

IN THE UNITED STATES DISTRICT COURT
FOR THE SOUTHERN DISTRICT OF TEXAS
HOUSTON DIVISION

M.A.D. 100

MASTER ASBESTOS FILE

DEFENDANT THE CELOTEX CORPORATION'S
RESPONSE TO MASTER SET OF INTERROGATORIES

TO: ALL COUNSEL OF RECORD

The Celotex Corporation (hereinafter Celotex) is a successor-in-business to various companies and corporations which were engaged in the manufacture and sale of asbestos containing insulation products. Celotex's involvement in the asbestos insulation business began with its purchase of Panacon Corp. in 1972. Prior to that date, Celotex did not have any interest whatsoever in the asbestos insulation field.

Most all of the events which may be relevant to the issues presented in this and related cases, occurred prior to Celotex's purchase of Panacon Corporation. For this reason and the fact that many of the matters inquired about took place several decades ago, information furnished in this response may be incomplete. Nevertheless, Celotex has endeavored to fully investigate all relevant happenings and circumstances and the following responses are based upon its investigation. However, Celotex cannot exclude the possibility that its continued investigation may reveal more complete information. Furthermore, a considerable amount of the information supplied

in these responses was obtained from employees of predecessor corporations. Accordingly, Celotex can only relay this information; it cannot attest to the accuracy or truthfulness of such responses. Information of this nature is being supplied because it may lead to the discovery of admissible evidence.

R E S P O N S E S

INTERROGATORY NO. 1

As to the person answering these interrogatories, state:

- (a) Name.
- (b) Title or position with defendant.
- (c) Business address.
- (d) Residence address.
- (e) Length of time employed by defendant.

ANSWER:

The responses to these Interrogatories are prepared by the Legal Department of the parent corporation of The Celotex Corporation. They are signed by D. S. Gibson, Manager of Safety and Property Conservation, as authorized agent of the Corporation, and not on the basis of his personal knowledge of the facts stated therein.

INTERROGATORY NO. 2

State the following concerning this defendant:

- (a) Full and correct name.
- (b) Principal place of business.
- (c) State of incorporation.
- (d) Date of incorporation and name of corporation.

- (e) Is this defendant authorized to transact business in the State of Texas? If so, state the date such authority was first issued and last renewed.
- (f) Does this defendant have an agent, representative or place of business in Texas? If so, state the name and address of such agent, representative, or place of business.
- (g) Does this defendant have an agent for service in the State of Texas? If so, state the name and address of the registered agent.

ANSWER:

- a) The Celotex Corporation.
- b) 1500 N. Dale Mabry Highway, Tampa, FL 33607.
- c) Delaware.
- d) The Celotex Corporation was reincorporated on 8/6/64.
- e) Yes. September 2, 1964.
- f) Defendant has several places of business in Texas; Houston, San Antonio and Dallas, which are unrelated to this litigation.
- g) Defendant's registered agent for service of process is the CT Corporation System, Public National Bank Building, Dallas, TX 75201; P. O. Box 807, Dallas, TX 75221.

INTERROGATORY NO. 3

Has this defendant been sued under its correct name? If not, state the correct legal name of the defendant and provide the information requested in No. 2 above concerning the defendant as correctly named.

ANSWER:

Defendant's correct name is The Celotex Corporation.

INTERROGATORY NO. 4

As to any product containing asbestos in any form, has this defendant:

- (a) Ever designed such a product?
- (b) Manufactured such a product?
- (c) Processed such a product?
- (d) Sold such a product?
- (e) Distributed such a product?
- (f) Patented such a product?
- (g) Relabeled such a product which was manufactured, sold, or distributed by another company?

ANSWER:

(a-f) Yes.

- g) Between 1956-1965 predecessors-in-business may have sold a small quantity of some asbestos-containing products to Eagle-Picher. It is believed that a minimal amount of All-Temp and Careytemp was sold in this time frame, and relabeled "Hy-Lo" by Eagle-Picher.

INTERROGATORY NO. 5

If your answer to No. 4d. and 4e. is "yes," then give the trade name of the product, the year the defendant first sold or distributed such product, and the year the defendant last sold or distributed such product.

ANSWER:

Refer to the Product List attached, marked Exhibit "A".

INTERROGATORY NO. 6

In what year did the defendant first begin selling or distributing insulation products containing asbestos?

ANSWER:

The Celotex Corporation manufactured, sold and distributed some asbestos-containing industrial insulation products until 1984. Its predecessors-in-business manufactured, sold and distributed a variety of asbestos-containing products from 1906 until 1972.

INTERROGATORY NO. 7

In what year did the defendant last sell the insulation product which contained asbestos?

ANSWER:

Please refer to Product List, marked Exhibit "A", for dates of manufacture.

INTERROGATORY NO. 8

For each asbestos containing insulation product manufactured or sold by you, please give the asbestos content by weight and by volume.

ANSWER:

Refer to Product List, marked Exhibit "A", for asbestos content.

INTERROGATORY NO. 9

Has this defendant ever acquired another corporation, company, or business which manufactured, sold, processed, distributed or contracted to apply insulation products containing asbestos?

ANSWER:

Refer to Corporate History attached, marked Exhibit "B".

INTERROGATORY NO. 10

If the answer to Interrogatory No. 9 is "yes," then state the following concerning such predecessor:

- (a) Full and correct name.
- (b) The principal place of business.
- (c) State of incorporation.
- (d) Date of acquisition by defendant.
- (e) Was this business authorized to transact business in the State of Texas?
- (f) Attach copies of all papers pertaining to the acquisition.

ANSWER:

Refer to Corporate History attached, marked Exhibit "B".

INTERROGATORY NO. 11

If your answer to No. 9 is "yes," then give the trade name of the product, the year such predecessor first sold or distributed such product, and the year such predecessor last sold or distributed such product.

ANSWER:

Refer to Product List, marked Exhibit "B".

INTERROGATORY NO. 12

In what year did the predecessor or acquired business begin selling or distributing insulation products containing asbestos?

ANSWER:

Refer to Product List, marked Exhibit "B".

INTERROGATORY NO. 13

In what year did the predecessor or acquired business last sell insulation products containing asbestos?

ANSWER:

Refer to Product List, marked Exhibit "B".

INTERROGATORY NO. 14

As to the named defendant or any predecessor or acquired business, state the various types of products such as blocks, pipe covering, cements, tape, spray-on insulation, mastics, and cloth, and in connection with each type of product, state how the same was packaged (i.e., bags, boxes, sacks, etc.) for sale.

ANSWER:

Refer to Product List, marked Exhibit "A". Defendant's industrial insulation products were shipped in bags, boxes, crates and gallon drums. Application instructions were printed on predecessors' bags of MW-1 and MW-50 cement. Celotex is continuing its efforts to locate and review

records of its predecessors-in-business, but cannot at this time state what other instructions, if any, were given by predecessors-in-business.

INTERROGATORY NO. 15

Have you since 1950 had designated distributors of your products in the State of Texas?

ANSWER:

Refer to our current list of distributors/contractors attached, marked Exhibit "C". We have no documents regarding such distributors.

INTERROGATORY NO. 16

If your answer to Interrogatory No. 15 is "yes," then state the name of all companies, their addresses, and give the years that each was a designated distributor.

ANSWER:

Refer to our current list of distributors/contractors attached, marked Exhibit "C". We have no documents regarding such distributors.

INTERROGATORY NO. 17

If you did not have designated distributors in the State of Texas, then state by what method sales were promoted, encouraged or consummated, and give the name and addresses of all sales offices located in the State of Texas.

ANSWER:

N/A.

INTERROGATORY NO. 18

Describe the purpose or purposes for which each of the products were designed, said type of products being as follows:

- (a) Pipe covering.
- (b) Blocks.
- (c) Asbestos cloth.

- (d) Mastics.
- (e) Spray-on insulation.
- (f) Rope or tape.
- (g) Asbestos sheeting or millboard.

ANSWER:

Defendant objects generally to Plaintiff's Interrogatories as vague, overbroad, irrelevant, immaterial and not reasonably calculated to lead to the discovery of admissible evidence, insofar as they relate or refer to unidentified asbestos products and materials. Asbestos fiber has over 3,000 uses and is found in a wide variety of products and forms, including floor tiles, wallboards, ceiling tiles, gloves, roofing felts, protective matting, gaskets, automotive brakes, machine and pipe insulation, etc. Defendant may not reasonably be required to delineate its product characteristics until Plaintiff has fully disclosed the basis upon which he claims Defendant's products caused him injury.

INTERROGATORY NO. 19

Did each of your insulation products or materials generally reach, or were packaged to reach, the consumer, insulation helper, insulation mechanic, or ultimate user, without substantial change in the condition in which it was sold?

ANSWER:

Defendant is unable to respond as such products were generally sold to distributors and sophisticated vendees and Defendant has no way of knowing what, if any, changes were made.

INTERROGATORY NO. 20

Do you admit that asbestos insulation applicators, helpers or mechanics, were foreseeable users of defendant's asbestos-containing insulation products?

ANSWER:

Objection. This Interrogatory asks for legal conclusions and is tantamount to having the defense do the research for the Plaintiff.

INTERROGATORY NO. 21

Based upon the material contents of your products, the method of manufacturing, and the method of application for the purpose of insulation, can your products be generally applied by an insulator without creating dust?

ANSWER:

Defendant objects to providing such information for each product manufactured by this Defendant or its predecessors-in-business on the grounds that this Interrogatory is overbroad and unduly burdensome. If Plaintiff will specify those products to which he was exposed, Defendant will attempt to provide the requested information.

INTERROGATORY NO. 22

Please describe in detail each test that you performed on your asbestos containing insulation products to determine whether persons applying the products would be exposed to bodily injury or disease as a result of applying those products. In connection with this interrogatory, include in your answer the date the test was made, the circumstances under which the test was made, the results of the test, and the name and address of the person or persons who have custody of the documentary evidence supporting the tests.

ANSWER:

Celotex's predecessors-in-business was a member of the Asbestos Information Association of North America. The Association may have conducted such research and should be contacted for further information regarding their research.

As to research relating specifically to predecessor's product, a study was conducted March 10, 1961, at the Indianapolis Power & Light Company, Harding Street Plant, Indianapolis, Indiana, by John Kehoe, Chemical Engineer, Indiana State Board of Health, 1330 W. Michigan Street, Indianapolis, Indiana. Attached and marked Exhibit "D" is a letter from Albert Edwards, Industrial Hygiene Engineer, to F. P. Ray, Indianapolis Contract Manager, of the Philip Carey Manufacturing Company. This letter is dated April 13, 1961, and reached the following conclusion:

"Under present operating conditions, it is concluded that no serious dust exposures are associated with the installation of Carey-temp insulation."

In addition, a test was conducted at the Union Carbide Plant in Institute, West Virginia in 1967. Celotex has a document, attached and marked Exhibit "E", dated January 2, 1968, addressed to Art Mueller and authored by J. Pierce, Assistant Professor of Environmental Health at the Kettering Laboratory in Cincinnati, Ohio. The document reports and analyzes samples of air taken during fabrication of Careytemp insulation at the Union Carbide plant in Charleston, West Virginia. Dust counts taken at the sawing and fabrication operation indicated dust levels far below the threshold limit value for nuisance dust as established by the ACGIH. Because of the low asbestos content of Careytemp, x-ray defraction tests failed to pick up any airborne asbestos fibers. However, the study recognized that trace amounts (less than 5%) of crystalline silica and asbestos fiber are not often detectable using x-ray defraction techniques. Nevertheless, it was felt that the amount of airborne asbestos fiber, if any, was certainly below the accepted threshold limit value for asbestos fiber. Mr. J. Pierce reported his objective findings, but did not state any conclusions after conducting the dust count.

INTERROGATORY NO. 23

Did your company, or any predecessor, ever at any time give insulation contractors, insulation helpers, or insulation mechanics who would be using or applying your products instructions concerning safety precautions to use in applying such products? If so, describe such instructions, to whom they were given, the dates they were given, and the manner of giving such instructions.

ANSWER:

Sales literature brochures have been prepared by the marketing department of Celotex and similar departments of its predecessors-in-business. These brochures were mailed to various distributors and contractors. Celotex will make available for inspection all product literature brochures in its possession for the years 1930 through the 1970's. Brochures do not exist for each year inclusively.

Warning labels were placed on Celotex's products containing asbestos. Research indicates that warning labels first appeared on such products in 1972. Because of record retention policies, we do not have complete records of our predecessors-in-business. The warning label had the following information printed in bold, black letters on a white background:

CAUTION
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
BREATHING ASBESTOS DUST MAY CAUSE
SERIOUS BODILY HARM

The above warning was revised, and the following warnings were used by The Celotex Corporation from 1976 to early 1979. The first warning also appeared in the sales literature brochures of Celotex:

WARNING
THIS PRODUCT IS (ASBESTOS FIBER) OR (CONTAINS ASBESTOS FIBER). THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AN AGENCY OF THE UNITED STATES GOVERNMENT BELIEVES THAT REPEATED INHALATION OF ASBESTOS FIBERS IS A HEALTH HAZARD AND MAY CAUSE VARIOUS DISEASES INCLUDING CANCER AND ASBESTOSIS.

CAUTION - These products contain asbestos fiber, and any working area where packages are opened, materials being cut or mixed, or handled in any way, should be inspected in accord with applicable regulations of the U.S. Occupational Safety and Health Agency (OSHA). These regulations may require special ventilation equipment, or the wearing of approved protective masks. OSHA has found asbestos fibers to be a health hazard, if repeatedly inhaled, which may cause diseases including cancer and asbestosis of the lungs. (OSHA standards are published in Volume 30, Code of Federal Regulations, Part 1910 and your supplier can obtain guidance from Celotex, if needed.)

These warnings appeared on printed labels. In July, 1979, Celotex again revised the warning label to read as follows:

CAUTION
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
BREATHING ASBESTOS DUST MAY CAUSE SERIOUS
BODILY HARM, INCLUDING CANCER AND ASBESTOSIS.
IF DUST IS CREATED, PERSONS EXPOSED TO THIS MATERIAL
SHOULD USE ADEQUATE PROTECTIVE DEVICES.
SMOKING GREATLY INCREASES THE RISK
OF SERIOUS BODILY HARM

INTERROGATORY NO. 24

Did your company or your predecessor ever require your employees at the mines, mills, factories, or plants to wear respirators? If your answer is "yes," then state the first year that respirators were required.

ANSWER:

Yes. Defendant is informed and believes that predecessors-in-business made cloth-type respirators available to some plant employees as early as the 1930's. Some time prior to 1945, predecessors-in-business purchased filter-type respirators and instituted a job evaluation plan which required certain employees to wear respirators while working in specified areas. The filter-type respirators were those approved by the U.S. Bureau of Mines and manufactured by the Mine Safety Appliance Company in Pittsburgh, Pennsylvania.

Defendant believes that respirators currently approved by the U.S. Bureau of Mines, if used properly, will prevent the inhalation of asbestos dust and fibers. The manufacturer or the U.S. Bureau of Mines should be contacted for any additional information.

INTERROGATORY NO. 25

Prior to your company or its predecessor, requiring your employees at mines, mills, factories, or plants to wear respirators, did you require of such employee a physical examination to determine whether the wearing of a respirator would endanger such employee's health?

ANSWER:

Defendant's employees are given a physical examination prior to employment and, therefore, prior to using a respirator, if applicable.

INTERROGATORY NO. 26

Was your company aware that in 1971-1972, in Washington, D.C. an advisory committee on the asbestos standard was set up by the United States Secretary of Labor, James Hodgson, which committee recommended to the Secretary of Labor that before respirators could be issued to workers for any reason, each worker must have a complete physical examination to determine whether such worker could wear a respirator without endangering his health?

ANSWER:

Due to record retention policies, Defendant does not have information to adequately respond.

INTERROGATORY NO. 27

Did your company or your predecessor ever place any warning signs on the containers in which asbestos insulation products were packaged?

ANSWER:

Yes.

INTERROGATORY NO. 28

If you have answered Interrogatory No. 27 in the affirmative, please state:

- (a) On what date did your company or your predecessor, issue an order directing a warning be placed on your insulation products or containers?
- (b) On what date was such warning actually first placed on your insulation products or containers?
- (c) State the exact size of the warning printed on your asbestos products or containers.
- (d) Did your company or its predecessor, place such warning on your asbestos insulation products or containers?
- (e) Please attach to your answers to these interrogatories true and correct copies of any photographs you may have showing the placement of such warning on the boxes containing your products.

ANSWER:

Refer to Response #14 and #23 above regarding warnings.

INTERROGATORY NO. 29

Did your company or its predecessor, ever place any warning on any of its asbestos insulation pipe covering, blocks, cloth or millboard?

ANSWER:

Refer to Response #23 above regarding warnings.

INTERROGATORY NO. 30

If your answer to Interrogatory No. 29 is "yes," then state the date and type of product on which said warning was stamped or printed.

ANSWER:

Refer to Response #23 above regarding warnings.

INTERROGATORY NO. 31

Did your company ever stamp the name of its company, its initials or any identifying logo on any of its asbestos pipe covering, blocks, cloth or millboard?

ANSWER:

Logos and identifying marks were printed on packages of insulation products but were not printed on the product itself.

INTERROGATORY NO. 32

Did the warning inquired about in Interrogatories No. 27 and 29, or a similar warning, ever appear in any of your sales literature? If so, attach copies of such sales literature, showing the date such literature was printed.

ANSWER:

Defendant first used warnings in sales literature brochures in 1974. See the attached samples of sales literature brochures marked Exhibit "F" for the wording of various warnings used by The Celotex Corporation.

INTERROGATORY NO. 33

On what date was the sales literature inquired about in Interrogatory No. 32 first provided to distributors or sellers of your company's products, or your predecessor's products?

ANSWER:

Refer to Response #32.

INTERROGATORY NO. 34

Has your company or its predecessor ever devised a high temperature heat insulation which does not contain asbestos? If so, state the date that such insulation was first placed on the market.

ANSWER:

Predecessors-in-business began manufacturing Careytemp as an asbestos-free high-temperature insulation product in 1969. This product line was developed because reinforcement with glass fiber made the product less susceptible to breakage. Also, this change was made as a result of the awareness of the controversy that existed concerning the health hazards associated with the use of asbestos-containing products.

INTERROGATORY NO. 35

If your company or its predecessor ever devised a high temperature heat insulation which does not contain asbestos, state what prompted your company to devise such high temperature heat insulation not containing asbestos.

ANSWER:

Refer to Response #34 above.

INTERROGATORY NO. 36

Has such high temperature heat insulation not containing asbestos performed satisfactorily; that is, is such insulation suitable for the purpose for which it is to be used?

ANSWER:

Refer to Response #34 above.

INTERROGATORY NO. 37

Give the trade name of your high temperature heat insulation products which do not contain asbestos, and state fully what such insulation contains.

ANSWER:

Refer to Response #34 above.

INTERROGATORY NO. 38

Does your company have now, or has it ever had, a division or subsidiary company engaged in the contracting business of applying asbestos containing insulation products? If so, give the name of such division or subsidiary company, full address of the home office of such division or subsidiary company, and the date or dates such company or subsidiary was engaged in the contracting business.

ANSWER:

Defendant objects to responding on behalf of subsidiaries which are separate, independent entities. As to this Defendant, Celotex's predecessors-in-business operated Contract Branches and Sales Units as early as 1937. Celotex's best information indicates these Contract Units became a separate division in 1953. All Contract Units were sold and/or disbanded in 1970 or 1971. The purpose of these units was to secure contract jobs and apply the insulation at the jobsite.

INTERROGATORY NO. 39

Please state whether or not any division of your company or subsidiary company engaged in the contract business of applying insulation products, had any claims for lung diseases or death from lung disease attributable to asbestosis, mesothelioma or lung cancer. If the answer is "yes," give the names of such employees and attach copies of such claims.

ANSWER:

Celotex objects to furnishing a response relating to compensation claims filed by employees at Defendant's and/or predecessors' manufacturing plants. Plant employees worked with and were continually exposed to asbestos fiber in an enclosed plant environment whereas insulation applicators and others were exposed to a manufactured product containing a much smaller percentage of asbestos, and such asbestos fiber was encapsulated in the products manufactured. Without waiving this objection, Celotex sets forth below a list of unverified claims of former employees who worked outside of the manufacturing plants and whose exposure to asbestos may have been similar to the exposure of the Plaintiff.

WORKMEN'S COMPENSATION CLAIMS

The Celotex Corporation, successor-in-business to the Philip Carey Manufacturing Company, believes that the following individuals may have filed a workmen's compensation claim for an illness associated with exposure to asbestos dust. Much of the following information was recently discovered in connection with current asbestos litigation. Accordingly, The Celotex Corporation is unable to verify if, or when, Philip Carey became aware of the claims listed below.

The Celotex Corporation has searched its records for additional information and/or verification of these claims. All material information that has been obtained is listed below. It must be emphasized that Celotex is not admitting or verifying the authenticity of any claim listed below. Further, the information is being supplied because it may lead to the discovery of relevant and admissible evidence. The information below does not include any workmen's compensation claims filed by the employees working in any manufacturing facility:

<u>Employee Name</u>	<u>Date Filed (Date Death)</u>	<u>State</u>	<u>Disposition</u>	<u>Alleged Disability</u>
Harold Swinson	09/61 (1961)	RI	Death Claim-Unknown	Silicosis/ Asbestosis
Wm. E. Latto	01/10/61 (02/22/65)	OH	Disab. Allowed 5/62 Death Claim Pending	Asbestosis
Nelson L. Lee	10/01/79 (12/23/78)	DE	Death Claim Pending	Asbestosis/ Carcinoma of lung
Adolpho Serra	08/31/77	MA	Death Claim-Unknown	Adeno Carcinoma

The following information was received either from Armstrong Cork Company in their response to a recent Plaintiff's production request or from Johns-Manville through exhibits they produced for trial. Celotex has no independent information to deny and/or corroborate the substance of the documents. Defendant is unable to determine where the below listed claimants were employed, as the only relevant employment address lists predecessor's home office, where paychecks were issued. However, Defendant believes the claimants probably worked in one of Philip Carey's Contract Units. The documents indicate the following:

<u>Claimant's Name</u>	<u>Date Filed (Date Death)</u>	<u>State</u>	<u>Disposition</u>	<u>Alleged Disability</u>
James W. Riley	1954 (01/24/61)	CA	Disability Allowed 11/59	Pneumoconiosis
John E. Swartout	Disab. 12/55 Death 06/56 (05/30/56)	CA	Death Claim Allowed	Asbestosis
Steve Gilivich	11/61	CA	Disability Settled 1965	Respiratory Injury
Anthony J. Onofrio	1962	CT	Disability Claim Unknown	Unknown
Allen Everitt	05/27/63	CA	Disability Claim Unknown	Pulmonary Disease
William Crader, Sr.	06/10/66 (03/07/66)	CA	Death Claim Allowed	Asbestosis
Clifford Harding	Unknown	CA	Disability Claim Settled	Asbestosis
Edwards L. Pflieghaar	11/68	CA	Disability Claim Settled 03/71	Asbestosis
Henry C. Puetz	07/26/66	CA	Disability Allowed	Asbestosis
			Appeal Settled	

In addition, Celotex is aware of the possibility that the following individuals may have contracted an asbestos-related disease. The below-listed information was obtained from a handwritten list of names which Celotex has been unable to verify. Celotex has no information on these individuals other than, in some cases, their address, date of employment and treating physician:

<u>Name</u>	<u>State</u>	<u>Disposition</u>
John Tyler, dec'd.	CA	Settled 10/24/68
Robert Horseman	CA	Unknown
Wayne E. Boyer	NE	Unknown
Clyde Nicholson	CA	Unknown
William McCormick	CA	Unknown

INTERROGATORY NO. 40

Has your company or its predecessor ever conducted or caused to be conducted, any studies designed to minimize or eliminate the inhalation of asbestos dust and fibers by those exposed to the use of your company's insulation products? If so, give the following:

- (a) Name of the person or firm conducting such studies.
- (b) The date the studies began and the date completed.
- (c) Any publication or dissemination of the results of the studies.
- (d) The nature of any action to eliminate or minimize the inhalation of asbestos dust or fibers.

ANSWER:

Refer to Response #22 above.

INTERROGATORY NO. 41

State the year that this defendant or any predecessor was first advised of either threshold limit value or maximum allowable concentrations of both asbestos dust and total dust by the American Conference of Governmental Industrial Hygienists, and state the name of the employee-official of the Company receiving such advice and attach copies of the instrument communicating such advice.

ANSWER:

This Interrogatory is interpreted as requesting the Threshold Limit Value standards set by the Occupational Safety and Health Administration. OSHA standards are a matter of public record and are equally available to Plaintiff. In addition, Celotex and its predecessors-in-business have been advised of the following Threshold Limit Values:

- 1) OSHA 1971 and all subsequent regulations.
- 2) Safety and Health Standards for Federal Supplied Contracts, U.S. Department of Labor, Wage and Hour Public Contracts Division, Washington, D.C. (Walsh-Healy Act 1961).

Celotex did not enter the business of manufacturing asbestos-containing insulation products until 1972. J. F. Kegenith, Manager of Employee Relations for The Celotex Corporation, received "Safety and Health Standards for Federal Supplied Contracts". Celotex has been informed that E. A. DiSalvo, Vice President of Panacon Corporation, received OSHA notices. Celotex and its predecessors-in-business have applied the Threshold Limit Standards required under the Walsh-Healy Act since 1961 and the standards required under the Occupational Safety and Health Act since 1971. Also, Philip Carey Manufacturing Company followed the recommended Threshold Limit Standards for Nuisance Dust, enacted by The Industrial Commission of Ohio, Division of Safety and Hygiene in approximately 1949.

INTERROGATORY NO. 42

Was such threshold limit values or maximum allowable concentrations inquired about in Interrogatory No. 41 total dust and not just asbestos dust?

ANSWER:

Refer to response #41 above. Threshold Limit Values are a matter of public record and equally available to both parties.

INTERROGATORY NO. 43

State whether or not the American Conference of Governmental Industrial Hygienists is or is not an agency or department of the United States Government.

ANSWER:

Defendant objects generally to Plaintiff's Interrogatories as they seek information about the activities of "government agencies" or "others" about which Defendant has either no direct knowledge or merely unconfirmed hearsay knowledge. Information of this nature should be sought from the proper source.

INTERROGATORY NO. 44

Has your company or its predecessor ever advised any contractor to whom you sell your products containing asbestos of threshold limit values for exposure to asbestos dust recommended by the American Conference of Governmental Industrial Hygienists? If so, state the date or dates that you so advised such contractors, the manner in which you advised such contractors, and the name of each contractor.

ANSWER:

Defendant objects on the grounds that this Interrogatory presumes a duty on the part of this Defendant. Defendant states that it has no authority or control over such people.

INTERROGATORY NO. 45

Before releasing the products previously listed in these interrogatories to the public, were any tests conducted on them to determine potential health hazards involved in the use of materials contained in those products?

ANSWER:

Defendant has no information indicating that such tests were conducted to determine possible health hazards associated with exposure to asbestos-containing products. Prior to the mid 1960's, it was generally believed that no potential health hazards existed for those working with or around finished asbestos-containing products. It was not until the mid 1960's that the medical community first concluded that exposure to finished (manufactured) asbestos-containing products might present a potential health hazard.

INTERROGATORY NO. 46

If the answer to Interrogatory No. 45 is affirmative, state:

- (a) The names of the products tested and date.
- (b) The name, address and job title of each person who conducted those tests.
- (c) The results of those tests and date.

ANSWER:

Refer to Response #45 above. As to tests conducted in general, refer to Response #22 above.

INTERROGATORY NO. 47

Do any documents, including written memoranda, specifications, recommendations, blueprints, or other written materials of any kind or character relating to the testing of the named products now exist?

ANSWER:

Defendant objects to providing the information requested on the grounds that this request is overbroad and unduly burdensome. If Plaintiff will specify those products to which he was exposed, Defendant will attempt to provide the requested information.

INTERROGATORY NO. 48

If the answer to Interrogatory No. 47 is affirmative:

- (a) List each document and date.
- (b) State the name, address, and job title of each person who currently has possession of each document and where it is presently located.

ANSWER:

N/A.

INTERROGATORY NO. 49

Did the defendant or its predecessor, or any of its subsidiary companies make any design changes as a result of those tests?

ANSWER:

N/A.

INTERROGATORY NO. 50

If the answer to Interrogatory No. 49 is affirmative, state:

- (a) The trade names of the products changed.
- (b) The nature of the changes made.
- (c) The name, address, and job title of each person responsible for having made a change.

ANSWER:

N/A.

INTERROGATORY NO. 51

Please state the amount of asbestos fibers that are required to be in the body to produce the following diseases:

- (a) Plural asbestosis.
- (b) Parenchymal asbestosis.
- (c) Lung cancer.
- (d) Mesothelioma.

ANSWER:

Defendant objects generally to Plaintiff's Interrogatories insofar as they request Defendant to render a medical opinion. Defendant is not a medical expert and is not qualified to render medical opinions.

INTERROGATORY NO. 52

Please state in detail the evidence you intend to offer at the time of trial to show, or prove, that the plaintiff in this case was actually aware of the following dangers from exposure to asbestos:

- (a) Plural asbestosis.
- (b) Parenchymal asbestosis.
- (c) Lung cancer.
- (d) Mesothelioma.

ANSWER:

Defendant objects generally to plaintiff's interrogatory insofar as it requests this defendant to provide a general defense without the identification of a specific cause of action. Therefore, information will be provided to plaintiff's counsel prior to trial after a specific cause of action has been identified.

INTERROGATORY NO. 53

Has defendant, or its predecessor, or any of its subsidiary companies at any time been members of any "trade organization" or "association" comprised of other manufacturers, miners, marketers, and/or sellers of asbestos products?

ANSWER:

Defendant objects to responding on behalf of subsidiaries which are separate, independent entities. As to this Defendant, The Celotex Corporation and its predecessors-in-business were members of the following organizations:

Asbestos Information Association of North America 1970-1972.

Thermal Insulation Manufacturers Association since 1978.

Asbestos Cement Products Association, up until 1965.

National Mineral Wool Association, 1960-65.

Magnesia Insulation Manufacturers Association, prior to 1950's.

National Insulation Contractors Association (and predecessors), since early 1960's through 1982.

INTERROGATORY NO. 54

If the answer to Interrogatory No. 53 is affirmative, state:

- (a) The name and address of each of those associations or organizations.
- (b) The dates during which defendant or its predecessor or any of its subsidiary companies were members.
- (c) The names of any publications published by or written by any of the named associations or organizations.

ANSWER:

54. Refer to Response #53 above.

INTERROGATORY NO. 55

Have any written materials of any kind or character been prepared by defendant or its predecessor or any of its subsidiary companies or their agents indicating how asbestos products should be used and maintained? Please attach to your answers to these interrogatories true and correct copies of such literature.

ANSWER:

Refer to Response #23 above.

INTERROGATORY NO. 56

Does defendant have insurance policies that might cover the claims made by plaintiff in this case?

ANSWER:

Yes.

INTERROGATORY NO. 57

If the answer to Interrogatory No. 56 is affirmative, list the name of each insurance carrier, the amount of coverage, and the effective dates of each policy.

ANSWER:

Please refer to the attached list of liability carriers for Celotex (1972 - 1984) and its predecessors-in-business, marked Exhibit "G". The extent and proper application of this coverage is the subject of litigation. Therefore, Defendant is unable to state with any certainty the extent to which these policies of insurance will be applicable to lawsuits involving asbestos-related diseases.

INTERROGATORY NO. 58

Describe in detail the type of packages in which defendant or its predecessor, or any of its subsidiary companies, sold asbestos material, listing the dates each type of package was used, a physical description of each type of package, and a description of any printed material or trademarks that appeared on it. Please attach to your answers to these interrogatories true and correct copies of photographs of the packages in which your products were packed.

ANSWER:

Refer to Response #14 above regarding packaging information.

INTERROGATORY NO. 59

Does defendant admit that it or its predecessor or any of its subsidiaries sold asbestos insulation materials in the State of Texas at any time?

ANSWER:

Defendant objects to this Interrogatory on the grounds that it is overbroad, irrelevant, and unduly burdensome. Celotex and predecessors-in-business were engaged in highly diversified businesses in which asbestos-containing insulation sales constituted a minimum of the business. Accordingly, available invoices reflecting general sales are predominantly comprised of non-asbestos products. Sales invoices may contain sales of both asbestos-containing products and non-asbestos-containing products. There are no separate invoices available which itemize only asbestos-containing products. In addition, sales invoice records are not available prior to 1967.

Celotex has a limited number of invoices of predecessors-in-business dating back to 1967. These invoice records are likewise not segregated into asbestos products and non-asbestos products. Also, many of these records are not indexed according to purchaser; rather, they are indexed according to the plant where the product was manufactured and the date of manufacture. The plants manufactured many other products which did not contain asbestos. These records are stored at Defendant's plant in Lockland, Ohio.

Sales records, dating from September 1, 1972, are maintained by Celotex in Tampa, Florida.

Product information can be retrieved from such records; however, these records are indexed only by product code number, customer number, date or invoice number.

A group of invoices, from April, 1974 through August, 1974, are in chronological order only. There is no index or method of sales information retrieval from these records other than by a manual review of each document.

Records from September, 1974 to date can be retrieved by the Billing Department by searching each customer number on a monthly basis, and then having each invoice pulled manually to determine whether the sale was of asbestos-containing insulation products or general non-asbestos sales.

INTERROGATORY NO. 60

If your answer to No. 59 is affirmative, list the dates during which the product was sold.

ANSWER:

Refer to Response #59 above.

INTERROGATORY NO. 61

State the name of each and every witness, including experts, whom you intend to call to testify during the trial of this cause and indicate as to what they are expected to testify. If any of your expert witnesses whom you expect to testify at trial of this cause have furnished you with any sort of written reports, memoranda or any other written information, please identify such writings by attaching a true copy to your answers hereto.

ANSWER:

Defendant objects generally to plaintiff's interrogatory insofar as it requests this defendant to provide a general defense without the identification of a specific cause of action. Therefore, information will be provided to plaintiff's counsel prior to trial after a specific cause of action has been identified.

INTERROGATORY NO. 62

Name by date and source as to when your company, or its predecessor, first suspected there was a health hazard to human beings from exposure to, or breathing of, asbestos dust, fibers, or particles.

ANSWER:

The best information available to this Defendant indicates that its predecessors-in-business became aware of the existence of the disease of asbestosis sometime prior to 1960. However, it was not until the mid-1960's that this Defendant's predecessors-in-business became aware that the disease of asbestosis could occur in insulators and others who have used asbestos insulation products in previous decades. Earlier studies had indicated that asbestosis was principally a problem of workers in mines and manufacturing facilities, occurring in those who were continually exposed to high concentrations of 100% raw asbestos fiber. Furthermore, it was not until mid-1960's that this Defendant's predecessors-in-business became aware of the existence of any statistical connection between exposure to asbestos and the contraction of cancer.

INTERROGATORY NO. 63

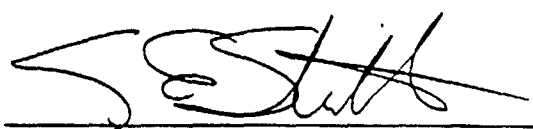
Please list and identify in detail each and every document, report, research study, survey, article or journal, both medical and technical, which this defendant will use, or anticipates using, at the time of trial.

ANSWER:

Defendant objects generally to plaintiff's interrogatory insofar as it requests this defendant to provide a general defense without the identification of a specific cause of action. Therefore, information will be provided to plaintiff's counsel prior to trial after a specific cause of action has been identified.

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FULBRIGHT & JAWORSKI

By: 

Samuel E. Stubbs
MBank Building
Houston, Texas 77002
(713) 651-5151

Attorney for Defendant
The Celotex Corporation

CERTIFICATE OF SERVICE

I hereby certify that a true copy of the above and foregoing instrument was served upon plaintiffs' attorneys by certified mail, return receipt requested, and defendants' attorneys by regular mail this 17th day of January, 1986.


Samuel E. Stubbs

The undersigned, D. S. Gibson, is Manager of Safety and Property Conservation of The Celotex Corporation. He has no personal knowledge of the facts set forth herein, since the present Celotex organization did not control the personnel and facilities involved at times relevant to this lawsuit, and further, such facts are the result of the investigation by attorneys on behalf of Celotex, and he affirms these Answers for purposes of taking necessary official action by The Celotex Corporation only.

THE CELOTEX CORPORATION

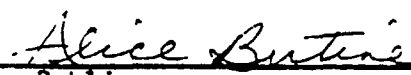


D. S. Gibson
Manager of Safety & Property
Conservation

STATE OF FLORIDA)
COUNTY OF HILLSBOROUGH)

Before me the undersigned, a Notary Public in and for the County aforesaid, this day appeared D. S. Gibson, who stated he is authorized to execute the foregoing Answers and Objections to Interrogatories on behalf of The Celotex Corporation, and that the matters stated in said Answers are true and correct to the best of his knowledge, information and belief.

SUBSCRIBED AND SWORN to before me, this 28th day of Oct, 198 5.



Notary Public
State of Florida
County of Hillsborough

My Commission expires:
Notary Public State of Florida at Large
My Commission Expires July 9, 1989.

<u>Name, Trade Name and Description</u>	<u>Date of Manufacture</u>	<u>Contents</u>
1 Carey Aircel Pipe	1906 to 1960	Asbestos corrugated paper, approximately 60% asbestos fiber, 25% organic fiber and starch, 15% sodium silicate
2 Carecel Pipe Covering & Block	1920's to 1960	Similar to Aircel
3 Carecel Pipe Covering	1925 to 1960	Same as Aircel, thicker
4 Defendex Pipe Covering	WW II	Corrugated sheets of asbestos paper, asbestos 60%, 25% organic felt, 15% sodium silicate
5 Carey Steel Pipe Covering & Block	1925 to 1960	Same as Aircel
6 Carey Carecel Covering & Block	1935 to 1960	Aircel with shiny exterior
7 Carey Lennelite	1935 to 1969 not distributed in United States	Similar to Aircel
8 Carey Multi-Fly Pipe Covering & Block	1930 to 1960	Same as Carey Asbestos Sponge
9 Carey Asbestos Sponge Pipe Covering & Block	1930 to 1960	Asbestos sponge 2% to 3% corrugated asbestos paper, same as Aircel
10 85% Magnesite Pipe Covering, Block & Cement	1906 to 1961	Basic magnesium carbonate and asbestos fiber (11% to 15%)
11 Carey Super Light 85% Magnesite Pipe Covering & Block	1951 to 1958	Same as 85% magnesite (different mold process)
12 Carey Alltemp Pipe Covering & Block	1954 to 1958	60% Expanded perlite, 20% magnesite plastic, 10% bentonite clay and asbestos fiber (12%)
13 Carey Tempneek Pipe Covering, Block & Cement	1942 to 1958	20% Magnesite plastic, 60% diatomaceous earth and 20% asbestos
14 Carey Hightemp #19 Pipe Covering, Block & Cement	1906 to 1958	80% Diatomaceous earth, 20% asbestos fiber

15	Carey Hightemp #15 Pipe Covering, Block, & Cement	1906 to 1952	60% diatomaceous earth, 20% magnesia plastic, 20% asbestos
16	Carey Hightemp #12 Pipe Covering, Block & Cement	1906 to 1940	60% Diatomaceous earth, 20% magnesia, 20% asbestos fiber
17	Careytemp	1958 to Sept., 1969	Expanded perlite, bentonite clay and asbestos fiber (6% to 7%)
18	Careytemp Adhesive	1961 to 1968	Silicate of soda, additives and asbestos fiber
19	Careytemp Premolded Elbow Insulation	1963 to Sept., 1969	Same as Careytemp
20	Careytemp Aluminum Jacketed and Traced Pipe Insulation	1964 to 1968	Careytemp with an aluminum jacket or stainless steel jacket
21	Careytemp 2000 Block & Cement	1964 to Feb., 1970	Diatomaceous earth and asbestos fiber, 6.4%
22	Dual Careytemp Pipe Covering	1964 to 1967	2% Bentonite clay, 12% starch, 5% starch 378, 19% phenolic resin, 10% asbestos fiber, and 62% perlit
23	Carey Calcium Silicate Pipe & Block Insulation	1950 to 1955 not manufactured by Philip Carey (believed manu- factured by Keene or Baldwin, Ehret & Hill) Brokered by Philip Carey	85% Calcium silicate, 15% asbestos
24	Carey 707 Cement	1906 to 1960	30% Asbestos fiber, 70% ground gypsum
25	Carey Super 606 Cement	1906 to 1960	20% Bentonite clay, 10% asbestos fiber, 10% kaolin clay & 60% mineral wool
26	Carey 100 Cement	1906 to 1967	60% asbestos fiber, bentonite clay and gypsum
27	Carey 303 Cement	1906 to 1960	55% Asbestos fiber, 35% ground gypsum, 10% kaolin clay

28	Carey MW-40	1950 to 1952	70% mineral wool, 10% asbestos fiber, & 20% bentonite clay
29	Carey MW-50 Cement	1940 to 1967 (continued to broker Keene's MW-50 Cement)	Mineral wool, 10% asbestos fiber (asbestos removed from Keene MW-50 cement between 1972 and 1973)
30	Carey LF-20 Asbestos Cement	Unknown to 1960	60% to 70% Asbestos fiber, balance bentonite clay and hardeners
31	Carey Vitricel Cement (#10 & #19)	1940 to 1969	15% Asbestos fiber and bonding material
32	Carey A-1 Cement	Unknown (supplied only to Gulf Oil)	100% Long asbestos fibers
33	Carey A-101 Cement	1906 to 1960	Asbestos fiber, ground gypsum and bentonite clay
34	Carey Thermo-board ---	1925 to 1969	Non-asbestos insulation board covered with asbestos cement
35	4.2 Carey Stone Corrugated Sheets	1925 to 1970	3/8" Corrugated sheet of Portland Cement & asbestos (22%)
36	Carey Industrial A-C Board	1925 to 1970	Portland Cement and 22% asbestos fiber
37	Carey-Flex Board	1925 to 1969	Portland Cement and 25% asbestos fiber
38	Carey Firefoil Board & Panel	1940 to 1960	Asbestos paper glued together with silicate (60% asbestos)
39	Vitricel Asbestos Sheets	1941 to 1960	60% Asbestos fiber saturated with sodium silicate and water-proofed
40	Carey Marine Panel	1941 to 1950	Aircel and asbestos cement (60% asbestos fiber)
41	Carey Panel Board	1941 to 1950	Corrugated asbestos felt (60% asbestos fiber)
42	Carey Stone Sheathing	1925 to 1969	22% Asbestos fiber & Portland cement

43	Asbestos Pa; & (Roll Board	1906 to Feb, 1982	35% Asbestos fiber, starch
44	Carey Corrugated Asbestos Paper	1906 to 1960	60% Asbestos fiber, 15% sodium silicate, & 25% organic fiber
45	#1- (Hard) Millboard	1906 to Feb., 1982	35% Portland Cement, 65% Asbestos
46	#7 (Med. Hard) Millboard	1906 to Feb., 1982	35% Portland Cement, 65% Asbestos
47	Commercial Millboard	1906 to Feb., 1982	5% Clay, 30% Portland Cement, 65% Asbestos
48	PPG Millboard	1906 to Feb., 1982	5% Clay, 10% Portland Cement, 85% Asbestos
49	Mosler Safe Millboard	1906 to Feb., 1982	23% Portland Cement, 77% Asbestos
50	Steel Mill Millboard	1906 to Feb., 1982	5% Clay, 15% Portland Cement, 80% Asbestos
51	#10 Millboard	1906 to 1971	3-5% Starch, 95-97% Asbestos
52	Type 13912 Millboard	1963 to 1973	75% Asbestos fiber, 6% bentonite clay & 19% portland cement
53	Float Glass, Blue, Millboard	1966 to 1973	93% Asbestos fiber, 2% starch & 5% bentonite clay
54	Carey Fireguard	1950 to 1976 (lastly under Celotex name)	85% Asbestos, 15% asphalt
55	Carey Fireclad	1965 to 1982	Similar to Fireguard, of lighter construction (65% asbestos, 35% asphalt)
56	Thermotex-3	1906 to present (currently under Celotex name)	14% Asbestos fiber, emulsified asphalt & mineral stabilizers
57	228 Fibrated Emulsion	1906 to unknown	Bentonite clay, emulsified asphalt & 3.6% asbestos fiber

58	Carey Insulation Seal	1930 to present (currently under Celotex name)	Asbestos fibrated bituminous mastic, 20% asbestos, asphalt cutback, naphtha & mineral spirits
59	Fire Resistant Insulation Seal	Unknown	Asbestos fibrated rubber & polychlorinated resinous bituminous mastic
60	Carey Fibrous Adhesive	1906 to present (currently under Celotex name)	85% Sodium silicate & 15% asbestos fiber
61	Carey BTU Cement	1930 to 1965	Asbestos (25% to 30%) fibrated bituminous mastic
62	Carey Asbestos Felts	1960 to present (currently under Celotex name)	85% Asbestos fiber
63	Carey 45 pound Asbestos Waterproof Jacket	1906 to present (currently under Celotex name)	85% Asbestos & asphalt
64	Carey Asbestos Tank Jackets	1906 to 1945	60% Asbestos fiber, 25% organic fiber & 15% sodium silicate
65	Carey Duct-Asbestos Insulated Duct	1940 to 1955	15% Asbestos & 85% sodium silicate
66	Carey Duct Adhesive	1940 to 1955	15% Asbestos fiber, 85% sodium silicate
67	Carey Thermalite	1906 to 1937	85% Asbestos & 15% sodium silicate
68	Carey Asbestos Rope & Wick	1925 to 1945	85% Asbestos fiber & 15% virgin cotton fiber

CORPORATE HISTORY
OF
THE PHILIP CAREY MANUFACTURING COMPANY

The Philip Carey Manufacturing Company was organized in Ohio in 1888 and remained an independent company until 1966, when Glen Alden Corporation (a wholly-owned subsidiary of Rapid-American Corporation) acquired control. In 1967, Glen Alden merged Philip Carey Manufacturing Company into itself, and immediately formed a new wholly-owned subsidiary named Philip Carey Manufacturing Company (new Carey). In 1968, The Philip Carey Manufacturing Company (new Carey) changed its name to Philip Carey Corporation (Ohio).

Philip Carey Corporation (Ohio) acquired the Smith & Kanzler Corporation (Smith & Kanzler), a wholly-owned subsidiary of Dana Corporation, by way of a Stock Agreement dated 2/18/69. Smith & Kanzler became a wholly-owned subsidiary of the Philip Carey Corporation (Ohio) and on 2/28/69 changed its name to the Philip Carey Corporation (New Jersey).

In April, 1970, Philip Carey Corporation (Ohio) was statutorially merged into Briggs Manufacturing Company, a Michigan corporation, and simultaneously, Briggs changed its name to Panacon Corporation. Certain assets of the Philip Carey Corporation (New Jersey) were sold to Asbestospray Corporation of New Jersey on January 7, 1972. Philip Carey Corporation (New Jersey) was dissolved in 1972.

On June 30, 1972, Panacon Corporation was merged into The Celotex Corporation, a Delaware corporation. This merger was also statutory, and The Celotex Corporation assumed the assets and ordinary liabilities of Panacon Corporation.

INDUSTRIAL INSULATIONS
DISTRIBUTOR/CONTRACTOR
MAILING LIST

A. C. & S.
501 Amsterdam, N. E.
Atlanta, GA 30306
Attn: W. K. Jones

A. C. & S.
2919 3rd Avenue N.
Birmingham, AL 35202

A. C. & S.
11 Keeler Ave.
Chicopee, MA 01020

A. C. & S.
25 East 76th Street
Cincinnati, OH 45216
Attn: R. R. McElhaney

A. C. & S.
7700 Wall Street Valley View
Cleveland, OH 44125

A. C. & S.
9620 Gerwig Lane
Guilford Industrial Center
Columbia, MD 21046

A. C. & S.
1515 Delashmut Ave.
Columbus, OH 43212
Attn: R. D. Collier

A. C. & S.
9140 Premier Row
Dallas, TX 75247

A. C. & S.
898 Providence Highway
Dedham, MA 02026
Attn: Warren A. Maggio

A. C. & S.
4801 E. 39th Ave.
Denver, CO 80207
Attn: G. H. Stewart

A. C. & S.
466 E. Manlius St.
E. Syracuse, NY 13057
Attn: L. E. Willits

A. C. & S.
P. O. Box 4316
Harrisburg, PA 17111

A. C. & S.
749 S. Grant Ave.
Indianapolis, IN 46203
Attn: W. L. Roberts

A. C. & S.
569 Nixon Street
Jacksonville, FL 32203
Attn: E. P. Avery

A. C. & S.
1809 Liberty
Kansas City, MO 64102
Attn: D. T. Norton

A. C. & S.
180 Church Street, P. O. Box "T"
King of Prussia, PA 19406
Attn: D. F. Andrew
T. E. Decker

A. C. & S.
1301 Laura Lane
Lake Bluff, IL 60044
Attn: J. L. Griggs

A. C. & S.
120 N. Lime St.
Lancaster, PA 17604
Attn: George C. Follmer
Doris Harlem
H. W. March

A. C. & S.
15 East 21st Street
Linden, NJ 07036
Attn: J. Acello

A. C. & S.
2316 Watterson Trail
Louisville, KY 40299
Attn: C. L. Wright

A. C. & S.
P. O. Box 25379
Menomonee Falls, WI 53225
Attn: E. F. Keane

A. C. & S.
611 Cowan Street
Nashville, TN 37207

A. C. & S.
468 Park Avenue, South
Rms. 1704-5
New York, NY 10016
Attn: S. Andersen
I. H. Greiff

A. C. & S.
21251 Meyers Road
Oak Park, MI 48237
Attn: J. Blair

A. C. & S.
4229 Lafayette
Omaha, NB 68131
Attn: Bill Gilmore (2)

~~A. C. & S.
612 W. Romana St.
P. O. Box 12692
Pensacola, FL 32574
Attn: Jo Anne Dinsmore~~

A. C. & S.
922 West Detweiller Drive
Peoria, IL 61614
Attn: T. J. Scherer

A. C. & S.
4485 Campbell's Run Road
Parkway West
Pittsburgh, PA 15205
Attn: J. A. Ockerman

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9601 Balmoral Avenue
Rosemont, IL 60018
Attn: L. B. McNabb

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6 Enterprise Dr.
Savannah, GA 31402
Attn: E. J. Valence

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6800 Odell St.
St. Louis, MO 63139
Attn: J. S. Taylor

A. C. & S.
5225 W. 75th St.
Shawnee Mission, KS 66208
Attn: C. W. Fowler

A. C. & S.
352 Morris Street
Toledo, OH 43602
Attn: R. J. Sine

A. C. & S.
223 E. Archer St.
Tulsa, OK 74103
Attn: B. W. Page

A. C. & S.
Quaker Lane Industrial Park
99 Telmore Road
Warwick, RI 02818
Attn: R. G. Stephenson

A. C. & S.
980 Silasdeane Highway
Wethersfield, CT 06109
Attn: R. H. Lee

A. C. & S.
721 Jordan Parkway
White Hall, PA 18052
Attn: F. L. Blanchard

A. C. & S.
3315 Capitol Trail
Wilmington, DE 19808
Attn: J. A. Lorelli

A. D. C. Contractor & Supply Corp.
209 Center Street
Bridgeport, CT 06604
Attn: Jim Noll

A & K Midwest Insulation Company
Highway 45 East
Metropolis, IL 62960
Attn: Jim Alexander

A & M Insulation Company
2614 Clybourn Avenue
Chicago, IL 60614
Attn: Phil Schneider
Jim Gibbons

A & M Insulation Company
1818 W. Chunute Rd.
Peoria, IL 61600
Attn: Dick Stevenson

A. P. I., Inc.
2366 Rose Place
St. Paul, MN 55113
Attn: Lee R. Anderson

Paul W. Abbot Company
708 Vandalia
St. Paul, MN 55114

The Aber Company, Inc.
P. O. Box 2683
Houston, TX 77001
Attn: D. G. Adair

Alexander Stafford Company
32 Grandville Avenue
Grand Rapids, MI 49502

Alfol, Inc.
9839 York Road
Charlotte, NC 28210
Attn: Steve Watson

Allied Insulation Supply
315 N. 12th Street
Milwaukee, WI 53233
Attn: Jack Flack

Allied Rubber & Gasket Co.
P. O. Box 518
Waverly, TN 37185
Attn: J. L. McCraskey

Allied Service, Inc.
P. O. Box 9132
Charleston, WVA 25309

All Temp Insulation, Inc.
1501 North C Street
Sacramento, CA
Attn: Ed Seifiert

American Asbestos Company
600 Alabama St.
San Francisco, CA 94110
Attn: Ray Colman

American Industrial Contractors
263 E. Beaver
Sewickley, PA 15145

Anco Insulations
P. O. Box 66596
Baton Rouge, LA 70806
Attn: T. L. Virgets (6)

Anco Insulation
100 Distribution Drive
Birmingham, AL 35209

Anco Insulations, Inc.
7762 Braniff St.
Houston, TX 77061
Attn: Don Gideon

Anco Insulations
102 North 20th Street
Tampa, FL 33605
Attn: Ed Swindel

Ed H. Anderson Company
P. O. Box 2759
St. Paul, MN 55112
Attn: Ed Anderson

Jay L. Angel
701 N. Wheeling St.
Toledo, OH 43605

Apex Insulation Company
432 Margaret St.
Box 40066
Jacksonville, FL 32203

Applied Mechanical Insulation, Inc.
P. O. Box 5362
Lenexa, Kansas 66215
Attn: David Hall

Arkansas Ind. Insulator
209 S. Redmon Road
Jacksonville, AR 72076

Arnold Insulation, Inc.
505 Harvester Ct.
Wheeling, IL 60090

Asbestos Insulating Co., Inc.
311 W. Marshall St.
Norristown, PA 19401
Attn: W. McClure

Aabestos Insulation and Rfg. Co.
312 South Harrison Avenue
Fort Wayne, IN 46801

Asbestos Insulation & Supply Co.
1132½ Stinson Blvd., N. E.
Minneapolis, MN 55413
Attn: John Carlson

Atlantic Gasket Corp.
3908-18 Frankford Avenue
Philadelphia, PA 19124

Atlas Insulations, Inc.
530 Bell Avenue
Carnegie, PA 15106

B & B Contracting & Supply Company
4831 Lakawana
Dallas, TX 75247

B & B Insulations
P. O. Box 2531
Houston, TX 77001
Attn: John Pyle

B & W Construction Company
Copley, OH 44321
Attn: Purchasing Department

B & W Company
4282 Strausser Street, N. W.
North Canton, OH 44730
Attn: J. F. Baumgartner

Jack Barsh Insul. Company
1935 E. Beaver
Jacksonville, FL 32201
Attn: Jack Barsh

Bartell Insulation Supply, Inc.
1330 Ballard Road
Appleton, WI 54911
Attn: Larry Fondow

E. J. Bartells Company
700 Powell Avenue SW
Renton, WA 98055
Attn: Dave Pollard

Batthey Machine Company
P. O. Box 33
Rome, GA 30161

Bay Insulations Company
P. O. Box 532
Green Bay, WI 54305
Attn: Arnold W. Schmidt

Guy M. Beaty Company
520 S. Elliot Street
Charlotte, NC 28201
Attn: Mr. Roy Beaty

Guy M. Beaty Company
1105 Carter St.
Chattanooga, TN 37401
Attn: Melvin Cooper

Guy M. Beaty Company
Box 3598
Greenville, SC 29608
Attn: Dick Crowe

Bigham Insulation & Sply Co.
P. O. Box 22146
Ft. Lauderdale, FL 33315
Attn: Dan Bigham

Bodwell-Lemmon Company
10701 Broadway
Cleveland, OH 44125
Attn: Steve Powell (3)

Boss Insulation Company
Pringle Street
N. Charleston, SC 29410
Attn: Mike Malone

Brand Insulations
40 Patton Road
E. Providence, RI 02916
Attn: Ray Krupa

Brand Insulations Company
216 Powhattan Avenue
Essington, PA 19029
Attn: T. G. Stewart

Brand Insulations
1420 Renaissance Drive
Park Ridge, IL 60068
Attn: H. N. Ferreira

Branton Insulations, Inc.
P. O. Box 5513
Fulton Road Station
Mobile, AL 36605
Attn: Howard Sheppard

Branton Insulation Company
P. O. Box 10536
New Orleans, LA 70181
Attn: Steve Miller

Breeding Insulation
P. O. Box 5207
Chattanooga, TN 37406

Breeding Insulation Co.
Box 1005
Little Rock, AR 72203
Attn: Curtis Breeding

Breeding Insulation Company
800 Ewing Avenue
Nashville, TN 35202
Attn: Jim McClure

Brennan Insulation
2541 Mitchell Avenue
Knoxville, TN 38917
Attn: Dave Gardner

Earl E. Bright, Inc.
970 Higgs Avenue
Columbus, OH 43205
Attn: J. R. Hunsinger

The Brower Company
818 S. Dakota Street
Seattle, WA
Attn: Ben Kingsman

Brown Insulation Company
16200 Hubbell
Detroit, MI 48235

Brown Refractory Company
3545 W. Morris Street
Indianapolis, IN 46241

Building Services Ind. Sales
620 N. 108th Place
Milwaukee, WI 53226
Attn: George Leisenring
Al Simmonsen

Building Sprinkler Company
P. O. Box 2864
Fargo, ND 58102
Attn: W. C. Sornsin

Burnett Process Inc.
Court Street Road
Syracuse, NY 13206

* * * * *

Calon Insulation Corp.
1130 Convery Blvd.
Perth Amboy, NJ 08861
Attn: C. Hnatt

Carolco
8509 May St.
Tampa, FL 33614
Attn: Sammy Ward

Candle-Hyatt Inc.
P. O. Box 127
Hopewell, VA 23860
Attn: O. E. Hyatt

Cardinal Industrial Insul. Co.
123 S. Eighth St.
Louisville, KY 40202

Cid Carpenter Marine Corp.
528 North Marine
Wilmington, CA 90744
Attn: Cid Carpenter

Central Insulation
2020 Wyandotte St.
Kansas City, MO 64108
Attn: Jack McInnes (2)

Champaign A & K Insulations
P. O. Box 522
Champaign, IL 61820

Chicago Asbestos Mfg. Co.
510 N. Dearborn Street - Rm 526
Chicago, IL 60610
Attn: Jay Golinkin

Chicago Pipe and Boiler Covering
800 Seton Court
Wheeling, IL 60090
Attn: William Briggs

Clark Asbestos Company
1893 East 55th St.
Cleveland, OH 44103

Claxton Asbestos Company
31 Coit Street
Buffalo, NY 14296

Cleland Company
1415 Park Avenue
Lynchburg, VA 24501
Attn: Mr. Cleland

Colombia Asbestos Inc.
723 N. Tillamook St.
Portland, OR 97227
Attn: Charles Stilson

Commercial Insul. Sply. Co.
8517 Directors Row
Dallas, TX 75247

Complete Insulation Service
90 Vermont St.
Dayton, OH 45404

Consolidated Western Contr. Inc.
14935 East Clarke Avenue
City of Industry, CA 91744
Attn: Dick Austin (2)

Covil Insulation
721 Roosevelt Avenue
Albany, GA 31701
Attn: Don Moore

Covil Insulations Company
One Ninth St.
Augusta, GA 30902

Covil Insulation Company
Box 6174
Greensboro, NC 27405
Attn: Gerald Greeson

Covil Insulation Company
P. O. Box 1804
Greenville, SC 29602
Attn: Sonny Garren

Covil Insulation
P. O. Box 265
Wilson, NC 27893
Attn: A. C. Hardison

Cox Insulation Service
2867 Stanton Avenue
Cincinnati, OH 45206

Crossroads Sales, Inc.
P. O. Box 26
Western Springs, IL 60558
Attn: William Smurdon

Cummings Insulation Co.
198 State Street
Meriden, CT 06450
Attn: Joe Pasquale

Daniel International
P. O. Box 161
Gonzalez, FL 32560
Attn: C. A. Adams

J. R. Deans Company
25 Ann Street
Charleston, SC 29403
Attn: James Rock

Decker Assoc. Inc.
P. O. Box 206
Orefield, PA 18069

Delaware Insulation Company
5th Avenue & Coleman St.
Wilmington, DE 19805
Attn: G. Stagliano

Dill Insulation Prod. Company
1002 Murphy Avenue
Joplin, MO 64801
Attn: G. Dill

E & S Insulation Company
7100 Medicine Lake Road
Minneapolis, MN 55427
Attn: Larry Sawatzke

Eagle Asbestos and Packaging
P. O. Box 51568
New Orleans, LA 70118
Attn: Bill Yetta

Eagle Company, Inc.
P. O. Box 81045
Lincoln, NB 68501
Attn: F. Blatt

Eastern Industrial Insulation Company
101-119 Pear Street
Reading, PA 19602
Attn: Donald Duffy

Eastern Refractories Co., Inc.
20 Flanders Road
Belmont, MA 02178
Attn: William Bragdon

Econotherm Insulation Company
P. O. Box 18247
Houston, TX 77023
Attn: Wayne McClelland

Ellington Insulation Company
2010 N. Kerr Avenue
Wilmington, NC 28401
Attn: Hoss Ellington

Empire Ace Insulation Mfg.
1 Cozine Ave.
Brooklyn, NY 11207

Gabler Insulation
1330 Tihoupitoulas Street
New Orleans, LA
Attn: Chas Gabler

Gastonia Pipe, Boiler & Duct
Insulation, Inc.
520 E. Davidson Avenue
Gastonia, NC 28052
Attn: Bill Dye

General Insulation Company
22 Cross Street East
Somerville, MA 02145
Attn: Ed Urquhart

General Insulation, Inc.
129 McKinley Street
East Peoria, IL 61611
Attn: Virgil Fawer

General Pipe Covering, Inc.
6801 W. Lake Street
St. Louis Park, Minnesota 55426
Attn: Sheldon Dingley

Goodwin Insulation
1083 E. Main St.
Torrington, CT 06790

J. Graves Insulation Company
P. O. Box 8830
Shreveport, LA 71108

Great Barrier Insulation Co.
Route 2
Decatur, AL 35601
Attn: Paul Kennard

Great Barrier Insulation Company
212 E. Garden Street
Pensacola, FL 32585
Attn: Jim Busby (10)

Hajoca Corporation
P. O. Box 351
Chattanooga, TN 37403

J. F. Harrison, Inc.
5050 North Port Washington Road
Milwaukee, WI 53217
Attn: J. F. Harrison

R. P. Hedley & Company
153 W. Main Street
Redonia, NY 14063
Attn: R. P. Hedley

Hefco, Inc.
Box 1747
Greenville, SC 29602
Attn: Dave Heafner

A. G. Heins
127 Heins Street
Knoxville, TN 37901
Attn: Ruth Love

Heller Enterprises, Inc.
4310 N. 3rd Street
Philadelphia, PA 19140
Attn: F. Heller

Hickory Insulation
1750 Thomas Avenue
St. Paul, MN 55104
Attn: Charles Wiley

Hinman Corporation
24 Cross Street
E. Somerville, MA 92144
Attn: Bill Hinman

Hippler Insulation Services
Box 1141
St. Cloud, MN 56301
Attn: Ray Hippler

Holt Insulations, Inc.
38th & Nona Street
N. Little Rock, AR 72118
Attn: Bill Holt, (2)

Hullinghorst Industries, Inc.
Rt 5, Leisure Road
Baton Rouge, LA 70817
Attn: J. E. Duvie

Illinois Indiana Insulations
P. O. Box 2127
Hammond, IN 46320
Attn: Don Schrader

Illinois Insulation & Const. Co.
3636 South Iron Street
Chicago, IL 60609
Attn: Howard Johnson
Bob Goodhardt

Industrial Assoc., Inc.
1510 Adams Street East
P. O. Box 3996, Station F
Jacksonville, FL 32206
Attn: R. A. Andrea

Industrial Insulations
2101 Kenmore
Buffalo, NY 14207
Attn: Ed Kemerer

Industrial Insulations, Co., Inc.
146 Cumberland
Memphis, TN 38105
Attn: Mr. Curley (2)

Industrial Insulations, Inc.
Germania & Main Streets
Bay City, MI 48706
Attn: Jim Graham

Industrial Insulation Corp.
1314 W. College Avenue
Appleton, WI 54911
Attn: William Bero, Jr.

Industrial Insulations, Inc.
3142 Bellaire
Kansas City, MO 64129

Insul, Inc.
169 James Avenue North
Minneapolis, MN 55405
Attn: Nels Gronquist

Insulating & Materials
1042 Central Industrial Drive
St. Louis, MO 63110
Attn: Elmer Mittler (3)

Insulating Contracting, Inc.
Conception Street
Mobile, AL 36601
Attn: Roy Coffey, Jr.

Insulation & A/C Supply
5332 W. Crenshaw
Box 15581
Tampa, FL 33814

Insulation Distributors
356 Hertel Avenue
Buffalo, NY 14240

Insulation Sales Company
3001 Grand Avenue
Neville Island, PA 15225
Attn: Bill Hager

Insulation Sales Service
P. O. Box 3474
Baton Rouge, LA 70821
Attn: Angelo Reno

Insulation Sales, Inc.
16200 Hubbell
Detroit, MI 48235

Insulation Services
P. O. Box 7726
Tulsa, OK 73105 (12)

Insulation Specialties
3113 Hillsborough Road
Durham, NC 27705

Insulco
P. O. Box 375
Lima, OH 45801

Insulco Supply & Mfg. Co.
519 East Marine View Avenue
Belmont, CA 94002
Attn: John Voorhees

Insulcon, Inc.
4333 Merriam Drive
Overland Park, Kansas 66203
Attn: Elton Burner

Iowa Asbestos
112 S. W. 2
Des Moines, IA 50309
Attn: B. Townsend (2)

Iowa Illinois Thermal Insulation
1304 West 4th Street
Davenport, IA 52804
Attn: Jim Groves

Iowa Illinois Thermal Insulation
P. O. Box 442
Waterloo, IA 50704
Attn: Russ Martin

J. W. R. Sales Company
P. O. Box 3375
Charleston, SC 29407

Janos Industrial Insulation Co.
80 Commercial Avenue
Moonachie, NJ 07084
Attn: T. J. Connolly

Johns-Manville Sales Corporation
P. O. Box 5730
Jacksonville, FL 32207
Attn: Ben Bryan

Johns-Manville Sales Corporation
P. O. Box 565
Madison Heights, MI 48071 (2)

Johns-Manville Sales Corp.
11525 Rock Island Court
Maryland Heights, Missouri 63043
Attn: J. A. Grimmer

Johns-Manville Sales
1222 Quebec
North Kansas City, MO 64116
Attn: C. Martin (2)

Johns-Manville Sales Corp.
P. O. Box 16989
Temple Terrace, FL 33687
Attn: Bob Zeigler

K - T Insulation, Inc.
1001 East MacArthur Street - #66
Wichita, Kansas 67216
Attn: Rock Kilgore

Kankakee Insulations
P. O. Box 1748
Kankakee, IL 60901
Attn: Mike Coleman

Kansas Insulation, Inc.
504 East Douglas
Wichita, KS 67202 (2)

Robert A. Keasbey Company
139-149 W. 19th Street
New York, NY 10011

Robert A. Keasbey Company
Commercial Building
Syracuse, NY 13211
Attn: Bert Kime

Korner Rfg. & Sheet Metal Co.
7860 E. Pleasant Valley Road
Independence, OH 44131

R. E. Kramig Company
323 South Wayne Avenue
Cincinnati, OH 45215
Attn: R. E. Kramig
R. Staubitz

Paul J. Krez Company
Westmoreland Building
Old Orchard Road
Skokie, IL 60076
Attn: Phil Albracht
Paul Helmer

LK Material Services
4433 E. Park Drive
Bay City, MI 48706
Attn: Paul Lurer

L & L Insulation & Supply Co.
107 3rd Street
Des Moines, IA 50309
Attn: L. L. Thompson

L & S Insulation Company
616 S. 89th Street
Milwaukee, WI 53214
Attn: Elmer Borchardt

Lance Construction Supplies
4225 West Ogden Avenue
Chicago, IL 60623
Attn: J. Lance

Land Coast Insulation Company
P. O. Box 52823
Lafayette, LA 70501
Attn: Ed Morton

Louisville Insulation & Sply.
4601 Indian Trail
Louisville, KY 40213

Ludeman Insulation
203 N. Handley
Box 888
Wichita, KS 67201
Attn: J. Pfister (4)

Luse Stevenson Company
4934 West Fifth Avenue
Gary, Indiana 46406
Attn: Gary Geovanelli

Luse Stevenson Company
2050 North 15th Avenue
Melrose Park, IL 60160
Attn: Dee Luse

MBM, Inc.
231 North Weber Avenue
Sioux Falls, South Dakota 57102
Attn: Ed Scott

M & L Industrial Insulation, Inc.
Highway 2 and 52 East
Minot, North Dakota 58701
Attn: Darrel Larson

MacArthur Company
3201 Brighton Blvd.
Denver, CO 82016
Attn: Bob Stockhouse (3)

MacArthur Company
936 Raymond Avenue
St. Paul, MN 55114
Attn: Len Krumrie

MacArthur Company
1416 "B" Avenue
Sioux Falls, SD 57104
Attn: Jim Nelson

Maroco, Inc.
P. O. Box 3756
Port Arthur, TX 77640
Attn: Mark Coleman

Mattew Balich Corporation
37-08 34th Street
Long Island City, NY 11101
Attn: F. Brady

T. G. MacCracken, Inc.
1818 Bible Road
Lima, OH 45802
Attn: D. Bowers

McCarty Corporation
P. O. Box 53277
Baton Rouge, LA 70805
Attn: Larry Simon

McDowell Insulation Co.
9204 Collins Ave.
Pennsauken, NJ 08110

Joe McGill Company, Inc.
P. O. Box 1600
Wichita, KS 67202

The McCormick Asbestos Company
3620 Woodland Avenue
Baltimore, MD 21215
Attn: J. Shunk

Mechanical Insulation Company
P. O. Box 623
Bloomington, IL 61701

Mechanical Insulation Co.
P. O. Box 423
Kewanee, IL 61443
Attn: T. E. Sleeper

Mechanical Insulation Services
Box 4568
Florence, SC 29501
Attn: Larry Crawford

Mechanical Insul. Services, Inc.
6409 Ambassador Drive
Tampa, FL 33651
Attn: K. C. Buchanan

Metalclad Insulation Corp.
2911 East Harcourt St.
Compton, CA 90221
Attn: Bob Dodge

Metalclad Kircher
2114 W. Fillmore St.
Phoenix, AZ 85009
Attn: Gene Samson

Midcontinent Supply Co.
P. O. Box 189
Ft. Worth, TX 76101
Attn: Mel Hogan

Middletown Development & Sply. Co.
P. O. Box 369
Middletown, OH 45042

Midwest Insulation Services, Inc.
1016 Douglas St.
Omaha, NB 68102
Attn: Al Wotherspoon (2)

Midwest Materials Company
P. O. Box 5
Joplin, MO 64801

Midwest Materials Company
M.P.O. Box 845
Springfield, Missouri 65801
Attn: Bill Mauldin

Monroe Rubber & Gasket Company
317 Walnut St.
Monroe, LA 72101

Joe Moore & Son
P. O. Box 6531
Raleigh, NC 27608
Attn: Joe Moore

Moore Insulation Company
7505 W. 80th St.
Overland Park, KS 66204

John J. Moroney & Company
6817 Minnesota Drive
Bedford Park, IL 60501
Attn: Jack Calmeyn
Bill Humprey

Mundet Company
14401 Prairie Street
Detroit, MI 48238

Nashville Rubber & Gasket Company
600-4th Avenue, South
Nashville, TN 73211
Attn: Steve Maddox

Nelson Roanoke Corporation
P. O. Box 2827
Roanoke, VA 24012
Attn: H. R. Davis

New England Insulation Company
155 Will Drive
Canton, MA 02021
Attn: Don Kautman

New Haven Supply Company
2000 Bullhead Road
New Haven, OH 44850

Niagara Insulations, Inc.
79 Perry Street
Buffalo, NY 14203
Attn: R. C. Braun

North Bros. Company
P. O. Box 252
Atlanta, GA 30301

North Bros. Company
Ruffner Road
Birmingham, AL 35210

North Bros. Company
P. O. Box 6786
Birmingham, AL 35210

North Bros. Company
79 Reid Street
Charleston, SC 29403
Attn: L. C. Koon

North Bros. Company
Box 3338
Columbia, SC 29203
Attn: William Hope

North Bros., Inc.
901 S. W. 21st Terrace
Ft. Lauderdale, FL 33312
Attn: Buddy Hammond

North Bros., Inc.
2221 Pearl St.
Jacksonville, FL 32202
Attn: Jim Valentine

North Bros.
5800 Middlebrook
Knoxville, TN 37901
Attn: Jim Rogers

North Bros. Company
Box 8443, 995 N. Hollywood
Memphis, TN 38108
Attn: Tony Hope (5)

North Bros., Inc.
P. O. Box 7817
Orlando, FL 32804
Attn: Monty Wells

North Bros. Company
Box 26146
Raleigh, NC 27611
Attn: Billy Jackson

North Bros., Inc.
P. O. Box 5296
Tampa, FL 33605
Attn: DeForest Whitcomb

Northwestern Insulation Company, Inc.
P. O. Box 521
Ballevue Road
Green Bay, WI 54305
Attn: Norman Vance

Ohio ET, Inc.
950 Main St.
Columbus, OH 53205

O'Malley Bros. Inc.
3925-W. Oakton St.
Skokie, IL 60076

Ohio Valley Insulating Co.
823 Adams Avenue
Huntington, WV 25704

Owens Corning
7000 McLarin Road
Fairburn, GA 30213

Owens Corning
434 Ingeraham Bldg.
25 S. E. 2nd Avenue
Miami, FL 33131

Owens Corning Fiberglas
592 W. Swedesford Road
Berwyn, PA 19312
Attn: R. Adams

* * * * *

Pacific Insulation
5716 N. E. Hassolo Street
Portland, OR 97213
Attn: John Bruniengo

Palco Insulation & Sales
221 Oak Street
Quincy, IL 52301
Attn: Mark LeGrand

Pamrod, Inc.
P. O. Box 335
McQueeny, TX 78123

Penns Valley Insulation
15 Mt. Pleasant Dr.
Rolling Hills Ind. Park
Aston, PA 19014

Petrin Insulation Co.
P. O. Box 1215
Thibodaux, LA 70301

Piedmont Insulation
P. O. Box 784
Salisbury, NC 28144
Attn: Darrell English

Pipe Shields, Inc.
151 N. Autumn
San Jose, CA 95110

Plant Insulation Company
1300 64th Street
Emeryville, CA 94662
Attn: Ray Scott

Plateau Supply
2401 E. 40th
Denver, CO 80204
Attn: E. Holiman

Porter-Hayden Company
32 South Street
Baltimore, MD 21202
Attn: Bob Schwenson

Porter-Hayden Company
P. O. Box S
Charlotte, NC 28203

Porter-Hayden Company
Box 476
Edison, NJ 08817
Attn: O. Richards

Porter-Hayden Company
Box 10142
Norfolk, VA 25513
Attn: J. A. Apple

Porter-Hayden Company
P. O. Box 2116
Ashland, VA 23005
Attn: R. L. Huggins

Power Insulation Co.
2335 Nevada Avenue N.
Minneapolis, MN 55427

Precision Insulation Company
7792 Braniff Road
Houston, TX 77017
Attn: Chas Lancaster

Presnell Insulation
501 Alando Avenue
Charlotte, NC 28206
Attn: Jack Presnell

Price Contracting Company
2536 Northline Industrial Drive
Maryland Heights, Missouri 63043
Attn: B. S. Price

Pro Con Inc.
30 U.O.P. Plaza
Algonquin & Mt. Prospect Roads
Des Plaines, IL 60016
Attn: Bud Krause

* * * * *

Ratican Insulation Company
6324 Bartmer Avenue
St. Louis, MO 63130
Attn: Walter Ratican

Rite-Way Insulation Ltd.
1011 Lunt Avenue
Schamburg, IL 60193

Roughrider Supply, Inc.
5 N. 23rd St.
P. O. Box 1222
Fargo, ND 58102
Attn: Arlin Foss

F. P. Rutherford Insulation Co.
5701 Manchester Avenue
St. Louis, Missouri 63110
Attn: Frank Rutherford

* * * * *

Sabine Industries
P. O. Box 15377
Houston, TX 77020
Attn: Herb Hillberg

Sabine Industries
P. O. Drawer 1
Orange, TX 77630
Attn: T. Bowers

Sadler Ind. Services, Inc.
P. O. Drawer 1
Clute, TX 77531

Sandel Corp.
P. O. Box 23
Westerville, OH 43081

Service Products, Inc.
57 North Westwood Avenue
Toledo, OH 43607

Shook & Fletcher Insulation Co.
P. O. Box 2957
Birmingham, AL 35212

Shook & Fletcher
112 W. 13th St.
Chattanooga, TN 37402
Attn: Penny Bloomer

Shook & Fletcher
3315 Sexton Road, S. E.
Decatur, AL 35601

Shook & Fletcher Insulation Co.
P. O. Box 7337
Western Dr. Meadow Warehouse
Mobile, AL 36607
Attn: Grace Thompson

Shook & Fletcher Marine Division
308 Krebs Avenue
P. O. Box 1363
Pascagoula, MS 39567

George L. Simonds Company
P. O. Drawer 32
Winter Haven, FL 33880
Attn: Roy Eggleston

Smith & Cassidy, Inc.
182 Donnelly Road
Box 749
Brandon, FL 33511
Attn: E. Smith

Smith-Sharpe Company
117-27th Avenue S. E.
Minneapolis, MN 55414
Attn: Lyman Moore

South Insulation Co.
433 Sadler St.
Montgomery, AL 36109
Attn: T. W. Woodard

Southwestern Insulation & Materials
1912 N. Weller
Springfield, MO 65803
Attn: C. Flood (3)

Sprinkman Sons Corporation
12100 West Silver Spring Road
Milwaukee, WI 53225
Attn: John Locher
Bud Luken

Sprinkman Sons Corporation
1010 S. Washington Street
Peoria, IL 61602
Attn: Skip Carlton

Stafford Insulation Co.
Box 9337
Charleston, SC 29410
Attn: Joe Byron

Standard Asbestos Mfg. Company
P. O. Box 1105
Borger, TX 79007
Attn: Harvey Jones (4)

Standard Asbestos Mfg. Company
401 N. Olive St.
Kansas City, MO 64120 (4)

Starr Davis Company
Box 584
Charlotte, NC 28201
Attn: Jim Fisher

Starr Davis Company
P. O. Box 19145
Greensboro, NC 27410
Attn: Dick Looman

State Insulation
525 Johnstone St.
Perth Amboy, NJ 08861

Stonaber, Inc.
2508 Fairway Park Drive
Houston, TX 77018
Attn: D. J. Brown

The Stovey Company
2360 59th Street
St. Louis, MO 63110
Attn: Walter Sidney

Styrothane, Inc.
P. O. Drawer GG
Freeport, TX 77541
Attn: Bill McCoy

Superior Sterling Company
P. O. Box 1599
Bluefield, WV 24701
Attn: William Poston

Syracuse Insulation Dist. Inc.
P. O. Box 338
Liverpool, NY 13088

Taylor Insulation Company
1609 2nd Avenue
Moline, IL 61265
Attn: Jon Nelson

Thermal Acoustics
81 Farwell Avenue
W. Haven, CT 06516
Attn: Ken Ford

Thermal Products
3020 Mascot St.
Wichita, KS 67201

Thermo Tech Inc.
P. O. Box 22209
Houston, TX 77027
Attn: Wesley Smith

Thiessen Insulation Co.
P. O. Box 437
E. Moline, IL 61244
Attn: C. Edward Thiessen

P. S. Thorsen Company
45 L Street
S. Boston, MA 02127

C. E. Thurston & Sons
700 Dinwiddie Avenue
Richmond, VA

C. E. Thurston & Sons
P. O. Box 2411
Norfolk, VA 23501
Attn: P. B. Robbins

C. E. Thurston & Sons
Box 1481
Roanoke, VA 24007
Attn: Jack Owens

Three I Supply Company
P. O. Box 1884
Midland, MI 48640
Attn: D. Simpson

Topeka Insulation & Supply
2515 N. Topeka
Topeka, KS 66601

Triangle Insulation Company
R. R. 7 & Box 86
Paducah, KY 42001

Triple B. Corp.
P. O. Box 96119
Houston, TX 77015

United Insulation Co.
817 N. Lewis Place
Tulsa, OK 74110

United Refractories
5597 Commercial Blvd.
Winter Haven, FL 33880

Universal Insulation Engineering Corp.
2416 North 81st St.
Milwaukee, WI 53213
Attn: Francis Biebel

Universal Mfg. & Supply Co.
P. O. Box 751
Aiken, SC 29801

Valley Insulation
2601 S. Kings Avenue
Box 1031
Brandon, FL 33511
Attn: V. Redford (2)

Vaughn Insulation Co.
2815 North 22nd Street
East Omaha, NB 68110
Attn: Charles Vaughn

The W J Company
P. O. Box 142
1901 E. 4th St.
Sioux City, IA 51102
Attn: Don Wilber

Waco Insulation, Inc.
P. O. Box 24347
Richmond, VA 23224
Attn: E. G. Nippes

Waco Insulation of Tidewater, Inc.
23rd Street & Huntington Ave.
Newport News, VA 23607
Attn: W. McIntyre

Walker Jamar Co.
365 S. 1st Avenue East
Duluth, MN 55802
Attn: Walker Jamar

Wallace & Gale Company
2832 Maisel Street
Baltimore, MD 21230
Attn: B. Peltzer

Wayne Oakland Building Supplies
Div. Oakland Wholesale Inc.
25018 Plymouth Road
Detroit, MI 48239

Webco Insulating Co.
56 E. Chase St.
Pensacola, FL 32502
Attn: Dan Bragg

Wentz Insulation Company
2949 Cornhusker Highway
P. O. Box 30205
Lincoln, NB 68503
Attn: Stan Wentz

West Metal Works, Inc.
201 Dulton Avenue
Buffalo, NY 14211

Western State Insulation Company
P. O. Box 5332
Roanoke, VA 24102

Wilmington Supply
1275 Alameda Street
Wilmington, CA 90744
Attn: Roy Peterson

E. O. Wood Company
712 N. Beach
Ft. Worth, TX 76111

Worcester Industrial Insulations
42 Granite Street
Worcester, MA 01604

R. H. Wyatt Insulation Company
115 N. La Salle St.
Durham, NC 27705

Young Insulation Company
P. O. Box 9187
Melrose Branch
Nashville, TN 37204
Attn: Bob Dean

Young Sales Corporation
195 Washington Avenue
Memphis, TN 38103
Attn: Mr. Joiner (3)

Young Sales Corporation
1054 Central Industrial Drive
St. Louis, MO 63110
Attn: J. S. Royer

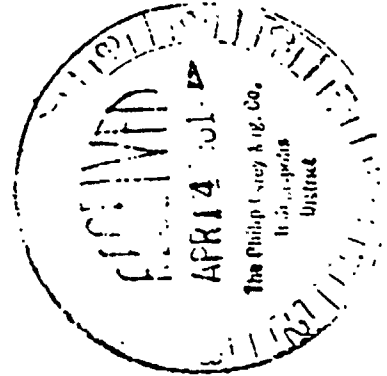
Careytemp
STATE OF INDIANA

Address Reply to:

Indiana State Board of Health
1330 West Michigan Street
Indianapolis, Indiana



State Board of Health
April 13, 1961



Mr. F. P. Ray
Indianapolis Contract Manager
Philip Carey Manufacturing Company
1432 Kentucky Avenue
Indianapolis, Indiana

Dear Mr. Ray:

At the request of Mr. R. J. Scott, Business Representative of Local 18 of the International Association of Heat and Frost Insulators and Asbestos Workers, a visit was made with you to the Indianapolis Power and Light Company's Harding Street plant by Mr. John Kehoe, Chemical Engineer, on March 10, 1961, to evaluate dust conditions associated with the installation of Careytemp insulation. The employees installing this insulation had experienced irritation to the eyes, nose and throat and were concerned about the potential health hazards associated with the exposures to dust from this material.

Observations during this visit indicated dust exposures were not great enough to constitute a health hazard. It was noted that hand saws were being used to cut the insulation. The irritation is probably due to the fiberglass in the insulation and can be minimized by instituting the usual precautionary measures employed when handling other fiberglass insulations. Since power driven saws would evolve greater dust concentrations than hand saws, they should be equipped with local exhaust ventilation to control the dust problem should they be used to cut the insulation. Under present operating conditions it is concluded that no serious dust exposures are associated with the installation of Careytemp insulation.

EXHIBIT "D"

Mr. F. P. Ray
Indianapolis, Indiana

-2-

April 13, 1961

Thank you for your cooperation during this visit. If we may be of service to you in the future, please feel free to contact us.

Yours very truly,

A handwritten signature in cursive script that reads "Albert Edwards".

Albert Edwards,
Industrial Hygiene Engineer

AE:cm

JAMES O. PIERCE, SC.D.
KETTERING LABORATORY
EDEN AND BETHESDA AVENUE
CINCINNATI, OHIO 45218

January 2, 1968

Mr. Arthur P. Mueller
Research Division
Philip Carey Manufacturing Company
320 South Wayne Avenue
Cincinnati, Ohio 45215

Dear Mr. Mueller:

We have completed our analyses of samples of air taken during fabrication of Carey Temp insulation at the Union Carbide Plant in Charleston, West Virginia. I do not know if you wish to have a formal report, complete with recommendations, etc., for methods of control of dust. Unless I hear otherwise, I will assume that this letter will suffice.

I do not feel it necessary to describe to you the conditions under which these samples were taken, since you were present during the entire operation. All of the impinger samples were breathing zone samples collected directly below the face of the operator. These samples are representative of an individual's exposure to the dust produced at the operation in question.

The impinger samples numbered 1 through 3 were collected during one "run," whereas numbers 4 through 6 were taken during the second cutting operation. The electrostatic precipitator samples were located near the saw table and could not be as representative of breathing zone samples as are the impinger samples. In addition, a high volume air sampler was used to collect dust from the air during the total period of time we were there. This sample naturally includes some down-time.

The samples were analyzed by standard procedures. A sample of dust collected with the high volume air sampler was prepared for examination by X-ray diffraction to determine the per cent of crystalline free silica and asbestos in the airborne dust. The X-ray diffraction pattern failed to indicate the presence of crystalline material in the dust. The probable limit of detection by X-ray diffraction for asbestos or quartz in untreated samples is approximately 5 per cent for each material.

EXHIBIT "E"

Mr. Arthur P. Mueller
Philip Carey Manufacturing Company
January 2, 1967, continued

-2-

Microscopic examination of the samples of dust indicated the presence of some fibers, but it was not always possible to differentiate between glass fibers or asbestos fibers. As you are aware, the threshold limit value for asbestos is 5 million particles per cubic foot of air and for inert or nuisance particulates this value is raised to 50 mppcf or 15 mg/m³, whichever is the smaller (source: Threshold Limit Values for 1967, ACGIH). Since asbestos is known to be an ingredient of the parent material, my personal recommendation would be to use the lower value even though the analysis indicated that the dust contained less than 5 per cent asbestos.

The results of the sampling are given in the attached table. If additional information is required, please do not hesitate to let me know. Also enclosed is a statement of charges involved, including charges for analyses incurred by the Kettering Laboratory. Please make the check payable directly to me personally for the full amount and I will reimburse the Laboratory.

Sincerely yours,



J. O. Pierce, Sc.D.
Assistant Professor of
Environmental Health

JOP:egm

Enclosures

RESULTS OF SURVEY
AT THE UNION CARBIDE PLANT, CHARLESTON, WEST VIRGINIA
DURING FABRICATION OF PHILIP CAREY (CAREY TEMPE) INSULATION BOARD

DESCRIPTION AND LOCATION OF SAMPLER	MILLIONS OF PARTICLES PER CUBIC FOOT OF AIR Mppcf	MILLIGRAMS OF PARTICULA PER CUBIC METER OF AIR Mg/M ³
#1-Impinger- located at breathing zone of Mr. D. E. Raines, operator at saw #1 during unload- ing and cutting of insu- lation board	16.4	-
#2-Impinger- same as #1 except attached to other operator, Mr. W. L. Alford	15.9	-
#3-Impinger- located at breathing zone of Mr. J. Jordan, operator at saw #2 during 1st phase of sawing	19.5	-
#4-Impinger- located at breathing zone of Mr. W. L. Alford, operator at saw #2 during second phase of sawing operation	19.9	-
#5-Impinger- located at breathing zone of Mr. J. Jordan, operator at saw #2 during second phase of sawing operation	23.8	-
#6-Impinger- same as #5 except attached to other operator, Mr. H. Witt	27.3	-
#7-Electrostatic Precipi- tator Sampler- located appr. 5" above plate of saw #1 during first unloading and cutting cycle	8.65	64.3

DESCRIPTION AND LOCATION OF SAMPLER	MILLIONS OF PARTICLES PER CUBIC FOOT OF AIR Mppcf	MILLIGRAMS OF PARTICULATE PER CUBIC METER OF AIR Mg/M ³
#8-Electrostatic Precipitator- located at same location as #7 during clean-up operation between runs	5.5	29.1
#9-Electrostatic Precipitator- located at saw #2, left side, appr. 8-10" above plate of saw during second phase of cutting operation	3.0	21.1
#10-High Volume Air Sampler using fluted filter- located at the right side, appr. 4' from saw #1 during entire operations	-	37.3*

* X-Ray Diffraction indicates no detectable crystalline material present in this sample

Industrial Insulation Products by Celotex

1978

Celotemp® 1500

High Temperature Pipe and Block Insulation

CELOTEMP 1500 is a molded rigid high temperature insulation, made of expanded perlite, with millions of individual vitrified air cells bonded together by special binders and reinforcing fibers. This patented process combines the chemical and moisture resistance properties so important to industrial users.

CELOTEMP 1500 is a superior, lightweight high temperature pipe and block insulation recommended for use in power generating and process industries on indoor and outdoor pipes, vessels and equipment operating continuous or cyclical at temperatures to 1500°F.

CELOTEMP 1500 possesses these properties which make it a unique insulating material:

- Will not appreciably lower the auto ignition temperature of ethylene oxide-air mixtures.
- Can withstand face temperatures up to 1500°F., and maintain linear shrinkage of less than 2%.
- Non wicking—will not absorb large quantities of water—absorbs less than 7% as much water (by weight) as calcium silicate high temperature insulation.
- Helps to protect insulated equipment from external fires.
- Contains no lime; and thus will not contribute to the corrosion of aluminum.
- Contains less than 150 ppm chloride, does not contribute to stress corrosion of austenitic stainless steel.
- Weighs approximately 20% less than most calcium silicate high temperature insulations.

All of these properties make CELOTEMP 1500 well suited to a variety of applications in process piping, refractory use and in chemical plants, refineries and power generating installations.

CELOTEMP PREMOLDED ELBOW INSULATION

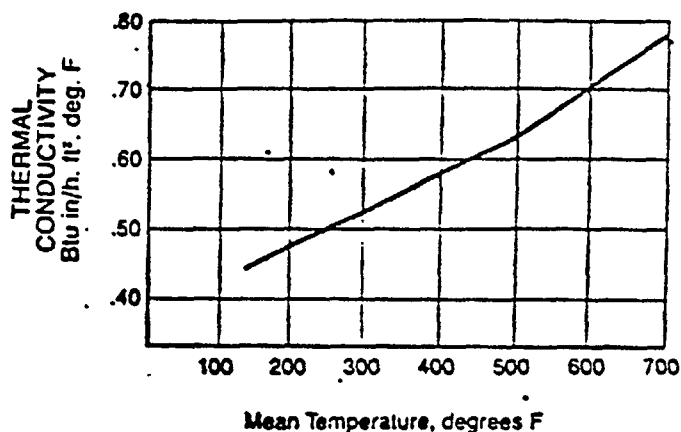
To insure total insulation throughout the system, the use of CELOTEMP premolded elbows is recommended. Premolded elbows help to eliminate voids and mitering segments, which helps reduce installation time and cost.

CELOTEMP elbows are available in many iron pipe and copper tubing sizes in thicknesses to match adjacent insulation. Iron pipe sizes range from ½" to 20" and thicknesses from 1" to 4". Elbow fittings are also available for steam tracing purposes.



Physical Properties

Temperature limits	Maximum 1500°F
	Continuous 1500°F
	Cyclic 1500°F
Density (dry)	10-13 lbs./cu. ft.
Compressive strength	5% deformation 90 psi.
Linear shrinkage (percent)	
1200°F. for 24 hours	.60
1500°F. for 24 hours	1.60
Water absorption (percent)	
By volume @ 90% relative humidity 4 weeks	1.30
By volume, immersed 24 hours	2.7
Acid resistance (after 24 hours immersion)	
25% sulfuric or hydrochloric acid	No effect



A.S.T.M. Specification C-610-67

*All tests conducted according to standard ASTM test methods.

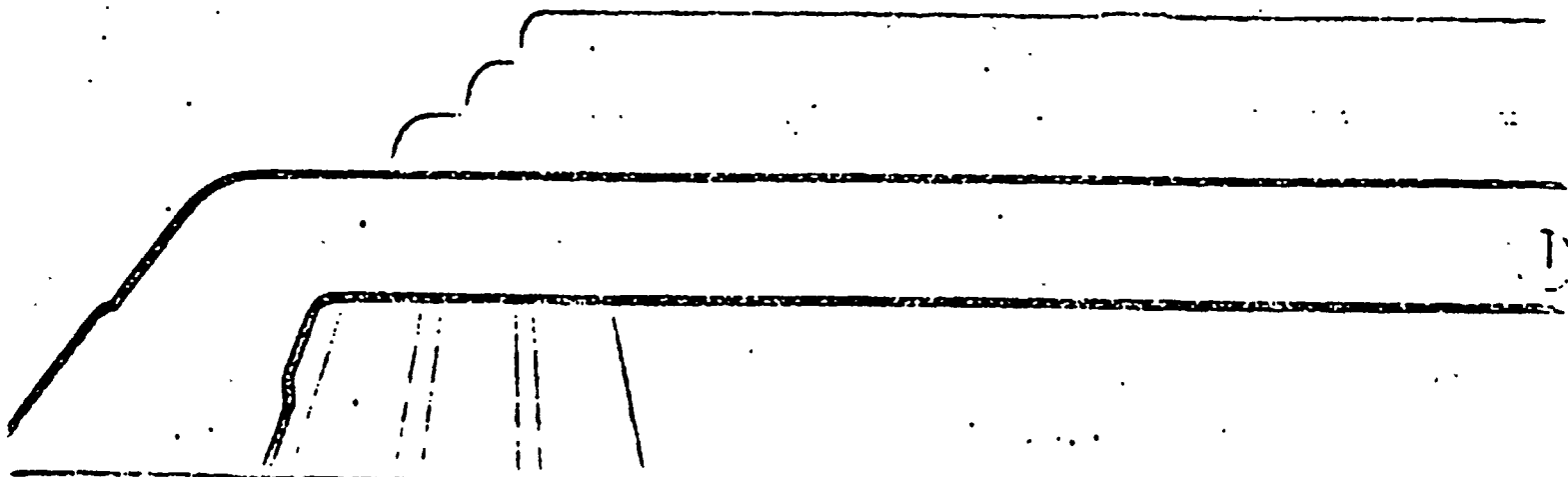
Standard Sizes

Pipe insulation—½" through 24" IPS, half sections
 Thickness—1" through 3", single layer
 Segmental—12" wide curved sections through 60" O.D.
 Block insulation:
 Widths—6", 12", and 24"
 Length—36"
 Thickness—1½" through 4", in ½" increments.

Mineral Fiber Insulation

IMF products are composed of high temperature mineral fiber bonded together with specially formulated binders.

IMF-1900 Block provides a temperature limit of 1900°F. The product is available in thicknesses ranging from 1" to 4" in ½" increments; width: 6", 12" and 24"; length: 18" and 36".



IMF-1200 Block is recommended for use at 200°F. This non-hygroscopic product is produced in 12" x 36" and 24" x 36" sizes in 1", 1½" and 2" thicknesses.

IMF-1400 Blanket is bonded together with a very low content of binder producing a flexible resilient insulation for use over practically any surface at temperatures up to 1400°F. Standard sizes:

Thickness: 1" to 4" in ½" increments with single layer construction. Faced styles can be supplied with multiple layer construction to achieve greater thickness.

Width: 24"

Length: 48" and 96"

IMF-1050 Board is available in 6, 8 or 10 lb. density for use on heated equipment operated at temperatures up to 1050°F. Available in 24" x 48" sizes with thicknesses from 1" to 4" in ½" increments.

Cements and Adhesives

MW-One Insulating and Finishing Cement Asbestos-Free

MW-One is a combination insulating and finishing cement for temperatures up to 1000°F. Celotex mineral wool pellets and other ingredients, including rust inhibitor, are combined to form this monolithic, all-purpose, fast-setting finish cement that insulates as well as protects.

MW-One is used for valves, fittings, tanks, ovens, hot air ducts. It can be applied directly over any insulation or it can be used as a finishing cement for MW-50. Furnished in multi-wall 50-lb. paper bags. Thermal conductivity: At 200°F.—.86.

MW-50 Insulating Cement Asbestos-Free

MW-50 Cement is a complete insulating material in itself. Special MW-50 nodular mineral fibers are combined with bonding materials and a rust inhibitor to produce a mixture with excellent physical and thermal properties.

MW-50 Cement is an excellent monolithic insulation for valves, fittings, expansion joints, heaters, exchangers, access doors, water tube boiler walls, tanks, stills, drumheads and other heated equipment operating at temperatures up to 1800°F. It is particularly recommended for irregular surfaces. Furnished in multi-wall 50-lb. paper bags. Thermal conductivity: At 200°F.—.54.

Fibrous Adhesive (Bonding)†

Fibrous Adhesive is a fibrous plastic cement of thin troweling or brushing consistency composed of asbestos fibers, silicate of soda and filler materials. It is designed for laying up insulat-

ing blocks and making joints. It makes a very strong heat-proof bond that is unaffected by temperatures up to 800°F. Furnished in 1-gal. cans, 5-gal. pails and 54-gal. drums.

Protective Coatings

Thermotex-B†

Thermotex-B is a breathing-type weather-resistant coating for temperatures up to 200°F. It is a combination of asbestos fibers, emulsified asphalt and mineral stabilizers. Forms a cold plastic water-resistant coating which is applied by trowel.

Thermotex-B is especially suited for oil and chemical plant use because it resists acid and alkaline conditions and can be installed over insulation that is not completely dry. After application over moist insulation, Thermotex-B allows the trapped water vapor to escape while remaining impervious to surface water. Furnished in 5 gal. pails and 52 gal. drums.

Insulation Seal†

Insulation Seal is a ready mixed asbestos fibrated bituminous mastic. It is especially compounded for cold application over most types of insulating materials. It protects the insulation against damage and loss of efficiency by the penetration of water and water vapor.

Insulation Seal will hold its bond on horizontal, vertical, sloped or inverted surfaces. It is specially recommended for systems operating at temperatures below dew point, dual temperature systems (200°F. maximum surface temperature), and systems subject to long shut-down periods. Furnished in 1-gal. cans, 5-gal. pails, 54-gal. drums.

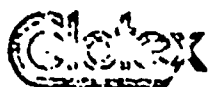
Insulation Jacketing

Fireclad Jacketing†

Fireclad Jacketing is a durable, weather-resistant jacketing specifically designed for the protection of outdoor pipe lines where the danger of fire must be minimized. Celotex Fireclad consists of a tough, substantial sheet of asphalt-saturated asbestos felt, over which is cemented on one side an unsaturated asbestos sheet. The complete sheet is reinforced with a fabric of tough, flexible glass threads. Fireclad Jacketing will not drip asphalt in the presence of fire and is highly resistant to combustion. Furnished in approximately 50-lb. rolls 36" wide by 36' long, containing 108 sq. ft.

†WARNING

This product contains asbestos fiber. The Occupational Safety and Health Administration (OSHA), an agency of the United States Government, believes that repeated inhalation of asbestos fiber is a health hazard and may cause various diseases including cancer and asbestosis.

The Celotex logo, featuring the word "Celotex" in a stylized, bold, sans-serif font. The letters are slightly irregular, giving it a hand-drawn or stamped appearance. The logo is positioned in the lower center of the page, above a large, dark, irregular shape that resembles a cross-section of a pipe or a piece of insulation.

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 ARLAND, MISSISSIPPI 39201
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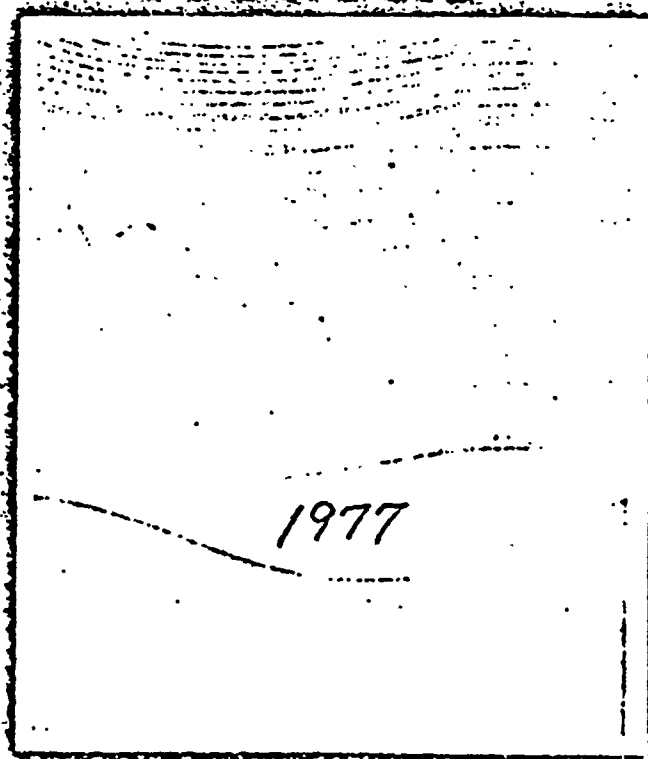
CloTex

INTERIOR DESIGN
 CLOTEX, Inc. is a leader in the
 design and construction of
 the new, modern interior
 design industry.

a new  style interior

C

Celotex
Industrial
Paper
and Felt
Products



Commercial Asbestos* Paper and Rollboard

DESCRIPTION: Asbestos Paper and Rollboard are composed of Canadian asbestos fiber combined with a small quantity of extremely strong binding material. A specially-equipped paper-making machine turns the stirred components into rolls. The material is thoroughly dried and, finally, calendered to a smooth finish. Asbestos Paper and Rollboard are strong, flexible, fire-resistant products suitable for varied applications throughout industry.

Asbestos Paper and Rollboard are of one type and vary only in thickness and width of rolls.

Asbestos Paper Tape is available in 2" and 3" wide rolls — each 84 feet long. The Tape is made from standard 12-lb. stock.

APPLICATIONS: Asbestos Paper and Rollboard are satisfactory for a great variety of purposes. The 6 and 8-lb. papers may be used in the manufacture of various insulations. The 10 and 12-lb. papers have been used for wrapping hot air furnace pipes.

SIZES: Asbestos Paper and Rollboard are furnished in standard widths of 18", 24", 36" and 37½". Special sizes can be made to order. Standard weights and thicknesses of sheets are:

TYPICAL CHARACTERISTICS COMMERCIAL ASBESTOS ROLLBOARD

	3/32"	1/8"
Weight, Pounds	48-52	57-67
Thickness, Inches, Nominal	.094	.123
Tensile Strength, Dry Pounds Per Inch Width, Grade Minimum	35	35
Mullen Strength,** Lbs. per inch	32	32
Moisture, Per Cent, Maximum	3	5

TYPICAL CHARACTERISTICS COMMERCIAL ASBESTOS PAPER

	6 lb.	8 lb.	10 lb.	12 lb.	14 lb.	16 lb.	1/16"***
Weight, pounds per 100 sq. ft.	5.5-6.5	7.5-8.5	9.3-10.7	11-12.6	13-15	15-17	30-34
Thickness, Inches Nom.	.015	.018	.022	.025	.028	.032	.060-.064
Tensile Strength, Dry Pounds, in Width Grade Min.	14	14	14	15	16	16	20
Mullen Strength,** Pounds in.	10	11	12	12	14	14	20
Moisture, Per Cent	3	3	3	3	3	3	3

** are typical Tests are not performed on routine basis.

† This material may also be called 1/16" Rollboard

Asbestos Insulating* Paper Specialties

CORRUGATED ASBESTOS PAPER

DESCRIPTION: Corrugated Asbestos Paper consists of a sheet of asbestos paper, which has been corrugated, firmly cemented to a flat backing sheet of like material. The two sheets are joined by a suitable adhesive.

Corrugated Asbestos Paper is a very light and flexible form of insulation, adaptable for wrapping around curved surfaces.

SIZES: Corrugated Asbestos Paper is furnished in coarse corrugations (¼" thick per ply) in 36" to 37" wide rolls. It can be ordered in 250 sq. ft. or 500 sq. ft. rolls.

APPLICATIONS: Corrugated Asbestos Paper can be used wherever a light and flexible, yet efficient, insulating material is required.

CAREYFOIL

DESCRIPTION: Careyfoil is made from ¼" Corrugated Asbestos Paper with a layer of aluminum foil adhered to the flat side only. This method of construction adds materially to its insulation value.

Underwriters Classified: Material available upon request.

SIZES: Careyfoil is furnished in 36" and 37" wide rolls, each containing 250 sq. ft. of material.

APPLICATIONS: Careyfoil is used in the construction of furnaces for residential and commercial use.

FOIL-FACED ASBESTOS PAPER

DESCRIPTION: Foil-Faced Asbestos Paper consists of Commercial Asbestos Paper with aluminum foil adhered to one or both sides. One side foil paper is furnished in roll form, two side material is usually provided in sheets.

SIZES: Foil-Faced Asbestos Paper is furnished in 36" or 37" wide rolls. It can be ordered in 500 or 1,000 sq. ft. rolls.

APPLICATIONS: Foil-Faced Asbestos Paper is used as insulation and a lighting reflector for lighting fixtures, as insulation for moderate temperature applications. It is also an insulator for pipes and ducts.

UNDERWRITERS LABORATORIES INC.* CLASSIFIED SHEATHING MATERIAL FIRE HAZARD CLASSIFICATION

Flame Spread	10
Fuel Contributed	0
Smoke Developed	0

SEE UL CLASSIFIED BUILDING MATERIALS INDEX

Asbestos* Millboard

DESCRIPTION: Asbestos Millboard is made from Canadian asbestos fibre pulp mixed with binding materials and formed in sheets. Commercial Millboard is produced in two grades, No. 1 Hard and No. 7 Medium. No. 1 Grade withstands temperatures up to 1000°F, and No. 7 Grade withstands temperatures up to 800°F. These two grades satisfy the vast majority of requirements. Special grades can be developed by Celotex laboratories. Asbestos Millboard with pin-point (knurled) finish can also be supplied.

SIZES: Asbestos Millboard is furnished in 42" x 48" sheets in the following thicknesses:

TYPICAL CHARACTERISTICS COMMERCIAL ASBESTOS MILLBOARD

Thickness (Inches)	Pounds*** Per Sheet	Ounces*** Per Sq. Ft.
1/16	3.9	4.5
5/64	4.9	5.6
3/32	5.9	6.7
1/8	7.9	9.0
5/32	9.4	10.7
3/16	11.8	13.5
1/4	15.8	18.1
5/16	19.7	22.5
3/8	23.6	27.0
1/2	31.5	36.0
5/8 †††	37.6	43.0
3/4 †††	45.2	51.7
1 †††	60.2	68.8

***Typical weights.

†††Available in laminated form on a special order basis only.

APPLICATIONS: Asbestos Millboard is used extensively in the electric heating field and glass industries.

Characteristics, properties, or performance of materials or systems herein described are based on data obtained under controlled test conditions. Celotex makes no warranties, expressed or implied, as to their characteristics, properties, or performance under any variations from such conditions in actual construction. The Celotex Corporation assumes no responsibility for the effects of structural movement.

*WARNING

These products contain asbestos fiber. The Occupational Safety and Health Administration (OSHA), an agency of the United States Government, believes that repeated inhalation of asbestos fiber is a health hazard and may cause various diseases including cancer asbestosis.

Specialty Asbestos* and Organic Papers

DESCRIPTION: Celotex produces a number of Specialty Asbestos and Organic Papers for a broad range of applications in varied industries. Briefly these materials include:

Asbestos Resin Saturating Paper — A phenolic resin saturating type paper designed to be impregnated in thermosetting resin. Saturated material is usually wrapped or rolled, then heated to cure the resin and form a hard, heat-resistant component.

Asbestos Asphalt Saturating Paper — Designed for use as a base for roofing and dampproofing membrane by saturating with roofing grades of asphalt and tar pitch.

Asbestos Paper, Inorganic Type — A material with low organic fiber content to reduce smoke and odor emission.

Asbestos Laminating Paper — This product contains natural fiber for additional strength. It is specially formulated for use with galvanized steel pipe.

Asbestos Muffler Paper — This asbestos paper is indented, or waffled, to provide greater overall caliper and flexibility. It is used widely in the automotive industry.

Filter Felt — Used as a filtering medium in automotive lubricating oil filters.

Flooring Felt — Saturated with high quality asphalt and painted one side with a primer, this product is used by the flooring manufacturers as a base layer for enamel print floor covering.

Celotex Asbestos Gasket Materials — Celotex manufactures gasket papers that are especially formulated to meet customer specifications. Typically these materials are made of asbestos fibers uniformly coated with synthetic rubber latices selected for specific requirements, they are resilient, non-corrosive, fungus resistant and dimensionally stable.

FOR ADDITIONAL INFORMATION
CONTACT YOUR NEAREST
CELOTEX REGIONAL OFFICE.

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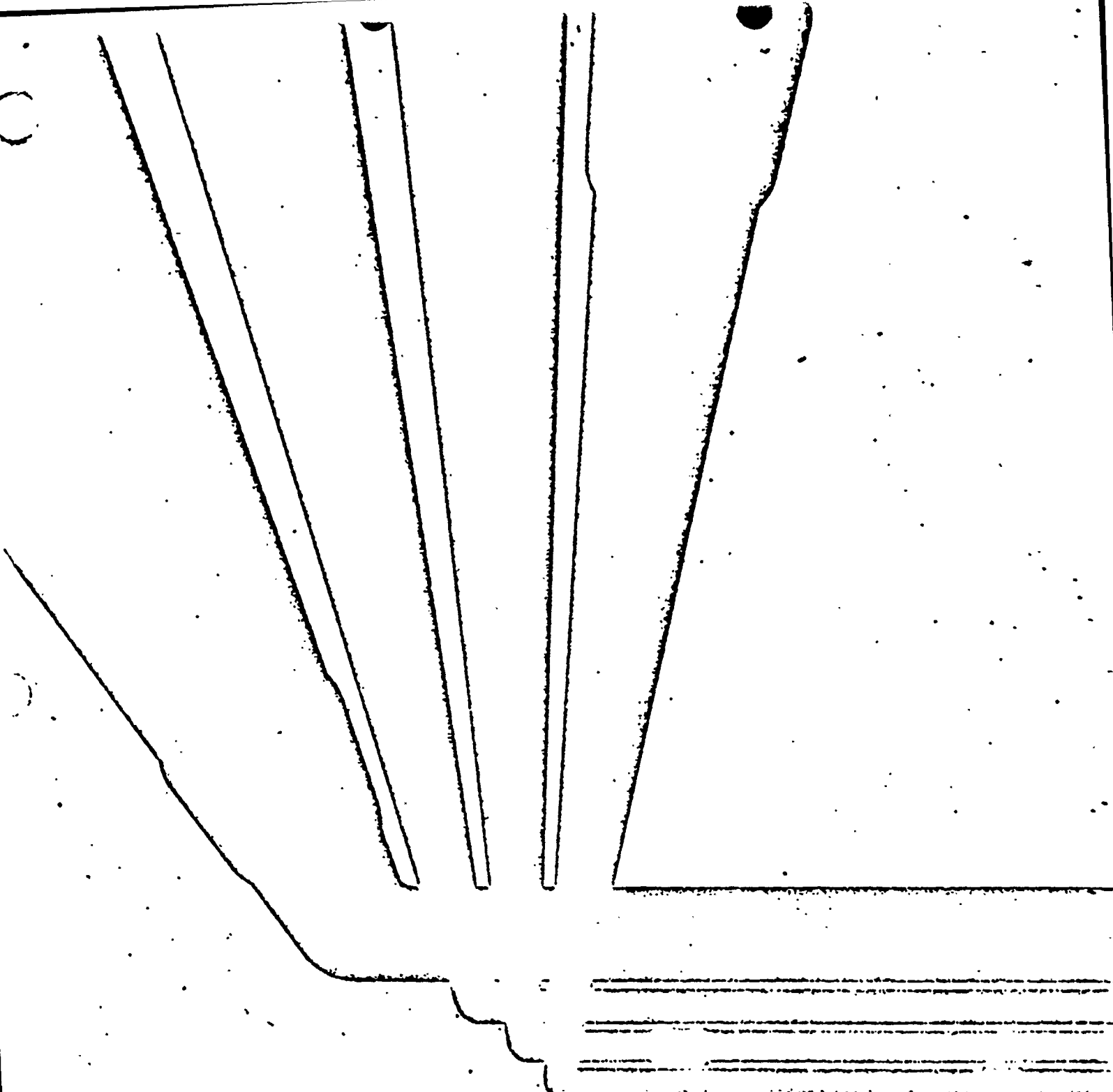


THE LIVING CORPORATION
FALLS, TEXAS 75742

a JACOBI COMPANY

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1400 BROADWAY
ATLANTA, GEORGIA 30333
TELEPHONE 404-525-1000



Celotemp®
1500 Insulation
by Celotex

CELOTEMP® 1500

Asbestos Free High Temperature Pipe and Block Insulation

CELOTEMP 1500 insulation is the latest development in industrial insulations from Celotex. It combines the chemical and moisture resistance properties so important to industrial users, with impact resistance superior to any of its predecessors, to provide an ideal insulation for high temperature piping and equipment.

CELOTEMP 1500 insulation contains no asbestos, so problems with OSHA regulations regarding the use of asbestos are eliminated. CELOTEMP 1500 insulation is made of expanded perlite, with millions of individual vitrified air cells bonded together by special binders and reinforcing which resist moisture penetration and increase impact resistance. The increased resistance to crumbling and reduced breakage facilitates installation and yields a longer lasting job.

CELOTEMP 1500 possesses these properties which make it a unique insulating material:

- *Will not appreciably lower the auto ignition temperature of ethylene oxide-air mixtures.

- *Can withstand face temperatures up to 1500°F., and maintain linear shrinkage of less than 2%.

- *Non wicking — will not absorb large quantities of flammable liquids — absorbs less than 7% as much water (by weight) as calcium silicate high temperature insulation. Helps to protect insulated equipment from external fires.

- *Contains no lime, and thus will not contribute to the corrosion of aluminum jacketing.

- *Contains less than 150 ppm chloride, does not contribute to corrosion of austenitic stainless steel.

- *Weighs approximately 20% less than most calcium silicate high temperature insulations.

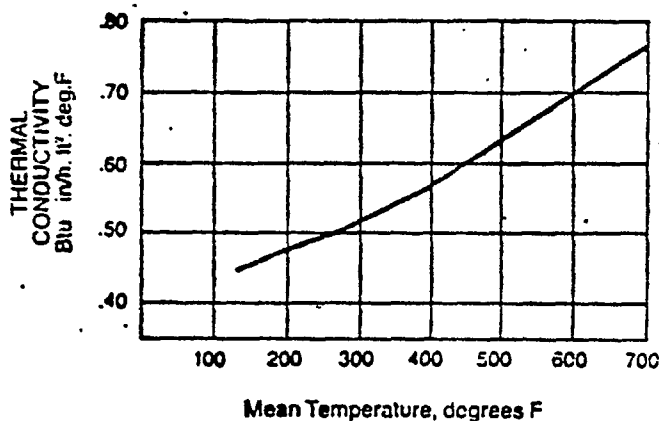
All of these properties make CELOTEMP 1500 well suited to a variety of applications in process piping, refractory use and in chemical plants, refineries and power generating installations.

CELOTEMP PREMOLDED ELBOW INSULATION

To insure total insulation throughout the system, the use of CELOTEMP premolded elbows is recommended. Premolded elbows help to eliminate voids and mitering segments; which helps reduce installation time and cost.

Physical Properties*

Temperature limits	Maximum 1500°F
	Continuous 1500 F
	Cyclic 1500 F
Density (dry)	10-13 lbs/cu. ft.
Compressive strength	.5% deformation 90 psi.
Linear shrinkage (percent)	
1200°F. for 24 hours	.70
1500°F. for 24 hours	1.60
Water absorption (percent)	
By volume in 90% relative humidity 4 weeks	1.30
By volume, immersed 24 hours	2.7
Acid resistance (after 24 hours immersion)	
25% sulfuric or hydrochloric acid	No effect



A.S.T.M. SpecificationC-610-67

*All tests conducted according to standard ASTM test methods.

CELOTEMP elbows are available in many iron pipe and copper tubing sizes in thicknesses to match adjacent insulation. Iron pipe sizes range from 1/2" to 20" and thicknesses from 1" to 4". Elbow fittings are also available for steam tracing purposes.



Standard Sizes

Copper tubing — 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 3" O.D. half sections

Iron pipe — 1/4" through 24" IPS, half sections

Thickness — 1" through 3 1/2", single layer

Segmental — 12" wide curved sections through 60" O.D.

Block insulation:

Standard widths — 6", 12", and 24"

Standard length — 36"

Standard thickness — 1 1/2" through 5", in 1/2" increments.



Asbestos-Free MW-One Insulating Cement

MW-One is a combination insulating and finishing cement for temperatures up to 1000° F. Celotex mineral wool pellets and other ingredients, including rust inhibitor, are combined to form this monolithic, all-purpose, fast-setting finish cement that insulates as well as protects.

MW-One is used for valves, fittings, tanks, ovens, hot air ducts. It can be applied directly over any insulation or it can be used as a finishing cement for MW-50. Furnished in multi-wall 50-lb. paper bags. Thermal conductivity: At 200° F. — .86.

Asbestos-Free MW-50 Insulating Cement

MW-50 Cement is a complete insulating material in itself. Special MW-50 nodular mineral fibers are combined with bonding materials and a rust inhibitor to produce a mixture with excellent physical and thermal properties.

MW-50 Cement is an excellent monolithic insulation for valves, fittings, expansion joints, heaters, exchangers, access doors, water tube boiler walls, tanks, stills, drumheads and other heated equipment operating at temperatures up to 1800° F. It is particularly recommended for irregular surfaces. Furnished in multi-wall 50-lb. paper bags. Thermal conductivity: At 200° F. — .54

Fibrous Adhesive (Bonding)†

Fibrous Adhesive is a fibrous plastic cement of thin troweling or brushing consistency composed of asbestos fibers, silicate of soda and filler materials. It is designed for laying up insulating blocks and making fittings. It makes a very strong heat-proof bond that is unaffected by temperatures up to 800° F. Furnished in 1-gal. cans, 5-gal pails and 54-gal. drums.

Thermotex-B†

Thermotex-B is a breathing-type weather-resistant coating for temperatures up to 200° F. It is a combination of asbestos

Insulation Seal†

Insulation Seal is a ready mixed asbestos fibrated bituminous mastic. It is especially compounded for cold application over most types of insulating materials. It protects the insulation against damage and loss of efficiency by the penetration of water and water vapor. Made in spray or trowel consistency.

Insulation Seal can be used on pipes, curved and flat surfaces of all kinds. It will hold its bond on horizontal, vertical, sloped or inverted surfaces. Designed for application over insulation such as asbestos cement, rock wool base cements, cellular glass, fiberglass, mineral wool blankets. It is specially recommended for systems operating at temperatures below dew point, dual temperature systems (200° F. maximum surface temperature), and systems subject to long shut-down periods. Furnished in 1-gal. cans, 5-gal. pails, 54-gal. drums.

No. 51 Emulsion

No. 51 Emulsion is composed of asphalt, water and bentonite clay, with troweling consistency. May be used as a prime and bond coat for insulation and cold storage vault and other low temperature insulated construction, as well as for temperatures up to 200° F.

Mixes well with asbestos fiber and sand to make "on-the-job" finished coats. Furnished in 5-gal. pails and 54-gal. drums.

Fireclad Jacketing†

Fireclad Jacketing†

Fireclad Jacketing is a durable, weather-resistant jacketing specifically designed for the protection of outdoor pipe lines where the danger of fire must be minimized. Celotex Fireclad consists of a tough, substantial sheet of asphalt-saturated asbestos felt, over which is cemented on one side an unsaturated asbestos sheet. The complete sheet is reinforced with a fabric of tough, flexible glass threads. Fireclad Jacketing

fibers, emulsified asphalt and mineral stabilizers. Forms a cold plastic water-resistant coating which is applied by trowel.

Thermotex-B is recommended as a durable coating for insulation on hot equipment ducts, vessels, breechings, tanks, towers, heat exchangers and fittings that are subjected to weather conditions. It is especially suited for oil and chemical plant use because it resists acid and alkaline conditions and can be installed over insulation that is not completely dry. After application over moist insulation, Thermotex-B allows the trapped water vapor to escape while remaining impervious to surface water. Furnished in 5 gal. pails and 52 gal. drums.

will not drip asphalt in the presence of fire and is highly resistant to combustion. Furnished in approximately 50 lb. rolls 36" wide by 36' long, containing 103 sq. ft.

†WARNING

This product contains asbestos fiber. The Occupational Safety and Health Administration (OSHA), an agency of the United States Government, believes that repeated inhalation of asbestos fiber is a health hazard and may cause various diseases including cancer and asbestosis.

Characteristics, properties, or performance of materials or systems herein described are based on data obtained under controlled test conditions. Celotex makes no warranties, expressed or implied, as to their characteristics, properties, or performance under any variations from such conditions in actual construction. The Celotex Corporation assumes no responsibility for the effects of structural movement.



INDUSTRIAL PRODUCTS

Industrial Sales Department (813) 871-4575

**THE CELOTEX CORPORATION
TAMPA, FLORIDA 33622**

a Jim Walter company

CELOTEMP 1500

Asbestos Free High Temperature Pipe and Block Insulation

1977

CELOTEMP 1500 is a molded rigid high temperature insulation, made of expanded perite, with millions of individual vitrified air cells bonded together by special binders and reinforcing fibers. This patented process combines the chemical and moisture resistance properties so important to industrial users.

CELOTEMP 1500 is a superior, lightweight high temperature pipe and block insulation recommended for use in power generating and process industries on indoor and outdoor pipes, vessels and equipment operating continuous or cyclical at temperatures to 1500°F.

CELOTEMP 1500 possesses these properties which make it a unique insulating material:

- *Will not appreciably lower the auto ignition temperature of ethylene oxide-air mixtures.
- *Can withstand face temperatures up to 1500°F, and maintain linear shrinkage of less than 2%.
- *Non wicking — will not absorb large quantities of water — absorbs less than 7% as much water (by weight) as calcium silicate high temperature insulation.
- *Helps to protect insulated equipment from external fires.
- *Contains no lime, and thus will not contribute to the corrosion of aluminum.
- *Contains less than 150 ppm chloride, does not contribute to stress corrosion of austenitic stainless steel.
- *Weighs approximately 20% less than most calcium silicate high temperature insulations.

All of these properties make CELOTEMP 1500 well suited to a variety of applications in process piping, refractory use and in chemical plants, refineries and power generating installations.

CELOTEMP PREMOLDED ELBOW INSULATION

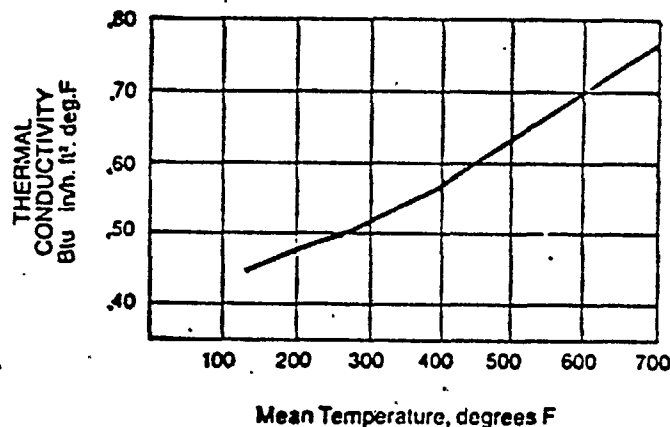
To insure total insulation throughout the system, the use of CELOTEMP premolded elbows is recommended. Premolded elbows help to eliminate voids and mitering segments, which helps reduce installation time and cost.

CELOTEMP elbows are available in many iron pipe and copper tubing sizes in thicknesses to match adjacent insulation. Iron pipe sizes range from ½" to 20" and thicknesses from 1" to 4". Elbow fittings are also available for steam tracing purposes.



Physical Properties*

Temperature limits	Maximum 1500°F
	Continuous 1500°F
	Cyclic 1500°F
Density (dry)	10-13 lbs./cu. ft.
Compressive strength	5% deformation 90 psi.
Linear shrinkage (percent)	
1200°F for 24 hours	.60
1500°F for 24 hours	1.60
Water absorption (percent)	
By volume @ 90% relative humidity 4 weeks	1.30
By volume, immersed 24 hours	2.7
Acid resistance (after 24 hours immersion)	
25% sulfuric or hydrochloric acid	No effect



A.S.T.M. SpecificationC-610-67

*All tests conducted according to standard ASTM test methods.

Standard Sizes

Pipe insulation — ½" through 24" IPS, half sections
 Thickness — 1" through 3" single layer
 Segmental — 12½" wide curved sections through 60" O.D.
 Block insulation:
 Widths — 6", 12", and 24"
 Length — 36"
 Thickness — 1½" through 4", in ½" increments.

Cements and Adhesives

MW-One Insulating and Finishing Cement Asbestos-Free

MW-One is a combination insulating and finishing cement for temperatures up to 1000°F. Celotex mineral wool pellets and other ingredients, including rust inhibitor, are combined to form this monolithic, all-purpose, fast-setting finish cement that insulates as well as protects.

MW-One is used for valves, fittings, tanks, ovens, hot air ducts. It can be applied directly over any insulation or it can be used as a finishing cement for MW-50. Furnished in multi-wall 50-lb. paper bags. Thermal conductivity: At 200°F. — .86.

MW-50 Insulating Cement Asbestos-Free

MW-50 Cement is a complete insulating material in itself. Special MW-50 nodular mineral fibers are combined with bonding materials and a rust inhibitor to produce a mixture with excellent physical and thermal properties.

MW-50 Cement is an excellent monolithic insulation for valves, fittings, expansion joints, heaters, exchangers, access doors, water tube boiler walls, tanks, stills, drumheads and other heated equipment operating at temperatures up to 1800°F. It is particularly recommended for irregular surfaces. Furnished in multi-wall 50-lb. paper bags. Thermal conductivity: At 200°F. — .54

Fibrous Adhesive (Bonding)†

Fibrous Adhesive is a fibrous plastic cement of thin troweling or brushing consistency composed of asbestos fibers, silicate of soda and filler materials. It is designed for laying up insulating blocks and making fittings. It makes a very strong heat-proof bond that is unaffected by temperatures up to 800°F. Furnished in 1-gal. cans, 5-gal pails and 54-gal. drums.

Protective Coatings

Thermotex-B†

Thermotex-B is a breathing-type weather-resistant coating for temperatures up to 200°F. It is a combination of asbestos fibers, emulsified asphalt and mineral stabilizers. Forms a cold plastic water-resistant coating which is applied by trowel.

Thermotex-B is recommended as a durable coating for insulation on hot equipment, ducts, vessels, breechings, tanks, towers, heat exchangers and fittings that are subjected to weather conditions. It is especially suited for oil and chemical plant use because it resists acid and alkaline conditions and can be installed over insulation that is not completely dry. After application over moist insulation, Thermotex-B allows the trapped water vapor to escape while remaining impervious to surface water. Furnished in 5 gal. pails and 52 gal. drums.

Insulation Seal†

Insulation Seal is a ready mixed asbestos fibrated bituminous mastic. It is especially compounded for cold application over most types of insulating materials. It protects the insulation against damage and loss of efficiency by the penetration of water and water vapor.

Insulation Seal can be used on pipes, curved and flat surfaces of all kinds. It will hold its bond on horizontal, vertical, sloped or inverted surfaces. Designed for application over insulation such as insulating cements, cellular glass, fiberglass, mineral wool blankets. It is specially recommended for systems operating at temperatures below dew point, dual temperature systems (200°F. maximum surface temperature), and systems subject to long shut-down periods. Furnished in 1-gal. cans, 5-gal. pails, 54-gal. drums.

Mineral Fiber Boards, Blocks and Blankets

IMF Board, Blocks and Blanket insulation are composed of high temperature mineral fibers bonded together with specially-formulated binders. These products offer a variety of insulating uses especially for direct application or refractory back-up insulation in petroleum and process units, power generation equipment, ovens, furnaces, kilns, boilers or related equipment. These IMF products can be used applications with temperature limits from 1050°F. to 1900°F. depending on the type of IMF product specified.

Insulation Jacketing

Fireclad Jacketing†

Fireclad Jacketing is a durable, weather-resistant jacketing specifically designed for the protection of outdoor pipe lines where the danger of fire must be minimized. Celotex Fireclad consists of a tough, substantial sheet of asphalt-saturated asbestos felt, over which is cemented on one side an unsaturated asbestos sheet. The complete sheet is reinforced with a fabric of tough, flexible glass threads. Fireclad Jacketing will not drip asphalt in the presence of fire and is highly resistant to combustion. Furnished in approximately 50 lb. rolls 36" wide by 36' long, containing 108 sq. ft.

†WARNING

This product contains asbestos fiber. The Occupational Safety and Health Administration (OSHA), an agency of the United States Government, believes that repeated inhalation of asbestos fiber is a health hazard and may cause various diseases including cancer and asbestosis.

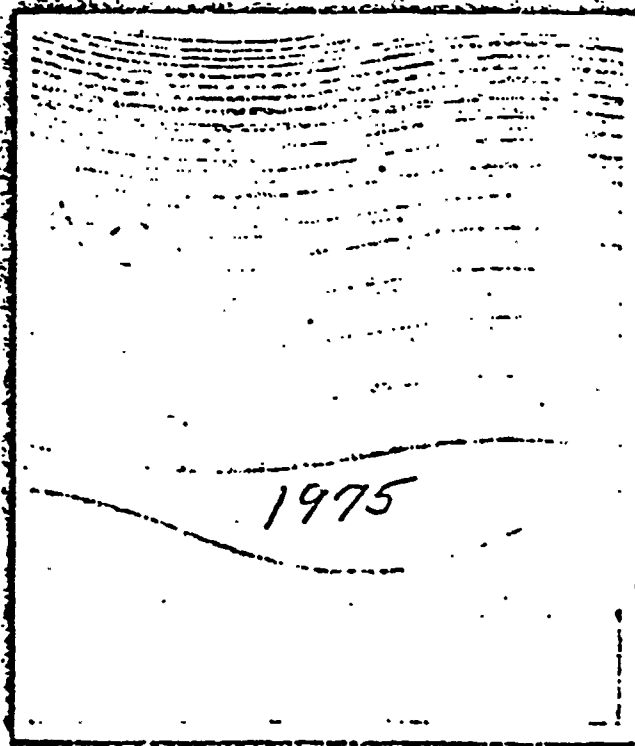
Characteristics, properties, or performance of materials or systems herein described are based on data obtained under controlled test conditions. Celotex makes no warranties, expressed or implied, as to their characteristics, properties, or performance under any variations from such conditions in actual construction. The Celotex Corporation assumes no responsibility for the effects of structural movement.

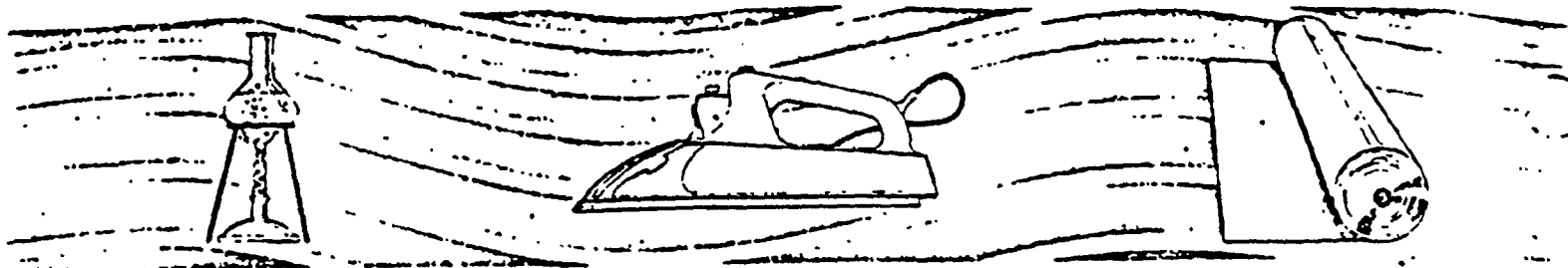


INDUSTRIAL PRODUCTS DIVISION
THE CELOTEX CORPORATION
TAMPA, FLORIDA 33622

• Jim Walter company

Celotex
**Industrial
Specialty
Products**





Commercial Asbestos Paper and Rollboard

DESCRIPTION: Asbestos Paper and Rollboard are composed of Canadian asbestos fibre combined with a small quantity of extremely strong binding material. A specially-equipped paper-making machine turns the slurried components into sheets. The sheets are thoroughly dried and, finally, calendered to a smooth finish. Asbestos Paper and Rollboard are strong, flexible, fire-resistant sheets suitable for varied applications throughout industry.

Asbestos Paper and Rollboard are of one type and vary only in thickness and width of sheet rolls.

Gummed or plain Asbestos Paper Tape, made from standard 12-lb. stock, is also available.

SIZES: Asbestos Paper and Rollboard are furnished in standard widths of 18", 24", 36" and 37½". Special sizes can be made to order. Standard weights and thicknesses of sheets are:

Lbs./100 Sq. Ft. (10%)	Approximate Thickness—Inches
6	.015
8	.019
10	.022
12	.026
14	.029
16	.032
32	.0625
50	.094
64	.125

TYPICAL CHARACTERISTICS COMMERCIAL ASBESTOS ROLLBOARD

	3/32"	1/8"
Weight, Pounds	48-52	57-67
Thickness, Inches	.094	.123
Tensile Strength, Dry Pounds, With Grain	35	35
Mullen Strength, Pounds	32	32
Moisture, Per Cent	3	5

TYPICAL CHARACTERISTICS COMMERCIAL ASBESTOS PAPER

	6 lb.	8 lb.	10 lb.	12 lb.	14 lb.	16 lb.	3/64"	1/16"
Weight, pounds per 100 sq. ft.	5.5-6.5	7.5-8.5	9.3-10.7	11-12.6	13-15	15-17	23-26	30-34
Thickness, Inches	.015	.018	.022	.025	.028	.032	.045	.060-.064
Tensile Strength, Dry Pounds, With Grain	14-16	14-16	14-16	15-17	16-18	16-18	18-20	20
Mullen Strength, Pounds	10	11	12	12	14	14	20	20
Moisture, Per Cent	3	3	3	3	3	3	3	3

Asbestos Paper Tape is available in 2" and 3" wide rolls — each 84 feet long. The Tape is made from standard 12-lb. stock and may be ordered gummed or plain.

APPLICATIONS: Asbestos Paper and Rollboard are satisfactory for a great variety of purposes. The 6 and 8-lb. papers are used in the manufacture of various pipe and electrical insulations. The 10 and 12-lb. papers are used for wrapping hot air furnace pipes. Heavier weights are used for lining stoves, ovens, gas ranges and for making gaskets, filters and discs.

Other prospective applications for this material might include:

Laboratory equipment insulators

Dental molding forms

Boiler jackets

Protected metal siding

Kitchen hot pads

Table pads

Electrical appliances

Safes and strongboxes

Dry kiln insulators

Flooring base

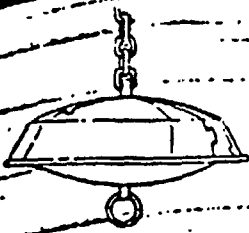
Welding mats and insulators

Plastic roof system base

Filing cabinet lining

Household radiator covers

Culvert pipe protection



Asbestos Insulating Paper Specialties

CORRUGATED ASBESTOS PAPER

DESCRIPTION: Corrugated Asbestos Paper consists of a sheet of asbestos paper, which has been corrugated, firmly cemented to a flat backing sheet of like material. The two sheets are joined by a suitable adhesive.

Corrugated Asbestos Paper is a very light and flexible form of insulation, adaptable for wrapping around curved surfaces.

SIZES: Corrugated Asbestos Paper is furnished in coarse corrugations ($\frac{1}{4}$ " thick per ply) in 36" to 37" wide rolls. It can be ordered in 250 sq. ft. or 500 sq. ft. rolls.

APPLICATIONS: Corrugated Asbestos Paper can be used wherever a light and flexible, yet efficient, insulating material is required. It is especially valuable for wrapping hot air furnace pipes, and as insulation for hot air ducts in blower systems for large buildings.

CAREYFOIL

DESCRIPTION: Careyfoil is made from $\frac{1}{4}$ " Corrugated Asbestos Paper with a layer of aluminum foil adhered to the flat side only. This method of construction adds materially to its insulation value.

Writers Approved: Material available upon request.

SIZES: Careyfoil is furnished in 36" and 37" wide rolls, each containing 250 sq. ft. of material.

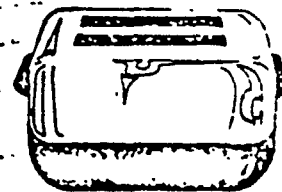
APPLICATIONS: Careyfoil is used in the construction of low and medium heat ovens for residential and commercial use. It is also used with furnaces and hot water heaters.

FOIL-FACED ASBESTOS PAPER

DESCRIPTION: Foil-Faced Asbestos Paper consists of Commercial Asbestos Paper with aluminum foil adhered to one or both sides. One side foil paper is furnished in roll form, two side material is usually provided in sheets.

SIZES: Foil-Faced Asbestos Paper is furnished in 36" or 37" wide rolls. It can be ordered in 500 or 1,000 sq. ft. rolls.

APPLICATIONS: Foil-Faced Asbestos Paper is used as insulation and a lighting reflector for lighting fixtures, as insulation for moderate temperature applications such as air conditioners, vending machines, radiators, baseboard heating units, etc. It is also a popular insulator for pipes and ducts.



Asbestos Millboard

DESCRIPTION: Asbestos Millboard is made from Canadian asbestos fibre pulp mixed with binding materials and formed in sheets. Commercial Millboard is produced in two grades, No. 1 Hard and No. 7 Medium. No. 1 Grade withstands temperatures up to 1000°F., and No. 7 Grade withstands temperatures up to 800°F. These two grades satisfy the vast majority of requirements. Special grades can be developed by Celotex laboratories. Asbestos Millboard with pin-point (knurled) finish can also be supplied.

SIZES: Asbestos Millboard is furnished in 42" x 48" sheets in the following thicknesses:

Thickness (Inches)	Pounds* Per Sheet	Ounces* Per Sq. Ft.
1/16	3.9	4.5
5/64	4.9	5.6
3/32	5.9	6.7
1/8	7.9	9.0
5/32	9.4	10.7
3/16	11.8	13.5
1/4	15.8	18.1
5/16	19.7	22.5
3/8	23.6	27.0
1/2	31.5	36.0
5/8**	37.6	43.0
3/4**	45.2	51.7
1**	60.2	68.8

*Typical weights.

**Available in laminated form on a special order basis only.

APPLICATIONS: Asbestos Millboard is used extensively in the electric heating field and glass industry. It may be used in fire screens and partitions, as a lining for ceilings, walls, floors, elevator shafts, ranges, stoves, grates, electric ovens, sterilizers and roasters.

Other typical applications for Asbestos Millboard include:

Sheet glasslehr rolls

Float glass conveyor rolls

Gaskets

Cores for metal-clad doors

Stainless steel conveyor rolls

Table and stove pads and mats

Incinerators, home and commercial

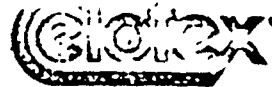
Heater and furnace lining

Safe and strongbox lining

Electric switch box lining

Household appliances

Kiln lining



Product Application Form

Your Name _____ Date _____

Company _____

Address _____

City _____ State _____ Zip _____

Name of application _____

Type of material, if known _____

Quantity _____

How often is this quantity purchased? _____

DESIGN REQUIREMENTS:

What is the intended use of the material? _____

What conditions (temperature, exposure, impact, etc.) must the material withstand? _____

What fluids or gases will material be exposed to? _____

Please attach specification sheet, if available.

PART DESCRIPTION:

1. *Rectangular sheets without holes:* Give length _____, width _____, thickness _____, tolerances _____
Roll goods: Give outside diameter _____, core diameter _____, width _____, approximate weight per roll _____, thickness _____, dimensional tolerances _____
3. *All other nonstandard parts:* Attach sketches or prints, identified by part number: # _____
Dimensional tolerances must be shown.

PACKAGING: check all applicable boxes according to requirements:

1. Maximum gross weight allowed per unit package _____
2. On pallets? ☐ Returnable? ☐ Nonreturnable? ☐
3. In cartons? ☐
4. Other? ☐ Specify _____

SHIPPING INSTRUCTIONS: (include preference of carrier, if any.)

OTHER INFORMATION:

Die charge (if required). Should these charges be listed separately? _____
or included as part of the selling price? _____

Who is present supplier? _____

(competitive product identification _____

Approximate price now being paid _____

(FOLD, STAPLE AND MAIL)

FOLD HERE

BUSINESS REPLY MAIL

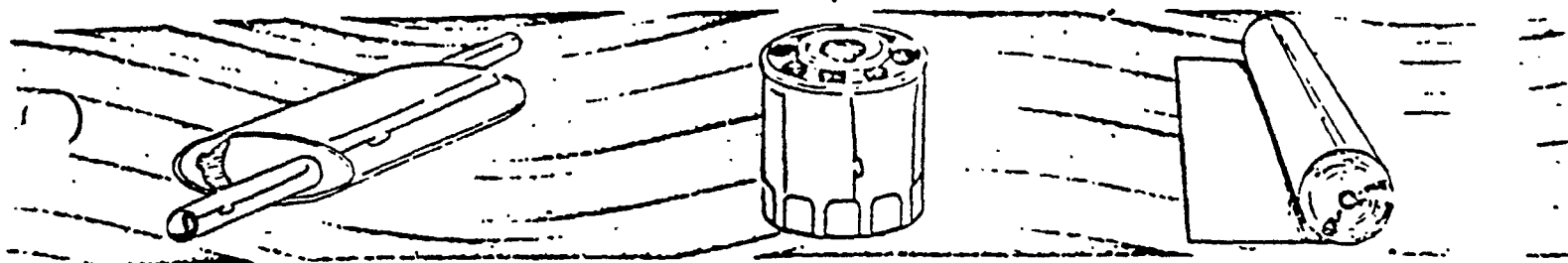
No postage necessary if mailed in United States
Postage will be paid by

THE CELOTEX CORPORATION
1500 NORTH DALE MABRY
TAMPA, FLORIDA 33622

FIRST CLASS
PERMIT #269
TAMPA, FLA.

ATTN: INDUSTRIAL MARKETING DEPARTMENT

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Specialty Asbestos and Organic Papers

DESCRIPTION: Celotex produces a number of Specialty Asbestos and Organic Papers for a broad range of applications in varied industries. Briefly these materials include:

Asbestos Resin Saturating Paper — A phenolic resin saturating type paper designed to be impregnated with thermo-setting resin. Saturated material is usually wrapped or rolled, then heated to cure the resin and form a hard, heat-resistant component.

Asbestos Asphalt Saturating Paper — Designed for use as a base for roofing and dampproofing membrane by saturating with roofing grades of asphalt and tar pitch.

Asbestos Pipeline Wrapping Paper — Reinforced with continuous filament glass fiber strands for high sheet strength. This material has many industrial uses in addition to its principle application as a corrosion-preventing pipeline wrap.

Asbestos Paper, Inorganic Type — A material with low organic fiber content to reduce smoke and odor emission.

Asbestos Laminating Paper — This product contains natural fiber for additional strength. It is specially formulated for use with galvanized steel pipe.

Asbestos Muffler Paper — This asbestos paper is indented, or waffled, to provide greater overall caliper and flexibility. It is used widely in the automotive industry.

Non-Flammable Protective Paper — Thin, non-flammable asbestos paper for use as a flame retardant in decorative wall paneling.

Asbestos Flooring Backer Sheet — Latex bound asbestos paper of the beater addition type which contributes resilience, dimensional stability and durability to composite floor covering materials.

Filter Felt — Used as a filtering medium in automotive lubricating oil filters.

Organic Flooring Felt — Saturated with high quality asphalt and painted one side with a primer, this product is used by the flooring manufacturers as a base layer for enamel print flooring.

Celotex Asbestos Gasket Materials — Celotex manufactures a variety of gasket papers that are especially formulated to meet demanding customer specifications. Typically these materials are made of asbestos fibers uniformly coated with synthetic rubber latices selected for specific requirements. They are resilient, non-corrosive, fungus resistant and dimensionally stable.

CAUTION: Celotex specialty products contain asbestos fibers. Avoid creating dust. Breathing asbestos dust may cause serious bodily harm.

Chlorine THE CHLORINE CORPORATION
MADE IN U.S.A. 1952



CHLORINE CORPORATION

NORTHERN DIVISION
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CHLORINE CORPORATION

SOUTHERN DIVISION
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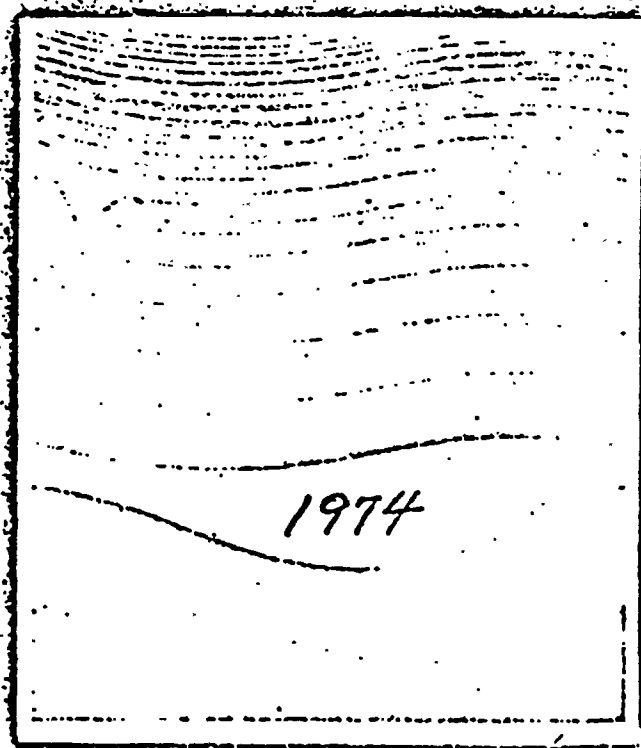
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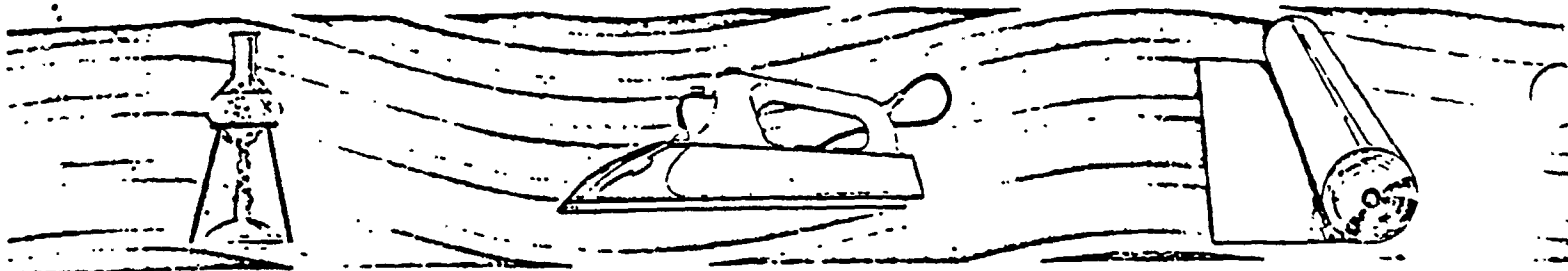
CHLORINE

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Clotex
Industrial
Specialty
Products





Commercial Asbestos Paper and Rollboard

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Asbestos Paper and Rollboard are of one type and vary only in thickness and width of sheet rolls.

Gummed or plain Asbestos Paper Tape, made from standard 12-lb. stock, is also available.

SIZES: Asbestos Paper and Rollboard are furnished in standard widths of 18", 24", 36" and 37½". Special sizes can be made to order. Standard weights and thicknesses of sheets are:

Lbs./100 Sq. Ft. (10%)	Approximate Thickness—Inches
6	.015
8	.019
10	.022
12	.026
14	.029
16	.032
32	.0625
50	.094
64	.125

TYPICAL CHARACTERISTICS COMMERCIAL ASBESTOS ROLLBOARD

	3/32"	1/8"
Weight, Pounds	48-52	57-67
Thickness, Inches	.094	.123
Tensile Strength, Dry Pounds, With Grain	35	35
Mullen Strength, Pounds	32	32
Moisture, Per Cent	3	5

Asbestos Paper Tape is available in 2" and 3" wide rolls — each 84 feet long. The Tape is made from standard 12-lb. stock and may be ordered gummed or plain.

APPLICATIONS: Asbestos Paper and Rollboard are satisfactory for a great variety of purposes. The 6 and 8-lb. papers are used in the manufacture of various pipe and electrical insulations. The 10 and 12-lb. papers are used for wrapping hot air furnace pipes. Heavier weights are used for lining stoves, ovens, gas ranges and for making gaskets, filters and discs.

Other prospective applications for this material might include:

Laboratory equipment
insulators

Dental molding forms

Boiler jackets

Protected metal siding

Kitchen hot pads

Table pads

Electrical appliances

Safes and strongboxes

Dry kiln insulators

Flooring base

Welding mats and insulators

Plastic roof system base

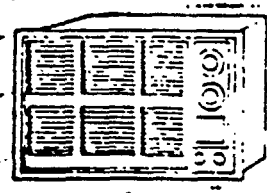
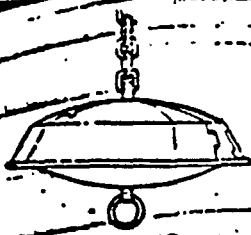
Filing cabinet lining

Household radiator covers

Culvert pipe protection

TYPICAL CHARACTERISTICS COMMERCIAL ASBESTOS PAPER

	6 lb.	8 lb.	10 lb.	12 lb.	14 lb.	16 lb.	3/64"
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Thickness, Inches	.015	.018	.022	.025	.028	.032	.045
Tensile Strength, Dry Pounds, With Grain	14-16	14-16	14-16	15-17	16-18	16-18	18-20
Mullen Strength, Pounds	10	11	12	12	14	14	20
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Asbestos Insulating Paper Specialties

CORRUGATED ASBESTOS PAPER

DESCRIPTION: Corrugated Asbestos Paper consists of a sheet of asbestos paper, which has been corrugated, firmly cemented to a flat backing sheet of like material. The two sheets are joined by a suitable adhesive.

Corrugated Asbestos Paper is a very light and flexible form of insulation, adaptable for wrapping around curved surfaces.

SIZES: Corrugated Asbestos Paper is furnished in coarse corrugations ($\frac{1}{4}$ " thick per ply) in 36" to 37" wide rolls. It can be ordered in 250 sq. ft. or 500 sq. ft. rolls.

APPLICATIONS: Corrugated Asbestos Paper can be used wherever a light and flexible, yet efficient, insulating material is required. It is especially valuable for wrapping hot air furnace pipes, and as insulation for hot air ducts in blower systems for large buildings.

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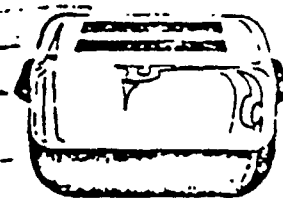
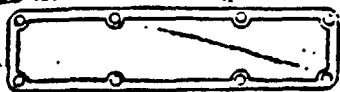
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SIZES: Asbestos Millboard is furnished in 42" x 48" sheets in the following thicknesses:

Thickness (Inches)	Pounds* Per Sheet	Ounces* Per Sq. Ft.
1/16	4.1	4.7
5/64	5.1	5.8
3/32	6.2	7.1
1/8	8.3	9.5
5/32	10.3	11.8
3/16	12.4	14.2
1/4	16.5	18.9
5/16	20.6	22.9
3/8	24.8	28.3
1/2	33.0	37.7
5/8**	39.0	44.6
3/4**	44.5	50.9
1**	68.5	76.0

*Typical weights.

APPLICATIONS: Asbestos Millboard is used extensively in the electric heating field and glass industry. It may be used in fire screens and partitions, as a lining for ceilings, walls, floors, elevator shafts, ranges, stoves, grates, electric ovens, sterilizers and roasters.

Other typical applications for Asbestos Millboard include:

Sheet glasslehr rolls

Float glass conveyor rolls

Gaskets

Cores for metal-clad doors

Stainless steel conveyor rolls

Table and stove pads and mats

Incinerators, home and commercial

Heater and furnace lining

Safe and strongbox lining

Electric switch box lining

Household appliances

Kiln lining



Product Application Form

Your Name _____ Date _____

Company _____

Address _____

City _____ State _____ Zip _____

Name of application _____

Type of material, if known _____

Quantity _____

How often is this quantity purchased? _____

DESIGN REQUIREMENTS:

What is the intended use of the material? _____

What conditions (temperature, exposure, impact, etc.) must the material withstand? _____

What fluids or gases will material be exposed to? _____

Please attach specification sheet, if available.

PART DESCRIPTION:

1. Rectangular sheets without holes: Give length _____, width _____, thickness _____, tolerances _____.

2. Roll goods: Give outside diameter _____, core diameter _____, width _____, approximate weight per roll _____, thickness _____, dimensional tolerances _____.

3. All other nonstandard parts: Attach sketches or prints, identified by part number: # _____
Dimensional tolerances must be shown.

PACKAGING: check all applicable boxes according to requirements:

1. Maximum gross weight allowed per unit package _____

2. On pallets? ☐ Returnable? ☐ Nonreturnable? ☐

3. In cartons? ☐

4. Other? ☐ Specify _____

SHIPPING INSTRUCTIONS: (include preference of carrier, if any.)

OTHER INFORMATION:

Die charge (if required). Should these charges be listed separately? _____
or included as part of the selling price? _____

Is present supplier? _____

Give competitive product identification _____

Approximate price now being paid _____

(FOLD, STAPLE AND MAIL)

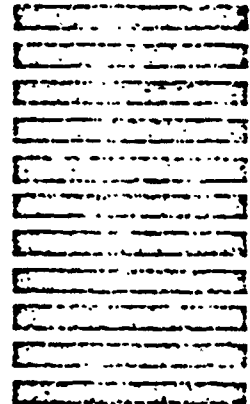
FOLD HERE

BUSINESS REPLY MAIL

No postage necessary if mailed in United States
Postage will be paid by

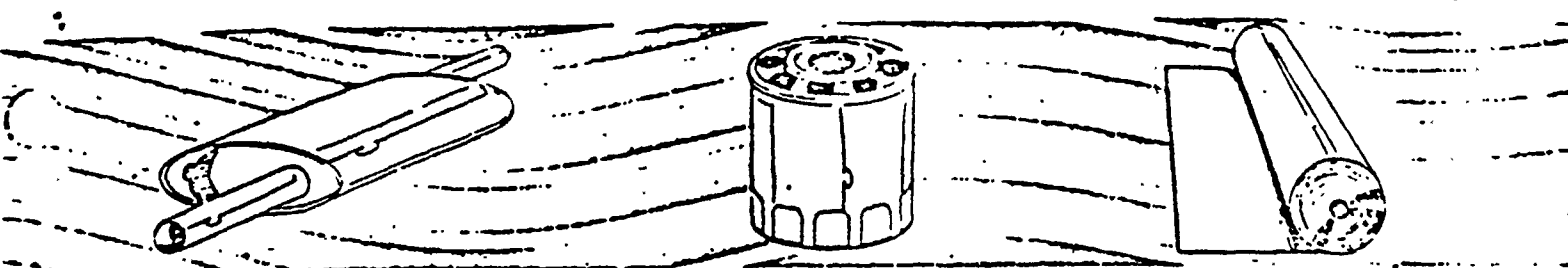
THE CELOTEX CORPORATION
1500 NORTH DALE MABRY
TAMPA, FLORIDA 33622

FIRST CLASS
PERMIT #269
TAMPA, FLA.



ATTN: INDUSTRIAL MARKETING DEPARTMENT

FOLD HERE



Specialty Asbestos and Organic Papers

DESCRIPTION: Celotex produces a number of Specialty Asbestos and Organic Papers for a broad range of applications in varied industries. Briefly, these materials include:

Asbestos Resin Saturating Paper — A phenolic resin saturating type paper designed to be impregnated with thermo-setting resin. Saturated material is usually wrapped or rolled, then heated to cure the resin and form a hard, heat-resistant component.

Asbestos Asphalt Saturating Paper — Designed for use as a base for roofing and dampproofing membrane by saturating with roofing grades of asphalt and tar pitch.

Asbestos Pipeline Wrapping Paper — Reinforced with continuous filament glass fiber strands for high sheet strength. This material has many industrial uses in addition to its principle application as a corrosion-preventing pipeline wrap.

Asbestos Paper, Inorganic Type — A material with low organic fiber content to reduce smoke and odor emission.

Asbestos Laminating Paper — This product contains natural fiber for additional strength. It is specially formulated for use with galvanized steel pipe.

Asbestos Muffler Paper — This asbestos paper is indented, or waffled, to provide greater overall caliper and flexibility. It is used widely in the automotive industry.

Non-Flammable Protective Paper — Thin, non-flammable asbestos paper for use as a flame retardant in decorative wall paneling.

Asbestos Flooring Backer Sheet — Latex bound asbestos paper of the beater addition type which contributes resilience, dimensional stability and durability to composite floor covering materials.

Filter Felt — Used as a filtering medium in automotive lubricating oil filters.

Organic Flooring Felt — Saturated with high quality asphalt and painted one side with a primer, this product is used by the flooring manufacturers as a base layer for enamel print flooring.

Celotex Asbestos Gasket Materials — Celotex manufactures a variety of gasket papers that are especially formulated to meet demanding customer specifications. Typically these materials are made of asbestos fibers uniformly coated with synthetic rubber latices selected for specific requirements. They are resilient, non-corrosive, fungus resistant and dimensionally stable.

CAUTION: Celotex specialty products contain asbestos fibers. Avoid creating dust. Breathing asbestos dust may cause bodily harm.

Handwritten scribble or signature.



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