ASBESTOS



NOVEMBER, NINETEEN THIRTY-NINE

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"ASBESTOS"

FOUNDED IN JULY 1919 AND PUBLISHED
CONTINUOUSLY SINCE THAT DATE

A. S. ROSSITER, *EDITOR*

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ASBESTOS - THE MAGIC MINERAL[1]

"75 Years of Service to Humanity"

The celebration at this time of the Diamond Jubilee of Asbestos—"Seventy-Five Years of Service to Humanity"—brings to light many of the interesting legends about the "magic mineral." Asbestos, altho known to the ancients, dates back only three-quarters of a century in real service to mankind as we now know its uses. The mineral has intrigued man since olden times and it is inevitable that it should be surrounded by a rich and colorful lore.

Perhaps the modern world is too civilized. Eleven centuries ago, all it took to avert a world war was an asbestos table cloth!

Or so goes the legend. According to this story, Charlemagne—king of the Franks—was threatened with invasion by the savage hordes of Harun-al-Rashid, emperor of the East. To avert the war, Charlemagne called a "peace conference" to hear the demands of Al-Rashid's ambassadors—and contrary to certain conferences of modern history, this one really worked and peace was saved.

It was not the good king's arguments that averted war, however, or his threats of retaliation—it was his asbestos table cloth. When he tossed it into the fire to cleanse it before his guests and then drew it out unscathed, the ambassadors were convinced they were dealing with a great magician and a practitioner of "white magic" and went home to advise Al-Rashid not to take on Charlemagne.

This year, thruout the United States and Canada, the 75th anniversary of the modern history of asbestos is being celebrated by the many firms engaged in the mining and manufacturing of this fire-proof "magic mineral."

Until the 1860's when asbestos was first discovered in Canada, asbestos had always been a source of mystery and fear. And even down to a few short years ago, the general public's acquaintance with it was limited to theater cur-

[1] This is the Diamond Jubilee article. Permission is given to anyone to reprint it in whole or in part, provided credit is given to "ASBESTOS."

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tains and to the greyish material which kept hot, pot-bellied stoves from burning down country railroad stations.

Today asbestos is used in a thousand ways in industry and in the home—for roofing and siding shingles, brake linings, fire-proof ship construction, building sheets, pipes, flues—even for fire-proof Santa Claus whiskers and earmuffs for permanent waving. American scientists in great American research laboratories have indeed taken this age-old mineral, which Einstein says is the oldest thing in the world, and have performed real magic. No average person today, as a result of their efforts, can live a single day without coming in contact with asbestos materials or materials made with the help of asbestos.



The Magic Mineral as it comes from the Mine showing the veins of asbestos thru the serpentine rock. This particular piece is from the Thetford District in Canada.

In its native state, asbestos is a rock found in narrow veins between other types of rock. Because of its crystalline composition, when it is crushed or "teased up" mechanically it becomes a mass of soft, silky fibres easily spun into thread and cloth or combined with other materials, notably cement, and then pressed into boards or built up in laminated form for walls, pipes, shingles and the like.

The greatest known deposit of asbestos in the world is found in the province of Quebec, Canada, where the largest asbestos mines in the world are operated. Three-quarters of a century ago asbestos was first found and developed in a

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near-by area and from this event began the modern industry as America and the world know it today.

It was many years after its discovery in Canada, however, before the world understood fully the vast potentialities of asbestos as a protector against heat, fire, weather, wear, motion and sound. It was such a curiosity, in fact, that as late as 1872, H. W. Johns, who had a little store on William Street in downtown New York, used to give regular Saturday afternoon performances with a pair of asbestos gloves which he had imported from Italy and which he kept in a safe. When a goodly crowd had gathered, Mr. Johns would have his helper don heavy white mits, reach into the coal stove and pass among the doubters with the glowing coals in his hands.

In the middle ages, asbestos was more of a curiosity than a useful product—and an expensive curiosity, too, for history tells us that Ferdinand III, Palatine of the Rhine, paid 18,000 gulden or $6,300, for a single asbestos napkin so precious it was stored in the Imperial Museum in Vienna. Marco Polo also speaks of asbestos and claimed it was a product made from the skins of salamanders.

The earliest of all mentions of asbestos in recorded history, however, goes far back to the year 450 B. C. In that year Calamachus, one of the most famous of all Greek sculptors and the inventor of the Corinthian column, was delegated to fashion a lamp to burn at the feet of Athenia. It was solid gold, and so beautiful it was spoken of often in ancient writings—and its wick, even more precious than its gold, was spun of asbestos.

It is from Canada itself, however, that we get perhaps the most picturesque legend of asbestos. It happened in a north woods lumber camp. The lumber jacks returned to the bunk house one night after working all day in wet slush to see a new member take off his shoes and then his soaking socks. In full view of his fellow workers, he tossed the socks into the fireplace, let them sizzle for a while and then pulled them out.

After waving them around in the air to cool them off, he put them back on again and looked around for someone to start a poker game. But no one was left in the bunk

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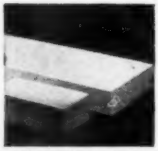
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house and not a man would return until "old Magic Socks" had been given his walking papers.

Perhaps "old Magic Socks", Charlemagne, Marco Polo and even old Calamachus himself are looking down on today's asbestos industry with wonder—wonder that industry has accomplished so much with their "magic mineral", but with sadness that the world is too modern these days to settle disputes with an asbestos table cloth, thrown into the fire.

THE DIAMOND JUBILEE

Editorial by C. J. Stover

After seventy-five years of service to industry, it seems fitting to take some extraordinary notice of the Anniversary.

Those with whom we have talked and corresponded are, almost without exception, interested and enthusiastic.

At a small cost, so small as to be negligible, your correspondence, envelopes, auto and truck equipment and even your advertisements can and should carry a little seal or emblem as suggested and adopted by the Industry.

Not long ago a good salesman said to me "Why, oh why, does not the industry give us something new to present our customers, even if it is only a little blue ribbon tied around a section of pipe covering."

Business would nearly vanish from the earth if it were not for *change*. Here in the Jubilee are all the elements for *change* plus something new and different to talk about.

We stand ready to give of our time and limited means to help the industry advance its cause. We will meet any or all of you more than half way. Let's go!

The second article on Air Conditioning, covering asbestos products especially designed for use in that industry, which was promised for the October number, has been crowded out by other current articles. We hope to publish it in December.

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ASBESTOS--
How does it Serve Humanity?

The slogan of the Diamond Jubilee of Asbestos—75 years of Service to Humanity—starts a train of thought. What service has Asbestos performed for Mankind?

Since earliest times, its fire and heat resistance have been the attributes which have attracted to Asbestos the most attention. Because of these qualities, asbestos cloth was used by the ancients to keep the ashes of their dead from being contaminated by the ashes of the funeral pyre. It was used, so the legend says, by the vestal virgins for lamp wicks, so that the wicks would not burn down as wicks of other materials would and, eventually, let the virgins' lights go out. We understand that the virgins were punished severely if their lights were allowed to burn out.

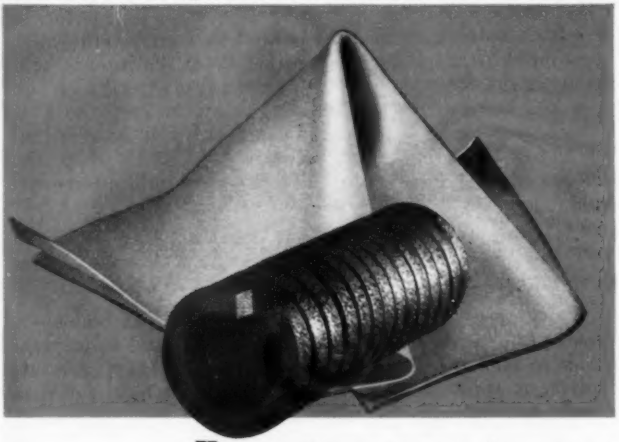
Undoubtedly it was because of its fireproof and fire resistant qualities that Asbestos was used years ago by the Chinese, the Romans and the Egyptians partly because such a quality was unusual in a fibre and in cloth made from a fibre, but also because it protected man from fire. Other cloths were known and far more beautiful than asbestos cloths. In early days however, open fires were used almost exclusively and, as they still are today, open fires were dangerous. No doubt that the asbestos sleeve ruffles we read of as used by the Chinese, were popular because they would not catch fire as hands were warmed over the open (or brazier) fire. And just as reasonable is the supposition that when a fireproof or fire resistant cloth was found to be possible, the first thought was of the *protection* it would afford from fire. In fact it seems quite remarkable that despite the many early uses of asbestos cloth in protection from fire, asbestos hangings and upholstery have not made more progress.

And this thought of the protection asbestos materials gives against fire, brings us to the keynote of the Diamond Jubilee—thruout the 75 years of service the chief function of asbestos has been that of protection; first protection

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from fire, later from some of the other elements, and today from disaster of one sort and another as well.

The protection asbestos gives from fire is demonstrated by many, many asbestos products—the asbestos theatre curtain, the asbestos-cement or asbestos-felt roof, asbestos clothing, blankets for fire fighting, mill board.

Protection from heat—as in insulation of various kinds, all the way from the handle of a coffee percolator, to the high temperature insulation used in engine and boiler rooms on ships to protect the worker from the intense heat encountered there. In fact the first use of insulation on pipes and boilers was not, as it is today, to keep the heat *in* the boilers and pipes, so that less fuel would be required and higher pressures could be obtained, but to *keep the heat out* of the rooms where the boilers or engines were situated.

Asbestos Packings, while not quite so prominent as a *protective* material, have made possible many articles which add to our general well being.

Protection from the elements—rain, wind, snow—is given by the various asbestos roof coverings and siding materials so much used at the present time. Many are attractive in appearance and are purchased today for that reason alone, but the primary purpose of asbestos-cement shingles, was the life protection they gave from the weather.

Shortly after the asbestos-cement shingle made its appearance, a new kind of protection was needed. Automobiles were by that time developing higher and higher speeds and the old brake linings of leather, camel's hair or cotton belting, which had been entirely adequate for speeds of 10 miles an hour, were most inefficient when required to stop a car going any faster. Asbestos brake lining therefore became most important as a protection against collision and disaster. As speeds continued to increase, brake lining continued to be more and more important. And we all know how much asbestos brake lining has indirectly, thru the use of the automobile, contributed to the happiness, comfort and pleasure of mankind during

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ASBESTOS

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Canadian Spinning Fibre
Canadian Shingle Fibre
Cyprus Asbestos
Italian Crude
Russian Crude
Rhodesian Crude
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South African Yellow Crude

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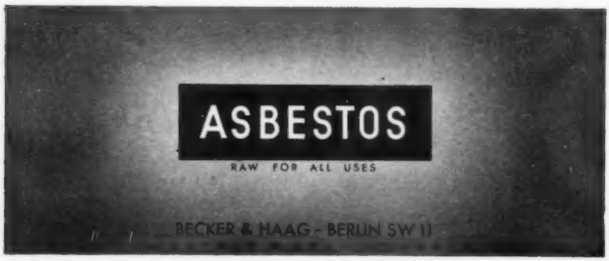
the past twenty or twenty-five years, altho, to be sure it has also brought some evils in its train.

Perhaps the latest kind of protection is that against sound. Insulation from sound, sound deadening, acoustical correction, all of these are becoming increasingly important, and asbestos materials are used in all these processes. The deadening of sound in the air conditioning system (see page 4—September 1939 "ASBESTOS") is an important illustration of the protection which Asbestos gives against sound. Another is the use of Asbestos in some acousticai materials.

Asbestos protects from vibration. An outstanding example of this is the vibration mats of lead and asbestos used to insulate buildings from underground train tracks. (See page 26 of March 1932 "ASBESTOS").

Recently it has been found that the use of asbestos in sewage treatment systems is most important—here it performs a new function and protects us from bacteria, from disease.

The many ways in which asbestos serves mankind have hardly been touched upon in this short article—the electrical industry alone provides hundreds of instances of such service; the chemical industry, not so directly perhaps, is the source of many more. We cannot get thru a day without owing much of our comfort, our pleasure and our security to Asbestos.



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THE VERMILYE MEDAL--

Awarded to Lewis H. Brown, President, John-Manville Corporation

The first award of the Vermilye Medal "in recognition of outstanding contribution in the field of industrial management" was made on October 30th, by the Franklin Institute of the State of Pennsylvania, to Lewis H. Brown, President of Johns-Manville Corporation, New York City. Presentation of the medal was made in Philadelphia, Tuesday, November 14th.

Named after its donor, William M. Vermilye, Vice President of The National City Bank of New York, the medal is purposed to stimulate, encourage and recognize outstanding contributions in the field of industrial management, not only in the United States but in other countries as well. Mr. Brown will receive the medal for "his brilliant work in executive management, in industry."

The decision to honor Mr. Brown was made by the Board of Managers of The Franklin Institute, acting on the recommendation of a sub-committee of its members, including Conrad N. Lauer, Chairman, President of the Philadelphia Gas Works Company; Edward G. Budd, President of the Edward G. Budd Manufacturing Company; Charles Penrose, Vice President of Day and Zimmerman; and Dr. Henry Butler Allen, Secretary and Director of The Franklin Institute.

The action of this Committee was based on the report of the Vermilye Medal Advisory Committee composed of William L. Batt, chairman, President SKF Industries, Inc.; Charles E. Brinley, President of the Baldwin Locomotive Works; H. R. Martz, Executive Vice President, Day and Zimmerman; Professor Joseph W. Roe, former Professor of Industrial Engineering, New York University; R. A. Wentworth, representing the American Society of Mechanical Engineers; John W. O'Leary, the Chamber of Commerce of the United States; and Charles W. Hook, the National Association of Manufacturers.

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The medal, of bronze, was designed by Gerald K. Geerlings and executed by Allen Townsend Terrell, sculptor. The obverse side of the medal reveals the likeness of Dr. Benjamin Franklin; the reverse side bears the following inscription: "Awarded by The Franklin Institute of the State of Pennsylvania in recognition of outstanding contribution in the field of industrial management to . . ."

The Asbestos Industry is highly gratified to have one of its outstanding executives selected as the first to be awarded this high honor.

INTRODUCTION

Here's a little story showing how intensively "ASBESTOS" is read. An executive in the Asbestos Industry, whom we shall call Mr. Blank, called upon the head of an asbestos firm, whom he had never seen previously. After the customary greetings, the second man said "Well, Mr. Blank, I must congratulate you."

Mr. Blank, somewhat surprised, said "Well, thank you, but just what is it all about?" Why, said the other man, I saw in "ASBESTOS" that you had a birthday last Thursday." In subsequent conversation, it developed that the entire staff of the firm read "ASBESTOS" from cover to cover.

We might add that Mr. Blank is and has for many years been one of our very good friends and staunch supporters.

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THE JUBILEE IDEA GOES OVER--

Many Asbestos firms seize opportunity to "Get the Public Talking" about Asbestos

At the time this is written only about two weeks have elapsed since our October number was mailed, but numerous letters have already come in telling of the activities of various asbestos companies in helping stress the Jubilee idea.

A number of copies of the Jubilee article (see page 2) have been given out, together with other information for use in talks before club, or other groups, use in local newspapers, etc.

Several people who were to make addresses before quite large groups have agreed to stress the Diamond Jubilee idea. Notable among these is Dr. Oliver Bowles, of the U.S. Bureau of Mines, who is scheduled to lecture at the University of Maryland on November 28th.

Despite the very meagre information given in our October number about the stickers, several orders have been received. These stickers will be ready for distribution by the time this issue goes to press. The stickers are 1" or slightly less in diameter, are round, grey and red in color and have an asbestos man in the center. The price is $5.00 per thousand (barely enough to cover cost). Send orders to us promptly.

A small, diamond-shaped cut[1] for use on letterheads and other printed matter (similar to the one used on this month's cover) can be had for $1.00. The cut is 1½" wide. Or a 2" size can be supplied for $1.25. Send orders for either stickers or cut (or both) to "ASBESTOS". Orders can be filled immediately. Some firms have already had their letterheads and printed matter imprinted with the Diamond Jubilee slogan.

After you receive this, the Diamond Jubilee number, there will be the whole month of December in which to

[1]The sketch for this cut has been lent to us by Grant V. Wilson, President, Grant Wilson, Inc. of Chicago, who is having all his letterheads and printed matter imprinted with it.

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stress the idea; in fact the little stickers have no date on them so that they may be used as long as desired in 1940.

It is most gratifying to us to know that the Diamond Jubilee idea has been taken up by the Industry so enthusiastically, but aside from that, the publicity given to asbestos during November and December is just a small sample of what the Industry could do to keep the public asbestos-minded, so that when people have a problem to solve which needs a material having some of the many desirable qualities which asbestos has, they will immediately and *first* think of *asbestos*.

Get the public talking, and keep it *thinking*, about ASBESTOS — The Magic Mineral.

DUST RESPIRATOR

A dust respirator made in England uses asbestos as a component part of its filtering material.

The respirator consists of a molded rubber face piece carrying two filter units and an outlet valve and harness.

The filtering material used consists of merino wool and asbestos fibre, prepared by carding a mixture of 20% by weight of chrysotile asbestos fibre of average one inch fibre length, and 80% by weight of merino wool noils at 16.5% regain.

Under normal conditions the filters do not need renewing for considerably long periods and may be washed in soap and water or a disinfectant, such as a 5% lysol solution.

SULFUR AND ASBESTOS

Up until recently we had never heard of mixing sulfur and asbestos fibre for any sort of purpose, but now we understand that a lining for steel pipe is made by mixing sulfur with a coarse sand or coke, and asbestos fibre added to either composition.

The composition is said to make the steel rustproof as well as safe from numerous other forms of corrosion to which steel pipes are subjected when in use.

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ESTABLISHED IN 1875

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Mines

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MARKET CONDITIONS

GENERAL BUSINESS

Now that the arms embargo has been repealed, the impetus which will undoubtedly be given business by war orders is expected to carry over until about the end of January the improved condition of general business. After that some tapering off, or recession, is expected, altho not any severe slump. In fact business in general is trying to keep an even keel rather than let either production or enthusiasm soar, the idea being that "the higher you go, the harder you fall."

ASBESTOS - RAW MATERIAL

Prices for the first quarter of next year have been announced by several Canadian producers. Other than Canadian No. 1 Crude, which shows a decline of $50.00 per ton, there is practically no change.

Quotations by Canadian Mines, however, are now established in American Dollars instead of, as heretofore, in Canadian Dollars.

Importations into the United States are very good from all sources and would be better if more steamers from South Africa to New York were available.

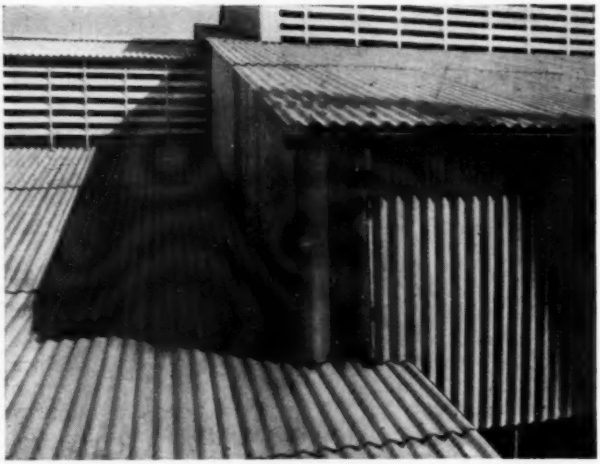
ASBESTOS— MANUFACTURED GOODS

Textiles. The demand in this market is still strong and some manufacturers have their capacity sold up for several months to come. The price situation is somewhat stabilized, possibly as a result of the increased demand.

A great portion of the increased business in asbestos textiles is occasioned by the rather large purchases of the U.S. Navy, the reconditioning and building program now in full sway, having increased the requirements of insulating materials, blanket insulation and asbestos packings.

Undoubtedly the asbestos textile business is better at the present time than it has been for many, many years.

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RU-BER-OID – ETERNIT

4 POINT 2

Corrugated Asbestos-Cement Sheets

An economical, attractive, fire-proof, corrosion-resisting roofing and siding material that is not affected by humidity, salt air, tropical sun, heavy rains, rapid changes of temperature, steam, frost or chimney gases.

Easy to apply on skeleton steel or wood framework. Made in sheets 3 to 12 feet long in 6 inch multiples, 42 inches wide. Write for full data.

The RUBEROID Co.

Executive Offices:

500 Fifth Avenue New York, N.Y.

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Paper and Millboard. Demand for asbestos paper is about as usual for the season with prices firm.

Millboard, which is used very largely in shipbuilding work, is showing better demand than normal.

Insulation. High Pressure. Some improvement in demand has made the factories quite busy. How long this condition will obtain is anybody's guess because there is a vast difference of opinion as to the duration of the war. Prices are firm.

Insulation. Low Pressure. In this line good business has prevailed for some little time, but the usual seasonal decline is at present on the way, demand having fallen off within the last week or so.

Asbestos Cement Products. In the Asbestos-Cement shingle line the normal flow of business for this season of the year seems to be carrying on; there is, of course, always a slackening as winter approaches. Prices are firm.

In the industrial end, however, an increasing demand is noted. Building projects which have perhaps been planned for the last year and a half or two years, are getting to the point where they are ready for asbestos-cement products—siding, roofing, etc., which fact accounts for much of the improvement in demand.

The above represents the opinions of men in touch with the various markets. Opinions are always welcome from readers.

CURRENT RANGE OF PRICE

Canadian

	Per Ton (2000 lbs.) f.o.b. Mine
Group No. 1 (Crude No. 1)	**$700.00 to $750.00**
Group No. 2 (Crude No. 2; Crude Run-of-Mine and Sundry)	**150.00 to 350.00**
Group No. 3 (Spinning or Textile Fibre)	**110.00 to 200.00**
Group No. 4 (Shingle Fibre)	**57.00 to 78.50**
Group No. 5 (Paper Fibre)	**40.00 to 45.00**
Group No. 6 (Waste, Stucco or Plaster)	**30.00**
Group No. 7 (Refuse or Shorts)	**12.00 to 25.00**

We understand that prices on Canadian asbestos for the first four months of 1940, for delivery in the United States will be substantially the same as those for 1939 except that quota-

(Continued on page 24)

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Congratulations

To every member
of the
Asbestos Industry
making possible the

DIAMOND JUBILEE

✶

For nearly Fifty Years
we have enjoyed the
association of this
Industry.

NORRISTOWN MAGNESIA & ASBESTOS CO.
NORRISTOWN
PENNSYLVANIA

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Current Range of Price (Continued)

tions are U. S. Funds instead of Canadian Funds as formerly, this being due to the regulations of the Canadian Foreign Exchange Board.

Vermont	Per Ton (2000 lbs.) f. o. b. Hyde Park, Vt.
Shingle (Minimum test 0-2-10- 4)	$57.00
XX (Minimum test 0-0-10- 6)	40.00
E (Minimum test 0-0- 7- 9)	30.00
C (Minimum test 0-0- 5-11)	25.00
Shorts	$12.00 to 16.50
Floats	18.00

Note: Crude Run-of-Mine refers to a crude asbestos produced in ceratin mines where Crude Fibre is not graded into regular No. 1 and No. 2 Crude. Crude Sundry refers to certain odd lots of off grade material which do not conform to the regular standards of No. 1 Crude or No. 2 Crude.

ASBESTOS IN THE ELECTRIC FURNACE

Asbestos is used in the manufacture and safe operation of certain types of induction furnaces.

Such a furnace is equipped with an induction heating coil, the major piece of apparatus, these coils being made of copper tubing and completed by surrounding the outside with an asbestos board casing. Inside the coil itself there is approximately ¼ inch of asbestos matting or wadding to keep the work ("working" piece of apparatus) from making contact with the coil turns. The work referred to is generally a steel tube.

The electric furnace uses asbestos in other ways, for instance soft asbestos discs are used at the bottom of stationary cylindrical furnaces while removable asbestos board acts as a protective housing for many graphite-lined furnaces, and asbestos gaskets are often used between the collar and the cap of the vacuum tubes in vacuum furnaces.

Step out and sell — With confidence in yourself; with pride in your product; with a knowledge of your job; with friendliness in contacting people; with persistent followup. Get away from the cozy fireplace of life. Get away from ease and comfort. Get out of yourself. — *Quotation from "Step Out and Sell" (See page 26).*

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CONTRACTORS AND DISTRIBUTORS PAGE

Minimizing the Loss Danger

The pathway to getting business is beset with many obstacles. One, always present in competitive bidding, has been the acceptable lower bid. Another, and it occurs frequently, has been the financial irresponsibility of the owner.

Even after competition is swept aside, and a contract is entered into with an excellent financial risk, many contractors have learned that unexpected catastrophies have prevented the successful collection of moneys due for material and labor.

In the Middle West, a year or so ago, the owner of a plot of ground, erected a building. The contractor who agreed to construct it for a certain figure was unfortunate in the selection of a sub-contractor for the foundation job. Poor material and lack of experience on the part of the stone masons resulted in a crack in the foundation and the collapse of the structure. The contractor was unable to collect the cost of the building. The written agreement specified delivery of the finished structure by a certain date. The collapse, unfortunately occurred several days prior.

In another case, a contractor agreed to erect a three story building. Before the completion of the structure, fire from an unknown source destroyed the unfinished building. The contractor was forced to rebuild the building. Needless to say, he bore the loss. He had no recourse to the owner.

Frequently, the cost of material and labor advances rapidly. Of course, in these instances, the contractor bears the increased cost by his agreement to erect a building or do some specific job at a fixed price. The owner is unaffected by market increases.

To overcome some of these unexpected headaches, careful contractors have inserted in their agreements with customers certain provisions pertaining to hazards briefly illustrated above. To combat the danger of double expense due to fire or accidental destruction, a contractor may insist on pro-rata payment for work up to the point where the damage has been occasioned thru no fault of his; or, some indemnity insurance may be placed to guard against such events.

Where the likelihood of increase of cost of production is imminent, a contractor may, if the customer is so minded, en-

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ter into a "cost plus" contract. In this way, fluctuation of prices will not affect the contractor. The margin of profit will remain stationary insofar as the percentage is involved, the owner always bearing the burden of paying for material and labor.

Building

Increased private construction contracts awarded in September more than offset a moderate decline in contracts for publicly-owned projects, according to F. W. Dodge Corporation. In consequence, the over-all September contract total for the 37 Eastern States, $323,227,000, showed a 3 per cent increase over the preceding month and a 7 per cent increase over September 1938.

The increase of private-ownership contracts from $153,869,000 in August to $179,011,000 in September was principally due to increased volume of commercial and factory building, residential contracts continuing at approximately the August rate. Factory building contracts in September were practically double the amounts awarded in September of last year and in August of this year, the increased activity in this class occurring principally in Ohio and Texas. The September contract total for factory building was the *largest recorded since December 1937.*

Thus, the trends in evidence during the past several months, of continuing private construction at a relatively high rate and moderately declining public work, persisted during the first month which has elapsed since the outbreak of war in Europe. The cumulative contract total for the first nine months of this year, amounting to $2,634,802,000 is the highest for any like period since 1930, and is 23 per cent greater than the total for the first nine months of last year. On the basis of this year's record to date, the industry's expectation that 1939 would be the sixth consecutive year of construction volume increase is being realized.

Roofing — Estimating, Applying, Repairing by James McCawley, is a practical handbook describing the mechanics of shelter and application of all kinds of roofing material. Price is $3.00 per copy. "ASBESTOS" will be glad to fill orders for this book.

"Step Out and Sell" is one of those books you enjoy reading, yet get a lot of practical hints on selling from it. Not a large book, only 96 pages, but packed with practical ideas. Cloth bound and attractively boxed it would make an ideal Christmas Gift for anyone interested in selling. The author is William E. Holler, General Sales Manager, Chevrolet Division, General Motors Sales Corporation. Price is $1.50 and it can be obtained from The Dartnell Corporation, 4660 Ravengood Ave., Chicago. Or "ASBESTOS" will be glad to handle your orders.

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Africa (S. Rhodesia)

(Statistics by Rhodesia Chamber of Mines)

	July 1939 Tons (2000 lbs.)	Value £	s	d
Bulawayo District				
Nil Desperandum (African Asb. Mng. Co. Ltd.)	710.52	10,084	18	2
Pangani (Pangani Tributors)	17.10	102	19	2
Shabanie (Rho. & Gen. Asb. Corp. Ltd.)	3,319.48	64,915	11	0
Victoria District				
D. S. O. (Mashaba Rho. Asb. Co. Ltd.)	7.50	85	12	4
Gath's (Rho. & Gen. Asb. Corp. Ltd.)	748.18	13,298	8	9
Murie Asbestos (Mashaba Rho. Asb. Co. Ltd.)	11.50	141	16	10
Regina (African Asb. Mng. Co. Ltd.)	52.60	812	12	0
Rosey Cross (Mashaba Rho. Asb. Co. Ltd.)	10.25	135	4	11
	4,877.13	£89,577	3	2
July 1938	*4,913.04*	*£83,723*	*19*	*9*

Africa (Union of South)

(Statistics published by Dept. of Mines & Industries of U. of S. A.)

	July 1938 Tons (2000 lbs.)	July 1939 Tons (2000 lbs.)
Transvaal		
Amosite	882	957
Blue	187	270
Chrysotile	93	38
Cape		
Blue	494	501
Natal		
Chrysotile	138	.....
	1,794	1,766

Africa (Swaziland)

August 1939 ..... 1,000.62 tons (2000 lbs.)

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"ASBESTOS"

Canada

(Statistics published by Bureau of Mines, Province of Quebec)

Production September 1939 ..... 38,124 tons (2000 lbs.)
Production September 1938 ..... 28,297 tons (2000 lbs.)

	3rd Quarter 1938 Ending Sept. 30	3rd Quarter 1939 Ending Sept. 30
Crudes	495 tons	839 tons
Fibres	29,693 tons	54,860 tons
Shorts	11,895 tons	46,982 tons
	42,083 tons	102,681 tons

ASBESTOS STOCK QUOTATIONS

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

	Par	October 1939 Low	High	Last
Armstrong Cork Co. (Com.)	np	35⅝	41	39
Asbestos Corp. (Com.)	np	22½	24⅞	24½
Celotex (Com.)	np	9⅞	11¾	10⅞
Celotex (Pfd.)	100	55¼	62	62
Certainteed (Com.)	1	6¾	8⅛	7⅝
Certainteed (Pfd.)	100	28	38	37⅛
Flintkote (Com.)	np	17½	22	21¾
Johns-Manville (Com.)	np	74¾	81⅞	78
Johns-Manville (Pfd.)	100	122	128½	125
Raybestos-Manhattan (Com.)	np	21	23	21½
Ruberoid (Com.)	np	17¼	22¼	20½
Thermoid (Com.)	1	3⅞	5⅝	5⅝
Thermoid (Pfd.)	10	23½	32	32
U. S. Gypsum (Com.)	20	72½	85⅞	81
U. S. Gypsum (Pfd.)	100	153	167	167

AUTOMOBILE PRODUCTION

During September 1939, 192,672 motor vehicles were produced (188,751 in the United States and 3,921 in Canada). This was more than twice as many as in September 1938 when 89,623 were produced; and it was likewise considerably ahead of August 1939 when 103,343 was the total.

For the first nine months of 1939 automotive production totalled 2,570,161 (2,459,875 in the United States and 110,286 in Canada); compared with a total production for the first nine months of 1938 of 1,642,520, and for a similar period in 1937 of 3,954,480.

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Imports into U. S. A.

(Figures published by U. S. Dept. of Commerce)

Unmanufactured Asbestos:

	August 1938 Tons (2240 lbs.)	August 1939 Tons (2240 lbs.)
Africa (Br. S.)	199	650
Canada	13,173	15,990
Cyprus	.....	1,273
Italy	195	.....
U. S. S. R. (Russia)	880	56
	14,447	17,969
Value	*$492,511*	*$223,081*
Crude (Br. S. Africa)	199	650
Crude (Canada)	58	94
Milled Fibre (Canada)	3,968	4,977
Milled Fibre (U. S. S. R.)	880	56
Lower Grades (Canada)	9,147	10,919
Lower Grades (Cyrus)	.....	1,273
Lower Grades (Italy)	195	.....
	14,447	17,969

Manufactured Asbestos Goods:

	August 1938 Pounds	August 1939 Pounds
Belgium (Shingles)	51,018	107,042
Canada (Packing)	20	.....
France (Woven Fabric)	800	.....
Germany (Yarn)	603	.....
Germany (Packing)	1,870	.....
United Kingdom (Yarn)	.....	2,618
United Kingdom (Packing)	977	4,377
United Kingdom (W. Fabric)	.....	2,558
	55,288	116,595
Value	*$ 3,339*	*$ 5,187*

There was also imported during August 1939 material unclassified as to kind, to the value of $215, this coming from France.

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Exports from U. S. A.

Exports of unmanufactured asbestos during the month of August 1939 amounted to 95 tons, valued at $9,370; compared with 133 tons, valued at $21,879 in August 1938.

Exports of Manufactured Asbestos Goods:

	August 1938		August 1939	
	Quantity	Value	Quantity	Value
Paper, Mlbd. & Rlbd. ....lbs.	59,952	$ 5,225	178,402	$11,408
Pipe Covg. & Cment ....lbs.	171,134	13,711	292,009	16,820
Textiles & Yarn .....lbs.	10,769	5,670	37,209	10,176
Packing .....lbs.	74,281	43,305	67,937	50,179
Brake Lining—				
Molded & Semi-molded ..	.....	53,438	.....	47,316
Not Molded .....lin. ft.	75,717	15,233	62,521	14,453
Clutch Facings—				
Molded & S.-molded units	25,724	6,973	10,489	3,865
Woven .....units	6,370	1,757	10,981	3,362
Magnesia & Mfrs. of ....lbs.	154,627	10,174	199,565	18,400
Asbestos Roofing .....sqs.	23,957	48,864	6,149	19,205
Other Manufactures ....lbs.	289,649	18,490	385,440	40,057

Exports of Raw Asbestos from South Africa

	June 1938		June 1939	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
To Algeria	10	£ 170	.....	£ .....
Australia	136	1,606	20	372
Belgium	43	952	22	534
Canada	.....	.....	20	378
France	63	1,598	209	4,978
Germany	127	3,339	174	5,551
Netherlands	55	1,199	1	24
India	100	723	.....	.....
Italy	49	658	229	5,566
Japan	22	370	66	1,462
Portugal	.....	.....	9	264
Sweden	3	58	.....	.....
United Kingdom	778	16,816	653	15,136
United States of America	313	7,465	319	7,235
Yugoslavia	2	15	.....	.....
	1,701	£34,969	1,722	£41,500

It is probable that the war conditions in Europe may cause delay in receipt of statistical figures, particularly those covering Imports and Exports by the United Kingdom. We will do our best to keep such figures as uptodate as possible.

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Exports of Raw Asbestos from Canada
(Figures by Dominion Bureau of Statistics)

	August 1938 Tons (2000 lbs.)	August 1938 Value	August 1939 Tons (2000 lbs.)	August 1939 Value
United Kingdom	1,690	$ 101,111	3,065	$ 182,571
United States	4,442	228,766	6,479	381,123
Australia	537	34,683	738	44,056
New Zealand	20	1,320	20	1,200
Argentina	.....	.....	195	14,590
Belgium	1,412	93,350	820	55,127
Czechoslovakia	27	2,081	.....	.....
France	125	19,513	85	6,458
Germany	3,373	343,746	985	103,202
Italy	647	50,013	645	50,687
Japan	133	21,263	1,071	63,375
Netherlands	22	994	.....	.....
Poland and Danzig	16	2,145	22	3,410
Sweden	315	20,858	.....	.....
	12,759	$ 919,843	14,125	$ 905,799
Sand and Waste				
United Kingdom	585	11,320	906	17,949
United States	10,567	188,816	14,363	248,127
Belgium	.....	.....	30	465
Cuba	30	390	.....	.....
Czechoslovakia	5	132	.....	.....
France	10	240	20	480
Germany	190	4,379	289	7,370
Netherlands	30	720	.....	.....
Poland and Danzig	100	2,400	.....	.....
	11,517	$ 208,397	15,608	$ 274,391
Grand Total	*24,276*	*$1,128,240*	*29,733*	*$1,180,190*

A. S. T. M. STANDARDS -- TEXTILE

The 1939 issue of A.S.T.M. Standards of Textile Materials has just been issued under the sponsorship of Committee D-13. This contains three standards on asbestos materials, all of which were adopted in 1937. They cover asbestos roving, yarns and tape. The book, bound in heavy paper, can be obtained from A.S.T.M. Headquarters, 260 S. Broad St., Philadelphia, at $2.00 per copy.

The same three standards on asbestos materials also appear in the 1939 issue of A.S.T.M. Standards on Electrical Insulating Materials just issued and obtainable at the same price, from the A.S.T.M. headquarters as above.

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NEWS OF THE INDUSTRY

BIRTHDAYS:

F. R. Anderson, Vice President, Sall Mountain Co., Chicago, Ill., November 24.

Alvin C. McCord, President, McCord Mfg. Co., Wyandotte, Mich., November 24.

John J. Krez, President, Paul J. Krez Co., Chicago, Ill., November 26.

S. J. Gillis, Waterfront Manager, Plant Rubber & Asbestos Works, San Francisco, Calif., November 26.

Alfred E. Hermes, Secretary-Treasurer, Acme Asbestos Covg. & Flooring Co., November 27.

E. T. Connell, President, Connell Asbestos Co., Brooklyn, N. Y., November 29.

George W. Gerding, Asbestos Fibre Spinning Co., North Wales, Pa., November 29.

S. P. Moffit, Vice President and Director, The Ruberoid Co., New York City, November 29.

R. E. Kramig, Senior Partner, R. E. Kramig & Co., Cincinnati, O., November 29.

G. C. Estes, General Sales Manager, The Lehon Co., Chicago, Ill., December 2.

K. H. Behre, Sales Manager, Vermont Asbestos Mines, New York City, N. Y., December 5.

Kenneth MacLellan, Managing Director, George MacLellan & Co., Ltd., Glasgow, Scotland, December 8.

Chas. S. Donnelly, President, Mohawk Asbestos Shingles, Inc., Oneida, N. Y., December 16.

To all these gentlemen we extend best wishes and congratulations.

ARTICLE. "Fillers-Asbestos and Diatomaceous Silica" by A. B. Cummins, who is in charge of Celite research, Johns-Manville Research Laboratories, was published in the October issue of Modern Plastics (122 E. 42nd St., New York City.)

THE RUBEROID CO. The names of 87 executives and employees having continuous service records of 25 years or more were inscribed on honor rolls placed on October 20 in all plants and offices of The Ruberoid Co., as part of the observance of the fifty-third anniversary of the founding of the company. Each of the veteran employees had previously received a specially designed gold service emblem. The total period of continuous employment represented by the "Twenty-Fivers" as they are known in the organization, amounted to 2,813 years, or an average of 32 years each.

Included in the list were Herbert Abraham, President, with a service record of 36 years; L. C. Rugen, Vice President in charge of manufacturing, 34 years, and S. D. Van Vleet, Secre-

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• BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

MILLBOARD **YARNS**
ROVINGS **POWDER** **CLOTHS**
PROCESSED FIBRES
Unexcelled for use in
ASBESTOS CEMENT PIPES

• AMOSITE ASBESTOS

This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

Asbestos mattress filler
85% Magnesia Insulation

The CAPE ASBESTOS CO. Limited
Morley House, 28-30 Holborn Viaduct, London, E.C.1.
FACTORY, BARKING, ESSEX

United States Sales Agent:
ARNOLD W. KOEHLER
415 LEXINGTON AVE. **NEW YORK CITY**
TELEPHONE—VANDERBILT 6-1477

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tary of the corporation, 28 years. The three employees having the longest service record are John A. Milne, of the company's Erie, Pa., division, 46 years; Fred Geiger, of the Lang Mills division at Gloucester City, N. J., 44 years, and John G. Fischer, of the Erie division, 43 years.

JOHNS-MANVILLE CORPORATION report for the 3rd quarter ending September 30, shows net sales for the nine months of 1939 as $38,789,321, with a net profit of $2,675,999; compared with net sales for the same period in 1938 of $34,702,288 and net profit of $857,468.

Detailed figures for the 3rd quarter and the first nine months, follow:

	THIRD QUARTER ENDED	
	Sept. 30, 1939	Sept. 30, 1938
Gross Sales	$15,941,920.43	$13,595,970.51
Freight, etc., returns and allowances	1,254,666.96	1,254,513.46
Leaving net sales of	14,687,253.47	12,341,457.05
Income from rents, interest, dividends, etc.	42,298.98	53,066.15
	14,729,552.45	12,394,523.20
EXPENSES:		
Cost of Raw materials, fuel supplies, etc.	7,242,684.07	6,612,633.56
Depre., depletion and obsolescence of mineral properties	607,868.13	587,020.57
Taxes	597,969.03	395,316.86
Wages and Salaries	4,808,776.15	3,917,185.95
Leaving net earnings of	1,472,255.07	882,366.26
Equal after required preferred dividends to a profit per common share of	1.58	.89

	NINE MONTHS ENDED	
	Sept. 30, 1939	Sept. 30, 1938
Gross Sales	$42,141,634.42	$38,106,035.00
Freight, etc., returns and allowances	3,352,312.85	3,403,746.50
Leaving net sales of	38,789,321.57	34,702,288.50
Income from rents, interest, dividends, etc.	160,727.28	168,693.02
	38,950,048.85	34,870,981.52
EXPENSES:		
Cost of Raw materials, fuel supplies, etc.	19,544,461.47	18,766,224.55
Depre., depletion and obsolescence of mineral properties	1,780,132.21	1,720,008.90
Taxes	1,424,584.63	1,068,910.79
Wages and Salaries	13,524,871.11	12,458,368.53
Leaving net earnings of	2,675,999.43	857,468.78
Equal after required preferred dividends to a profit per common share of	2.69	.55

H. L. SEYMOUR, Atlanta District Manager of the Philip Carey Company, of Cincinnati, has written a book of a religious nature, the title being, "The Revelation of St. John, Including Studies in the Fundamental."

Mr. Seymour has been a Bible student from childhood and for twenty years has taught adult Bible classes. The book is published by the firm of Foote & Davies Co., Atlanta, Ga., at a price of $3.00 per copy. Any interested reader may secure a copy from that source.

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RAHN LAKE MINES CORPORATION LIMITED, with headquarters at McKinnon Bldg, 19 Melinda St., Toronto, asbestos deposits in Bannockburn and Montrose Townships, Ontario, (Matachewan area) and mill at Elk Lake, reports that they are about to begin operations at their mill and have orders on their books awaiting the commencement of milling. The mill is said to have a capacity of 200 tons per day.

THE RUBEROID CO., reported for the nine months ended September 30, 1939, consolidated net profit of $501,878, equal to $1.26 per share on 397,806 shares outstanding, after provision for depreciation and Federal taxes. This compares with net profit of $351,052, equal to 88 cents per share, in the first three quarters of last year.

For the third quarter of 1939 net profit amounted to $239,871, equivalent to 74 cents per share. Net trading profit for the third quarter of last year, exclusive of a non-recurring item of $158,091 representing a final liquidating dividend received from The Ruberoid Purchase Corporation (dissolved September 23, 1938) was $187,682.

Net sales for the third quarter of this year aggregated $4,778,221, an increase of 25% over net sales of $3,814,038 in the corresponding 1938 quarter. Net sales for the first nine months of 1939 amounted to $12,017,864 an increase of 18% over net sales of $10,158,511 in the first three quarters of last year.

"Despite increased public agitation over European conditions in September," said Herbert Abraham, President of the Company, in making this announcement, "activity in home building and modernization in this country continued to show an encouraging upward trend."

THE PHILIP CAREY MANUFACTURING COMPANY reports net profits after all charges, including depreciation, depletion and Federal income taxes, for the third quarter of 1939 of $248,412.40, compared with net profit after all charges including depreciation and depletion, for the third quarter of 1938 of $119,802.69.

Net profits for the 12 months ending September 30, 1939 after all charges including depreciation, depletion and Federal income taxes, were $304,427.88, compared with a net loss for the 12 months ending Sept. 30, 1938 after all charges, of $265,966.72, thus indicating an improvement of $570,394.60 for the twelve months period.

George D. Crabbs, President, reports October business well ahead of September 1939 and October 1938, with a substantial back log of orders for November and December. Greater activity prevails in the demand for Carey Products from large industrials, railroads and public utilities.

CELOTEX CORPORATION has appointed as manager of its Cleveland Division Office, J. Z. Hollman, who has been associated with the company since 1926. For several years he was manager of the St. Louis Division Office, later serving in an ex-

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ecutive capacity at the home office in Chicago, Ill. Prior to assuming his new duties, he was on leave of absence due to ill health.

Jack W. Hussey has been appointed manager of Gypsum Sales, having been with the Celotex Corporation since 1937.

G. D. Andrews has been appointed Sales Promotion Manager of The Celotex Corporation. Mr Andrews prior to his appointment was a member of the merchandising staff engaged in organizing and directing national sales promotion programs. He has been associated with the Corporation since 1938.

JOHNS-MANVILLE. According to present plans Johns-Manville will be an exhibitor at the New York World's Fair again next year, the J-M building and exhibits in the main to be unchanged, H. M. Shackelford, J-M vice president in charge of advertising and sales promotion, states that both in total attendance and in number of requests for literature and information, the Fair's success, so far as the company is concerned, has exceeded expectations.

GRANT WILSON, INCORPORATED, Chicago, Ill., has recently been appointed the Exclusive Distributor for the popular Cheney-Royal Pipe Covering Protectors in the States of Illinois, Indiana Iowa, Kansas, Kentucky, Michigan, Minnesota, North and South Dakota, Missouri, Nebraska, Ohio and Wisconsin. Complete stock of popular sizes will be carried at their warehouse in Chicago.

The Cheney-Royal Pipe Covering Protectors are made of 20 guage Aluminum, are quickly and easily installed, fitting tightly over the ends of pipe covering, adjustable to a total circumference variation of one and one-half inches and lock from the outside by a simple tongue clasp. Special Finishes can be had on order in Black Enamel, Polished Aluminum or any desired color.

This simple but ingenious Aluminum Cap prevents torn, ragged, broken, soiled and sifting ends on pipe coverings by protecting them against damage from mops, vacuum cleaners, etc.

Further information can be obtained by addressing Grant Wilson, Inc., at 4101 Taylor St., Chicago, or The Cheney Co., Architects Building, Philadelphia.

THERMOID COMPANY has put into effect a profit sharing bonus plan which affects all workers earning less than $200. monthly, and which has been voted by the company as a result of better business conditions. The bonus will be paid monthly on the basis of average profits per month for the past three months. The amount to be distributed will be 20% of the average net profits of Thermoid's Trenton operations. Each employee's share will be that percent of his or her total monthly earnings as the amount calculated for distribution is in proportion of the total amount of the payroll for the last month of the three month period.

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PATENTS

This information obtained from the Official Patent Gazette, published weekly by the U. S. Patent Office, Washington, D. C.

Insulating Tape. No. 2,170,207. Granted on August 22, 1939 to Carl Mosier and John L. Mohun, Jr., Chicago, Ill., assignors to Union Asbestos & Rubber Co., Chicago. Application June 14, 1937. Serial No. 148,045.

The method of making insulating tape which comprises weaving a tubular fabric sheath of insulating material with transversely and longitudinally extending ribs on one of the outer sides of said sheath, assembling a plurality of rovings of insulating material in overlapping relation to form a filler for said sheath, and covering one side of said filler with a layer of heat reflecting material, interlacing a tension resisting netting about said rovings and layer and drawing said filler into the sheath to form a tape.

Gasket. No. 2,170,363. Granted on August 22, 1939 to George T. Balfe, Detroit, Mich., assignor to Detroit Gasket & Mfg. Co., Detroit, Mich. Application March 4, 1935. Serial No. 9,311.

A gasket having an opening and consisting of a metal layer and a cushion layer, etc. Further description upon request.

Oven. No. 2,170,409. Granted on August 22, 1939 to Robert W. Hoffman, St. Louis, Mo., and Otto F. Juenger, Belleville, Ill. Assignors to Johns-Manville, New York City. Application June 1, 1936. Serial No. 82,734. Description upon request.

Article of Manufacture. (Electrical Switchboard Panel). No. 2,170,434. Granted on August 22, 1939 to William R. Seigle, Mamaroneck, N. Y., assignor to Johns-Manville, New York City. Application October 12, 1935. Serial No. 44,656.

A compressed and hardened electric insulator sheet comprising cement, asbestos fibres distributed as reinforcement therethruout and a water-repellent agent selected from the group consisting of paraffin, wax, zinc stearate and aluminate stearate, in proportion of one to three parts by weight to 100 parts of the said sheet, the said agent being intimately associated with the said fibres whereby the moisture absorptiveness of the sheet is substantially reduced.

Asbestos Cement Shingle. No. 2,171,155. Granted on August 29, 1939 to William R. Wright, Jr., Wharton, N. J. Assignor to Patent & Licensing Corp., New York City. Application April 12, 1937. Serial No. 136,302.

A method of making shingles or the like from a wet mixture of hydraulic cement and asbestos fibre, comprising accumulating a plurality of superposed, thin plies of the cement and fibre mixture upon a substantially cylindrical irregular surface to form a layer wherein the ply adjacent said surface has an irregular contour complemental in form to that of the said surface and the successive ones of said superposed plies exhibit said contour to an increasingly lesser extent with the outermost

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one of said plies substantially smooth, accumulating a plurality of superposed additional plies over the outermost of said first named plies until a sheet of the desired thickness is built up on said surface, separating the sheet from the surface, sub-dividing said sheet into elements of suitable size and compacting the elements while still wet between surfaces of compressible deformable material to prevent substantial deformation of said irregular contour during said compacting.

Laminated Material. No. 2,171,530. Granted on September 5, 1939 to George T. Balfe, Detroit, Mich., assignor to Detroit Gasket & Mfg. Co., Detroit, application June 30, 1936. Serial No. 88,233. Laminated Gaskets. Description upon request.

Plastic Fluid Seal. Structure. No. 2,172,325. Granted on September 5, 1939 to John H. Victor, Wilmette, Ill., William A. Heinze, Chicago, and Wilburn F. Bernstein, Brookfield, Ill. Assignors to Victor Mfg. & Gasket Co. Application March 1, 1937. Serial No. 128,444.

Single Ply Drier Felt with Asbestos Facing. No. 2,172,430. Granted on September 12, 1939 to William A. Barrell, North Andover, Mass., assignor to Lawrence Duck Company, Lawrence, Mass. Application October 14, 1937. Serial No. 168,856.

A drier felt for paper machines comprising a warp and filling of non-asbestos strands woven as a plain weave with alternate warp strands passing over, and intermediate warp strands passing under, the same picks of filling and each warp strand passing over and under successive picks in sequence, float warp strand containing asbestos fibre each extending loosely over groups of successive picks and under single picks between such groups, and non-asbestos float warp strands similarly arranged with respect to said picks of filling, the asbestos and non-asbestos float warp strands being located in alternation with one another across the felt and protectively overlying the first named warp strands on the paper-contact face of the felt.

Magnesia Insulation. No. 2,172,861. Granted on September 12, 1939 to Earle R. Williams, North Plainfield, N. J. Assignor to Johns-Manville Corporation, New York City. Application January 29, 1936. Serial No. 61,311. Renewed December 22, 1938.

In making Magnesia Insulation, the method which comprises forming a dilute suspension of finely divided magnesium oxide in water, treating the said suspension with carbon dioxide to convert the magnesium oxide largely to magnesium carbonate forming an intimate mixture of castable consistency, including the said carbonate, water, asbestos fibres and a small proportion of a water-soluble soap, shaping the said mixture to a mold, heating the molded material to an elevated temperature adapted to convert the wet magnesium carbonate therein to magnesium basic carbonate and cause the setting of the said material to a shape-retaining product, removing the product to an elevated temperature to produce drying.

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THIS and THAT

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Stainless Steel and Asbestos. "Ludlite" Board, as developed by The Allegheny Ludlum Steel Corporation, is formed of very thin sheets of stainless steel backed with a composition of asbestos fibre, volcanic clay, Portland cement and calcined magnesite. It is said to be fireproof and weather resistant, and will not warp or distort. It comes in both satin and pebbled finish and is especially recommended for ceilings and walls, store fronts, sink tops, closet linings and other similar purposes.

Sales billed by General Electric Company during the first nine months of 1939 amounted to $217,900,154, compared with $192,501,173 for the corresponding period of 1938, an increase of 13%.

Light. Asbestos-cement board is used as a frame for the glass "lenses" in a "glass-crete" roof on the Corn Exchange Building in Rotterdam, Holland. It is the largest glass-crete roof in the world—50,000 square feet. A glass-crete roof permits high daylight illumination.[1]

Six Thousand Years hence when and if scientists dig up Oglethorpe University's "Crypt of Civilization" they will find Johns-Manville Asbestos-Cement Pipe protecting the collection of phonograph records, newspapers, film and other material which the University has stored for future generations. The crypt is located on the grounds of the University at Oglethorpe, Ga.

[1] From an article in October 1939 Building News - Architectural Record, 119 W. 40th St., New York City.

Christmas Gift. We understand that a pair of asbestos gloves put up in an attractive package and marked "For Outdoor cooking, barbecues, picnics, camping trips and fireplaces" is being featured as a Christmas package by some of the department stores. The gloves are also useful for indoor open fireplaces.

Asbestos Census. The United States bi-ennial Census of Manufactures will be taken in 1940, covering the figures for 1939.

Shortly after the first of the year Asbestos Manufacturers will receive forms for the reporting of various asbestos products. We urge all manufacturers to see that these forms are filled out as promptly and accurately as may be, so that the census of figures for asbestos products may be compiled and issued by the U.S. Bureau early in 1940.

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Plan. A new Million-Dollar-To-Lend plan, for improvements which do not qualify under the terms of the new FHA plan and which will supplement the company's present FHA plan, has been announced by Johns-Manville. The new plan does not have FHA insurance and carries a service charge of 6 per cent as compared to the 5.26 per cent charge of FHA.

Form 3526.—Ed. 1933

STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., REQUIRED BY THE ACTS OF CONGRESS OF AUGUST 24, 1912, AND MARCH 3, 1933

Of "ASBESTOS" published monthly
(Insert title of publication.) (State frequency of issue.)

at Philadelphia, Pa. for October 1939
(Name of post office and State where publication is entered.)

STATE OF Pennsylvania
COUNTY OF Philadelphia } ss.

Before me, a Notary Public in and for the State and county aforesaid, personally appeared A. S. Rossiter, who, having been duly sworn according to law, deposes and says that he is the Editor of the Magazine "ASBESTOS"
(State whether owner, publisher, business manager, or editor.) (Insert title of publication.)
and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management (and if a daily paper, the circulation), etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, as amended by the Act of March 3, 1933, embodied in section 537, Postal Laws and Regulations, printed on the reverse of this form, to wit:

1. That the names and addresses of the publisher, editor, managing editor, and business managers are:

	Name of—	*Post office address—*
Publisher	Secretarial Service	16th Floor, Inquirer Bldg.,
Editor	A. S. Rossiter	Blue Bell, Pa.
Managing Editor	A. S. Rossiter	Blue Bell, Pa.
Business Manager	A. S. Rossiter	Blue Bell, Pa.

2. That the owner is: (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding one per cent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a firm, company, or other unincorporated concern, its name and address, as well as those of each individual member, must be given.)

C. J. Stover	130 Summit Ave., Jenkintown, Pa.

3. That the known bondholders, mortgagees, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: (If there are none, so state.)

None

4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him.

5. That the average number of copies of each issue of this publication sold or distributed, through the mails or otherwise, to paid subscribers during the twelve months preceding the date shown above is
(This information is required from daily publications only.)

A. S. Rossiter
(Signature of editor, publisher, business manager, or owner)

Sworn to and subscribed before me this 2nd day of October 1939

[SEAL] Conrad White

(My commission expires June 27 1940)

Note.—This statement must be made in duplicate and both copies delivered by the publisher to the postmaster, who shall send one copy to the Third Assistant Postmaster General (Division of Classification), Washington, D. C., and retain the other in the files of the post office. The publisher must publish a copy of this statement in the second issue printed after its filing.

POSTMASTER: BE SURE TO READ AND CAREFULLY OBSERVE INSTRUCTIONS ON THE OTHER SIDE.

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EHRET MAGNESIA MANUFACTURING CO.
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DO YOU KNOW-

That early patents in the United States on asbestos packings and other asbestos materials spelled the word "asbestus" . . . .

That people are protected by asbestos in hundreds of ways each day but are woefully ignorant of any but the common uses of this wonder mineral . . . .

That asbestos-cement pipe is peculiarly suited for transmission of water in paper mills as it will not introduce impurities into the pulp solution nor collect slime. Another way in which asbestos serves humanity.

That the first Philip Carey plant in which Philip Carey made both roofing and pipe covering, was located on the outskirts of Dayton, Ohio—this about 1869.

?

(Send us interesting facts for this page concerning your company).

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