ASBESTOS

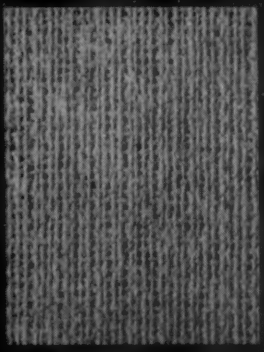


Vermont (U.S.A.) Crude *Courtesy The Ruberoid Co.*

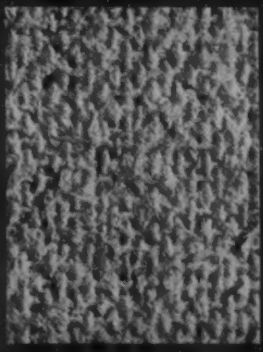
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NEEDLED FELTS FOR THE MANUFACTURE OF ASBESTOS-CEMENT PRODUCTS—No. 2 (*)

By J. Ford (Thos. Hardman & Sons Ltd. Bury, England)

In a previous article I proposed to indicate difficulties which had been encountered with the use of needle-reinforced all-Nylon felts and the modifications necessary to overcome them. The modifications suggested are simple and will almost always result in an improved performance no matter what type of felt is used.

Felt Size.

There are few asbestos cement machines where felts run perfectly true, as indicated by a perfectly straight bar or indication line across the felt. Felt manufacturers always put a black or coloured line across the felt to show how true the felt is running and attach much importance to this. The coloured line shows the width of the felt and this may be sixty inches. When, however, this line becomes bowed or diagonal and whilst it still measures sixty inches the effective width of the felt is reduced and so it becomes necessary to supply the felt in the first instance wider than sixty inches to allow for this distortion. Fortunately with needle-reinforced all-Nylon felts ravelling does not occur and so it is our practice to supply felts a little on the wide side initially and to ask the user to cut off the unrequired width. If we are advised of the surplus width, future deliveries can be made to the required size and we can and do supply to working tolerances of plus or minus 1½%. The needle-reinforced all-Nylon felt being of much more rigid constructions than a normal felt will generally run wider on the machine than expected.

Felt Length.

All-Nylon felts are the converse of cotton warp felts, inasmuch as they stretch in length somewhat when wet instead of shrinking. Thus the felts are supplied in a minimum length and generally the rack room available is sufficient to take up the stretch which will occur in the first eight hours or so. With the needle-reinforced all-Nylon felt this stretch is generally small, difficulties being generally only met when the felt is supplied initially too

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long. Consequently we always ask for the maximum and minimum length of felt run, but in our experience the regularity with which many mills, for one reason or another, install additional felt rolls at intervals convinces us that a more adequate stretching capacity would be a wise investment on many machines. On new machines a stretching adjustment of 15% of the mean felt run should be insisted upon.

Line Distortion.

Mention has already been made of the effect of line distortion on the felt width and the ease with which (after an initial trial) the felt manufacturer can cope with it. It is, however, well known and has often been pointed out that line distortion closes up the weave and in the case of bowing causes different degrees of porosity across the felt. What is not generally appreciated, however, is that the line distortion is caused by minutely different lengths of felt run at various places across the machine caused by faulty alignment, distortion or asbestos cement build up of the rolls. This causes the felt to run into itself till the warp threads are so close that their resistance to further closing is greater than the adhesion of the felt to the roll, with the consequence that for the rest of its life part of the felt is slipping slightly on the roll, which of course causes increased wear on the underside of that part of the felt. This fact explains why a felt rapidly settles down to its usual line of distortion and stays like this for the rest of its life (unless adjustments are made in the meantime) and why a loosely woven felt will run more out of true than a more tightly woven one (because the warp threads can run nearer together).

Felt Slipping.

Because Nylon has the reputation for being a slippery fibre Nylon felts have been accused of slipping, but the needle-reinforced all-Nylon felt is much rougher and has a much higher coefficient of friction than a conventional all-Nylon felt and consequently slipping is unusual. We have only known it to occur where special products were being made which were very wet and an extremely high vacuum was employed on the suction box. The obvious solution and the one which will improve the result obtained

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from all types of felt is to fit a larger diameter driving roll. Some far sighted users have installed an additional driving roll coupled to the original driving roll. The problem should, however, be considered from the point of view of why the felt is slipping. This is always due to drag or friction and the only place where this need cause comment is at the suction box. The solution to sticking rolls is obvious. Probably the suction is in excess of 8 ins. of Mercury. Is this due to the nature of the product or due to inadequate washing causing the felt to become blind? If it is the latter then increasing the vacuum only makes the blinding worse and attention should be given to felt cleaning, q.v. If due to the former, and indeed to help the latter, remember the old adage of "little and often" and fit an extra suction box. Alternatively increase the suction box area and so reduce the vacuum to remove the same amount of water. There are so many examples of spreading the load that it is surprising so many machines run with only one small suction box.

Felt Blinding.

If a felt is to produce two, three or four times the amount of material then it is more likely to accumulate an excessive amount of material within the body of the fabric and with the potentially long life of the needle-reinforced all-Nylon felt it is inevitable that unless it is adequately cleaned it will become blind before it is worn out. Felt batters or whippers are insufficient and wear a felt quickly, and your attention is drawn to the remarks on felt cleaning. However, if a felt does become blind then it can best be effectively cleaned by neutralizing the deposits with hydrochloric acid, care being taken not to cause damage either to the felt or to the machine.

Felt Cleaning.

With each felt we enclose directions giving guidance in the use of all-Nylon felts. We think we can do little better than to repeat the instructions on cleaning which many users received over twelve months ago but which are still very relevant.

Guidance in the use of All-Nylon Felts.
Cleaning.

If any felt is to give its full life it is important that

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THE NEW HARDMAN
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it be kept clean. The best way of ensuring this is to use a high pressure water spray on the *inside* of the felt and it is useful to take away surplus water by a suction box acting on the *face* of the felt after the high pressure water spray. The all-Nylon felt is strong and is well able to resist a high pressure spray, but it is important that the felt be supported by a roll at a point very near that where the spray actually hits the felt. It has been found by experience that the water spray should be directed onto the felt about one inch either before or after the top centre of the carrier roll and this can with advantage be followed by a fan spray pouring water over the inside of the felt. The purpose of the fan spray is to seal the suction box and to allow water to be drawn through the whole of the felt, and there is no necessity for any pressure to be used on this spray. The high pressure spray can oscillate from side to side. The system shown in Sketch "A" will be found efficient in keeping the felt open and in good condition, and is recommeneded for all types of felts, but particularly for the needled re-inforced all-Nylon felts which we supply.

An alternative to this, Sketch "B", which gives good results if adequate supervision is given to the process, is to acid clean the felt and for this purpose we recommend a solution of 10% commercial hydrochloric acid, HCl. The asbestos cement slurry is emptied from the vats, the vacuum box shut off and the squeeze rollers lifted, the water spray is turned off and about 100 gallons of 10% HCl sprayed onto the moving felt from a bronze spray pipe. The acid treated felt should run round the machine for about five minutes or until effervesence ceases. The water spray should then be turned on and the felt washed thoroughly for five minutes. After opening the vacuum boxes and adjusting the squeeze rolls the machine is again ready for production. Acid washing may be carried out satisfactorily by watering cans as used in horticulture providing the operator exercises great care in applying the acid evenly over the felt. The acid readly attacks the watering can and a bronze spray pipe is much superior.

We can only give a general guidance on felt washing, but we strongly recommend the high pressure water spray.

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Whilst we feel the acid treatment should be used rather as an emergency method we have customers who regularly use it with every satisfaction.

Washing is satisfactory if ultimately the felt is worn into holes without being choked, unsatisfactory if ultimately the felt has to be taken off through being choked and blind before wearing out.

We believe the system shown in drawing "A" to be the best at present available, but much depends on the high pressure spray "B". It has been found that when the pressure is too high the felt can be damaged before the end of its life. Perhaps the term "pressure" is a misnomer for it is really the velocity of the water jet which cleans the felt and which can damage the felt. One can readily see that a tiny jet impinging on the felt at an extremely high velocity week on end will ultimately shear through the cross threads and it is not at present practicable to give precise information as to what is the ideal in either velocity or pressure. So much depends on the amount of cleaning that has to be done, but certainly care should be taken not to use a greater pressure than is necessary to keep the felt clean. As a general guidance we prefer the pressure not to exceed 100 lbs. per sq. inch. We have, unfortunately, seen instances where a new cleaning arrangement has been installed and where operatives have put on the maximum pressure only to be disappointed at the end of the second week by finding slits coming into the felt caused by the terrific velocity of the high pressure water cutting the weft threads.

Another alternative is to take the felt off the machine weekly and to wash it in weak acid. Where time and facilities are available this method gives very satisfactory results.

And so, unfortunately, we can only make general recommendations on felt cleaning. It is something which has to be worked out by each individual user, but our services are always available to give advice to those who seek it.

In conclusion let us reiterate that these notes, whilst written specially for usage with the needle-reinforced all-Nylon felt apply equally to all types and their general

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Pipe and Block Insulation for Heat and Cold
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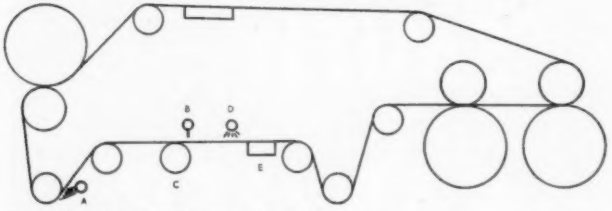
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adoption would in many instances prove an economy. Let me also pay tribute to all those engaged in the asbestos cement industry whose help and encouragement have enabled me to compile these notes.

No. 1 Article—See January 1959 "ASBESTOS"

SKETCH A



To Go Under Sketch "A" of articles ....

THE PURPOSE OF

"A" WATER SPRAY on the face of felt is to clear adhesions from the surface of the FELT and is consequently *set at an angle to the FELT.*

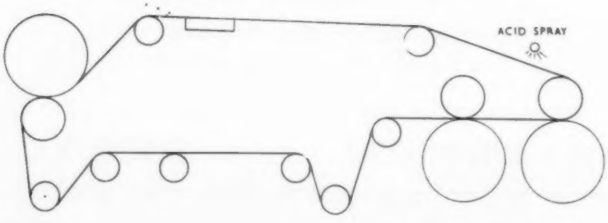
"B" HIGH PRESSURE OSCILLATING WATER SPRAY set to spray just after centre of carrier roll is to force back to the surface of the FELT matter which tends to close the interstices of the FELT. THIS IS THE MOST IMPORTANT SPRAY.

"C" CARRIER ROLL is to support the FELT against the high pressure spray and to provide a slight suction by setting the spray just after the top centre of the roll.

"D" LOW PRESSURE FAN SPRAY is to put a pool of water over the FELT immediately before the suction box to
1) seal the suction
2) Clean out the interstices of the FELT already cleared by the high pressure spray.

"E" SUCTION BOX on face of FELT is to remove the surplus water from the FELT.

SKETCH B



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A NEW PROCESS FOR THE SEPARATION OF ASBESTOS FIBRE FROM CRUSHED ROCK

By C. V. Smith

In Canada, mining and milling of asbestos fibres commenced about 1878. Progress for improvement in the separation of rock and fibre was slow and the first mill utilizing aspiration was erected in the Thetford Mines area in 1888 followed by a second installation in 1893. For seventy years, various experiments were made but aspiration continued to be the only acceptable means of separation.

With increases in capacity of modern mills and the resulting vast requirements for capital equipment to provide the necessary ten tons of air for each ton of ore milled, a new process of mechanical separation became more important. Maintenance cost to keep the screens, transportation equipment, collectors, fans, filters, motors and miles of piping in operation, has become a big item of operational expense.

Over a period of twenty-eight years, experiments with the new process, which started in the author's garage in 1930, developed through various stages until in July 1954 a prototype production machine was built and, following certain modifications, operation indicated that the process would be successful.

Milling research with various types of process belts and further modifications to the mechanical features were finally consolidated into an improved unit for production purposes, and eight units were built and put into operation, processing roughly 3,000 tons per day. From experience gained from operation of these machines, the latest improved design has been produced and interest is now being expressed from all parts of the world.

The Smith Separator is an inclined conveyor belt operating at a fairly steep angle and over drums at rather short centres.

Instead of idlers, the belt is supported on rotating beaters operated by the belt. With a perforated belt or wire mesh screen, these beaters cause an excellent screening action that cannot be surpassed. The upside down posi-

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tion of the return belt renders the belt *self-cleaning* and it *never blocks.*

The principle of this method of separating asbestos fibres is to provide a very thin layer of ore delivered by a controlled feeder and dropped a reasonable distance on to the belt. The tendency is for the rock to bounce, roll or slide off the belt or screen at the lower end. Since the belt is running upward and the fibre does not slide, it is delivered over the top. With a screen or perforated belt, fines pass through and are delivered below.

Depending upon the requirements of the user, two types of feeders may be employed. If a clean separation of rock and fibre is necessary, the intermittent type of feeder is used, which allows an instant for fibre and rock to become separated after contacting the process belt. The following supply of feed then lands on a clean surface for similar treatment. If a continuous feeder is used, a small portion of fibre may be carried down due to interference from rock particles moving toward the reject end of the process belt.

One of the great advantages of this revolutionary method of separation is that it is now possible to feed and treat 25 to 30 tons of ore per hour with only 3 H.P. and without the use of costly aspiration equipment. Immediately after rock fiberizing, the undamaged free fibre and fines may be separated and rock or sand may be passed for further treatment or discarded to tailings. Experiments to date have also shown a very efficient separation of free fibre from wet rock storage ore. This should have interesting developments due to reduction of drying costs in non rotary types of dryers which can separate fibre and efficiently dry at the same time.

It is possible with a minor addition to an existing mill, to remove all free fibre at an early stage at low cost and then pass it to fibre bins for further treatment. Alternatively, treatment of shorts or tailings with fine mesh process belts will produce exceptionally good results. Recent experiments have proven that clean fibre from the several stages of milling can be produced without the use of one pound of air.

For new mill designs, it is estimated a space saving of

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thirty percent is possible due to the elimination of aspiration equipment with resulting proportional reduction in capital and operating costs.

The inventor, Mr. C. V. Smith, has been associated with the asbestos industry since 1913, during which time he worked with a number of asbestos companies until his retirement from Johnson's Company of Thetford Mines in 1955.

The manufacturing and sales distribution are handled by Lynn MacLeod Engineering Supplies, Ltd. of Thetford Mines, Que., where units are available for processing of ore samples for the Industry.

ASBESTOS—A SYMPOSIUM OF ARTICLES BY M. S. BADOLLETT, B.S., M.S., Chem. Eng.

A series of papers, on Asbestos, as published in The Canadian Mining and Metallurgical Bulletin, 1948-58, has been assembled into a symposium by the Quebec Asbestos Mining Association.

This collection of papers will be a valuable addition to any asbestos library. Copies are available at the Quebec Asbestos Mining Association, Thetford Mines, P. Q., and at the Canadian Institute of Mining & Metallurgy, attention of Mr. G. Gerow, Drummond Building, Montreal, P. Q., Canada.

NEW MANAGER FOR ASBESTOS-CEMENT PRODUCTS ASSOCIATION

Norton B. Jackson was named Manager of the Asbestos-Cement Products Association, R. J. Tobin, Association President, announced February 12th, at the Association's New York headquarters.

Mr. Jackson formerly was Executive Director of the Point-Of-Purchase Advertising Institute.

The Association is composed of leading manufacturers of Asbestos-Cement building products.

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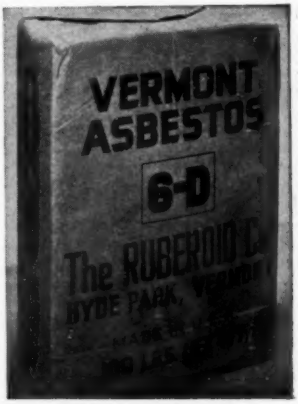
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Order asbestos fibres economically through Ruberoid space-saving Pressure packages. These compact 100-lb. packets offer you all the quality of Ruberoid asbestos in a pressure-compacted package with these economies:

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Asbestos Fibre Dept., 500 Fifth Ave., New York 36, N.Y.

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ASTM TO ORGANIZE NEW DIVISION ON MATERIALS SCIENCES

A new Division on Materials Sciences will be organized by the American Society for Testing Materials to coordinate and intensify the development of knowledge of the fundamentals of materials. The new division, the first to be established by ASTM, will augment in depth and scope the Society's long-time objectives of promoting knowledge of engineering materials and tapping new sources of knowledge for the Society's extensive standardization activities. The division will concern itself with the collection, establishment, and publication of basic information essential in creating a better understanding of materials and their properties, and especially will help to answer "why" materials are what they are.

The ASTM National Directors coming from many materials fields and industries, recognize the importance of placing more emphasis on fundamentals in view of the rapid growth of technology. Since its inception in 1898, the Society has published hundreds of technical papers and outstanding symposiums dealing with problems which are fundamental to our knowledge of why materials act the way they do. For example, a publication just being issued, "The Mechanism of Fatigue," deals almost entirely with the fundamentals of this phenomenon. The extensive nation-wide studies of corrosion-resisting properties of materials, on effect of temperature on metals, and many activities carried on in technical committees concerned with petroleum products, cement, soils, electrical contacts, and a host of other materials, contribute to fundamental knowledge. The studies also reveal areas where more basic information is needed.

The great need for intensifying our basic knowledge of materials strongly justifies profiding a special place in the Society for concentrating in this area and for bringing together scientists and specialists from different fields.

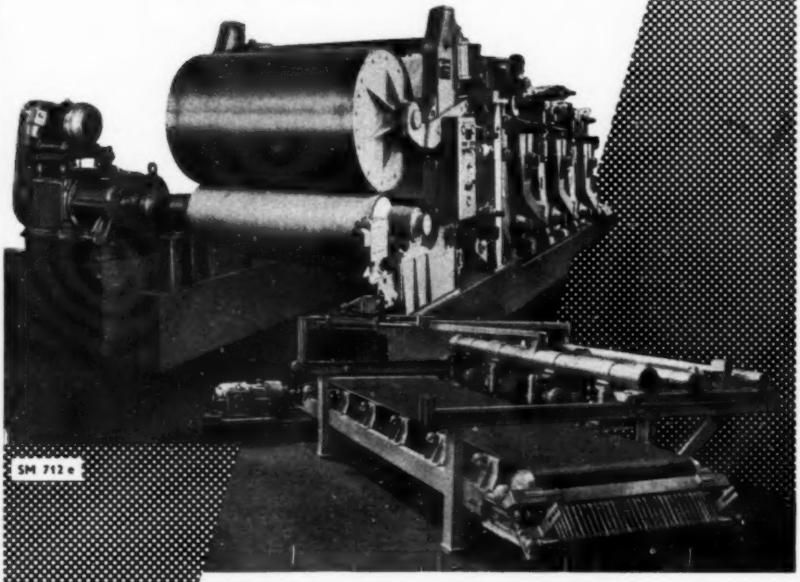
ASTM is in a unique position to provide a forum for materials scientists and engineers as its interests and long-time activities cut horizontally across the entire ma-

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Economical IN ALL STAGES

One of the most essential conditions of every production is a rational procedure throughout the total working process.
J. M. VOITH A.G. ST. POELTEN build plants with semi- or full-automatic lines of production for asbestos cement sheets covering the whole machinery from the stock preparation to the testing apparatus for finished products which guarantee a maximum of efficient and economical working procedure.

The Machines are designed for the following sizes:
PLAIN SHEETS
Thickness from 4 to 20 mm (0.157 to 0.788 in.)
Sizes up to 3200 x 1350 mm (126 x 53 in.)
TILES in standard sizes
CORRUGATED SHEETS
Sizes up to 3200 x 930 mm (126 x 36.6 in.)



SM 712 e

Asbestos cement sheet machine with 3 cylinders, operation side, cutting table with cutting carriage.

J.M.VOITH A.G. - AUSTRIA

St. Poelten, P.O.B. 148, Telephone 33 01, Telotype 01 510, Telegramme address: Voithwerk St. Poelten.

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terials field. Here there is common ground for the physicist, the chemist, and the engineer in a variety of fields—electrical, mechanical, civil, chemical and many more.

The team approach representing these many disciplines is not new in ASTM as this is the way the Society's 80 technical committees have functioned for many years. Research activities relating to fundamentals under way in many of the committees will continue as now organized. The new division can assist or aid in coordination.

Many feel that if the Society's important work—concentrated on "Research and Standards for Materials"—is to expand and keep pace with scientific developments and provide industry with the essential data and standards needed to continue its healthy growth, there must be organized efforts on fundamentals.

This recommendation for a new division is one of several initiated by the ASTM Long-Range Planning Committee. Other developments have included an Administrative Committee on Education in Materials which has a program under way, and decisions to award certain Fellowships and "Grants-in-Aid" for materials study.

It is expected that members of this new ASTM division will include many now active in ASTM committee work, as well as other members of the Society; and invited to participate will be other leaders in science who are concerned with the basic problems involved.

Actual development of the division has been entrusted to a group of four officers—President K. B. Woods, Head, School of Civil Engineering, Purdue University; two ASTM Vice-Presidents: F. L. LaQue, Vice-President and Manager, Development and Research Division. The International Nickle Co., Inc., and A. Allan Bates, Vice-President of Research and Development, Portland Cement Association; and Executive Secretary Robert J. Painter.

In establishing the division, the Directors are conscious that this might be the first step in a better coordinated arrangement of the Society and its 80 operating technical committees.

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You can cut fibre handling costs!



Shipment of Carey Asbestos Fibre and Shorts in pressure-packed paper bags offers the possibility of cost savings on:

1. Unloading cars.
2. Warehouse space.
3. No loss of fibre in bag.
4. Less freight charges on lower net weight paper bags vs jute bag.
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Additional cost savings may also be accomplished by shipment of pressure-packed paper bags unitized-loaded on an expendable paperboard pallet. Carey-Canadian unitizes a 3500 lb. load on an expendable paperboard pallet permitting easy removal by fork lift truck from the freight car. *87%* of the car can be unloaded in this manner, thereby saving many man hours.

Ask your Carey-Canadian Fibre Sales Engineer or write any of the addresses below for complete details:

Carey® **ASBESTOS FIBRE**

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The Philip Carey Co., Ltd., Ville St. Laurent, Montreal 9, P.Q.
The Philip Carey Company, Lockland, Cincinnati 15, Ohio

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CANADIAN SPECIFICATIONS

The list of Canadian Specifications has been revised as of January 2, 1959 and a copy can be obtained from the Secretary, Canadian Government Specification Board, National Research Council, Ottawa 2, Canada, at 10¢ each (except otherwise noted).

The following Asbestos materials are included in the list:

34-GP-1a	Pipe; Asbestos-Cement, Pressure
34-GP-2	Pipe; Asbestos-Cement, House Connection
34-GP-3	Shingles; Asbestos-Cement, Roofing
34-GP-4	Shingles; Asbestos-Cement, Siding
34-GP-5a	Sheets; Asbestos-Cement, Corrugated
34-GP-7a	Methods of Sampling & Testing Asbestos-Cement Products
34-GP-8	Conduit; Asbestos-Cement, Electrical
34-GP-9a	Pipe; Asbestos-Cement, Sewer
34-GP-10	Pipe; Asbestos-Cement, Industrial Vent
34-GP-11	Pipe; Asbestos-Cement, Flue
34-GP-12	Sheets; Asbestos-Cement, for Electrical Purposes
34-GP-13	Sheets; Asbestos-Cement, Dielectric
34-GP-14	Sheets; Asbestos-Cement, Flat, Decorative
34-GP-15a	Sheets; Asbestos-Cement, Flat Flexible
34-GP-16	Sheets; Asbestos-Cement, Flat, Fully-Compressed
34-GP-17a	Sheets; Asbestos-Cement, Flat, Semi-Compressed
51-GP-1	Thermal Insulation (Amosite) for Piping, Machinery & Boilers for Marine Use
51-GP-2	Thermal Insulation (Calcium Silicate-Asbestos) for Piping, Machinery & Boilers for Marine Use
51-GP-3	Thermal Insulation (85% Magnesia) for Piping Machinery & Boilers for Marine Use
51-GP-4	Thermal Insulation (Diatomaceous Silica-Asbestos) for Piping, Machinery & Boilers for Marine Use (15 cents)
51-GP-5	Thermal Insulation, Back-Up
51-GP-6	Cement, Insulating (15 cents)
51-GP-7	Cement, Finishing
51-GP-8	Asbestos Cloth & Twine for Use with Thermal Insulation (15 cents)

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Australian Blue Asbestos Limited



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

SOLE SELLING AGENTS

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

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

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

CSR
BUILDING PRODUCTS

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BUILDING

Substantial gains in contracts for housing and highways boosted the construction industry to its 11th consecutive record year in 1958 according to a year-end review of construction contracts just published in Building Business, monthly bulletin of F. W. Dodge Corporation.

The cumulative total of contracts for future construction in the United States (excluding Alaska) in 1958 amounted to an all-time high of $35,090,000,000, a gain of 9 per cent compared to 1957.

The review, written by Dodge vice president and economist Dr. George Cline Smith and associate economist Edwin W. Magee, Jr., notes the following highlights:

The record year was realized despite a recession in the first quarter of 1958.

Contracts for housing and highways accounted for just about all the increase in 1958, as compared with 1957.

Contracts for government-owned projects rose much more rapidly than the private ownership sector, although the latter began to rise sharply in the second half of 1958.

One important category, industrial building, remained weak throughout 1958. It's expected that this situation will change as business improves and as the economy continues to grow.

Apartments accounted for a larger share of the total dwelling units than in any year since 1951. They accounted for 17 per cent of the units reported in 1958, as compared with 14 per cent in 1957 and 10 per cent in 1956.

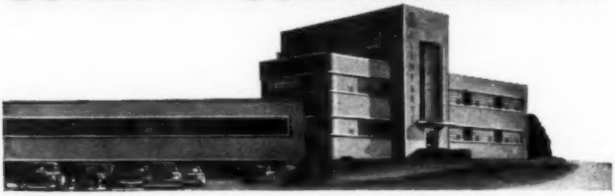
Contracts for enducational & Science buildings were one per cent below 1957. This point is significant only because it marks the first time in the post-war period they failed to register an increase.

Releasing details of Dodge construction contract figures not ordinarily made public, the review stated that the greatest percentage increase in dollar volume of contracts in any single building type occured in apartments, with contracts in this classification 43 per cent ahead of last year.

Notable increases were also recorded in contracts for public buildings, social & recreational buildings, electric light and power systems, and public works.

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QUALITY-CONTROLLED...



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

...FLINTKOTE Asbestos Fibres

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

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

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

FLINTKOTE MINES, LIMITED

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



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MARKET CONDITIONS

GENERAL BUSINESS.

As this is written, the stock market has just reached an historic high. Penetration of the 600 level in the Dow Jones Averages on a heavy volume of trading indicates an underlying confidence on the part of investors in the continuance of the upward trend of business activity.

Actually the rate of the rise in general business has slowed down over the past few months but economists are inclined to regard this as a "breathing spell" in preparation for further improvement in the very near future.

Steel production continues its rapid rise, aided somewhat by inventory accumulation in anticipation of a strike this summer.

Industrial production continues to increase on the whole and a general build-up of inventories appears to be in the offing in view of the present low level in many lines.

It now seems certain that the large automakers will all introduce small or "economy" cars by the end of the year. This may adversely affect the new car market if prospective buyers adopt a "wait and see" policy.

One disturbing factor is the continued high level of unemployment. Labor leaders are taking this, coupled with the current high level of industrial production, as an indication that much of this unemployment is technological in nature, and that the next big labor push should be for a shorter work week. The opening of negotiations with the steel industry will probably indicate how seriously labor will follow this line.

ASBESTOS — RAW MATERIAL.

Shipments of raw asbestos during January were slightly under those for the same period last year. However, we feel with the general expected uptrend in other phases of industry, the year should slightly exceed 1958; January being one of the low months of the year due to close of navigation.

All grades of fibre are in ample supply with usual high inventories on hand during this period of the year.

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Now . . .
starting from the usual

WET ASBESTOS-CEMENT SHEET

A NEWLY-DEVELOPED LINE OF MACHINERY

(Patents Marchioli & Gremigni)

for manufacturing



FITTINGS

OF EVERY SHAPE AND DIMENSION



—TOUGH
—RESILIENT
—COMPACT
—WATERPROOF

PLANTS ALREADY IN OPERATION IN OUTSTANDING FACTORIES

Inquiries for Details, Quotations and References are welcome.

ING. G. MARCHIOLI
22 Morgagni, Milan, Italy

Cable: MINITA—MILANO **Phone: 26 67 27**

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ASBESTOS — MANUFACTURED GOODS.

Asbestos Textiles. There has been some improvement in this market on specialty items. Competitive conditions are anticipated on standard items but good business should be available on specialties.

Asbestos Paper. Orders for this material have increased somewhat during the past month and prices continue to be very competitive for this business. It is expected that volume for Asbestos Paper will increase over that of last year. Orders for *Millboard* continue to diminish and competition exists for that volume which is available. It is anticipated that volume for this material for the balance of the year will be about the same as last year. Orders for *Saturated Paper* are slow at present but outlook for rest of year is good.

High Pressure Insulation. Improvement is anticipated in the near future although a limited number of contracts are being awarded at the present time. Prices continue to be competitive among all classifications of buyers, and a significant volume is to be realized from f. o. b. sales.

Low Pressure Insulation. Weather conditions around the country have had a strong effect on the use of this material and the demands are coming in very slowly. It is expected that the volume for this product will be about the same as last year.

Asbestos Cement Products. The market situation at present has improved on asbestos siding and heavy corrugated asbestos. Flat sheets and light corrugated are about the same. The *Asbestos Cement Siding Industry* is on the lower end of a curve and with new products and new styling entering into the picture, this curve should gradually extend upward.

A-C Pipes. Business is seasonally slow but somewhat better than for the same period last year; however, outlook remains good.

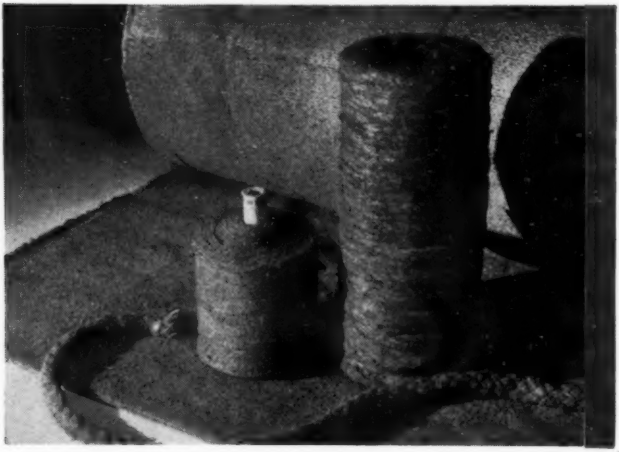
The above comments have been made by various informed executives in the Industry. All comments are welcome.

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NORAMITE

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

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



NAAC

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

CAPE

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

Subsidiaries of The Cape Asbestos Company, Ltd., London

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Canada

(Dept. of Mines, Province of Quebec)

Tons 2,000 lbs.

Production for December 1958 (Quebec)	58,153 tons
Other Provinces	4,967
	63,120

Total production for December 1957 was 52,187 tons

Africa (Rhodesia)

(Published by Rhodesia Chamber of Mines)

Tons 2,000 lbs.

Production for October 1958	9,970.40 tons
Valued at £639,402	
Production for October 1957	11,515.72 tons
Valued at £786,950	

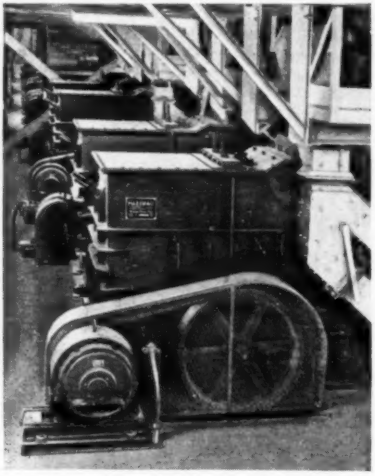
AUSTRALIA—STATISTICS

(Published by Bureau of Mineral Resources)

Tons 2240 lbs.

	Quarter Ending June 30, 1958
Production	
Chrysotile	575 tons
Crocidolite	2,968
	3,543
Imports	
Amosite	2,671
Chrysotile	4,109
Crocidolite	51
Other	181
	7,012
Exports	
Chrysotile	46
Crocidolite	2,684
Other	3
	2,733

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View of an Asbestos Milling Plant in Canada incorporating ten AP 4 HAZEMAG Impactors (Andreas system) rated at 60 TPH each.

Leading Asbestos Mines throughout the world rely on HAZEMAG Impactors (Andreas system) for profitable solution of their milling problems!

HAZEMAG Impactors greatly simplify the flowsheet by eliminating several milling stages.

Thanks to their selective action HAZEMAG Impactors open the fiber by crushing only the serpentine or rocky portion of the feed.

HAZEMAG Fiberizers open the asbestos without shortening the fiber or causing damage to its structure, so as to furnish a high-grade fiber product.

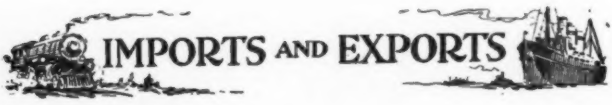
Details, proposals and advice by experienced specialist engineers are available from

HAZEMAG USA Inc.
New York 17/N. Y., 122 East 42nd Street, Room 3702

HAZEMAG CANADA LIMITED
Montreal 6, Quebec/Canada, P.O. Box 66, Mtl. Stn. "Victoria"

HAZEMAG HARTZERKLEINERUNGS- UND ZEMENTMASCHINENBAU-GESELLSCHAFT MBH
Münster i. W./Germany, Loddenheide 31, Postfach 576

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Imports Into U.S.A.

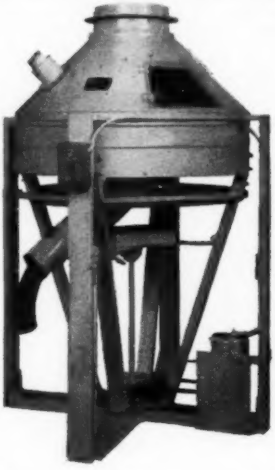
(Figures by Bureau of Census)

Unmanufactured Asbestos:	September 1958
From: Canada	61,579
Union of S. Africa	2,087
Australia	134
Rhodesia	939
United Kingdom	50
Other Countries	45
	64,834
Valued at	$6,579,815
By Grades:	
Crude No. 1, Chrysotile, Rhodesia (Ny)	179
Crude No. 2, Chrysotile, Canada	13
Crude, Other, Chrysotile, Canada	17
Crude, Other, Chrysotile, Rhodesia (Ny)	660
Crude, Other, Chrysotile, Other Ctys	4
Crude, Blue, Australia	134
Crude, Blue, U. of S. Africa	1,205
Crude, Blue, Rhodesia (Ny)	100
Crude, Blue, Other Ctys	10
Crude, Amosite, U. of S. Africa	882
Textile Fibres, Canada	1,254
Textile Fibres, Other Ctys	26
Shingle Fibres, Canada	13,148
Paper Fibres, Canada	5,143
Other Fibres, Canada	42,004
Other Fibres, United Kingdom	50
Other Fibres, Other Ctys	5
	64,834

Manufactured Asbestos Goods:	September 1958 Quantity (lbs.)	Value
Asbestos Yarn, United Kingdom	27,446	$ 19,657
Asbestos Yarn, Others	16,754	6,966
Asbestos Packing	9,049	7,350
Asbestos Shingles (Impreg.)	34,800	2,130
Asbestos Shingles (Not Impreg.)		
Canada	369,444	41,398
Belgium	786,473	52,195
Italy	1,794,787	81,139
Other Countries	73,780	4,731
	3,112,533	$215,566

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150
used in Asbestos Industry



Bauer

Specific Gravity Separators

Asbestos processing plants are using 150 Bauer Specific Gravity Separators for cleaning fiber. The machines are available in two sizes with 1 to 5 T/hr. capacity.

They require less air than other types of cleaners. They handle Nos. 4 to 8 fibers.

The separators remove small grit, rock particles, blasting wire, wood particles, and many other kinds of debris. Ask for particulars.

THE BAUER BROS. CO.

1826 Sheridan Ave. • Springfield, Ohio

Canadian Agents: — Lynn Macleod Engineering Supplies, Ltd., Thedford Mines, Quebec.

Export Agents: — M. Neumunz & Son, Inc., 90 West St., New York 6, N.Y.

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Exports From U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	November 1958	
	Tons (2240 lbs.)	Value
To: Europe	123	$19,011
Canada	..	..
Mexico	39	3,784
South America	28	4,409
United Kingdom	25	2,880
Other Countries	102	15,131
	317	$45,215

Manufactured Asbestos:

	November 1958	
	Quantity	Value
Asbestos Cement & Pipe Covering Lbs.	324,346	$ 69,196
Asbestos Textiles & Yarn ..... Lbs.	50,400	63,588
Asbestos Packings ..... Lbs.	106,439	166,501
Asbestos Clutch Facings ..... Lbs.	184,414	145,006
Asb. Bk. Lng. (Mld. & S. Mld.) Lin. Ft.	141,979	63,311
Asbestos Brake Lining, Other .... Lbs.	457,565	358,551
Asbestos Construction Materials .. Lbs.	2,081,212	166,291
Asbestos Manufactures—Others	..	43,551
	3,346,355	$1,075,995

ARMSTRONG CORK COMPANY

Excelon Tile

Four of the existing patterns in the Metallic design series of Excelon Tile are now available in a 3/32-inch gauge for use in commercial-institutional buildings, Armstrong Cork Company has announced.

All patterns in this line of vinyl-asbestos flooring with metallic accents are also available in Service (1/16-inch) gauge.

The four patterns in a straight-grain styling—white, black, ivory and redwood, each with gold highlights—are being made in the heavier 3/32-inch thickness, the Company reports, in response to requests from architects, designers and decorators. The flooring may be installed on, above or below grade-level, with the 3/32-inch gauge recommended for commercial traffic areas

The introduction of the Metallic series in Excelon Tile marked the first time that metallic effects were available in vinyl-asbestos flooring. The metallic gold accents found in each pattern offer the same high resistance to wear, soiling, indentation and scratching as the composition of the Excelon Tile itself.

The Metallic series includes both straight-grain and Spatter effects, with the four Spatter patterns made only in Service (1/16-inch) gauge.

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JEFFERSON LAKE SULPHUR
TO DEVELOP ASBESTOS DEPOSIT

An agreement between Jefferson Lake Sulphur Company of New Orleans, Louisiana, and American Asbestos Mining Corporation of New York and San Francisco has been signed whereby Jefferson Lake has been granted the right to explore and develop the asbestos mining property situated in Calaveras County, California, owned by American Asbestos. American Asbestos is controlled by Robin International, Inc. of New York.

Reports by expert asbestos geologists and mining engineers have been very favorable and indicate a deposit of excellent asbestos fibre of the chrysotile variety. Further diamond drilling will begin within thirty days in order to confirm the extent of the deposit. The property is in a convenient location on the West Coast where the current demand which is constantly growing exceeds the large supply expected to be obtained from these mines. Foreign markets can also be supplied through West Coast ports.

Asbestos is an important strategic material. The chrysotile variety is in great demand in the United States and over 90% of U.S. requirements have to be imported, principally from Eastern Canada.

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

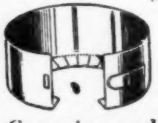
Complete Plants for making
ASBESTOS CEMENT PIPES
Socketed and Non-socketed
Precision Steel Mandrels
Plants for Making Sheets, Autoclaves for Steam Hardening
Plants designed, equipped and financed.
ASBESTOS CEMENT ENGINEERING CO.
Hauptstrasse 26
VADUZ-LIECHTENSTEIN (Switzerland)
P. O. Box 34.649

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Exports From Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos:	November 1958 Tons (2000 lbs.)	Value
Crude		
United States	61	$ 58,206
United Kingdom	..	..
South America & Mexico	..	..
European Countries	..	..
Other Countries	..	..
	61	$ 58,206
Milled		
United States	10,726	2,132,594
United Kingdom	2,206	452,072
South America	2,255	434,503
Central America & Mexico	245	43,955
European Countries	12,164	2,394,791
Other Countries	5,661	990,840
	33,257	$6,448,755
Shorts		
United States	38,129	$2,022,380
United Kindgom	3,364	186,661
South America	255	17,778
Central America & Mexico	160	6,651
European Countries	5,411	291,408
Other Countries	1,507	88,132
	48,826	$2,613,010
Grand Total—		
Unmanufactured Asbestos:	82,144	$9,119,971
Manufactured Asbestos Goods:		
Brake Lining		$ 63,450
Packing		2,028
Other Materials		20,305
		$ 85,783

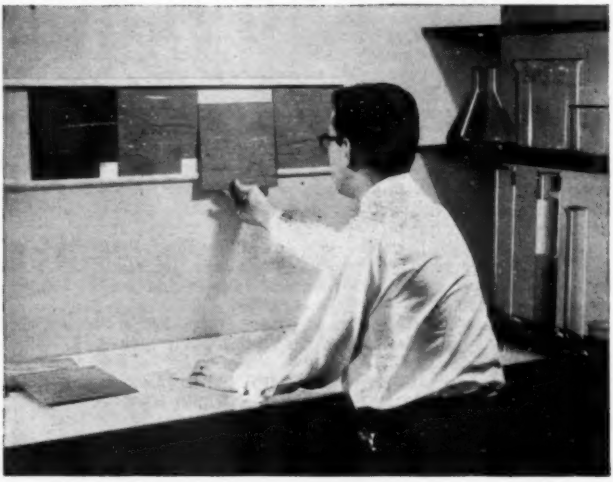


PIPE COVERING PROTECTORS

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

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

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Looking for better color-control?

Try light-colored Gold Bond Asbestos

Floor tile manufacturers have found that the uniformly light color of Gold Bond Asbestos makes it easier to control the color-shade of their tiles. This important advantage saves production time all along the line—from batch mix to quality inspection.

If color is one of your production problems, try Gold Bond® Asbestos. The fibers are uniform in quality and low in fines content, too. And whatever your asbestos needs may be, may we suggest that you check first with National Asbestos Mines Ltd., Thetford Mines, P. Q., Canada. (Subsidiary of National Gypsum Company.)

Gold Bond
INDUSTRIAL PRODUCTS

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THE RUBEROID CO.
Annual Report

The Ruberoid Co. reported that net sales for the year ended December 31, 1958, were second highest in company history after the operations of Ruberoid were pooled with those of The Funkhouser Co. of Hagerstown, Maryland.

Ruberoid acquired the assets and business of Funkhouser in exchange for 120,098 shares of common stock at the close of 1958. This acquisition, to be operated as The Funkhouser Mills, Division of The Ruberoid Co., produces inert fillers, high-purity mica and roofing granules one of Ruberoid's most important raw materials. Ruberoid is a leading manufacturer of asphalt, asbestos and gypsum building materials.

On a combined basis net sales in 1958 totaled $82,907,734 and net income was $4,589,980, or $2.86 a share. On the same basis in 1957 net sales were $85,257,142 and net income was $5,222,103, or $3.26 a share.

There were 1,606,654 shares outstanding at the end of 1958.

Provisions for federal taxes on income for 1958 were $3,235,000 and $4,569,957 a year earlier. Depreciation and depletion charges were $2,673,790 compared with $2,950,519 in 1957.

In their report to stockholders, Chairman Herbert Abraham and President E. J. O'Leary declared that the decrease in earnings "resulted from a low price level for our asphalt roofing products and prolonged strikes at two of our plants."

"Severe competitive conditions during 1958 forced down the prices of asphalt roofing materials in early March and held them at an extremely low level until September 1. This period included much of our most active selling season. During the last four months of 1958," the executives said, "prices in this line were more stable and higher levels have prevailed."

Looking ahead, the chairman and president said, "it seems apparent that the upturn in construction recorded in the second half of 1958 will continue during the coming year and current high levels of employment and consumer income indicate that money will be available for maintenance and repair of existing homes and other buildings."

"If these conditions prevail," they said, "1959 will be a relatively good sales year for Ruberoid."

ASBESTOS-CEMENT MACHINERY

Wet machines with Auxiliaries for the production of 24" to 48" wide, flat or corrugated sheets in commercial lengths.

Fiberizing Equipment, Rotary Cutters, Wet and Dry Trimmers, Finishing and Texturing Machines.

Your inquiries are most welcome

LINCOLN IRON WORKS
(Successors to Asbestos-Cement Associates, Inc.)
255 West Street Rutland, Vermont

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DURASORB FELTS give better finish because . . .



The superior needled construction of DURASORB felts results in a cushioned surface which handles your sheet with protective firmness. In addition to excellent finish, DURASORB felts provide a new degree of stability and uniformity while maintaining maximum drainage and long life.

Ask your Albany Felt Sales Engineer for full information and case histories on the outstanding performance of DURASORB felts in producing asbestos-cement shingles, siding and sheets.

AF

ALBANY FELT COMPANY

Main Office & Plant, Albany, N. Y.
Other plants: Hoosick Falls, N. Y., N. Monmouth, Me.
St. Stephens, S. C., Cowansville, P.Q.

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UNITED STATES RUBBER COMPANY

Annual Report

Net income of United States Rubber Company in 1958 was $22,670,772, equivalent to $3.05 a share of common stock after preferred dividends, compared with $29,695,027, or $4.27 a share, in 1957.

Net sales totaled $870,615,700 in 1958, compared with $873,583,074 the year before. The company's business improved as 1958 advanced and final quarter sales and profit were the best of the year.

Although sales of tires for new cars were lower and the economic recession curtailed business in other products, sales of replacement tires were higher. Sales of Englebert, S.A., in which the company now owns a majority interest, were included in 1958 for the first time. Englebert is one of Europe's largest manufacturers of tires and other rubber products, with plants in Belgium, France and West Germany.

The company's profit from the sale of products was $55,114,640, compared with $54,999,241 in 1957.

Federal and foreign income taxes amounted to $26,469,286, compared with $25,672,149 in 1957.

Net income was 24 per cent less than in 1957. In 1957 the company had extraordinary income in the form of a net profit of $3,500,000 on the sale of its wire and cable business. In 1958 extraordinary expenses were incurred in discontinuing production in two plants and transferring equipment elsewhere.

"Research and development expenditures continued at high levels", the chairman said. "Selling and advertising programs were not sacrified in economy moves. Low profit commodities have been eliminated and the cost of liquidation absorbed."

Capital expenditures for new and improved property, plant and equipment totaled $27,576,000 in 1958, compared with $36,115,000 the year before. A new plastics plant was completed. The program to modernize facilities for making tires and other products was continued. The new Cuban tire plant was completed. Other overseas facilties were modernized and expanded.

Long term debt was $164,657,000 at the end of 1958, $4,373,000 lower than a year earlier.

Net working capital was $295,744,000, for a working ratio of 3.3, at the end of 1958, compared with $282,032,000, for a ratio of 3.5, at the end of 1957.

Book value of the common stock increased from $38.64 to $39.49 during the year.

WILHELM BURGDORF

Importer of **Raw Asbestos**

P. O. Box 1131, BREMEN, GERMANY

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ASBESTOS FIBRE

OF ALL TYPES

BRANDHURST COMPANY LIMITED

Vintry House

LONDON

E. C. 4

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

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NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

John H. Balch, Exec. Vice President, Union Asbestos & Rubber Company, Chicago, Ill., March 22.
Grady B. Gulledge, Director & General Manager, Apache Asbestos Mines Inc., Globe, Arizona, March 23.
George Barge, Chief Financial Officer, Keasbey & Mattison Company, Ambler, Pa., March 27.
A. R. Fisher, President, Johns-Manville Corporation, New York, N. Y., March 27.
J. T. Griffis, Vice President, Southern Asbestos Company, Charlotte, N. C., March 28.
J. A. O'Brien, Vice President, Johns-Manville Corporation, New York, N. Y., March 28.
Lord Elton, Director, The Cape Asbestos Company, London, England, March 29.
F. V. S. Smith, Director & Secretary, Hodgson & Hodgson, Ltd., Carrington, Nottingham, England, March 29.
W. C. Bowman, District Manager, Philip Carey Mfg. Company, Philadelphia, Pa., March 30.
Rene A. Cooper, Vice President, Inland Insulation Company, Chicago, Ill., April 1.
G. M. Williams, President, Russell Manufacturing Company, Middletown, Conn., April 6.
Herbert D. Harris, Asbestos Corporation of America, New York 6, N. Y., April 12.
J. M. Weaver, formerly of Raybestos-Manhattan, Inc., Manheim, Pa., April 14.

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

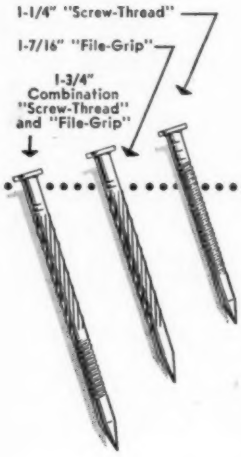
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THE RUBEROID CO. APPOINTS FRANK J. SCHMITT, JR.

Frederick K. Sweeney, sales vice president of The Ruberoid Co., has announced the appointment of Frank J. Schmitt, Jr., as sales manager of the company's Dallas, Texas, district. Mr. Schmitt, who has been assistant sales manager, succeeds the late C. B. Lundin, who died January 20.

A native of St. Louis, Missouri, Mr. Schmitt joined Ruberoid in 1929 as a planning clerk. He became office manager of the company's St. Louis plant in 1935 and worked as assistant to the general superintendent from 1943 to 1947 when he became a sales representative in Oklahoma. He went to Dallas as assistant manager in 1958.

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new!

nichols
NEVER-STAIN

PAINTED
ALUMINUM
ASBESTOS FACE
Nails

TO MATCH
THE *NEWEST*
COLORS IN
ASBESTOS SIDING

- PAINTED TO MATCH YOUR EXACT COLOR REQUIREMENTS
- EXCELLENT PAINT ADHERENCE
- AVAILABLE IN ALL COLORS AND WHITE

Your products deserve the best fasteners available. Protect their beautiful colors with inconspicuous NICHOLS RUSTPROOF PAINTED ALUMINUM NAILS. We will paint aluminum asbestos face nails to meet your exact color-match requirements; also available in the satin etched finish. Write today.

nichols WIRE & ALUMINUM CO.
DAVENPORT, IOWA

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CAREY-CANADIAN MINES, LTD.
New 7RF-7 Fibre

Unusual whiteness, compared to ordinary asbestos fibre, is one of four major features of new 7RF-7 fibre—a product of Carey-Canadian Mines, Ltd., East Broughton Station, P. Q. Carey-Canadian is a subsidiary of The Philip Carey Mfg. Company, Cincinnati, Ohio.

Other cost-saving features of new 7RF-7 are low iron content, low grit content and uniform fibre length. Now available in commercial quantities, 7RF-7 is particularly important to resin compounders, joint cement manufacturers and others seeking an air chamber asbestos float with the above properties.

7RF-7 was developed and produced at Carey-Canadian's new East Broughton mill and is an example of the flexibility available within grades to fit the diversified requirements of asbestos product manufactures. Variations of standard fibre grades are available to these manufacturers for testing purposes under their own production conditions.

Samples and complete specifications on new 7RF-7 may be obtained from Carey-Canadian; from Carey's Montreal district office or from the company's Cincinnati office. Manufacturers can also contact their Carey-Canadian Sales Engineer for additional information.

CABLE ADDRESS: METABEST

METATE ASBESTOS CORPORATION

Producers of

ARIZONA CHRYSOTILE CRUDES

and

FILTRATION FIBRE

Mines & Mill:
SAN CARLOS
INDIAN RESERVATION
GILA COUNTY, ARIZONA

P.O. BOX 111
GLOBE, ARIZONA

„ *Tropag* "

Hamburg —:— Ballindamm 6

Importers since 1909 of

ASBESTOS-ORES-MINERALS

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Exporters of

RAW ASBESTOS

ALL GRADES—ALL TYPES

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

P. O. BOX 11000 — CABLE: SOTSEBSA

VOLKSKAS BLDG. — 76 MARKET STREET

JOHANNESBURG - SOUTH AFRICA

INDUSTRIAL SERVICE COMPANY

Builders of

ASBESTOS CEMENT MACHINERY

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

Your Inquiries Are Invited

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

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NEW FLOORING INSTALLATION GUIDE

Produced by Tile-Tex—Division of The Flintkote Company

A handy wall chart showing the proper installation of all Tile-Tex products has been released by the Tile-Tex Division of The Flintkote Company to simplify selection of the proper adhesive for each type of flooring tile produced by the company.

Designed to hang on the dealers' wall, the chart lists the various types of sub-floors, how to prepare the sub-floor, the various Tile-Tex flooring tiles and the correct adhesive to use to fully bond the tile with the sub-floor.

According to Charles E. Dill, General Sales Manager, Tile-Tex Division, the new chart has been prepared "to enable the dealer to see at a glance precisely what adhesive to recommend to a customer. In the self-service outlets it enables the customer to have his questions answered quickly and lessens the danger of incorrect application of Tile-Tex on any type sub-floor."

The Flintkote Company is the manufacturer of the most varied line of building products today.

UNION ASBESTOS & RUBBER COMPANY

Annual Report

The Union Asbestos and Rubber Company reported that operations for the year 1958 resulted in a loss of $169,872 after refund of Federal Income Taxes amounting to $160,000. This compares with a profit in 1957 of $623,985.

The sales in 1958 amounted to $9,047,160 as compared with sales of $12,486,366 in 1957. The decrease in volume was almost entirely attributed to reduced sales to the Railroad industry.

The loss for 1958 was partially offset by the company's diversification into the material handling and structural steel tubing fields, which become profitable during the last quarter of the year.

PHILLIPS ASBESTOS MINES

Producers of

CRUDES

and

FIBERIZED ASBESTOS

The World's Finest Fibres

DRAWER 71 GLOBE, ARIZONA

Mines and Mills in Gila Co., Arizona

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Now in operation: New independent source of Asbestos. Lake Asbestos of Quebec, Ltd. will produce 100,000 tons of high-quality chrysotile asbestos fibre annually. If you need a new dependable source for high grade asbestos, write to Asarco International Corp., 120 Broadway, New York 5, N. Y., distributor for Lake Asbestos.

Overseas Sales Representatives:

Metal Traders Ltd.
Asbestos Division
London (for U.K., Spain, Portugal)

Keyser and Mackay
Amsterdam (for The Netherlands, Belgium, Switzerland)

Metal Traders, Inc.
Tokyo, Japan

Atlanta, Bremen
(for W. Germany, Austria)

Ladislao Kohn,
Buenos Aires (for Argentina, Uruguay)

Agencies Kapel Ltda.
Santiago, Chile

G. Vaciago
Torino, Italy

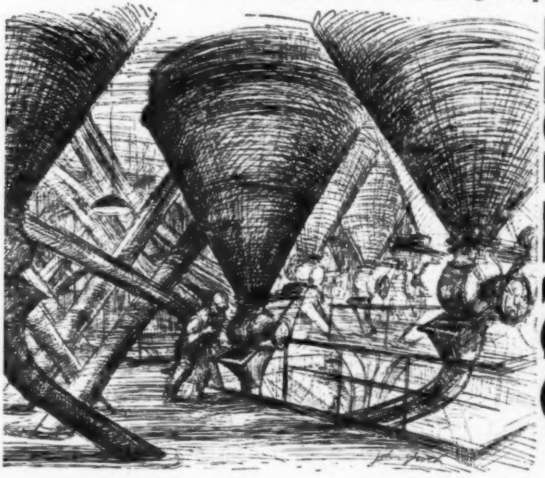
Mount Isa Mines Ltd.
Sydney, Australia

Holanda Colombia, S.A.
Barranquilla, Colombia

"Brasimet" Comericio 4 Industria S.A.
Rio de Janeiro and Sao Paulo, Brazil

Dieppedalle & Scilles
Paris, France

LAKE ASBESTOS OF QUEBEC, LTD.
a subsidiary of American Smelting and Refining Company



ASARCO

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The rising trend of Australian asbestos production continued in the second quarter of 1958, with a total output for the period of 3,543 short tons, compared with 2,884 short tons for the same period of 1957. The main increase was in crocidolite from Wittenoom Gorge, Western Australia, production of which increased from 2,716 short tons to 2,968 short tons. Production of chrysotile at Baryulgil, New South Wales, and at Nunyerry, Western Australia, 185 short tons, and 390 short tons respectively, has remained fairly constant.

Exports of asbestos for the 8 months ending August were 7,038 short tons, of which 6,909 short tons were crocidolite.

Demand for overseas fibre increased markedly and imports of all types of asbestos rose during the first six months of 1958 to 14,640 short tons. Imports for the same period in 1957 were 12,411 tons. Output of asbestos cement products for the first six months has remained fairly constant at 12,825,000 sq. yds. of sheet.

ASBESTOS STOCK QUOTATIONS

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

		February, 1959		
	Par	Low	High	Last
Amer. Br. Shoe (Com)	np	48	59	49⅝
Armst. Cork (Com)	1	35⅝	40⅜	40
Armst. Cork (Pfd)	np	83½	85½	84
Asbestos Corp. (Com)	np	34½	36	36
Carey (Com)	10	46	52¼	46½
Cassiar Asb. Corp.	np	10¾	11	11
Celotex (Com)	1	39⅛	44	44
Celotex (Pfd)	20	19⅛	19⅞	19½
Certainteed (Com)	1	13¾	15¼	14¼
Fibreboard Paper Prod. (C)	np	47½	55	52⅞
Fibreboard Paper Prod. (P)	100	160	185	177½
Flintkote (Com)	5	56⅛	59½	56⅞
Flintkote (Pfd)	np	88	114	111½
Johns-Manville (Com)	5	53⅞	57⅞	56¼
Natl. Gypsum (Com)	1	59⅛	63⅝	63⅝
Natl. Gypsum (Pfd)	np	95½	98	97
Ray-Man (Com)	1	60	62¼	62¼
Ruberoid (Com)	1	40½	45	45
Porter, H K (Pfd)	1	89⅞	95	92¾
Union Asb. & Rub. (Com)	5	11	12⅞	12
United Asb. (Com)	1	$5.95	$6.60	$6.20
U. S. Gypsum (Com)	4	102½	106¾	104
U. S. Gypsum (Pfd)	100	159	161	161
U. S. Rubber (Com)	5	45¾	52⅝	50⅝
U. S. Rubber (Pfd)	100	150¼	153½	150¼

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BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA



Producers of

Raw Asbestos Crudes

& Fibres



Sales Representatives

for

Cassiar Asbestos Corporation Limited

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AUTOMOBILE SALES

	December 1958
Passenger Cars	608,730
Motor Trucks	100,140
Motor Coaches	208
	709,078

In December 1957, a total of 642,856 motor vehicles were sold. Sales for the year 1958 amounted to 5,135,106.

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

FLINTKOTE NAMES FLINTCO DISTRIBUTORS

Flintco of 1000 No. Milwaukee Street, Milwaukee, Wisconsin, has been appointed distributors of The Flintkote Company's complete line of industrial products, protective coatings, floor tile and adhesives throughout the State of Wisconsin and upper Michigan, it was announced by W. L. Harper, General Sales Manager, Flintkote Industrial Products Division.

Flintkote manufactures America's broadest line of building materials.

Flintco has long been a successful distributor of building materials in Wisconsin and Michigan. It is contemplated that the company will also serve the trading areas of Madison and Green Bay, Wisconsin in the near future.

Harold W. Townsend is President of Flintco and H. W. Anderson is manager.

The Flintkote Company has no connection with Flintco except in a manufacturer-distributor relationship.

FIBREBOARD PAPER PRODUCTS CORP. APPOINTS JACK L. DAVIES

Appointment of Jack L. Davies to the top management post of Director of Market Planning for Fibreboard Paper Products Corporation was announced by E. W. Carey, Vice-President—marketing.

Creation of this position is another important step in our program to utilize the most advanced methods in marketing the diversified line of Fibreboard and Pabco products.

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Antony Gibbs & Co., Inc.

61 Broadway

New York 6, New York

Tel. Digby 4-6580



View of Boss Mines, Mashaba

ASBESTOS FIBRES

Chrysotiles, Blues, Amosites

Agent in the United States for

S. A. ASBESTOS TRADING (PTY.) LTD.

Asbestos Magazine, 1959, March 1959
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THE FLINTKOTE COMPANY

Annual Report

Sales of The Flintkote Company and subsidiaries rose slightly to a record high level during 1958 but net income for the year declined as the business recession, bad weather and weak prices took their toll of this leading producer of building products, the company's 1958 annual report to stockholders disclosed.

Consolidated net sales for 1958 aggregated $156,172,630 compared with $155,131,213 in 1957. Net income for 1958 amounted to $7,536,066, equal after preferred dividend requirements to $3 per share on 2,125,598 average common shares outstanding. In 1957 net income amounted to $8,365,403, or $3.59 per share on 2,004,143 average common shares outstanding. In addition, the 1957 income was enhanced by a special tax credit of $1,000,000, equal to another 50 cents per common share of income.

Sales and earnings figures for 1958 and 1957 include operations, on a 12-month basis for both years, of Kosmos Portland Cement Company, which Flintkote acquired on August 22, 1957: The Hankins Container Company, acquired on Dec. 1, 1958, and Orangeburg Manufacturing Co., Inc., also acquired Dec. 1, 1958.

NATIONAL GYPSUM COMPANY

Annual Report

National Gypsum Company's 1958 sales were the highest for any single year in the Company's history.

Sales climbed 15% over the 1957 total of $141,000,000 to establish a new high of $163,000,000. Sales included $12,600,000 received from National Gypsum's new subsidiary, American Encaustic Tiling Company.

Earnings jumped 22% over the 1957 net of $12,800,000 to $15,600,000.

The sales rise is credited to the ability of the sales force—backed up by a very efficient production organization, additional lines and improved products out of our research laboratories.



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)

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RAW ASBESTOS DISTRIBUTORS

LIMITED

FOR CANADIAN, RHODESIAN
AND SOUTH AFRICAN ASBESTOS

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

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PABCO CONSOLIDATES NEW YORK SALES OFFICES

Consolidation of New York sales offices for its "Pabco" Floor Covering and Industrial Insulations Divisions and the National Packaging Sales—"Fibreboard" Brands was recently announced by Fibreboard Paper Products Corporation.

New York offices for the company are now located at 290 East 42nd Street, New York 17, N. Y.

Officals headquartering at the new offices are H. I. Storch, New York District Sales Manager, Floor Covering Division; F. A. Gummer, Manager, Eastern Packaging Sales; and J. W. Cordrey, Eastern regional Manager, Industrial Insulations Division.

CURRENT RANGE OF PRICE

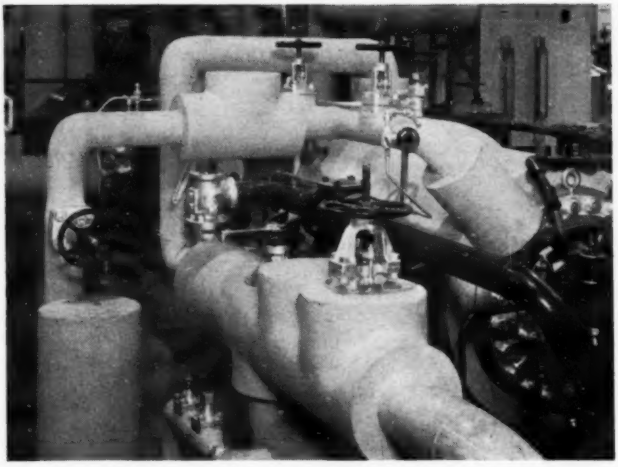
As of March 10, 1959

ARIZONA— Per Ton of 2,000 lbs., f.o.b Globe, Arizona	
No. 1 Crude (soft)	$1,500.00 to $2,000.00
No. 2 Crude (soft)	1,000.00 to 1,350.00
No. 3 Crude (soft)	400.00 to 675.00
Filter Fibre (soft)	250.00 to 475.00
No. 1 Crude (semi-soft)	1,200.00 to 1,500.00
No. 2 Crude (semi-soft)	900.00
No. 3 Crude (semi-soft)	400.00

CANADA— Per Ton 2,000 lbs. f.o.b. Mine Canadian Currency	
Group No. 1 (Crude No. 1)	$1,475.00 to $1,850.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	790.00 to 1,200.00
Group No. 3 (Spinning Fibre)	370.00 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 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.	
Group No. 3 (Spinning & Fitlering	$ 370.00 to $ 428.00
Group No. 4 (Shingle Fibre)	181.00 to 200.00
Group No. 5 (Paper Fibre)	120.00 to 152.00
Group No. 6 (Waste, Stucco or Plaster)	86.00
Group No. 7 (Refuse or Shorts)	41.00 to 75.00

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Maximum control of temperatures with

PABCO PRECISION-MOLDED CALTEMP

a Calcium Silicate Insulation

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

INSULATION GUIDE

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

PABCO

INDUSTRIAL INSULATIONS DIVISION

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

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SIR WALKER SHEPHERD
PASSES AWAY

Sir Walker Shepherd, 63, prominent English industrialist, died suddenly on February 27th, while enroute by train to Halifax from Montreal, Quebec. At a coroner's inquest held in Truro, Nova Scotia, death was attributed to natural causes.

Sir Walker was since 1944 Chairman of the Board of Turner & Newall, Limited, of London, England, a world-wide asbestos manufacturer with international interests He was traveling in the Western Hemisphere on business at the time of his death. Sir Walker was knighted in February 1956, after being on the Queen's Honors List of January 1956. Memorial services were held in London on Friday, March 6th.

ELECTED MANAGER

C. Seibel, Jr., Paving Products Manager, The Flintkote Company, was elected President of the Joint Sealer Manufacturers Association at the group's annual meeting recently held in Dallas, Texas.

Also named were: Harry C. Shields, Presstite-Keystone Division, American Marietta Company, as Vice President; Wallace C. Fischer, Servicised Products Corporation, as Treasurer; and M. O. Huntress, Allied Materials Corporation, as Secretary.

The JSMA has been active in setting industry standards of quality of joint sealing materials and effective application methods involved with highway and airfield construction and maintenance.

F. ROBERT CAMPBELL
ELECTED CHAIRMAN—PACKAGING INSTITUTE

F. Robert Campbell, Manager of Packaging for National Gypsum Company, has been elected Chairman of the Packaging Institute's Bag Committee, it was announced today.

The Packaging Institute is a national association of packaging material manufacturers and industrial consumers. The Bag Committee, which Mr. Campbell will head for one year, studies consumer and industrial problems of bag manufacture and use.

Mr. Campbell joined National Gypsum Company in 1953 after 17 years in the packaging field. He is in charge of the building materials firm's product packaging program.

PORTER-HAYDEN, BALTIMORE, MD.
ORGANIZATIONAL CHANGES

At the Annual Meeting of the Board of Directors of H. W Porter & Co., Inc. and its wholly owned subsidiary, Reid Hayden, Inc., held on February 5, 1959, the following Officers were elected:

President—James MacDonald
Executive Vice President—R. J. Sachs
Vice President of H. W. Porter & Co., Inc.—W. H. Morris
Vice President of Reid Hayden, Inc.—W. A. Graham
Chairman of the Board & Treasurer—M. R. Carr

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We take raw asbestos and fashion it to the needs of a thousand and one different consumers. Closely controlled through all stages of manufacture, asbestos is converted into Fibre, Yarns, Tapes, Cloths, Rovings, Tubing and Webbing widely used for heat and electrical insulation. It is also fabricated into many different kinds of friction materials, including the world-famous Mintex brake and clutch linings.

BRITISH BELTING & ASBESTOS LTD.

Cleckheaton, Yorkshire, England

B B A

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THE RUBEROID CO. APPOINTS

The Board of Directors of The Ruberoid Co. recently announced that *E. J. O'Leary*, president and chief executive officer, has been elected chairman of the board of the company. *Herbert Abraham*, chairman since 1954, has resigned that position but will continue to serve as a director and as chairman of the executive committee.

It was also announced that *E. N. Funkhouser* of Hagerstown, Maryland, has been elected to the board. Mr. Funkhouser was co-founder and former president of The Funkhouser Company, whose assets and business were acquired by Ruberoid at the end of 1958.

Ruberoid, founded in 1886, is a leading manufacturer of asphalt and asbestos building materials, which operates 20 plants throughout the United States. The Funkhouser properties, now The Funkhouser Mills, Division of The Ruberoid Co., produces natural and ceramic roofing granules, mineral stabilizers and high-purity mica.

E. J. O'Leary will continue to serve as president and chief executive in addition to his new position. Fifty-one years old, Mr. O'Leary is widely known in the industry in which he has spent his entire working career. He came to the company's executive offices in New York City as general sales manager in 1950 after holding executive manufacturing and sales positions in Baltimore, Dallas and Mobile.

He was elected a vice-president in 1951, director in 1952, a member of the executive committee in 1953, executive vice-president in 1955 and became president in 1958.

FLINTKOTE PUBLISHED NEW TILE-TEX ALL-PRODUCTS CATALOG

Publication of the colorful, new 1959 All-Products Catalog of Tile-Tex floor products of The Flintkote Company has been announced by Charles E. Dill, General Sales Manager, Tile-Tex Division.

In order to accommodate all the recent additions to the Tile-Tex line of flooring materials, the 1959 All-Products Catalog was increased to 16 pages in size. The attractive brochure features the various Tile-Tex floorings in true color and patterns—with a unique selection table to help determine the right tile for various sub-floors. The diversified line of adhesives, waxes, cleaners and underlayments are also outlined in the booklet.

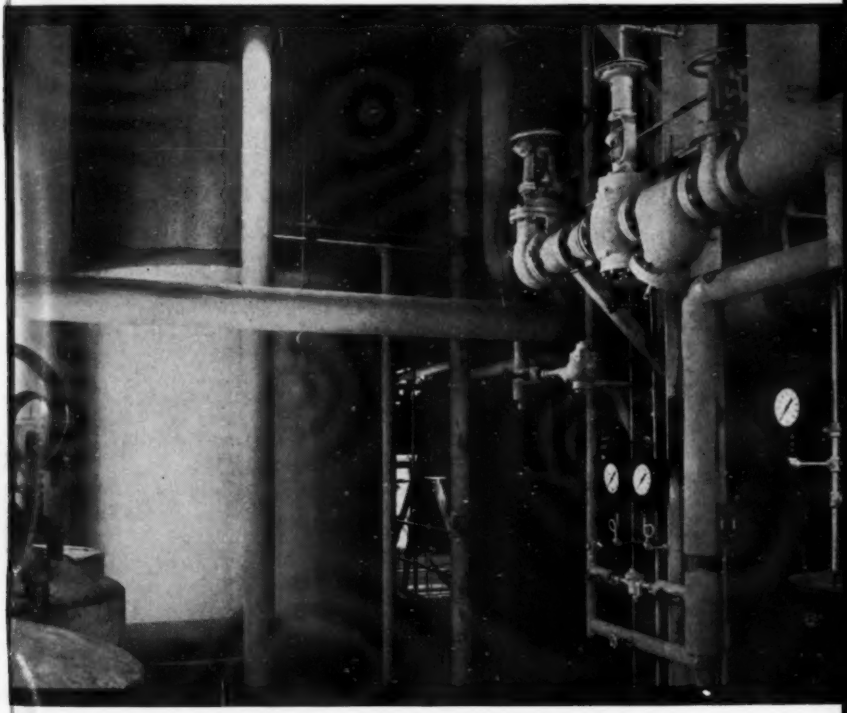
At the same time Mr. Dill also announced that the exclusive "skytrail" Flexachrome Vinyl-Asbestos Floor Tile in 1959 will feature a stronger and sharper design. This will be accomplished by changing the gauge from 3/32" to 1/16". "This reduction in Gauge", according to Mr. Dill, "will make the 'trails' longer and sharper, giving an even prettier and interesting effect to this extremely popular flooring."

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ONLY APPROVED CONTRACTORS INSTALL EHRET INSULATIONS

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

Standard inventories of THERMALITE are maintained by distributors in all principal cities. For the full story of this money-saving insulating material, see your Ehret Distributor or write direct for Bulletin 11C to the address below.



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

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VALLEY FORGE, PENNSYLVANIA

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