, Blue, Republic of South Africa	1,320
Other Countries	49
Crude, Chrysotile, Yugoslavia	54
Rhodesia & Nyasaland	100
Crude, Amosite, Republic of South Africa	1,805
Textile Fiber, Canada	1,479
Other Fibers, Canada	52,452
United Kingdom	420
Republic of South Africa	100
Rhodesia & Nyasaland	95
	57,874

Manufactured Asbestos Goods:

	Quantity (lbs.)	Value
Asbestos Yarn, United Kingdom	19,415	$ 12,506
Other Countries	402	764
Asbestos Packing	12,926	14,430
Asbestos Shingles (Impreg), Canada	291,365	15,628
Belgium	801,415	116,555
Other Countries	2,491	282
A-C Pipe & Fittings (Not Imp), Belgium	3,165,750	195,043
West Germany	1,159,578	48,484
Italy	1,884,991	67,809
Israel	443,973	21,254
Japan	1,951,104	90,020
Other Countries	48,420	3,016
A-C Manufactures Other (Not Imp	309,028	15,994
Asbestos Manufactures—Other	..	16,461
	10,090,858	$618,246

WOVEN AND NEEDLED

ASBESTOS CEMENT

SHINGLE, PIPE AND

CORRUGATING FELTS

NORDISKAFILT

NORDISKA MASKINFILT AKTIEBOLAGET

HALMSTAD • SWEDEN

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Imports By United Kingdom

Raw Materials

Tons 2,240 lbs.	June 1963
From: Republic of South Africa	2,292
Basutoland, Bechuanaland & Swaziland	2,287
Rhodesia & Nyasaland	3,331
Canada	5,279
Other Commonwealth Countries & Irish Republic	54
Foreign Countries	58
	13,301

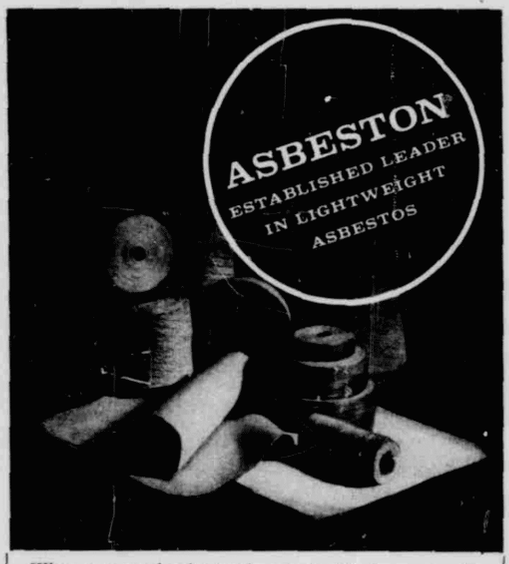
Exports From U.S.A.

(Figures by Bureau of the Census)

	April 1963 Short Tons	Value
Unmanufactured Asbestos:		
To: Brazil	54	$ 15,863
Canada	49	11,770
Italy	35	7,000
Japan	227	26,110
Mexico	75	16,678
Republic of Congo	54	19,221
United Kingdom	20	1,880
West Germany	14	3,284
Other Countries	4	1,648
	532	$ 103,454

Manufactured Asbestos:	*Production*	Value
Asbestos Cement & Pipe Covering	Lbs 621,330	$ 146,820
Asbestos Textile & Yarn	Lbs 69,820	54,649
Asbestos Packing	Lbs 234,496	226,950
Asbestos Clutch Facing	No 264,136	142,793
Asbestos Bk Lng (Mld & S.Mld)	Lin Ft 121,804	51,218
Asbestos Brake Lining, Other	Lbs 444,868	305,103
Asbestos Construction Material	Lbs 895,231	165,563
Asbestos Manufactures—Other	..	76,281
		$1,169,387

Ray-Man Six Month Report 1963—Raybestos-Manhattan, Inc. and subsidiaries report for the first six months of 1963 has been issued. Net income to June 30, 1963, was $1,927,384 compared to $2,219,079 for the same period in 1962.



When you need asbestos in any textile form, specify ASBESTON...for more than twenty years the leader in lightweight asbestos textiles.

And when unusual or special high-temperature conditions must be met, call on our experienced technicians to adapt the unique ASBESTON spinning process to the special yarns or fabrics you need.

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Exports From Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos:	Short Tons	June 1963 Value
Crude		
United States	..	$ ..
United Kingdom	..	..
South America	..	..
Central America & Mexico	..	..
European Countries	..	..
Other Countries	5	3,610
	5	$ 3,610
Milled		
United States	14,252	$ 2,735,839
United Kingdom	3,943	759,343
South America	4,595	853,315
Central America & Mexico	1,177	206,213
European Countries	16,869	3,003,254
Other Countries	9,336	1,592,036
	50,172	$ 9,150,000
Shorts		
United States	36,567	$ 1,973,540
United Kingdom	2,471	146,328
South America	679	45,324
Central America & Mexico	205	13,095
European Countries	7,323	437,360
Other Countries	5,666	450,512
	52,911	$ 3,066,159
Grand Total— Unmanufactured Asbestos:	103,088	$12,219,769
Manufactured Asbestos Goods:		
Brake Linings Facings		$ 52,584
Asbestos-Cement Building Materials		37,404
Asbestos-Cement Products, Other		43,897
		$ 133,885

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INDUSTRY NEWS

HAPPY BIRTHDAY

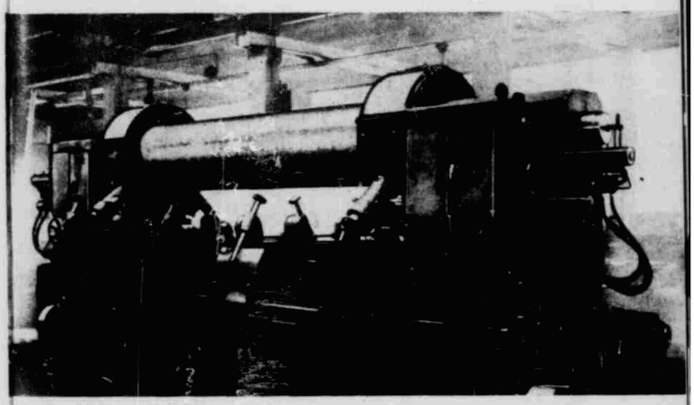
R. J. Berry, Vice President, Standard Asbestos Manufacturing Company of Cleveland, Ohio, September 15.
W. John Scotford, Manufacturing Division Manager, Wunderlich Limited, Sydney, N.S.W., Australia, September 15.
Albert Strodtbeck, Secretary, The Clark Asbestos Company, Cleveland, Ohio, September 17.
Charles Robert Neal, President, Metate Asbestos Corporation, Globe, Arizona, September 18.
Brigadier John Despard Christian, President, Cassiar Asbestos Corporation Limited, Toronto, Canada, September 19.
S. Ralph Zimmerman, Jr., Executive Vice President & Director, Raybestos-Manhattan, Inc., Manheim, Pennsylvania, September 19.
William R. Whitener, Sales Manager, Jefferson Lake Asbestos Corporation, San Francisco, California, September 20.
Philip M. Malouf, Vice President, United Asbestos Corporation Limited, Toronto, Canada, September 21.
Charles E. Masters, Vice President—Finance & Director, National Gypsum Company, Buffalo, New York, September 21.
Paul R. Sussman, President, The Sussman Asbestos Company, Toledo, Ohio, September 21.
Eugene H. Walet, Jr., President, Jefferson Lake 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. Limited, Marrickville, N.S.W., Australia, September 26.
D. W. Jaquays, President, Jaquays Mining Corporation, Phoenix, Arizona, September 27.
J. M. High, Sales Manager — Insulation Division, Mundet Cork Corporation, North Bergen, New Jersey, September 28.
John W. Humphrey, President, The Philip Carey Manufacturing Company, Cincinnati, Ohio, September 28.
James R. Connell, Vice President & Director, The Flintkote Company, New York City, September 29.
Colonel Sir William Charles Fenton, Chairman of the Board, British Belting & Asbestos Limited, Cleckheaton, Yorkshire, England, September 29.
Frank L. Sowka, Treasurer, Standard Asbestos Manufacturing Company, Chicago, Illinois, October 1.
George Courtauld, Director, The Cape Asbestos Company Limited, London, England, October 2.
Donald A. Bain, Sales Manager, Asbestos Erectors of Canada Limited, Montreal, Canada, October 3.
R. A. Denovan, President, Denovan Limited, Dalkeith, Ontario, Canada, October 4.

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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 c pipe of nom. width 800
on the workshop test bench

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Robert E. Skinner, Works Manager, Wunderlich Limited, Melbourne, Victoria, Australia, October 5.
John W. Brown, Senior Vice President for Sales & Director, 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, Canada, October 11.
H. R. Barrett, Executive Vice President & Director, The Philip Carey Manufacturing Company, Cincinnati, Ohio, October 13.

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

Everite Limited has announced that they are negotiating with the East London City Council to buy three plots of 15.3 acres in the Wilsonia industrial area for a factory. This new industrial area is being established by the East London City Council approximately 8 miles out of East London on the King William's Town Road, Cape Province, Republic of South Africa. It is the intention to build an asbestos-cement sheet products factory and possibly to produce other lines within the range of the Everite group. This plant is expected to give employment initially to about 30 Europeans and 200 Africans.

Pangani Mine, Southern Rhodesia's new £1,500,000 asbestos mine at Filabusi, was officially opened by the Prime Minister, Mr. Winston Field, on August 9th, 1963. The mine, which is being developed in three stages, will ultimately be the third largest producer of asbestos fiber in Southern Rhodesia. The first stage is the production of 10,000 tons of fiber a year. The second and third stages will each increase production by a further 10,000 tons a year. The first stage of development is expected to be completed this year at a cost of £1,000,000. It has been estimated that when the mine is fully operational, it will boost the country's asbestos exports by £2,250,000 a year. Mining will be mainly opencast calling for the removal of 4,500,000 tons of overburden before ore recovery can begin.

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Cashew Dusts & Polymers
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Projecting — Erecting — Handing over in ready-for-operation condition

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U. S. Rubber Six Month Report 1963 — Sales of the United States Rubber Company during the first six months of 1963 totaled $504,195,292 compared with the company's peak 1962 first-half sales of $511,140,395. Net income totaled $13,932,823, 2.7 per cent above the figure $13,564,722 recorded in the first half of 1962.

Second quarter sales of $269,404,405 established a new record for any quarter in the company's history. They compared with $234,790,887 during the first three months of this year and $269,057,703 during the second quarter of 1962. Net income was $8,560,699 compared with $7,864,158 for the second quarter of 1962.

Carey Six Month Report 1963 — Sales of The Philip Carey Manufacturing Company and subsidiaries for the first six months of 1963 amounted to $30,714,937 compared with $33,483,764 for the same months of 1962. Earnings were $606,378 compared with $1,015,649.

Sales for the second quarter of 1963 were $18,696,183 compared with $18,627,899 a year ago. As contrasted with a first quarter 1963 loss of $656,985, earnings of $1,263,363 for the second quarter of 1963 compared with $827,194 for the same 1962 quarter.

Carey Canadian Mines Ltd. Appointments

E. A. Boadway, President of Carey-Canadian Mines, Ltd., East Broughton Station, P.Q. has announced the appointment of G. C. Scowcroft as Vice President and Director and R. J. Merrill as General Manager.

G. C. Scowcroft has been General Sales Manager of The Philip Carey Company, Ltd. headquartering at the company's Montreal offices since 1952. Before joining Carey, he served in engineering sales, and management capacities throughout Canada.

Mr. Scowcroft is a graduate of the University of Saskatchewan in Civil Engineering. He and his family reside at 51 Elmwood Avenue, Senneville, P.Q.

Dr. R. J. Merrill joined Carey-Canadian Mines, Ltd., in 1948 as Geologist for the Quebec Asbestos Corporation, then a subsidiary of The Philip Carey Manufacturing Company. Since then, he has been Chief Geologist, Assistant Mine Manager and Mine Manager.

Prior to joining Carey, Dr. Merrill spent several years in mining and exploration work in Canada. He graduated from Queens University in mining engineering, served in the RCE, returned to Queens to obtain a Master's degree and completed his studies at Johns Hopkins for his doctorate.

He and his family reside at 434 Dube Street, Thetford Mines, P.Q.

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THETFORD MINES, QUE.

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Raw Asbestos Crudes

& Fibres

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for

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William A. Clemens has been appointed as Manager of the Philadelphia District Sales Office for Industrial Rubber Products and Mechanical Packings of RAYBESTOS-MANHATTAN, INC. He will direct sales activities in Delaware, Maryland, southern New Jersey, eastern Pennsylvania, Virginia and adjacent portions of West Virginia. The sales office is located at 1138 Suburban Station Building.

Melvin F. Cerruti has been elected to the new post of Executive Vice President of NATIONAL GYPSUM COMPANY.

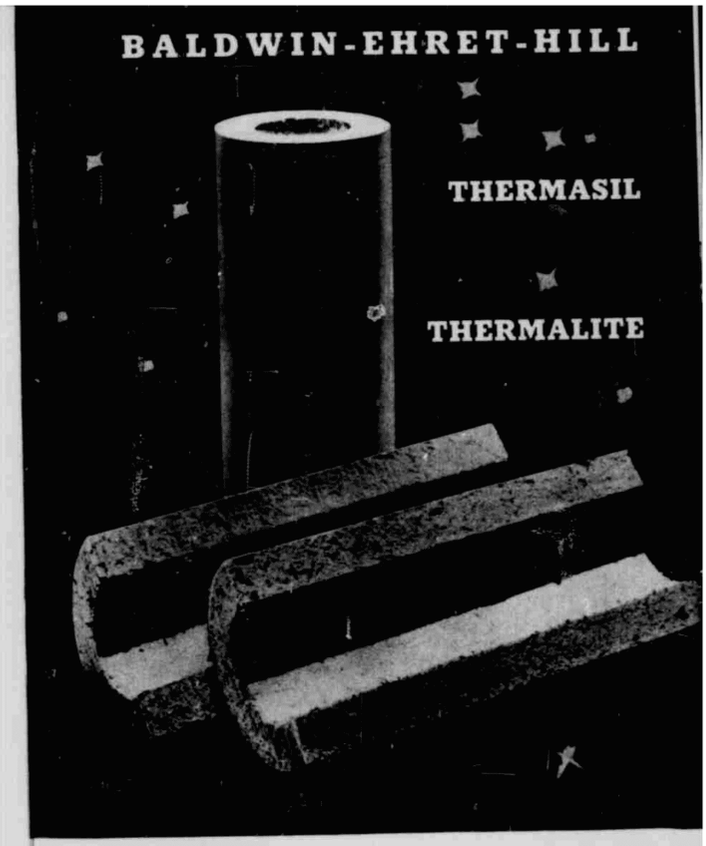
A native of Northampton, Massachusetts, Mr. Cerruti has been with National Gypsum for 35 years. He joined the company as a general line salesman in Boston, Massachusetts; was promoted to New York District Manager in 1936; became Eastern Division Manager in 1953; was promoted to General Sales Manager in 1956; was elevated to Vice President-Dealer Sales in 1958; and, named Vice President of Sales in 1961.

Walter H. O'Connell has been promoted to Vice President-Manufacturing, BALDWIN-EHRET-HILL, INC., Trenton, New Jersey, manufacturers of industrial and building heat and cold insulations, and a line of acoustical products. He will be responsible for the operations of the company's five plants located in Trenton, New Jersey; Kalamazoo, Michigan; Huntington, Indiana; Temple, Texas; and, Valley Forge, Pennsylvania. In addition, he will be in control of B-E-H's Central Engineering and Research Divisions.

Mr. O'Connell joined B-E-H in January 1956 as Senior Mechanical Engineer and rapidly progressed through the positions of Plant Engineer, Assistant Manager of the Trenton plant, Plant Manager, Chief Engineer, and last occupied the post of Manager of Manufacturing.

The above announcement was made by Edward R. Stevens, President of Baldwin-Ehret-Hill, Inc.

„ Tropag "
Hamburg —:— Ballindamm 6
Importers since 1909 of
ASBESTOS-ORES-MINERALS



BALDWIN-EHRET-HILL, INC
BEH
BALDWIN-EHRET-HILL
500 BREUNIG AVE. • TRENTON 2, N.
THE COMPLETE LINE OF INSULATIONS for use SUB-ZERO to 2100

Asbestos Corporation Six Month Report 1963—An interim statement of estimated earnings of Asbestos Corporation Limited for the first six months of 1963 has been submitted. Net income to June 30, 1963, was $805,113 against $1,147,802 for the first six months of 1962. Earnings for the full year of 1963 are likely to be under those of 1962 but the outlook for the long term remains favorable and consumption of asbestos fibre throughout the world continues to expand.

Turner & Newall Limited has announced that a new manufacturing and selling company is to be formed in the Republic of South Africa. Initially, the range of products to be manufactured will comprise brake linings, clutch facings and compressed asbestos fibre jointing. It is proposed that the company, which will be wholly owned by Turner & Newall Limited, should be called FERODO (PTY.) LIMITED. It is probable that a new factory will be erected on a site in Durban adjacent to the existing factory of Turners Asbestos Products (Pty.) Limited, the T&N subsidiary manufacturing asbestos-cement sheeting and pressure pipes. The new company will sell its friction materials under the FERODO trade mark and its jointing materials under the trade marks of Turner Brothers Asbestos Company Limited.

S.p.A. M.A.G.I.C. V. PAGLIERI

TURIN, Italy — Via Orbetello 152

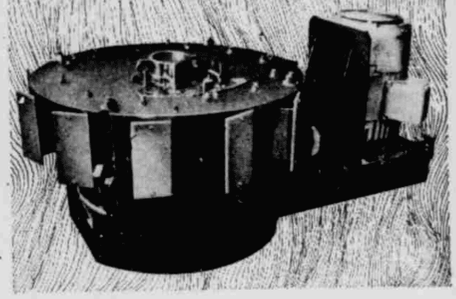
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Telephones: 290.036 - 290.246 - 296.991

Founded in 1920

Since the beginning of the Asbestos-cement pipe industry, we have specialized in the production of rubber rings for all kinds of couplings suitable to water, gas and hydrocarbon pipes. We are the only Company in the world that has been producing couplings made of rings for over thirty years.

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 14, Mich.

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

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CURRENT RANGE OF PRICE

As of September 10, 1963

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

No. 1 Crude (soft)	$1,475.00 to	$1,650.00
No. 2 Crude (soft)	800.00 to	1,000.00
Group No. 3 (Non-Ferrous Filtering & Spinning)	425.00 to	450.00
Group No. 4 (Plastic & Filtering)	385.00 to	400.00
Group No. 5 (Plastic & Filtering)	225.00 to	375.00
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.
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
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)	142.00

asbestos

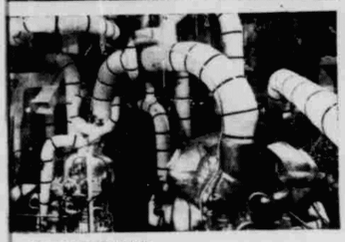
chrysotile, crocidolite and amosite fibres for:

Asbestos-Cement



Friction Materials





Insulation Materials



Asbestos Textiles

from Britain's largest distributors

Turners Asbestos Fibres Ltd

Asbestos House, 77/79 Fountain Street, Manchester 2, England
Cables: VULBESTON, MANCHESTER Telephone: CENtral 9381
A member of the Turner & Newall Group

TN 2/16

ASBESTOS STOCK QUOTATIONS

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

		August 1963		
	Par	Low	High	Last
Advocate Mines, Ltd.	1	$6.10	$6.80	$6.40
American Brake Shoe	np	51⅛	53⅞	53¾
Amer. Smelting & Refining (Com)	np	79	88⅜	85
Amer. Smelting & Refining (Pfd)	100	161	172½	171¼
Armstrong Cork (Com)	1	84¾	98	96½
Armstrong Cork (Pfd)	np	88	92	88¾
Asbestos Corporation	np	23¼	27	24
Philip Carey	10	24⅛	26	24⅜
Cassiar Asbestos Corp.	np	10⅜	11⅞	11¾
Certain-teed	1	14½	17⅛	15⅞
Fibreboard	np	25⅞	29	29
Flintkote (Com)	5	20¼	22¾	22⅜
Flintkote (Pfd)	np	90	90½	90
Jefferson Lake Asbestos	1	4½	7⅜	4½
Johns-Manville	5	46⅜	49½	49
National Gypsum (Com)	1	44¾	47¼	46½
National Gypsum (Pfd)	np	100⅜	103½	100¾
Porter, H. K.	100	97⅞	101	99¾
Raybestos-Manhattan	np	38	41¾	41½
Ruberoid	1	27	29½	29½
Seagrave Corp.	2½	10⅝	13¼	10⅞
Unarco Industries	5	11⅜	15¼	15
United Asbestos	1	$3.00	$3.25	$3.05
U. S. Rubber (Com)	5	44¾	49⅞	49⅝
U. S. Rubber (Pfd)	100	164¾	168	166

ac

International Asbestos Cement Review
An architectural quarterly devoted to the promotion of asbestos-cement, published in English, French and German editions
Circulation exceeding 44000
Editions Girsberger, 40 Kirchgasse, Zurich, Switzerland
(U. S. agents: Wittenborn & Co. 38 East 57th Street, New York 22)

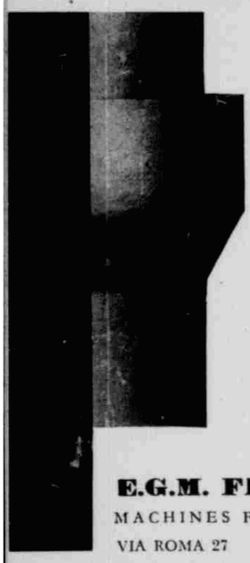


LAGGING IN FRONT

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.

BRITISH BELTING & ASBESTOS LTD
CLECKHEATON, YORKSHIRE, ENGLAND





plants for producing asbestos-cement pipes

Machines for producing asbestos-cement pipes with or without monolitic socket obtained using as the starting material a thick slurry by winding superposed layers and compressing them by means of mechanical vibrations over a rotating mandrel.

Machines particularly studied for employing short and very short asbestos fibres and for producing round or square and rectangular pipes with the socket solid therewith.

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MACHINES FOR ASBESTOS-CEMENT PRODUCTS

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NEEDLED FELTS

FOR

ASBESTOS CEMENT PRODUCTS

SIDING
SHEETS
PIPES
ASBESTOS PAPER
MILLBOARD

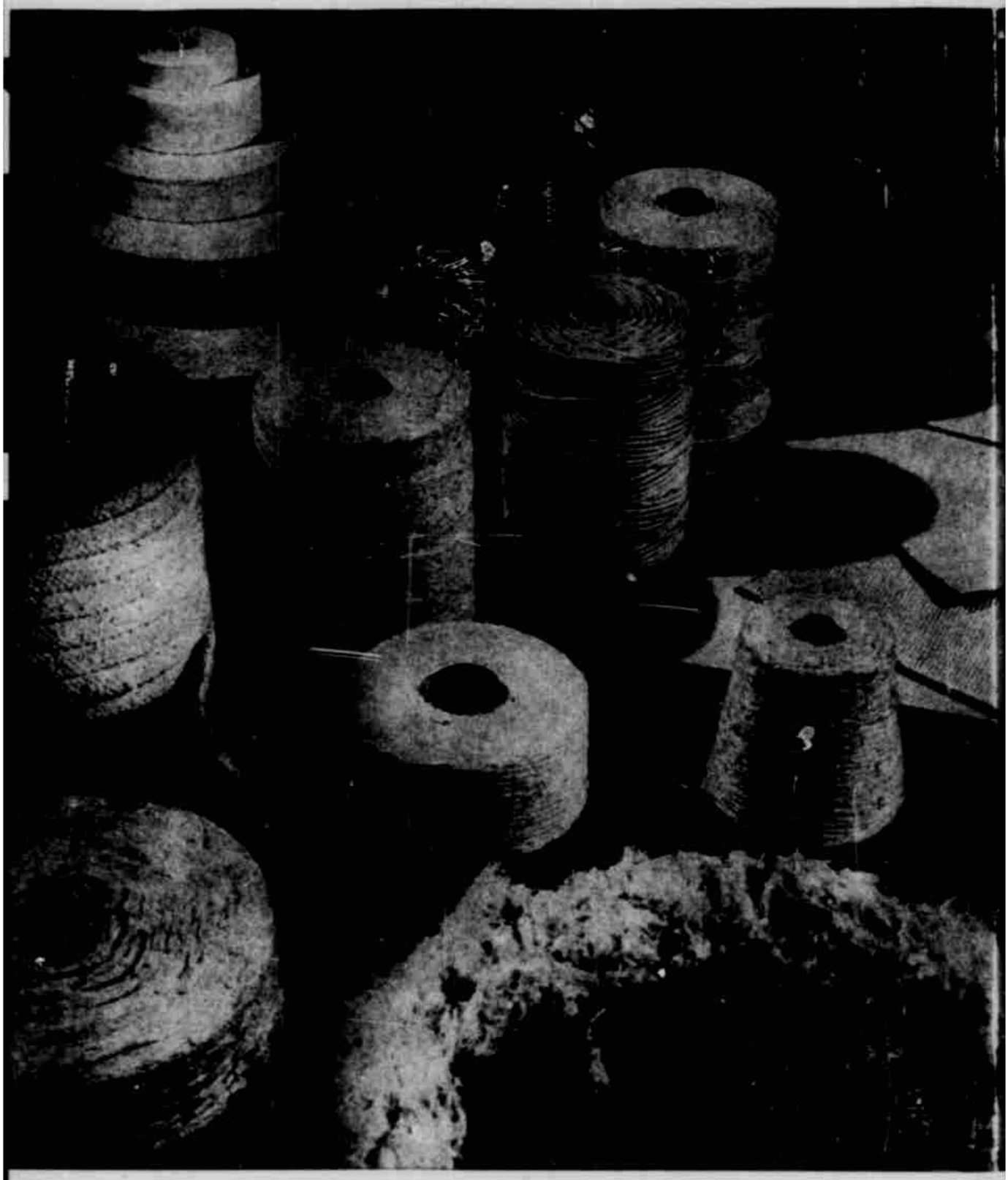
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WORLD'S FIRST MANUFACTURER OF NEEDLED FELTS

Greater durability — Uniform quality — Rapid delivery

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