



NO. 87-07665-K

BRENDA OBORIL, INDIVIDUALLY	§	IN THE DISTRICT COURT OF
AND AS PERSONAL REPRESENTA-	§	
TIVE OF THE HEIRS AND ESTATE	§	
OF THOMAS J. OBORIL, DEC'D	§	
	§	
VS.	§	DALLAS COUNTY, T E X A S
	§	
NATIONAL GYPSUM COMPANY,	§	
ET AL	§	192ND JUDICIAL DISTRICT

DEFENDANT THE CELOTEX CORPORATION'S
ANSWERS TO PLAINTIFF'S FIRST SET OF INTERROGATORIES

TO: Plaintiff, Brenda Oboril, by and through her attorney of record, Russell W. Budd, Baron & Budd, A Professional Corporation, 8333 Douglas Avenue, 10th Floor, Dallas, Texas 75225.

COMES NOW The Celotex Corporation, one of the Defendants in the above-styled and numbered cause and submits the attached Answers to Plaintiff's First Set of Interrogatories.

Respectfully submitted,

BUTLER & BINION

By 
Elizabeth M. Thompson
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Houston, Texas 77002-5008
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ATTORNEYS FOR DEFENDANT,
THE CELOTEX CORPORATION

CERTIFICATE OF SERVICE

This is to certify that a true and correct copy of the attached Answers to Plaintiff's First Set of Interrogatories has been forwarded to Plaintiff's counsel of record, certified mail, return receipt requested, on this 1st day of January, 1989.

C. S. J. J. J. J.
Secretary to Elizabeth M. Thompson

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ANSWERS TO INTERROGATORIES

The Celotex Corporation ("Celotex") is a successor-in-business to various companies and corporations which were engaged in the manufacture and sale of asbestos-containing industrial insulation products. Celotex's involvement in the industrial asbestos insulation business began with its purchase of Panacon Corp. in 1972. Prior to that date, Celotex did not have any interest in the industrial 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 these Answers may be incomplete. Nevertheless, Celotex has endeavored to fully investigate all relevant happenings and circumstances and the following Answers 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 Answers 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.

To the extent that the information contained herein differs

in any respect from any prior response to discovery, these answers shall be deemed to update and supersede such prior Answers in any and all cases.

Celotex does not concede that any of its responses to these Interrogatories are or will be admissible evidence at a trial of this action and Celotex does not waive any objection, on any ground, whether or not asserted herein, to the use of any such answer at trial.

Defendant, The Celotex Corporation, objects generally to Plaintiff's definition of "you", "your" and "Defendant's predecessor" as they are vague and overbroad and Defendant is unable to formulate the correct response. In an attempt to be cooperative, this Defendant, The Celotex Corporation, has prepared the following responses which are limited to information pertaining to The Celotex Corporation and its predecessors-in-business.

Defendant objects to any Interrogatory/Request to the extent that it seeks disclosure of information generated by persons other than Celotex and/or its predecessors-in-business that has come into the possession of its counsel during the course of discovery and trial preparation in asbestos-related litigation.

ANSWERS TO INTERROGATORIES

1. Please describe in detail all products that Defendant and/or its predecessor(s) in interest have manufactured, marketed and/or sold since 1940.

ANSWER: Refer to Product List attached, marked Exhibit "A". In addition, The Celotex Corporation manufactured, at

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the times indicated, the following asbestos-containing building products:

1. Certain ceiling tiles - manufactured 1960-1975; composed of rockwool, slag, starch binders and a small percentage of asbestos fiber.
2. Joint compound - manufactured from 1945 - 1976; composed of inert fillers, adhesives and a small percentage of asbestos.

2. For each product identified in response to Interrogatory No. 1 above, please state:

(a) the approximate volume of products originally sold, distributed, delivered to or applied by people or business entities in the State of Pennsylvania, for each year from 1940 through the present;

(b) the approximate volume of products originally sold, distributed, delivered to or applied by people or business entities with Defendant's knowledge that said products would be used or applied in Pennsylvania, for each year from 1940 through the present;

(c) the approximate annual income derived by Defendant, Defendant's predecessors, or Defendant's subsidiaries as a result of sales, application, distribution, and/or servicing of Defendant's products in the State of Pennsylvania for each year from 1940 through the present;

(d) the percentage of Defendant's overall income that Defendant's income in Pennsylvania as stated in response to Interrogatory No. 1(c) above, represents for each year from 1940 through the present;

(e) the ten states in which Defendant derives that most income as a result of sales, application, distribution, and servicing of Defendant's products, and the amount of income generated in each of those states.

ANSWER: Due to record retention policy and for reasons given in the Preliminary Statement, Defendant does not have complete records and is unable to respond as requested.

3. Please identify by trade or brand name each asbestos-containing product manufactured and/or sold by Defendant. For each product identified, please state the following:

(a) the years that the product was manufactured and/or

sold;

(b) a description of the chemical composition of the product, including the type of asbestos contained in the product (e.g., amosite, chrysotile, crocidilite (sic)) and the percentage of asbestos in each product;

(c) a description of the physical appearance of the product;

(d) a detailed description of the intended uses of the product;

(e) the address, including city and state, of the plants at which the product was manufactured and/or packaged;

(f) the annual dollar amount of production of the product at each of the locations indicated in response to Interrogatory No. 3(e) above, from 1940 through the present;

(g) the percentage of the total production of the product for which each plant indicated in response to Interrogatory No. 3(e) responsible;

(h) the annual dollar sale of the product sold, distributed, delivered to or applied by people or business entities in the States of Texas and Pennsylvania from 1940 through the present;

(i) the approximate percentage of the total market for the product that the Texas and Pennsylvania market represents from 1940 through the present.

ANSWER: . (a) Refer to Response No. 1 above.

(b) Refer to Response No. 1 above. Further, the asbestos contained in the products previously identified was chrysotile asbestos fiber with the following exceptions:

(1) Tempcheck, Hightemp (#12, 15 & 19) and A-101 Cement contained amosite and chrysotile;

(2) Careytemp 2000 and Thermalite contained amosite only; and

(3) Two types of millboard, made from the mid-1960s until 1973, utilized crocidolite in a mixture with chrysotile fibers.

In addition, 85% Magnesia for an undetermined period in or about 1946 may have contained some amosite due to a material shortage.

(c)-(d) Defendant objects to providing a description of the physical characteristics and intended uses of each such product 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.

(e) The Celotex Corporation and its predecessors-in-business have operated manufacturing facilities, which produced asbestos-containing industrial insulation materials, at the following locations:

Lockland, Ohio - 1906 to 2/70 (high temperature industrial insulation); 2/70 to 1984 (other miscellaneous and encapsulated products);

Plymouth Meeting, Pennsylvania - 1906 through 1962 (high temperature insulation products only);

Linden, New Jersey - 1969 through 10/83 (asbestos paper products).

In addition, The Celotex Corporation has operated manufacturing facilities which manufactured a few other asbestos-containing materials at other locations for limited periods of time.

(f)-(i) Due to record retention policy and for reasons given in the Preliminary Statement, Defendant does not have complete records and is unable to respond as requested.

4. Please state the address of any offices, factories, plants, or places of business ever operated by Defendant in the States of Pennsylvania and/or Texas. For each location identified, please state also:

(a) the dates that the location was operated as a place of business by Defendant;

(b) the type of business conducted at the location;

(c) the number of people employed at the location;

(d) the name and address of the custodian of records pertaining to the business transacted at the location.

X

ANSWER: Defendant objects to this Interrogatory on the grounds that it is irrelevant to the instant action and not calculated to lead to the discovery of admissible evidence. Further, Defendant objects to this question as it fails to delineate a specific time period so as to render the question overbroad, misleading, and incapable of being answered as phrased. Without waiving its objection, Defendant states that due to record retention policy and for reasons given in the Preliminary Statement, Defendant does not have complete records and is unable to respond as requested. In an attempt to be responsive, Defendant refers to Response to 3(e) above and further states that Defendant has a manufacturing facility in Pittston, Pennsylvania, San Antonio, Texas and Houston, Texas.

5. Did Defendants ever maintain any distribution agreement with any company located in Texas and/or in Pennsylvania with respect to the products identified in Answer to Interrogatories Nos. 12 and 3? If so, please state the following:

(a) the name and address of each company with whom Defendant maintained such an agreement, and the years that each agreement as maintained;

(b) the products that the agreements involved;

(c) the date of the contract(s);

(d) a general description of the subject matter of the contract.

ANSWER: Defendant objects to the form of this question, in that the term "distribution agreement" is vague, misleading, overbroad and ill-defined. Without waiving its objection, Defendant states that due to record retention policy and for reasons given in the Preliminary Statement, Defendant does not have complete information. The best information available does not segregate the distributors and/or sales offices which handled asbestos-containing products from those which did not.

In an attempt to be responsive regarding Defendant's and/or predecessors' distributors and/or sales offices generally, Defendant refers to the list of "Philip Carey Distributors and Sales Offices" (1927-1971) attached as Exhibit "B" a list of "Distributors and Sales Offices Handling Philip Carey Products" (1927-mid 1960s) attached as Exhibit "C" and Defendant's recent "Industrial Insulation Distributors/ Contractor Mailing List," attached as Exhibit "D" Information is not available for each year inclusively.

No information regarding sales by distributors is available from this Defendant.

Celotex has possession of some agreements between its predecessors-in-business and some of its distributors for the time period 1920s-mid 1960s, non-inclusive.

6. Has Defendant ever advertised its product or services within the state of Texas and/or Pennsylvania from 1940 through the present? If so, please state [for the applicable state(s)]:

(a) the way in which each product was advertised, including the name and address of the company that published or promulgated the advertisement;

(b) the annual amount spent by Defendant on such advertising in Texas and/or in Pennsylvania since 1940.

ANSWER: Due to record retention policy and for reasons given in the Preliminary Statement, Defendant does not have complete records and is unable to respond as requested. In an attempt to be responsive, Defendant states magazines and trade publications which advertised Philip Carey products are as follows:

1. Sweet's Catalogues
2. Asbestos
3. Power
4. Plant Engineering
5. Pulp & Paper
6. Petroleum Age
7. Chemical Engineering News
8. Iron Age
9. Chemical Processing
10. Industrial Research & Development
11. Paper Age
12. Chemical Industry & Product News
13. Air Conditioning, Heating & Refrigeration News
14. Industrial Equipment News
15. Power Engineering
16. Product Design and Development
17. Pacific Marine Review

Celotex has no advertising copy and no additional information regarding advertising of predecessor's asbestos products.

Further, 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 1927 through the 1970's at the offices of its local counsel, Butler & Binion. Brochures do not exist for each year inclusively.

7. Please state whether or not the Defendant has purchased, assumed, or in any other manner acquired any of the assets and/or liabilities of any corporation or entity (such corporations or entities being limited to those engaged in the mining of asbestos or the manufacturing, marketing or distributing of asbestos products).

ANSWER: Refer to Corporate History attached, marked Exhibit "E." Since Celotex has assumed all ordinary liabilities of its predecessors, further response is irrelevant. Celotex has specifically not assumed any responsibility for punitive liabilities of its predecessors-in-business.

8. If so, please state the following:

- (a) the name of each such corporation or entity;
- (b) the manner in which each such corporation or entity, or interest therein, was acquired (e.g., purchase, merger, change of name, transfer of assets or product line);
- (c) the date of each such acquisition.

ANSWER: Refer to Corporate History attached, marked Exhibit "E." Since Celotex has assumed all ordinary liabilities of its predecessors, further response is irrelevant. Celotex has specifically not assumed any responsibility for punitive liabilities of its predecessors-in-business.

9. Prior to releasing the products listed in Interrogatories No. 1, 2 and 3 to the public for sale, were any tests conducted on same to determine potential health hazards involved in the use of materials contained therein?

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-1960s, 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-1960s that the medical community first concluded that exposure to finished (manufactured) asbestos-containing products might present a potential health hazard.

10. If so, please state:

(a) the name, address and job classification of each individual who conducted such tests;

(b) the results of such tests.

ANSWER: Refer to Response No. 9 above.

11. Do any written memoranda, specification, blueprints or other written materials of any kind or character exist relating to the testing of said products?

ANSWER: Refer to Response No. 9 above.

12. If so, please state:

(a) list each such written material of document;

(b) identify each person who presently has possession of each such document;

(c) state where each such document is located.

ANSWER: Refer to Response No. 9 above.

13. Were any design changes made as a result of such test?

ANSWER: Refer to Response No. 9 above.

14. If so, please state:

(a) the nature of the change made.

ANSWER: Refer to Response No. 9 above.

15. After releasing the products listed in Answer to Interrogatory Nos. 1, 2 and 3 to the public, were any tests conducted thereon to determine potential health hazards involved in the use of materials contained therein?

ANSWER: Celotex predecessor-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 "F" 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 Careytemp 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 "G" 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 diffraction 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 diffraction 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.

16. If so, please state:

(a) the name, address and job classification of each person conducting said tests;

(b) the results of said test.

ANSWER: Refer to Response No. 15 above.

17. Do any written memoranda, specifications, recommendations or other written materials of any kind or character relating to the potential health hazards of the said products exist?

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ANSWER: Refer to Response No. 15 above.

(a) identify each person who presently has possession of each such document;

(b) state where each such document is located.

ANSWER: Refer to Response No. 15 above.

18. Were any design changes made as a result of such tests?

ANSWER: Refer to Response No. 15 above.

19. If so, please state:

(a) the nature of the change made;

(b) the name, address and job classification of each person responsible for making such a change.

ANSWER: Refer to Response No. 15 above.

(20.) Has Defendant, Defendant's predecessor or any of Defendant's subsidiary companies, at any time, published and/or distributed any brochures, pamphlets, packagings or other written materials of any kind or character that contain any warnings, cautions, caveats or directions concerning the possibility of injury resulting from the use of the products listed in Interrogatory Nos. 1, 2 and 3?

ANSWER: Yes.

(21.) If so, please state:

(a) the wording of each such warning;

(b) a description of each such printed material;

(c) the method used to distribute the warning to persons who are likely to use the products;

(d) the date each such warning was issued;

(e) the name, address and job classification of each person who presently has possession of the above-described documents.

ANSWER: (a)-(e) 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.

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**

This warning also appeared in the sales literature brochures of Celotex in 1974. The above warning was revised, and the following warnings were used by The Celotex Corporation from 1976 to early 1979:

**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 as well as sales literature brochures. In July 1979, Celotex revised the warning labels 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**

Further, In addition, refer to the attached copies of warning labels, marked Exhibit "H" as well as copies of representative sales brochures which contained warnings, marked Exhibit "I" In addition, Material Safety Data Sheets marked Exhibit "J" were given to customers.

22 Did Defendant, Defendant's predecessor, or any of Defendant's subsidiary companies receive notice prior to 1968 that any person was claiming injury as a result of using asbestos products manufactured, and/or sold by Defendant, Defendant's predecessor or any of Defendant's subsidiary companies?

ANSWER: Yes.

23. If so, please state:

- (a) the name and address of each claimant;
- (b) the date of notice of each claim;
- (c) a description of the claim;
- (d) the type of injuries allegedly sustained;
- (e) the name and address of each attorney representing the individuals making such claims;
- (f) the style and court number of each such claim;
- (g) the resolution of each claim.

ANSWER: (a)-(g) 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.

WORKER'S COMPENSATION CLAIMS

The Celotex Corporation, successor-in-business to the Philip Carey Manufacturing Company, believes that the following individuals may have filed a worker'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. 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 worker's compensation claims filed by 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	9/61 (1961)	RI	Death Claim- Unknown	Silicosis/ Asbestosis
Wm.E. Latto	1/10/61 (2/22/65)	OH	Disab.Allow. 5/62 - Death Claim Pending	Asbestos
Nelson L. Lee	10/1/79 (12/23/78)	DE	Death Claim Pending	Asbestosis/ Carcinoma of Lung
Adolpho Serra	8/31/77	MA	Death Claim- Unknown	Adenocarcinoma

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 off.
 -paychecks were issued. However, Defendant belie.
 claimants probably worked in one of Philip Carey's con.
 units. The documents indicate the following:

<u>Employee Name</u>	<u>Date Filed (Date Death)</u>	<u>State</u>	<u>Disposition</u>	<u>Alleged Disability</u>
James W. Riley	1954 (1/24/61)	CA	Disability Allowed 11/59	Pneumoconiosis
John E. Swartout	Disab. 12/55 Death 6/56 (5/30/56)	CA	Death Claim Allowed	Asbestosis
Steve Gilivich	11/61	CA	Disability Settled 1965	Respiratory Injury
Anthony J. Onofrio	1962	CT	Disability Claim Unk.	Unknown
Allen Everitt	5/27/63	CA	Disability Claim Unk.	Pulmonary Disease
William Crader, Sr.	6/10/66 (3/7/66)	CA	Death Claim Allowed	Asbestosis
Clifford Harding	Unknown	CA	Disability Claim Settled	Asbestosis
Edward L. Pfleghaar	11/68	CA	Disability Claim Settled 3/71	Asbestosis
Henry C. Puetz	7/26/66	CA	Disability Allowed Appeal Settled	Asbestosis

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>
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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

24. Please state whether or note the Defendant, Defendant's predecessor, or Defendant's subsidiary companies, from 1930 to the present, ever conducted any tests in the field (i.e., where the asbestos-containing insulation product of Defendant, Defendant's predecessor or Defendant's subsidiary companies were being applied, removed or used) to determine the nature and extent of asbestos fiber exposure to insulators, applicators or fellow employees working in the vicinity thereof.

ANSWER: Relevant asbestos products were generally sold to insulation application contractors, who carried the main burden of responsibility for safety on the job. Defendant had no jurisdiction over such workers nor any right to inspect such job sites.

25. If so, please identify:

- (a) the date, place and nature of each and every test;
- (b) the particular asbestos-containing insulation product to which each test applied;
- (c) the results of each test with particular reference to the number of asbestos fibers per cubic centimeter of air found at each site.

ANSWER: Refer to Response No. 15 above.

26. Please state the scientific or medical periodicals to which the Defendant, Defendant's predecessor or Defendant's subsidiary companies, their medical departments, industrial hygiene divisions or consulting physicians subscribed during the period between 1930 and the present time.

ANSWER: Because of document retention policies, Celotex does not have complete records of predecessor-in-business; its investigation is continuing. Celotex's best information indicates it has received publications from the following trade associations:

Asbestos Information Association/North America ✓
Department of Labor, National Safety Council
Gypsum Association
Thermal Insulation Manufacturers Association
National Mineral Wool Association
Magnesia Insulation Manufacturers Association
National Insulation Contractors Association

27. Does Defendant, Defendant's predecessor or Defendant's subsidiary companies maintain a library dealing with industrial hygiene, medicine, safety and engineering? If so, state:

- (a) the date each such library was established;
- (b) the location of each such library;
- (c) the name(s) of the librarian(s) since 1930;
- (d) all journals subscribed to by Defendant, Defendant's predecessor or Defendant's subsidiary companies concerning asbestos, industrial hygiene, medicine, safety and/or engineering.

ANSWER: Neither Defendant nor its predecessors-in-business have maintained such libraries.

28. Please state the following with respect to each expert witness you expect to call during trial of this case:

- (a) the name, address and job classification of each such expert witness;
- (b) the subject matter on which the expert is expected to testify;
- (c) the substance of the facts and opinions to which the expert is expected to testify and a summary of the grounds for each opinion;
- (d) whether any person identified in subparagraph (a) above has provided a report or other documentation to you, and if so identify each such document or report;
- (e) identify all documents you have provided to each person identified in response to subparagraph (a) above;
- (f) describe in detail the education and work history of, and identify any books, treatises, articles, published and unpublished reports, studies or other scholarly works

authored by, and individual identified in response to subparagraph (a) above. Alternatively, in lieu of said response, attach a copy of a resume or curriculum vitae and a list of publications to your answers.

ANSWER: See Exhibit "K".

29. Has any person having knowledge of discoverable matters in this action provided a written or recorded statement? If so,

- (a) identify each person who made such statements;
- (b) identify each person to whom the statements were made;
- (c) state the dates the statements were made, the purpose for which the statement was made, and the custodian of the record or transcript of each said statement.

ANSWER: Defendant objects to this interrogatory to the extent to which it requests disclosure of information which is not discoverable due to work product and attorney-client privileges pursuant to Tex.R.Civ.P. 166b(3)(a). Defendant further objects because this interrogatory requests information pertaining to the identity, mental impressions and opinions of experts who may have been either informally consulted or who have been retained in anticipation of trial, but who will not be called as witnesses at trial nor will their opinions be relied upon, either in whole or in part, by experts who will testify at trial. Subject to this objection, see Exhibit "L". Defendant believes that Dr. O'Neal has prepared a subsequent report, but Defendant does not yet have a copy. As soon as Defendant obtains a copy, this answer will be supplemented.

30. Please state the approximate fair market value of The Celotex Corporation during each of the past five fiscal years. Please produce a copy of The Celotex Corporation's annual financial statement for each of the past five fiscal years.

ANSWER: Defendant objects to this Interrogatory on the grounds that it is irrelevant to the instant action and not calculated to lead to the discovery of admissible evidence. Without waiving its objection, Defendant refers to the attached financial statements for the last 5 fiscal years, Exhibit "M".

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
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 3rd day of May, 1989.

Alice Butine
Notary Public
State of Florida
County of Hillsborough

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

ASBESTOS-CONTAINING INSULATION/INDUSTRIAL PRODUCTS
MANUFACTURED BY PHILIP CAREY AND/OR ITS SUCCESSORS*

<u>Name, Trade Name and Description</u>	<u>Date of Manufacture</u>	<u>% Asbestos</u>
I <u>PIPE COVERINGS & BLOCK</u>		
a) 85% Magnesia pbc	1906 to 1961	11-15%
b) Super Light 85% Magnesia pb	1961 to 1968	15%
c) Alltempo pb	1964 to 1968	10-10%
d) Careytempo pb	1968 to 1969 ('69-asb. removed)	5-7%
e) Paper Pipe Products:		
Aircel pb	1906 to 1950, 1969 to early 70's	50%
Careycel pb	1920's to 1960	60%
Carocel p	1925 to 1960	60%
Defendex p	WWII	60%
Excel pb	1925 to 1960	60%
Glosscell pb	1935 to 1960	60%
Multi-Ply pb	1930 to 1960	60%
Asbestos Sponge pb	1930 to 1960	60%
Fyrex p	1969 to early 70's	60+%
f) Other Pipe Coverings Manufactured:		
Tempcheck pbc	1952 to 1958	20%
Hi-temp #19 pbc	1906 to 1958	20%
Hi-temp #12 & #15 pbc	1906 to 1952	20%
Careytempo Alum. Jacketed & Traced Pipe Insul.	1961 to 1968	7-7%
Careytempo 2000 bc	1964 to 02/70	6.4%
Dual Careytempo p	1964 to 1967	10%
II <u>ACCESSORY PRODUCTS TO INSULATION LINE</u>		
a) Cements:		
707 Cement	1906 to 1960	43%
Super 506 Cement	1906 to 1960	10%
100 Cement	1906 to 1967	50%
303 Cement	1906 to 1967	55%
Careytempo Finishing Cement	1966 to 1968	22%
MW-40 Cement	1950 to 1952	10%
MW-50 Cement	1940 to 1967	10%
LF-20 Asbestos Cement	Unknown to 1967	60-70%
Vitricel Cement (#10 & #19)	1940 to 1967	15-25%
A-101 Cement	1906 to 1967	100%
TM-90 Asbestos Shorts Cement	1950 to 1977 (Brokered)	100%
Specialty Cements	Unknown to 1960's	Various %
b) Boards:		
Thermo-board	1925 to 1969	20%
4.2 Careystone Sheets	1925 to 1970	22%
Industrial A-C Boards	1925 to 1970	22%
Cemesto Board	1930's-early 1960's	Unknown
Careyflex Board	1925 to 1969	25%
Marine Panel	1941 to 1950	60%
Panel Board	1941 to 1950	60%
Careystone Sheathing & Baffles	1925 to 1969	22%
c) Miscellaneous Accessories:		
Fireguard	1950 to 1976	85%
Fireclad Jacketing	1965 to 1982	65%
45-pound Asbestos Waterproof Jacket	1906 to 1982	85%
Asbestos Rope & Wick	1925 to 1945	85%
III <u>MISCELLANEOUS PRODUCTS</u>		
Asbestos Papers & Roll Boards	1906 to 02/82	60-85%
Millboards	1906 to 02/82	65-97%
Asbesto-Sorb	1944 to 1950's	Unknown
Spraycraft	1969 to 1971	35%
Asbestos Felts	1960 to 1984	85%
Asbestos Tank Jackets	1906 to 1945	60%
Careyduct	1940 to 1955	60-85%
Thermalite	1906 to 1937	85%
Firefoil Board & Panel	1940 to 1960	60%
Vitricel Asbestos Sheets	1941 to 1960	60-70%
IV <u>MATERIALS WHERE ASBESTOS IS FULLY ENCAPSULATED</u>		
Thermotex-8	1906 to 1984	14%
228 Fibrated Emulsion	1906 to unknown	3.6%
Insulation Seal	1930 to 1984	20%
Fire Resistant Insul Seal	Unknown	20%
Fibrous Adhesive	1906 to 1984	15%
8TU Cement	1930 to 1965	25-30%
Carey Asphalt Floor Tiles	1930's to 1975	40%
Careytempo Adhesive	1961 to 1968	15%
Careyduct Adhesive	1940 to 1955	15%

* All product names are listed, even if quantities sold were small.
p = pipe covering b = block c = cement

EXHIBIT "A"

PHILIP CAREY DISTRIBUTION AND SALES OFFICES (1927-1971)

ARKANSAS
 Little Rock - 1944-46

CALIFORNIA
 Los Angeles - 1931, 1939-47, 1949, 1951-59, 1964, 1966 - 1970
 San Francisco - 1955-61, 1963-66

COLORADO
 Denver - 1931, 1944-46

DISTRICT OF COLUMBIA
 Washington, D.C. (Area) - 1945-47, 1949, 1951-53, 1957-61, 1963-70

FLORIDA
 Jacksonville - 1931

GEORGIA
 Atlanta - 1927, 1931, 1939-47, 1949, 1951-71

ILLINOIS
 Chicago - 1927, 1931, 1939-47, 1949, 1951-71

INDIANA
 Evansville - 1944-46
 Indianapolis - 1927, 1931, 1939-47, 1949, 1951-53, 1956-61, 1963, 1965-70
 Muncie - 1944-46

IOWA
 Des Moines - 1957-58

KENTUCKY
 Louisville - 1931, 1939-46

LOUISIANA
 New Orleans - 1927, 1931

MARYLAND
 Baltimore - 1927, 1931, 1939-46

MASSACHUSETTS
 Boston/Cambridge - 1927, 1931, 1939-47, 1949, 1951-71

MICHIGAN
 Detroit - 1927, 1931, 1939-47, 1949, 1951-71
 Saginaw - 1944-46

MINNESOTA
 Minneapolis - 1927, 1931, 1939-46

MISSOURI
 St. Louis - 1927, 1931, 1939-47, 1949, 1951-71
 Kansas City - 1927, 1931, 1939-46

NEBRASKA
 Omaha - 1927, 1931

NEW JERSEY
 Edison - 1968-70
 Perth Amboy - 1958-61, 1963-71

NEW YORK
 Albany - 1931
 Buffalo - 1927, 1931, 1939-46
 New York - 1931, 1939-47, 1949, 1951-71
 (Foreign Div.) - 1931, 1939-40

EXHIBIT

B

NORTH CAROLINA

Charlotte - 1927, 1931, 1939-47, 1955-58
Greensboro - 1944-46
Raleigh - 1944-46

OHIO

Akron - 1927, 1931, 1939-47
Canton - 1927, 1931, 1939-46
Cincinnati - 1931, 1939-47, 1949, 1951-71
Cleveland - 1927, 1931, 1939-47, 1949, 1951-71
Columbus - 1927, 1931, 1939-46
Dayton - 1927, 1931, 1939-46
Elyria - 1944-46
Lima - 1944-46
Mansfield - 1944-46
Sandusky - 1944-46
Toledo - 1927, 1931
Youngstown - 1927, 1931, 1939-47

PENNSYLVANIA

Altoona - 1944-46
Erie - 1927, 1931, 1939-46
Philadelphia - 1927, 1931, 1939-47, 1949, 1951-60, 1962-63, 1965-70
Pittsburgh - 1927, 1931, 1939-47, 1949, 1951-60, 1962
Plymouth Meeting - 1956-57

RHODE ISLAND

Providence - 1963, 1965-70

SOUTH CAROLINA

Greenville - 1944-46

TENNESSEE

Chattanooga - 1939-41
Knoxville - 1931, 1939-46
Memphis - 1957-61, 1963-71

UTAH

Salt Lake City - 1931

TEXAS

Dallas - 1939-46, 1949, 1951-54, 1957, 1959-60, 1962 (Oil Industry Div. - 1931)
Houston - 1955-61, 1963-71

VIRGINIA

Norfolk - 1939-40, 1944-47
Richmond - 1927, 1931, 1940-45

WASHINGTON

Seattle - 1939-47, 1949, 1951-63, 1965-67

WEST VIRGINIA

Wheeling - 1927, 1931, 1939-47

WISCONSIN

Milwaukee - 1944-46

DISTRIBUTORS & SALES OFFICES HANDLING PHILIP CAREY PRODUCTS

ALABAMA

Birmingham - The Young & Vann Supply Co. - 1915 - Unknown*
- North Brothers, Inc. - 05/61 - Unknown*
Mobile - Turner Supply Co. - 03/46 - Unknown*, Gulf States Insul. Co. -
1949-53, 1957, Insulation Engineers, Inc. - 1945 & 1953, 1957
Tuscumbia - Colbert Insulation Co. - 11/64 - Unknown*

ALASKA

Fairbanks - Artic Insulation Co. - Unknown - 01/59

ARIZONA

Fort Smith - Dyke Brothers - 1927 & 1931
Phoenix - Southwestern Mfg. & Supply - 1931, A. N. Borquist - 1937 - Unknown*
Tucson - Arizona Insulation Co. - 05/52 - Unknown*

ARKANSAS

Little Rock - Fischer Cement & Roofing - 1927, 1931, 1942 - 1946, United Insulating
Co. - 1946-47, 1950 - 1952, 1957, Ozark Insulation Co. Inc. - 1949, 08/51 - Unknown*

CALIFORNIA

Los Angeles - Plant Insulation Co. - 05/54 - 12/56, Warren & Bailey Co. - 1927,
1941 - 1947, 1950
Oakland - Silicair Insulation - 1950 & 1952
Sacramento - Allyn L. Burr Co. - 1931
San Francisco - Jones Brothers Asbestos Supply Co. - 1927 & 1931, Warren & Bailey Co
- 1939 - 1940, Van Arsdale-Harris Co. - 1940-43, 1945-47, Charles Ayres Co. -
1949 - 1953, 1957, E. J. Bartells Co. - 06/61 - Unknown*, Parker Insul. Contr. &
Supply - 11/59 - 05/61

COLORADO

Denver - Standard Military Mfg. Co. - 1927 & 1931, Rocky Mountain Supply Co. -
05/46 - 02/59, B & B Engineering & Supply - 01/59 - Unknown*, Powers Industrial
Insulation - 10/56 - 06/58, Scott Insulation Co. - 11/57 - Unknown*

CONNECTICUT

Bridgeport - Asbestos Distributors Inc. - 1939 - Unknown*, Asbestos Distributors
Corp. - 08/55 - Unknown*
Hartford - The Insulation Co. - 1950

DELAWARE

Wilmington - Delaware Insulating Co. - 1949 - Unknown*

DISTRICT OF COLUMBIA (Area)

Washington, DC - Asbestos Covering Co. - 1931 - Unknown*
Alexandria, VA - Asbestos Covering & Roofing Co. - 1927, 1931 & 1939 - 1944
Beltsville, MD - Asbestos Covering & Roofing Co. - 1927, 1931 & 1939 - 1944
Washington, DC - Asbestos Covering & Roofing Co. - 1927, 1931 & 1939 - 1944

FLORIDA

Jacksonville - The Cameron & Barkley Co. - 06/27 - 10/37, 1939-47, 1949-50,
1952-53, 1957, White Insulation Co. - 03/56 - 03/60
Miami - The Cameron & Barkley Co. - 1939-47, 1949-53, 1957, Berkson, M. d/b/a/
Rand Insulation - 07/56 - Unknown*, General Insulation Co. - 09/53 - Unknown*
Fort Lauderdale - Southern Insulation Corp. - 11/57 - Unknown*
Tampa - The Cameron & Barkley Co. - 1927, 1931, 1939-47, 1949-53, 1957
Asbestos Insulating Co. - 05/47 - 06/64

EXHIBIT 1

GEORGIA

Atlanta - Asbestos Insulation Co. - 12/49 - Unknown*

HAWAII

Honolulu - American Factors, Ltd. - 07/51 - Unknown*, Associated Insulation Co. Ltd.
- 11/59 - Unknown*

ILLINOIS

Chicago - Asbestos, Asphalt & Insulation Mfg. Co. - 1939 - 1941, Paul J. Krez -
12/45 - 12/62, Luse-Stevenson Co. Inc. - 1944 - 1946, Illinois Roofing & Insulation
Co. - 1945-47, 1949-53, 1957, Illinois Insul. & Constr. - 03/43 - Unknown*,
International Insulation - 08/64 - Unknown*, Melrose Park - Jamar-Olmen Co. -
12/59 - Unknown*, Rockford - McDermaid's Insulation Div. - 10/53 - 12/57, Peoria -
Sprinkman Sons Corp. - 02/46 - 07/55, 1957

INDIANA

Evansville - General Insulation Co. - 12/47 - Unknown*
Fort Wayne - Asbestos Insul. & Roofing Co. Inc. - 12/32 - 06/55, 1957
South Bend - The General Roofing & Insulation Co. Inc. - 1949-52, 1957, Twin City
Insulation Co. - 10/60 - Unknown*, Zack, Inc. - 09/51 - 04/60

IOWA

Davenport - Economy Roofing & Supply - 03/43 - Unknown*
Des Moines - Madden Insulation Co. - 1949-53, 1957, R.E. Cogley Co. - 05/57 - Unknown*
Sioux City - Kelly Asbestos Products - 1949, 1951-53, 1957
Waterloo - J. A. Neymeyer - 10/47 - Unknown*

KANSAS

Wichita - Kelly Asbestos Products - 1949, 1951-53, 1957

KENTUCKY

Louisville - Walter L. Lacy Co. - 1927, 1931, Louisville Builders Supply - 1946-47,
1950, Wholesale Service Co. - 1951-52, 1957

LOUISIANA

New Orleans - J. J. Clark Co. Ltd. - 12/21 - Unknown*, Reilly Benton Co. - 1945-1947
Orleans Insulation & Sales Co. - 8/49-06/60, Eagle Asbestos & Packing - 12/57-02/63
Taylor-Seidenbach, Inc. - 02/53 - 11/57
Shreveport - R. F. Zimmerman & Co. - 1942 - 1943
Baton Rouge - B & B Engineering & Supply - 03/63 - Unknown*

MARYLAND (See also District of Columbia)

Baltimore - McCormick Asbestos Co. - 1939 - Unknown*

MASSACHUSETTS

Boston/Cambridge - Curtis Asbestos Co. - 10/32 - Unknown*
Belmont - Eastern Refractories Co. - 05/62 - Unknown*

MICHIGAN

Grand Rapids - Alexander Stafford Corp. - 1944-47, 1949-53, 1957, Acme Insulations,
Inc. - 11/54 - 10/58, M. S. Knee Co. - 03/60 - Unknown*
Jackson - Jackson Insulation Co. - 08/34 - Unknown*
Lansing - Engineer Service Co. - 1942 - 1944, Garlock-Ennis Co. - 1945-47, 1950
Garlock Insulation Co. - 1949-53, 1957

MINNESOTA

Duluth - A. W. Kuettel Co. - 1942 - 1947, Christofferson - 11/47 - 04/55, 1957
Ed H. Anderson Co. - Duluth - 5/60 - 10/62
Minneapolis - W. S. Nott Co. - 1927, 1931, 1939 - 1941, Asbestos Insulation & Supply
Co. - 04/40 - 08/60
St. Paul - Paul N. Abbott Co. - Unknown

MISSISSIPPI

Jackson - Stokes Engineering Inc. - 1950-52, 1957, Homer C. Porter Co. - 1949,
08/51 - 06/59

MISSOURI

Kansas City - Kelly Asbestos Products - 1939-47, 1949-53, 1957, Central Supply Co.
- 04/62 - Unknown*, Jamar-Olmen Construction - 07/60 - 07/62
St. Louis - Fleischer-Seeger Construction - 1951, 1957, F.O. Rutherford Insulation
Co. - 05/53 - 07/60, Insulating & Materials Corp. - 05/60 - Unknown*

NEBRASKA

Omaha - Holland Lumber Co. - 1931, 1939-41, Kelly Asbestos Products - 02/33 - Unknown*

NEW JERSEY

Collingswood - Geo. L. Moffett - 1949 - Unknown*

NEW MEXICO

Albuquerque - Sorenson Brick & Material - 1927, 1931

NEW YORK

Buffalo - Frontier Insulation & Roofing - 10/47 - Unknown*, Industrial Roofing &
Asbestos - 1946 - 1947, Industrial Insulation Sales - 09/57 - Unknown*
Jamestown - Laco Asbestos & Roofing Co. - 01/36 - Unknown*, New York - Amour Product
Inc. (Exports) - 1941 - 1946, Robert A. Keasby Co. (Insul. Dept.) - 11/26 - Unknown*
Port Chester - Asbestos Distributors Inc. - 05/34 - Unknown*
Rochester - Elmer W. Davis Inc. - 10/36 - Unknown*

NORTH CAROLINA

Charlotte - Guy M. Beatty Insulation - 1931, Southeastern Magnesia & Asbestos Co.
- 1939 - 1941

Greensboro - Starr Davis - 12/47 - Unknown*

Raleigh - Dillon Supply Co. - 1949 & 1953

OHIO

Akron - Asbestos Supply Co. - 02/48 - Unknown*

Cincinnati - R. E. Kramig & Co. - 1927 - Unknown*

Cleveland - Bodwell-Lemon Co. - 09/57 - Unknown*, Ohio Asbestos Insulation Co.
- Unknown - 07/57

Columbus - Earl E. Bright - 04/35 - Unknown*

Dayton - Crawford Insulation - 1949-53, 1957, Complete Insulation Co. - 01/58 - Unknown*

Lima - Asbestos Insulation Co. - 06/54 - Unknown*

Mansfield - Industrial Insulation Co. - 11/58 - Unknown*

Toledo - George L. Freeman Co. - 03/33 - Unknown*

Youngstown - Stanley P. Davis Co. - 1949-53, 1957, Barton Asbestos Insul. Co. -
01/55 - 09/58

OKLAHOMA

Oklahoma City - Kelly Asbestos Products - 1949, 1951-53, 1957

Tulsa - Kelly Asbestos Products - 1939-47, 1949, 1951-53, 1957

OREGON

Portland - Pacific Bldg. Materials - 1931, Pacific Asbestos & Supply - 09/31 - 09/36,
1939-47, 1949-53, 1957

PENNSYLVANIA

Bethlehem - Brown-Borhek Co. - 02/57 - 02/58

Erie - Laco-McMullen Co. - 09/54 - Unknown*

Johnstown - Quaker Sales Corp. - 1946-47, 1950-52, 1957

Kingston - Culp Industrial Insulation Co. - 08/54 - Unknown*

McKean - Erie Industrial Insulation Co. - 01/66 - Unknown*

Norristown - Asbestos Insulating Co. - 01/33 - Unknown*

Pittsburgh - Monahan Insulation Co. - 11/57 - Unknown*

SOUTH CAROLINA

Charleston - Cameron & Barkley Co. - 06/27 - 10/37, Stafford Insulation Co. - 04/64 - Unknown*

TENNESSEE

- Chattanooga - Breeding Insulation Co. - 1949, 1953, Hajoca Corporation - 1946-47, 1949-53, 1957, James Supply Co. - 1927, 1931, 1939-46, Railey Insulation - 1950-52, 1957
Knoxville - A. G. Heins Co. - 1927, 03/28-47, 1949-1953, 1957
Nashville - T. L. Herbert & Sons - 01/18-47, 1949-53, 1957
Memphis - Fischer Lime & Cement - 1927, 1931, 1939-47, 1949-53, 1957, Goheen Roofing & Insulation - 1949-53, 1957, Industrial Insulation Co. - 12/54 - 11/61

TEXAS

Dallas - Rogers Asbestos Co. - 1927, 1931
El Paso - Momsen-Dunnegan-Ryan Co. - 09/26-04/31, 1939-47, 1949-53, 1957
Fort Worth - E. O. Wood & Co. - 1942 - Unknown*
Houston - B & B Engineering - 10/45 - Unknown*, Rogers Asbestos Co. Inc. - 1927, 1931, Warren W. Bates - 1942 - 1946

UTAH

Salt Lake City - The Galiher Co. - 1927, 1931, Industrial Insulation Co. - 06/52 - Unknown*

VIRGINIA (See also District of Columbia)

Grundy - Buckhannon-Williamson Supply Co. - 1949-53, 1957
Norfolk - C. E. Thurston & Sons Inc. - 1950
Richmond - Virginia Insulation Co. Inc. - 09/37 - Unknown*

WASHINGTON

Seattle - Associated Asbestos & Magnesia Co. - 1949 & 1953, Pioneer Sand & Gravel Co. Inc. - 1931, 02/39 - 10/58, Charles R. Brower Co. - 1946-47, 1950
Spokane - Nott Atwater Co. - 1931, 1939-47, 1949 - 10/58, Associated Asbestos, Inc. - 07/51 - Unknown*
Tacoma - George Scofield - 02/29 - 03/58, Tacoma Asbestos Co. - 03/45 - Unknown*

WEST VIRGINIA

Charleston - Allied Services, Inc. - 08/58 - Unknown*, Capital City Supply Co. - 10/44 - Unknown*
Huntington - Banks Miller Supply - 1927, 04/30 - Unknown*
Williamson - Williamson Supply Co. - 1949 - 1953, 1957

WISCONSIN

Appleton - Bartelt Asbestos & Cork Co. - 12/44 - Unknown*
Green Bay - Bay Asbestos Co. - 1949, 05/50 - Unknown*
Madison - Johnson Insulation Co. - 06/47 - Unknown*
Milwaukee - Industrial Roofing & Insul. - 04/49 - Unknown*, Sprinkmann Sons Corp. - Unknown*
Racine - Badger Roofing & Siding - 02/44 - 08/57, Lehaco, Inc. - 09/57 - 07/59
Wausau - Asbestos Supply, Inc. - 04/47 - Unknown*

* All such agreements were terminated prior to the mid-1960's; however, our records are incomplete as to the exact date.

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

EXHIBIT

"D"

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

A. C. & S.
9601 Balmoral Avenue
Rosemont, IL 60018
Attn: L. B. McNabb

A. C. & S.
6 Enterprise Dr.
Savannah, GA 31402
Attn: E. J. Valence

A. C. & S.
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

Asbestos 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 Simmons

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, NE 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 Humphrey

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
McQueeney, 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

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 Company (Smith & Kanzler), a wholly-owned subsidiary of Dana Corporation, by way of a Stock Purchase 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 of 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.

Effective 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.

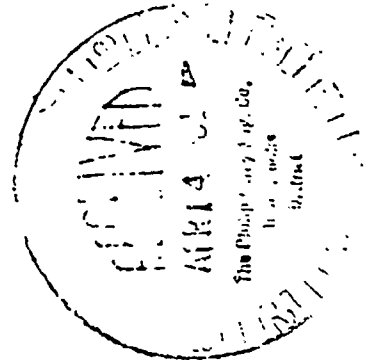
STATE OF INDIANA

Address Reply to:

Indiana State Board of Health
1310 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 F

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 "G"

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 MDDcf	MILLIGRAMS OF PARTICULATE 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 Precipita- tor 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 MDDcf	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

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.

EXHIBIT "H"

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

1.0000 1/32

ASBESTOS PAPER 1/32"

WEIGHT APPROX. **16** LBS. PER 100 SQ. FT.

ROLL WEIGHT _____

WIDTH 18"—24"—36"

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.)

STAND ON END • USE NO HOOKS

KEEP DRY — Store indoors on a raised platform



INDUSTRIAL

100

WARNING — These products contain asbestos fibers, 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.)

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.

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Sept. 13, 1976

11/74

ASBESTOS

(PAPER)

ROLLBOARD

1/8"

WEIGHT APPROX. 64 LBS. PER 100 SQ. FT.

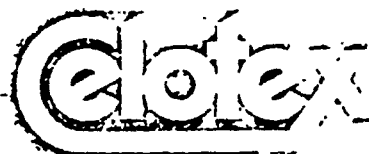
ROLL WEIGHT _____
WIDTH 18"—24"—36"

Complies with Air Management Regulation V — Philadelphia Department
Public Health — Air Pollution Control Board.

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.

CAUTION — Contains Asbestos Fibers Avoid Creating Dust
Breathing Asbestos Dust May Cause Serious Bodily Harm

STAND ON END • USE NO HOOKS



(3)

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



Celotex
**Industrial
Specialty
Products**

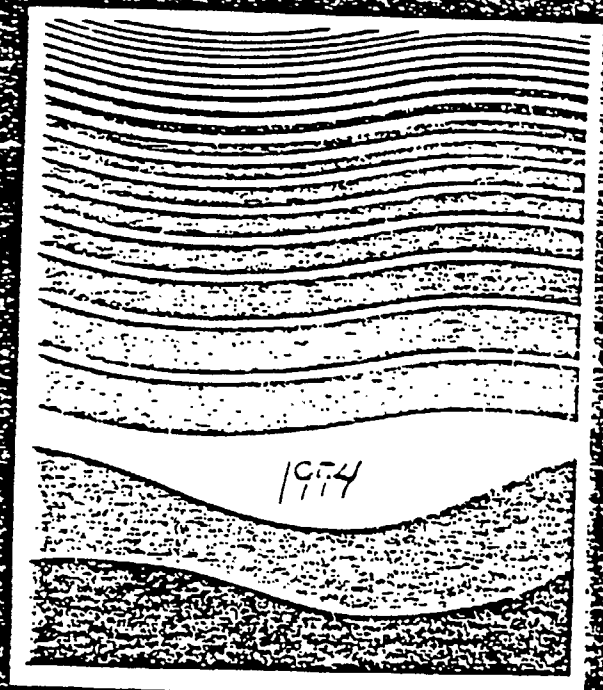
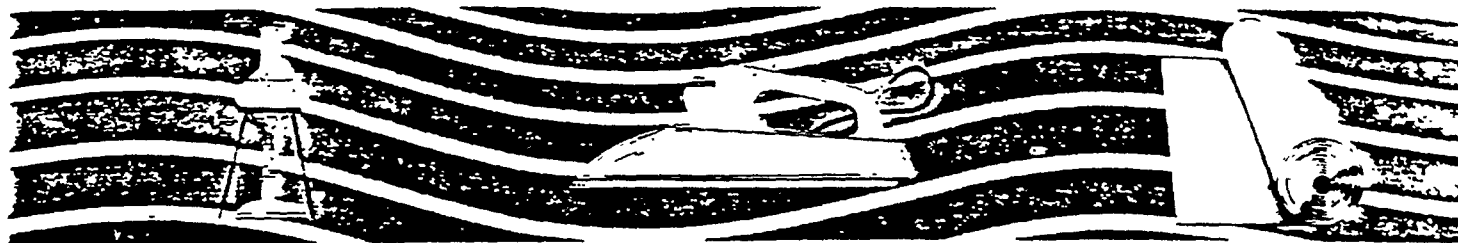


EXHIBIT "I"



Commercial Asbestos Paper and Rollboard

DESCRIPTION: Asbestos Paper and Rollboard are composed of Canadian asbestos fibre combined with a small quantity of extremely strong bonding material. A specially-equipped paper-making machine turns the stirred components into sheets. The sheets are thoroughly dried and, finally, calendared 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

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.

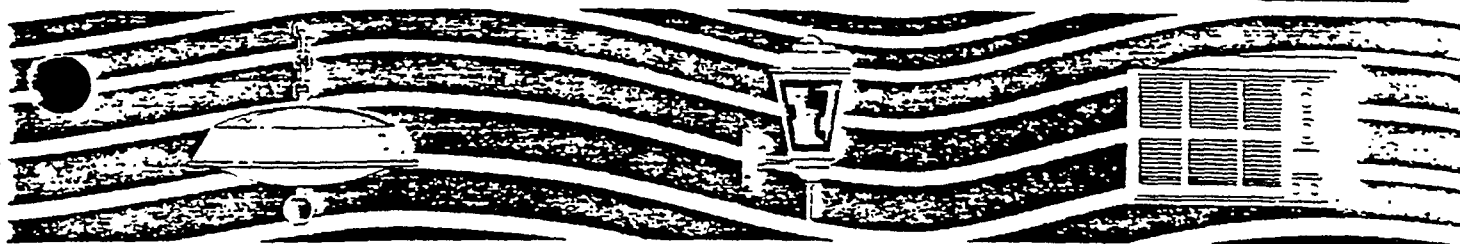
APPLICATIONS: Asbestos Paper and Rollboard are satisfactory for a great variety of purposes. The 6 and 8-lb. papers are used in the manufacture of various pipe and electrical insulations. The 10 and 12-lb. papers are used for wrapping hot air furnace pipes. Heavier weights are used for lining stoves,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

Other prospective applications for this material might include

Laboratory equipment insulators	Safes and strongboxes
Dental molding forms	Dry kiln insulators
Boiler jackets	Flooring base
Protected metal siding	Welding mats and insulators
Kitchen hot pads	Plastic roof system base
Table pads	Filing cabinet lining
Electrical appliances	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"
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	22-24
Thickness, Inches	.015	.018	.022	.025	.028	.032	.04
Tensile Strength, Dry Pounds, With Grain	14-16	14-16	14-16	15-17	16-18	16-18	15-20
Mullen Strength, Pounds	10	11	12	12	14	14	20
Moisture, Per Cent	3	3	3	3	3	3	3



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.

Underwriters Approved: Material available upon request.

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

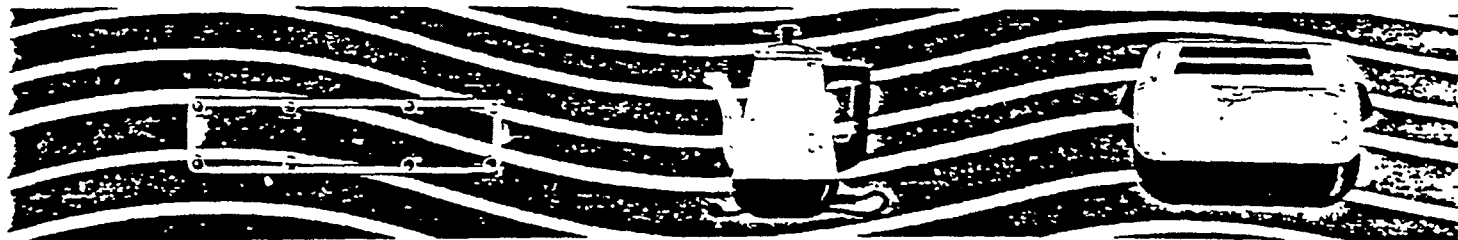
APPLICATIONS: Careyfoil is used in the construction of low and medium heat ovens for residential and commercial use. It is also used with furnaces and hot water heaters.

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" to 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	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**	66.5	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 cement 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

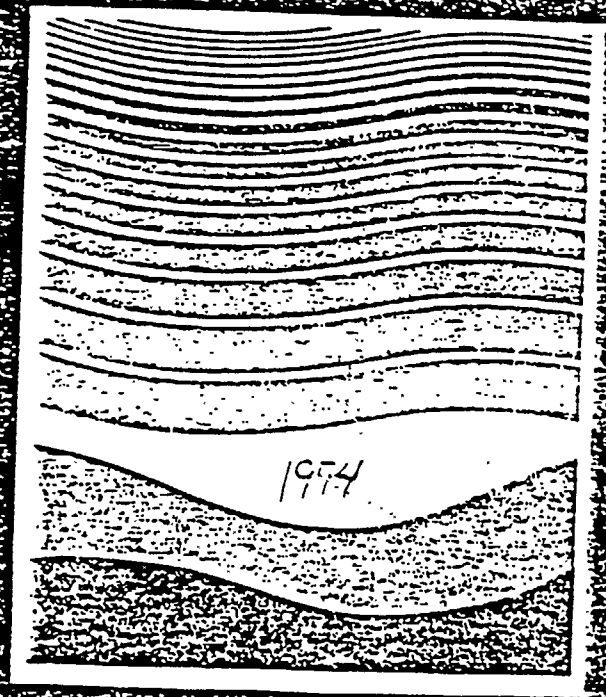
Safe and strongbox lining

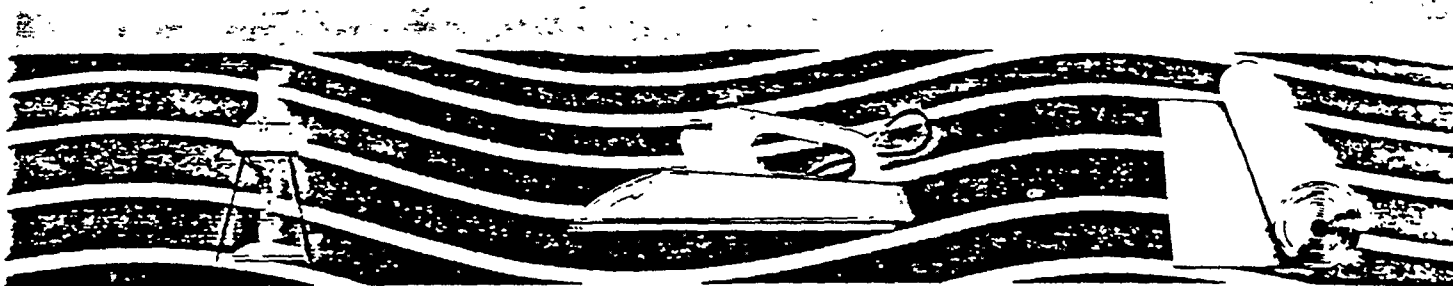
Electric switch box lining

Household appliances

Kiln lining

Celotex
**Industrial
Specialty
Products**





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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
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64	.125

TYPICAL CHARACTERISTICS COMMERCIAL ASBESTOS ROLLBOARD

	3/32"	1/8"
Weight, Pounds	48-52	57-67
Thickness, Inches	.094	.123
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Moisture, Per Cent	3	5

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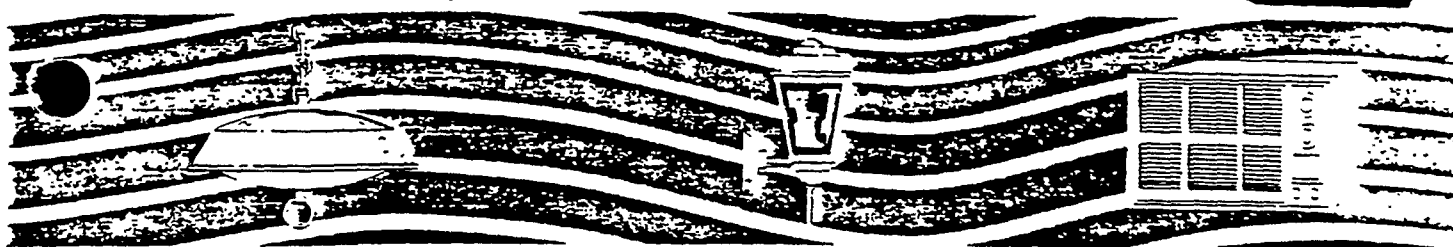
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Other prospective applications for this material might include:

Laboratory equipment insulators	Safes and strongboxes
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Asbestos Insulating Paper Specialties

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

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5/16	20.6	22.9
3/8	24.8	28.3
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5/8**	39.0	44.6
3/4**	44.5	50.9
1**	66.5	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 cellars, 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? _____

Who is present supplier? _____

Give competitive product identification _____

Approximate price now being paid _____

(FOLD, STAPLE AND MAIL)

FOLD HERE

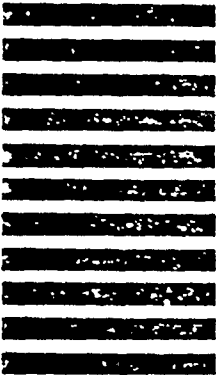
BUSINESS REPLY MAIL

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

THE CELOTEX CORPORATION

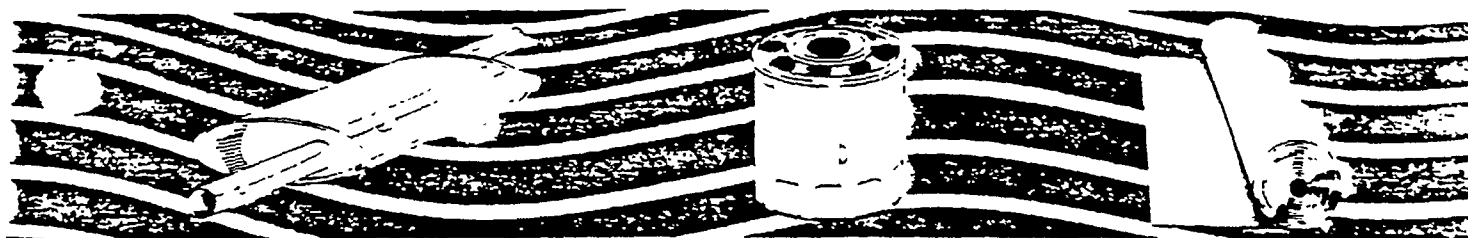
1500 NORTH DALE MABRY
TAMPA, FLORIDA 33622

FIRST CLASS
PERMIT #259
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 waterproofing 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 waisted, to provide greater overall caliber 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.



THE CELOTEX CORPORATION
TAMPA, FLORIDA 33622



Walter company

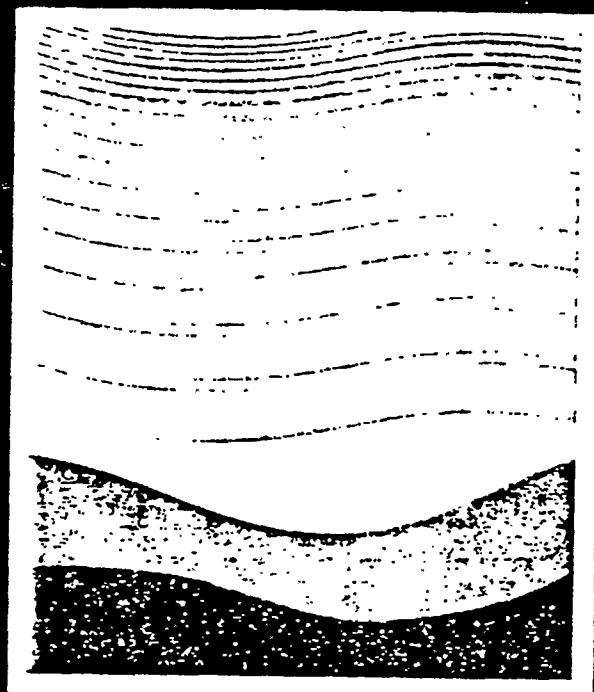
NORTHERN DIVISION
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FORM NO. 1070

PRINTED IN U.S.A.

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 bonding material. A special reduced speed 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 8 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 8", 24", 36" and 37 1/2". 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, With Grain, 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. With Grain, 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

** Values 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 and cemented to a flat backing sheet of the 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 (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.

CAREYFOIL

DESCRIPTION: Careyfoil is made from 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.

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 fibers mixed with bonding materials and formed in sheets. Commercial Millboard is produced in two grades, No. 1 Hard and No. 1 Medium. No. 1 Grade withstands temperatures up to 1000°F and No. 2 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 and 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 chemically resistant saturating type paper designed to be impregnated with heat setting resin. Saturated material is usually wrapped or bagged 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 and engine oil filters.

Flooring Felt — Saturated with high quality asphalt and painted one side with a primer, this product is used by flooring manufacturers as a base layer for enamel paint and 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. For selected for specific requirements, they are resilient, non-corrosive, fungus resistant and dimensionally stable.

FOR ADDITIONAL INFORMATION
CONTACT YOUR NEAREST
CELOTEX REGIONAL OFFICE.

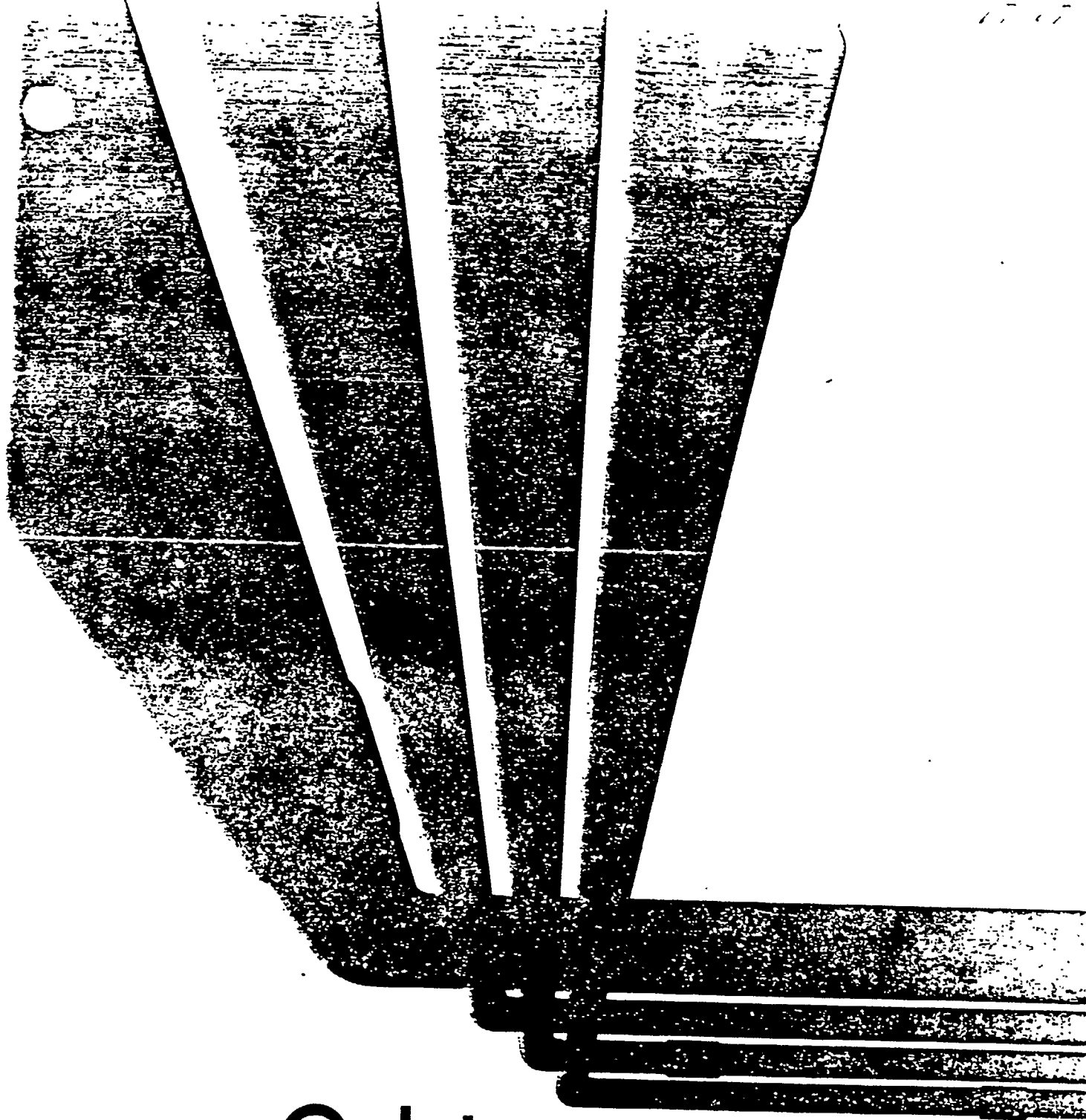


THE CELOTEX CORPORATION
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a  Jim Walter company

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TELEPHONE: 404/352-2128



Celotemp[®]
1500 Insulation
by Celotex

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

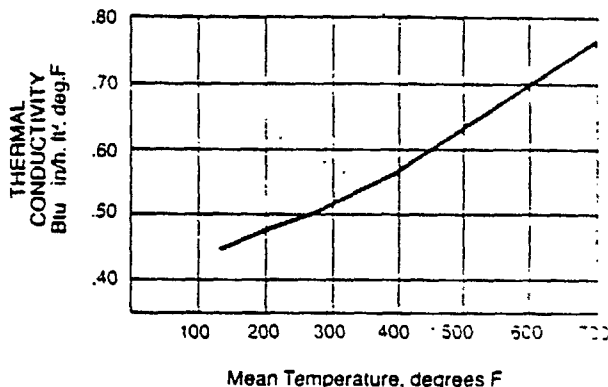
To insure total insulation throughout the system, the use of CELOTEMP premolded elbows is recommended. Premolded elbows help to eliminate voids and mitering segments, which helps reduce installation time and cost.

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	70
1500°F. for 24 hours	50
Water absorption (percent)	
By volume @ 90% relative humidity 4 weeks	30
By volume, immersed 24 hours	27
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

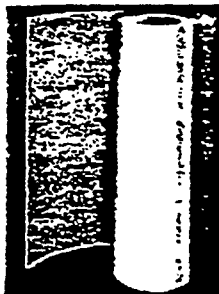
Copper tubing — ¾", 1", 1½", 2", 2½", 3" O.D. half sections
 Iron pipe — ¼" through 24" IPS, half sections
 Thickness — 1" through 3½", single layer
 Segmental — 12¾" wide curved sections through 60" O.D.
 Block insulation:
 Standard widths — 6", 12", and 24"
 Standard length — 36"
 Standard thickness — 1½" through 5", in ½" increments.

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. Carey 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.

Fireclad Jacketing is recommended for use in the process industries and in oil refineries, where it affords maximum resistance to the spread of fire — and further protects the insulated surface from weather damage. Furnished in approximately 45 lb. rolls 38" wide by 34'6" long, containing 108 sq. ft.



Asbestos Felt

Asbestos Felts in various weights are used to protect insulated piping and equipment from weather damage. The asbestos base of these felts is highly resistant to weather damage and provides long-lasting protection.

Asbestos Paper and Rollboard

Asbestos Paper and Rollboard are strong, flexible, fire-resistant sheets composed of pure Canadian asbestos fibre and free from hard, rocky particles. 8-lb. and 3-lb. Commercial Grade Asbestos Papers are used extensively in the manufacture of various pipe insulation and electrical insula-

tion. The 10-lb. 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. Furnished in standard widths of 18", 24", 36" and 37 1/4" rolls. Special sizes can be made to order.

Asbestos Millboard

Asbestos Millboard is made from pure Canadian asbestos fibre pulp mixed with binding materials and formed in sheets. Asbestos Millboard is used extensively in the electric heating field and glass industry. It is recommended for use in fire screens and partitions, as a fireproof lining for ceilings, walls, floors, elevator shafts, motion picture machine booths, ranges, stoves, grates, electric ovens, sterilizers and roasters. No. 7 grade withstands temperatures up to 300° F. No. 1 grade withstands temperatures up to 1000° F. Furnished in 42" x 48" sheets in thicknesses from 1/8" to 1".

Organic Felts

Organic Felts are available for economical weather-proofing of piping and equipment. They do not have the aging characteristics of asbestos but will provide years of satisfactory protection.

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 Sales Department

THE CELOTEX CORPORATION • TAMPA, FLORIDA 33622

Subsidiary of Jim Walter Corporation

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

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 fibered 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 troweling consistency.

Insulation Seal can be used on pipes, curves 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 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.

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INDUSTRIAL PRODUCTS

Industrial Sales Department 813/371-4575

**THE CELOTEX CORPORATION
TAMPA, FLORIDA 33622**

a Jim Walter company

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.
- *Weights 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

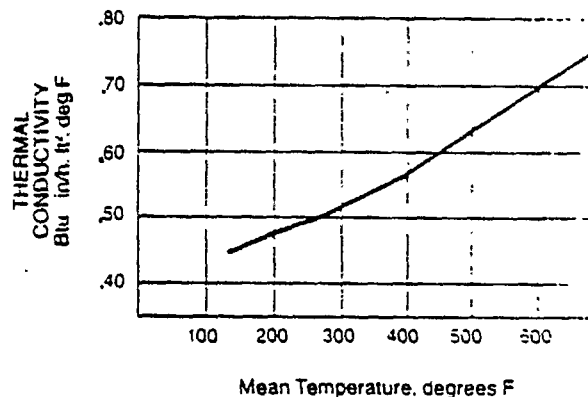
To insure total insulation throughout the system, the use of CELOTEMP premolded elbows is recommended. Premolded elbows help to eliminate voids and mitering segments, which helps reduce installation time and cost.

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 1000°F. Over 1500°F.
Density (dry)	10-13 lbs/cu ft.
Compressive strength	15% deformation 5000 psi
Linear shrinkage (percent)	
1200°F. for 24 hours	
1500°F. for 24 hours	
Water absorption (percent)	
By volume @ 90% relative humidity 4 weeks	
By volume, immersed 24 hours	
Acid resistance (after 24 hours immersion)	
25% sulfuric or hydrochloric acid	No effect



A.S.T.M. Specification C-610-6.

*All tests conducted according to standard ASTM test methods

Standard Sizes

Copper tubing — ¾", 1", 1½", 2", 2½", 3" O.D. sections
 Iron pipe — ¼" through 24" IPS, half sections
 Thickness — 1" through 3½", single layer
 Segmental — 12¾" wide curved sections through 60" O.D.
 Block insulation:
 Standard widths — 6", 12", and 24"
 Standard length — 36"
 Standard thickness — 1½" through 5", in ½" increments

Cements and Adhesives

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.

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 fibered 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.

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.



THE CELOTEX CORPORATION
TAMPA, FLORIDA 33622

a Jim Walter company

**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

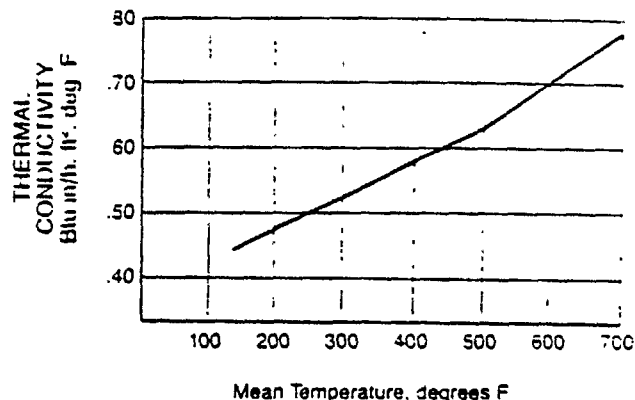
To insure total insulation throughout the system, the use of CELOTEMP premolded elbows is recommended. Premolded elbows help to eliminate voids and mitering segments, which helps reduce installation time and cost.

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 50 psi.
Linear shrinkage (percent)	
1200°F. for 24 hours	1.50
1500°F. for 24 hours	1.50
Water absorption (percent)	
By volume @ 90% relative humidity 4 weeks	1.30
By volume, immersed 24 hours	2.1
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

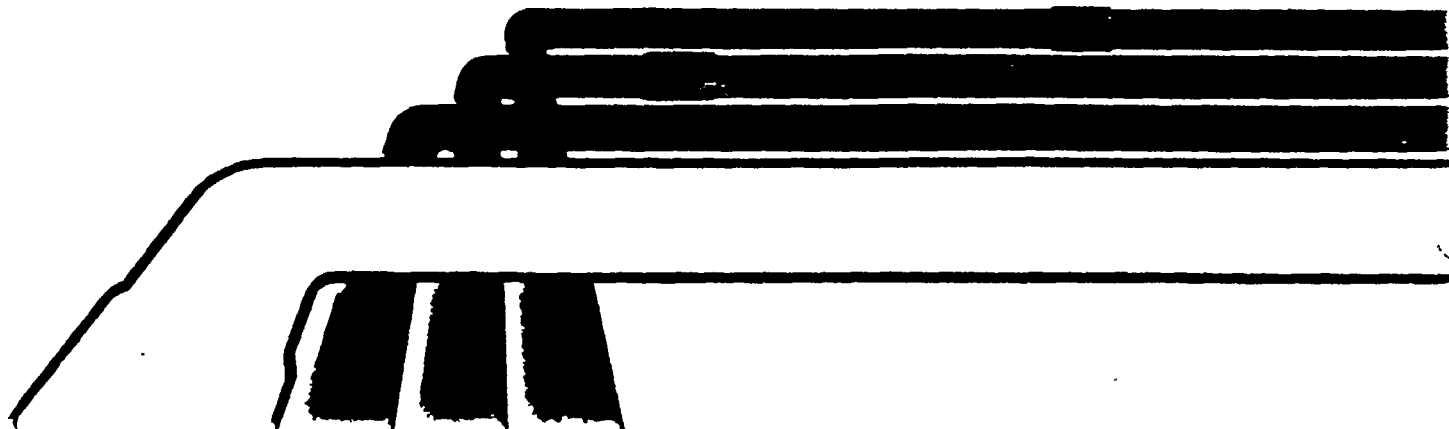
Standard Sizes

Pipe insulation—½" through 24" IPS, half sections
 Thickness—1" through 3", single layer
 Segmental—12¾" 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 fibers 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 to 1200°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 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 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.



Celotex

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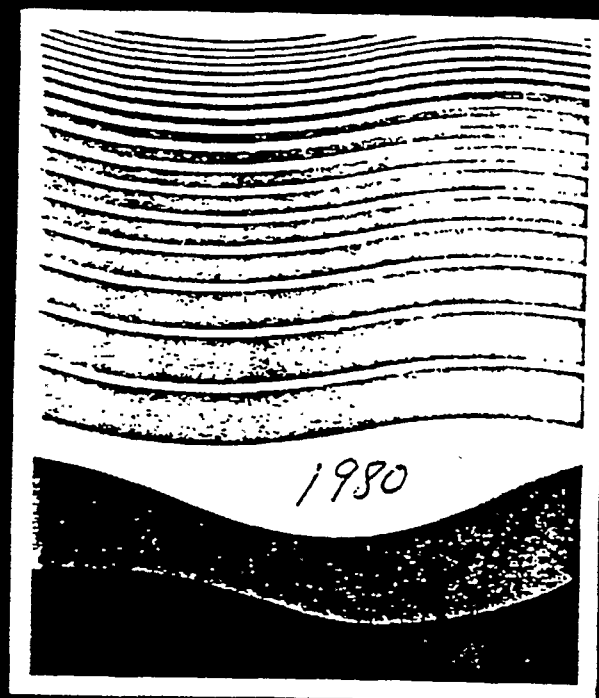
CelotexTM

INDUSTRIAL PRODUCTS
Industrial Sales Department (813) 871-4575

THE CELOTEX CORPORATION
TAMPA, FLORIDA 33622

a Jim Walter company

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 bonding material. A special reduced speed paper-making machine turns the slurred components into rolls. The material is thoroughly dried and finally calendered to a smooth finish. Asbestos Paper and Rollboard are strong, flexible, fire-resisting 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 With Grain 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 With Grain 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

** Values 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 and cemented to a flat backing sheet of the 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 insulating 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; the other 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 fiber pulp mixed with bonding materials and formed in sheets. Commercial Millboard is produced in two grades: No. 1 Hard and No. 1 Medium. No. 1 Hard Grade withstands temperatures up to 1000°F and No. 1 Medium 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

***Nominal 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.

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*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 and 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 with thermosetting resin. Saturated materials usually wrapped or folded 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 caliber 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 flooring manufacturers as a base layer for enamel print and 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 latexes selected for specific requirements. They are resilient, non-corrosive, fungus resistant and dimensionally stable.

FOR ADDITIONAL INFORMATION
CONTACT YOUR NEAREST
CELOTEX REGIONAL OFFICE.

Celotex THE CELOTEX CORPORATION
TAMPA, FLORIDA 33622

a Jim Walter company

**Industrial
paper and felt products.
Strong, versatile
and fire-resistant.**

clotex

Commercial Asbestos Paper and Rollboard.

Celotex Asbestos Paper and Rollboard products are strong, flexible, fire-resistant materials made from Canadian asbestos fiber and a small quantity of exceptionally strong binding material.

Processed to a smooth finish by a unique paper-making system, this popular line of industrial products has countless uses in a

wide range of industries. From being used in the manufacturing of insulation, to wrapping hot air furnace pipes, to various commercial uses.

Celotex Asbestos Paper and Rollboard vary only in thickness and width of rolls. They come in standard 12", 18", 24" and 36" widths. Special sizes can be made to order.

Standard weights and thicknesses of sheets are as follows:

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, Nominal	.015	.018	.022	.025	.028	.032	.060-.064
Tensile Strength, Dry Pounds/in. With 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

Typical Characteristics Commercial Asbestos Rollboard

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

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

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

Asbestos Millboard.

Used extensively in the electric heating and glass-making industries Celotex Asbestos Millboard is made from Canadian asbestos fiber pulp mixed with binding materials and formed in sheets.

It is produced in two grades: #1 Hard, withstands temperature to 1000°F and #7 Medium, withstands temperatures to 500°F. These two grades satisfy most requirements. However, special grades can be custom developed by Celotex. Asbestos Millboard with pin-point 'knurled' finish can also be supplied.

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

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	6.8
1/8	7.9	9.1
5/32	9.4	10.8
3/16	11.3	13.0
1/4	15.6	18.1
5/16	19.7	22.8
3/8	23.6	27.5
1/2	31.5	36.6
5/8††	37.6	43.8
3/4††	45.2	52.1
1††	60.2	69.8

**Typical weights.

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

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 and asbestosis. Smoking greatly increases the risk of serious bodily harm.

Celotex

a Jim Walter company

The Celotex Corporation, Tampa, Florida 33622

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME The Celotex Corp.		EMERGENCY TELEPHONE NO. 813-871-4295
ADDRESS (Number, Street, City, State, and ZIP Code) 1500 N. Dale Mabry, Tampa, Florida 33607		
CHEMICAL NAME AND SYNONYMS Asbestos, Starch, Cellulose	TRADE NAME AND SYNONYMS Asbestos Commercial Paper	
CHEMICAL FAMILY NA	FORMULA NA	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		NA	BASE METAL		NA
CATALYST		NA	ALLOYS		NA
VEHICLE		NA	METALLIC COATINGS		NA
SOLVENTS		NA	FILLER METAL PLUS COATING OR CORE FLUX		NA
ADDITIVES		NA	OTHERS		NA
OTHERS		NA			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
					NA

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	NA	SPECIFIC GRAVITY (H ₂ O=1)	NA
VAPOR PRESSURE (mm Hg.)	NA	PERCENT VOLATILE BY VOLUME (%)	NA
VAPOR DENSITY (AIR=1)	NA	EVAPORATION RATE (_____ = 1)	NA
SOLUBILITY IN WATER	NA		
APPEARANCE AND ODOR Gray Paper - No Odor			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	NA	FLAMMABLE LIMITS	Let	Uet
EXTINGUISHING MEDIA	Water-Dry Powder			
SPECIAL FIRE FIGHTING PROCEDURES				
Remove source of heat. Quench with water or powder. Ventilate area.				
UNUSUAL FIRE AND EXPLOSION HAZARDS				
None				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

Refer to 40 CFR 1910.93a

EFFECTS OF OVEREXPOSURE

*Chronic - possible asbestosis, possible carcinoma of lung, possible mesothelioma
Acute - may cause temporary respiratory problems.

EMERGENCY AND FIRST AID PROCEDURES

Remove to well ventilated area, apply resuscitatory measures if warranted.

SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

CONDITIONS TO AVOID
creating dust*

STABLE

INCOMPATIBILITY (Interacts strongly with)

Strong acids, alkalis and organic solvents.

HAZARDOUS DECOMPOSITION PRODUCTS--

NA

HAZARDOUS
POLYMERIZATION

MAY OCCUR

CONDITIONS TO AVOID
creating dust*

WILL NOT OCCUR

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF SPILL OR LEAK IS RELEASED OR SPILLS

Should dust* be formed then remove by vacuum cleaning or other suitable methods
that do not create airborne concentrations in excess of allowable limits.

WASTE DISPOSAL METHOD

See 40 CFR 1910.93a (h) (2)

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

See 40 CFR 1910.93a (d) (2)

VENTILATION -

LOCAL EXHAUST

See 40 CFR 1910.93a (c) (1) & (2)

MECHANICAL (General)

SPECIAL

OTHER

PROTECTIVE GLOVES

NA

EYE PROTECTION

Dust Goggles meeting latest ANSI Spec. Z

OTHER PROTECTIVE EQUIPMENT

See 40 CFR 1910.93a (d) (3)

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid creating of dust by fabricating with dull tools, abrasive techniques or
temperatures above 500°C.

OTHER PRECAUTIONS

Thorough review of 40 CFR 1910.93a by responsible person

U. S. DEPARTMENT OF LABOR
WAGE AND LABOR STANDARDS ADMINISTRATION
Bureau of Labor Standards

Form No. 100-1
May 1959

MATERIAL SAFETY DATA SHEET

VEHICLE NAME Metropolitan Refractories Corp. Tompkins Terminal Kearny, N.J. 07042		BETHLEHEM STEEL CORPORATION PURCHASE ORDER NO. 1533-502-45007-M REQUISITION NO. 0771-4 Insula Coating North Boiler Box	
MANUFACTURER'S NAME Philip Carey Co. - a division of Panacea Corp. 320 S. Wayne Ave., Cincinnati, O. 45215 ADDRESS (Number, Street, City, State, and ZIP Code)		SECTION I EMERGENCY TELEPHONE NO. 513-871-3000	
CHEMICAL NAME AND SYNONYMS Asphalt Emulsion		TRADE NAME AND SYNONYMS Thermolux-B FORMULA D-203	

SECTION II—HAZARDOUS INGREDIENTS					
PAINTS PRESERVATIVES AND SOLVENTS		%	TLV (Units)	ALLOYS AND METALLIC COATINGS	
PIGMENTS				BASE METAL	
CATALYST				ALLOYS	
VEHICLE		34		METALLIC COATINGS	
SOLVENTS		52		FILLER METAL PLUS COATING OR CORE FLUX	
ADDITIVES		14		OTHERS	
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
None					

SECTION III—PHYSICAL DATA			
BOILING POINT (°F.)	212° F.	SPECIFIC GRAVITY (H ₂ O=1)	1.08
VAPOR PRESSURE (mmHg.)	-	PERCENT VOLATILE BY VOLUME (%)	52%
VAPOR DENSITY AIR=1	-	EVAPORATION RATE (Water=1)	1
SOLUBILITY IN WATER			
APPEARANCE AND ODOR Brown mastic - odor free			

SECTION IV—FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (Method Used)	550° F. Cleveland Open	FLAMMABLE LIMITS	- -
EXTINGUISHING MEDIA	CO ₂ - Water		
SPECIAL FIRE FIGHTING PROCEDURES	None		
UNUSUAL FIRE AND EXPLOSION HAZARDS None			

SECTION V—HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	None
EFFECTS OF OVEREXPOSURE	None
EMERGENCY AND FIRST AID PROCEDURES	
None	

SECTION VI—REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	-X-	Temperatures below 32°F. and above 212°F.
INCOMPATIBILITY (Materials to avoid)			
HAZARDOUS DECOMPOSITION PRODUCTS			
None			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	-X-	

SECTION VII—SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
Water based material - no fire hazards. Clean up with water.	
WASTE DISPOSAL METHOD	
Dump in solid dump area. Do not put in sewerage system.	

SECTION VIII—SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type)			
None			
VENTILATION	LOCAL EXHAUST		SPECIAL
	MECHANICAL (General)	None	OTHER
PROTECTIVE GLOVES		EYE PROTECTION	
No		No	
OTHER PROTECTIVE EQUIPMENT			
None			

SECTION IX—SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Keep from freezing (less than 32°F.)	
OTHER PRECAUTIONS	

U.S. DEPARTMENT OF LABOR
WAGE AND LABOR STANDARDS ADMINISTRATION
Bureau of Labor Standards

MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER'S NAME Jin. Cololox Corporation		EMERGENCY TELEPHONE NO. 811-872-3295
ADDRESS 1500 N. Dale Mabry, Tampa, Florida 33607		
CHEMICAL NAME AND SYNONYMS Asbestos Millboard		TRADE NAME AND SYNONYMS Asbestos Millboard
CHEMICAL FAMILY		Asbestos Fibers and Cement

SECTION II. HAZARDOUS INGREDIENTS						
PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)	
PIGMENTS N/A			BASE METAL N/A			
CATALYST			ALLOYS			
VEHICLE			METALLIC COATINGS			
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX			
ADDITIVES			OTHERS			
OTHERS						
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES					%	TLV (Units)
N/A						

SECTION III. PHYSICAL DATA			
BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O = 1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR = 1)	N/A	EVAPORATION RATE (1 = 1)	N/A
SOLUBILITY IN WATER	N/A		
APPEARANCE AND ODOR Gray board - no odor			

SECTION IV. FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (Method used)	FLAMMABLE LIMITS	LC50	LD50
EXTINGUISHING MEDIA N/A - material will not burn.			
SPECIAL FIRE FIGHTING PROCEDURES			
UNUSUAL FIRE AND EXPLOSION HAZARDS			

THRESHOLD LIMIT VALUE

Refer to 40 CFR 1910.93a - asbestos copy attached.

EFFECTS OF OVEREXPOSURE

~~-(chronic) Possible asbestosis. Possible carcinoma of the lung and possible mesothelioma~~

EMERGENCY AND FIRST AID PROCEDURES

~~Acute overexposure of dust may cause temporary respiratory problems. Remove to well ventilated area and apply resuscitatory measures if warranted.~~

STABILITY

UNSTABLE

CONDITIONS TO AVOID

~~Creating dust~~

STABLE

X

INCOMPATIBILITY (Materials to avoid)

~~HAZARDOUS DECOMPOSITION PRODUCTS Strong acids and alkalis
None~~HAZARDOUS
POLYMERIZATION

MAY OCCUR

CONDITIONS TO AVOID

~~Creating dust~~

WILL NOT OCCUR

X

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

~~Should dust be formed then remove by vacuum cleaning or other suitable method that do not create airborne concentration in excess of allowable limits.~~

WASTE DISPOSAL METHOD

~~See 40 CFR 1910.93a (h) (2) attached~~

RESPIRATORY PROTECTION (Specify type)

See 40 CFR 1910.93 a(d) (2) attached

VENTILATION

LOCAL EXHAUST

See 40 CFR 1910.93a (c) (1) (ii)

SPECIAL

MECHANICAL (General)

OTHER

PROTECTIVE CLOVES

N/A

EYE PROTECTION

Dust goggles meeting latest ANSI Specification Z87.1

OTHER PROTECTIVE EQUIPMENT 1910.93a (d) (3)

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

~~Avoid breaking with consequent release of dust~~

OTHER PRECAUTIONS

~~Thorough review of 40 CFR 1910.93a by responsible personnel~~

U.S. DEPARTMENT OF LABOR
WAGE AND LABOR STANDARDS ADMINISTRATION
Bureau of Labor Standards

MATERIAL SAFETY DATA SHEET

SECTION I	
MANUFACTURER'S NAME Phillips Cement Company	EMERGENCY TELEPHONE NO. 513-821-3000
ADDRESS (Number, Street, City, State, and ZIP Code) Cincinnati, Ohio 45215	
CHEMICAL NAME AND SYNONYMS Mineral Wool Cement	TRADE NAME AND SYNONYMS MW-50 Cement
CHEMICAL FAMILY Silicate	FORMULA

SECTION II HAZARDOUS INGREDIENTS			
PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS
PIGMENTS None			BASE METAL None
CATALYST "			ALLOYS "
VEHICLE "			METALLIC COATINGS "
SOLVENTS "			FILLER METAL PLUS COATING OR CORE FLUX "
ADDITIVES "			OTHERS
OTHERS			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
MW-50 Cement does not constitute a health hazard other than a		
"nuisance" dust.		

SECTION III PHYSICAL DATA			
BOILING POINT (°F.) Non Volatile		SPECIFIC GRAVITY (H ₂ O=1) 0.2	
VAPOR PRESSURE (mm Hg.) Dry Solid		PERCENT VOLATILE BY VOLUME (%) Non Volatile	
VAPOR DENSITY (AIR=1) Dry Solid		EVAPORATION RATE (_____/hr) Dry Solid	
SOLUBILITY IN WATER Insoluble			
APPEARANCE AND ODOR Grey color - odorless			

SECTION IV FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (Method used) Incombustible	FLAMMABLE LIMITS NA	- Lel	Uel
EXTINGUISHING MEDIA None required			
SPECIAL FIRE FIGHTING PROCEDURES - None required -			
UNUSUAL FIRE AND EXPLOSION HAZARDS None			

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE 50 MPPCF (Nuisance dust source)
EFFECTS OF OVEREXPOSURE Not applicable

EMERGENCY AND FIRST AID PROCEDURES None required

SECTION VI REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	

INCOMPATIBILITY (Materials to avoid) Completely inert

HAZARDOUS DECOMPOSITION PRODUCTS None

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

Avoid breathing nuisance dust.

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Normal clean up methods

WASTE DISPOSAL METHOD Standard disposal methods - no precautions required.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) Standard M. S. A. respirator for nuisance dust.

VENTILATION	LOCAL EXHAUST	Standard ventilating system	SPECIAL	None
	MECHANICAL (General)		OTHER	

PROTECTIVE GLOVES	Not required	EYE PROTECTION	Safety glasses recommended. Dust is irritating to eyes.
OTHER PROTECTIVE EQUIPMENT	None required.		

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

None

OTHER PRECAUTIONS

OWENS-ILLINOIS
PROPERTIES OF PLASTIC INSULATIONS

BRAND NAME MW-50

BASE Mineral Wool

MANUFACTURER Phillip Carey Mfg. Co.

SHIPPING POINT Lockland, Ohio

PHYSICAL PROPERTIES

Date March 27, 1966

Maximum Recommended Temperature	1800° F	
Dry Coverage	45 - 50	
Volumetric Shrinkage During Drying	17 - 20%	
Weight / Cu. Ft. - Installed and Dried	2.5 - 2.6 lbs./cu. ft.	
Compressive Strength @ 10% Deformation	35 psi	
Fire Resistance	Indefinite	
Corrosion Effect on Ferrous Metals	None	
Reclaimability	Reclaimable	
Water for Mixing	11 - 12 gal./cu. ft.	
Color After Drying	Gray	
Thermal Conductivity		
BTU/Hr./Ft. ² /°F/In.		
	@ 200° F	.48
	@ 400° F	.62
	@ 600° F	.74
	@ 800° F	.83
	@ 1000° F	.92
	@ 1200° F	
	@ 1400° F	
	@ 1600° F	
	@ 1800° F	

CHEMICAL ANALYSIS (Dry Basis)

		<u>MW-50</u>	<u>MW-60</u>
SiO ₂	Silica Dioxide	45.08%	47.88
Al ₂ O ₃	Aluminum Oxide	9.03	9.78
Fe ₂ O ₃	Iron	20.01	4.30
CaO	Calcium	0.57	23.27
MgO	Magnesium Oxide	7.30	3.50
Cr ₂ O ₃	Chromium	None	Trace
ZrO ₂	Zirconium	.13	
Na ₂ O	Sodium Oxide	.97	
K ₂ O	Potassium Oxide	.12	
TiO ₂	Titanium Dioxide	.10	✓
Ign. Loss		4.63	5.60
Other		-	
Elemental Sulfur		.54%	.57
Soluble Chlorides			.029

Above given to me by A.P.M.
on 12/14/72.

100-1000

MATERIAL SAFETY DATA SHEET

U. S. DEPARTMENT OF LABOR "ESSENTIALLY SIMILAR" TO FORM L28-008-4

SECTION I

MANUFACTURER'S NAME <u>Philip Carey Co.</u>		EMERGENCY TELEPHONE NO. <u>513-821-3500</u>
ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE) <u>320 S. Wayne Ave. Cincinnati, Ohio 45215</u>		
CHEMICAL NAME AND SYNONYMS <u>None</u>		TRADE NAME AND SYNONYMS <u>Thermotex B - Asphalt Adhesive</u>
CHEMICAL FAMILY <u>N/A*</u>	FORMULA <u>N/A*</u>	

SEE ATTACHMENT

SECTIONS II HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (UNITS)	ALLOYS AND METALLIC COATINGS	%	TLV (UNITS)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES					TLV (UNITS)
Asbestos					13
Potassium Dichromate					1/2
Acetic Acid					1/2

SECTION III PHYSICAL DATA

BOILING POINT (°F.)	N/A*	SPECIFIC GRAVITY (H ₂ O=1)	N/A*
VAPOR PRESSURE (MM HG.)	N/A*	PERCENT VOLATILE BY VOLUME (%)	N/A*
VAPOR DENSITY (AIR = 1)	N/A*	EVAPORATION RATE (AIR = 1)	N/A*
SOLUBILITY IN WATER	None		
APPEARANCE AND ODOR <u>Black - No Odor</u>			

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED) <u>400°F Closed Cup</u>	FLAMMABLE LIMITS <u>N/A*</u>	LEL	UEL
EXTINGUISHING MEDIA <u>Foam Dev Chemical, Carbon Dioxide</u>			
SPECIAL FIRE FIGHTING PROCEDURES <u>None</u>			
UNUSUAL FIRE AND EXPLOSION HAZARDS <u>None</u>			

N/A* - Not Applicable

SECTION V HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	Not Applicable since material is not airborne
EFFECTS OF OVEREXPOSURE	
EMERGENCY AND FIRST AID PROCEDURES	

Not Applicable		SECTION VI REACTIVITY DATA	Not Applicable	
STABILITY	UNSTABLE		CONDITIONS TO AVOID	
	STABLE			
INCOMPATIBILITY (MATERIALS TO AVOID)				
HAZARDOUS DECOMPOSITION PRODUCTS				
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID	
	WILL NOT OCCUR			

SECTION VII SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	None
WASTE DISPOSAL METHOD	Wash with Water

Not Applicable		SECTION VIII SPECIAL PROTECTION INFORMATION	Not Applicable	
RESPIRATORY PROTECTION (SPECIFY TYPE)				
VENTILATION	LOCAL EXHAUST		SPECIAL	
	MECHANICAL (GENERAL)		OTHER	
PROTECTIVE GLOVES			EYE PROTECTION	
OTHER PROTECTIVE EQUIPMENT				

SECTION IX SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
None	
OTHER PRECAUTIONS	None

N/A - Not Applicable

Attachment to Material Safety Data Sheet - Thermotex-B

Thermotex-B is a heavy trowelable water-base asphaltic emulsion used as a waterproofing coating. It is extremely difficult, if not impossible, to spray apply this material. Since Thermotex-B will not be airborne during application or use, it is our belief that it is not a product described in the list supplied in the Occupational Safety and Health Act of 1971 and hence, the forms supplied are not actually needed. We trust, however, that the forms herein returned will suffice until such time as a meaningful list and description of "hazardous substances" for non-airborne applications becomes available.

The three materials shown in Section II are the only ingredients of Thermotex-B which appear in the lists entitled "Air Contaminants". Since the asbestos fiber in Thermotex-B is fully encapsulated by asphalt and the acetic acid and potassium dichromate are dissolved in the water used as a vehicle, it is impossible for them to become "Air Contaminants".

THE CELOTEK CORPORATION
CONSOLIDATED BALANCE SHEET
AUGUST 31, 1987

		<u>\$000</u>
<u>A S S E T S</u>		
Cash	7,628	
Trade & Other Receivables - Net	123,292	
Inventories	42,754	
Prepaid Expenses	<u>2,336</u>	
Total Current Assets		176,010
Intercompany Receivables	58,338	
Property, Plant & Equipment - Net	118,793	
Other Investments	60	
Other Long Term Assets	<u>188</u>	
TOTAL ASSETS		<u>353,389</u>

<u>L I A B I L I T I E S</u>		
Accounts Payable	34,480	
Accrued Expenses	86,603	
Income Taxes - Current	3,810	
Intercompany Payables	48,103	
Income Taxes - Deferred	10,349	
Long Term Debts	12,709	
Accrued Pension & Other L.T. Liabilities	11,793	
Stockholders Equity	<u>145,542</u>	
TOTAL LIABILITIES & EQUITY		<u>353,389</u>

EXHIBIT "M"

THE CELOTEX CORPORATION
CONSOLIDATED BALANCE SHEET
AUGUST 31, 1986

\$000

A S S E T S

Cash	578	
Trade & Other Receivables - Net	124,647	
Inventories	44,663	
Prepaid Expenses	<u>2,086</u>	
Total Current Assets		171,974
Intercompany Receivables	42,832	
Property, Plant & Equipment - Net	126,929	
Other Investments	60	
Other Long Term Assets	<u>59</u>	
TOTAL ASSETS		<u>341,854</u>

L I A B I L I T I E S

Accounts Payable	29,384	
Accrued Expenses	87,818	
Income Taxes - Current	2,260	
Intercompany Payables	59,198	
Income Taxes - Deferred	11,820	
Long Term Debts	13,004	
Accrued Pension & Other L.T. Liabilities	14,420	
Stockholders Equity	<u>123,950</u>	
TOTAL LIABILITIES & EQUITY		<u>341,854</u>

THE CELOTEX CORPORATION
CONSOLIDATED BALANCE SHEET
AUGUST 31, 1985

		<u>\$000</u>
	<u>A S S E T S</u>	
Cash	4,047	
Trade & Other Receivables - Net	166,635	
Inventories	62,117	
Prepaid Expenses	<u>1,388</u>	
Total Current Assets		234,187
Intercompany Receivables	55,537	
Property, Plant & Equipment - Net	155,599	
Other Investments	1,084	
Other Long Term Assets	<u>73</u>	
TOTAL ASSETS		<u>446,480</u>

	<u>L I A B I L I T I E S</u>	
Accounts Payable	55,230	
Accrued Expenses	69,559	
Income Taxes - Current	1,746	
Intercompany Payables	162,445	
Income Taxes - Deferred	19,712	
Long Term Debts	13,326	
Accrued Pension & Other L.T. Liabilities	15,207	
Stockholders Equity	<u>109,255</u>	
TOTAL LIABILITIES & EQUITY		<u>446,480</u>

LINE

08/31/84

DATE

THE CELCTEX CORPORATION

(COMPANY OR DIVISION)

FS SCHEDULE 2
BALANCE SHEET
(\$ IN THOUSANDS)

	Key Code	(A) CURRENT YEAR THIS MONTH	(B) CURRENT YEAR LAST MONTH	(C) PRIOR YEAR THIS MONTH
<u>LIABILITIES & STOCKHOLDERS' EQUITY</u>				
Current Liabilities:				
32 Short-term notes payable	2320			
33 Current portion of long-term debt (FS 7-A)	2330	134	134	29
34 Accounts payable	2340	32,281	24,793	22,976
35 Accrued expenses (FS 7-C)	2350	55,366	35,064	41,760
36 Federal income tax - current	2360		3,942	
37 Federal income tax - future	2370	1,506-	1,476-	1,476-
38 State income tax - current	2380	1,440	1,900	921
39 Total Current Liabilities		88,215	64,558	70,210
40 Intercompany payables (FS 5-B)	2400	191,007	136,183	214,483
41 Future federal income tax	2410	22,819	34,292	32,994
42 Future state income tax	2420			
43 Notes payable maturing after one year (FS 7-A)	2430	12,960	12,961	13,177
44 Subordinated and unsecured debt maturing after one year	2440			
45 Accrued pension & other long-term liabilities (FS 7-B)	2450	11,682	11,720	12,566
Stockholders' Equity				
46 Non-convertible preferred stock	2460			
47 Convertible preferred stock	2470			
48 Common stock	2480			
49 Capital stock of subsidiaries	2490	6,156	6,156	6,156
50 Capital in excess of par value	2500	25,884	25,884	25,884
51 Retained earnings (LINE 29, FS 1)	2510	73,962	82,918	20,092
52 Treasury stock	2520			
53 Total Stockholders' Equity		106,002	120,957	112,132
54 TOTAL LIABILITIES & STOCKHOLDERS' EQUITY		432,691	430,730	455,570

Trade Receivables Days Outstanding

4250

55

12/31/94
DATE

THE PELOTEY CORPORATION
(COMPANY OR DIVISION)

FS SCHEDULE 2
BALANCE SHEET
(\$ IN THOUSANDS)

LINE
#

	ASSETS	Key Code	(A) CURRENT YEAR THIS MONTH	(B) CURRENT YEAR LAST MONTH	(C) PRIOR YEAR THIS MONTH
	Current Assets:				
1	Cash	2010	14,032-	7,792-	11,61
2	Marketable securities	2020			
3	Installment notes receivable	2030			
4	Less: Reserve for possible losses	2040			
5	Unearned time charges	2050			
6	Net	2060			
7	Current trade receivables (FS 8-B)	2070	131,664	110,893	119,063
8	Less: Reserve for possible losses	2080	4,672	4,331	5,568
9	Net		126,991	106,562	113,495
10	Other current receivables (FS 6-A)	2100	19,324	17,789	15,699
11	Less: Reserve for possible losses	2110			
12	Net		19,324	17,789	15,699
	Inventories:				
13	Finished goods	2130	18,378	19,827	24,600
14	Goods in process	2140	1,888	2,218	2,440
15	Raw materials	2150	17,668	23,051	22,496
16	Supplies	2160	13,125	14,166	13,778
17	Houses held for resale	2170			
18	Total		51,059	59,262	63,314
19	Prepaid expenses and other current assets (FS-6B)	2190	1,481	754	1,997
20	Total Current Assets		184,815	173,073	192,991
21	Intercompany receivables (FS 5-A)	2210	3,890	5,229	5,326
	Property, plant and equipment:				
22	Land, including mineral deposits and timber	2220	9,841	9,665	9,859
23	Plant and equipment	2230	302,199	301,757	315,180
24	Less: Accum. depreciation, depletion & amort.	2240	164,012	163,005	159,495
25	Net		148,018	148,417	165,544
	Investments:				
26	Consolidated subsidiaries	2260	94,797	102,708	102,708
27	First Brentwood Corporation	2270			
28	Other (FS 6-C)	2280	1,088	1,206	992-
29	Unamortized debt expense	2290	46	46	52
30	Other long-term assets (FS 6-D)	2300	37	50	39
31	TOTAL ASSETS		432,691	430,730	455,568

08/31/83
DATE

THE CELESTEX CORPORATION
(COMPANY OR DIVISION)

FS SCHEDULE 2
BALANCE SHEET
(\$ IN THOUSANDS)

LINE

ASSETS

	Key Code	(A) CURRENT YEAR THIS MONTH	(B) CURRENT YEAR LAST MONTH	(C) PRIOR YEAR THIS MONTH
Current Assets:				
1	Cash	2010 11,614-	11,278-	10,200
2	Marketable securities	2020		
3	Installment notes receivable	2030		
4	Less: Reserve for possible losses	2040		
5	Unearned time charges	2050		
6	Net	2060		
7	Current trade receivables (FS 8-B)	2070 119,063	104,992	107,950
8	Less: Reserve for possible losses	2080 5,568	5,894	5,310
9	Net	113,495	99,098	102,640
10	Other current receivables (FS 6-A)	2100 15,699	13,804	11,530
11	Less: Reserve for possible losses	2110		
12	Net	15,699	13,804	11,530
Inventories:				
13	Finished goods	2130 24,600	26,729	19,220
14	Goods in process	2140 2,440	2,427	3,630
15	Raw materials	2150 22,496	22,134	19,190
16	Supplies	2160 13,778	13,925	14,060
17	Houses held for resale	2170		
18	Total	63,314	65,214	56,120
19	Prepaid expenses and other current assets (FS-6B)	2190 1,997	2,328	2,560
20	Total Current Assets	182,891	169,165	162,570
21	Intercompany receivables (FS 5-A)	2210 5,326	6,140	3,760
Property, plant and equipment:				
22	Land, including mineral deposits and timber	2220 9,859	9,666	9,859
23	Plant and equipment	2230 315,180	319,082	319,887
24	Less: Accum. depreciation, depletion & amort.	2240 159,495	161,093	148,319
25	Net	165,544	167,655	181,428
Investments:				
26	Consolidated subsidiaries	2260 102,708	90,312	84,102
27	First Brentwood Corporation	2270		
28	Other (FS 6-C)	2280 992-	994-	270
29	Unamortized debt expense	2290 52	53	58
30	Other long-term assets (FS 6-D)	2300 39	48	48
31	TOTAL ASSETS	455,568	432,379	431,947

08/31/93
DATE

THE CELTECH CORPORATION
(COMPANY OR DIVISION)

FS SCHEDULE 2
BALANCE SHEET
(\$ IN THOUSANDS)

LINE

LIABILITIES & STOCKHOLDERS' EQUITY

	Key Code	(A) CURRENT YEAR THIS MONTH	(B) CURRENT YEAR LAST MONTH	(C) PRIOR YEAR THIS MONTH
Current Liabilities:				
32	Short-term notes payable	2320		
33	Current portion of long-term debt (FS 7-A)	2330 29	27	
34	Accounts payable	2340 29,976	23,889	30,1
35	Accrued expenses (FS 7-C)	2350 41,760	32,657	38,0
36	Federal income tax - current	2360	954	
37	Federal income tax - future	2370 1,476	1,551	1,5
38	State income tax - current	2380 921	670	74
39	Total Current Liabilities	70,210	56,645	67,37
40	Intercompany payables (FS 5-B)	2400 214,483	195,392	185,03
41	Future federal income tax	2410 32,994	36,302	33,99
42	Future state income tax	2420		
43	Notes payable maturing after one year (FS 7-A)	2430 13,177	13,180	13,25
44	Subordinated and unsecured debt maturing after one year	2440		
45	Accrued pension & other long-term liabilities (FS 7-B)	2450 12,568	12,784	13,58
Stockholders' Equity				
46	Non-convertible preferred stock	2460		
47	Convertible preferred stock	2470		
48	Common stock	2480		
49	Capital stock of subsidiaries	2490 6,156	6,156	6,150
50	Capital in excess of par value	2500 25,884	25,884	25,884
51	Retained earnings (LINE 29, FS 1)	2510 80,098	86,036	86,670
52	Treasury stock	2520		
53	Total Stockholders' Equity	112,138	118,075	118,710
54	TOTAL LIABILITIES & STOCKHOLDERS' EQUITY	455,570	432,379	431,94

Trade Receivables Days Outstanding

4250 56

FREDERICK M. BARON
RUSSELL W. BUDD*
BRENT M. ROSENTHAL
JANE N. SAGINAW
BRIAN D. WEINSTEIN
SARAH J. CLARK
LISA A. BLUE, PH.D.
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May 4, 1989

VIA TELECOPY & U.S. MAIL

Ms. Elizabeth Thompson
Butler & Binion
1600 First Interstate Bank Plaza
1000 Louisiana
Houston, TX 77002-5008

FILE COPY

RE: BRENDA OBORIL

Dear Liz:

Please send me your answer to interrogatories served on Defendant, The Celotex Corporation in this case. This case is set for trial May 15, 1989. Please contact me so that we can avoid a Motion to Compel on this issue.

Please contact me if you have any questions.

Sincerely,

BARON & BUDD



RUSSELL W. BUDD

RWB/teh
LTR104/007(2)

[illegible]

24- 187 9 9440 77 67
24- 187 9 9440 77 67
24- 187 9 9440 77 67

WASHINGTON, D. C. 20506
203 496 00-0

Please Use A Felt Tip Pen

NAME: Donna Hunt

Sharon Lester

513189

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May 5, 1989

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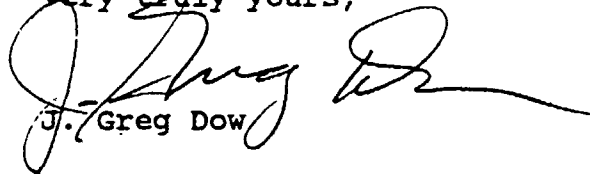
Mr. Russell Budd
BARON & BUDD
8333 Douglas Ave., 10th Floor
Dallas, TX 75225

Re: Thomas J. O'Boril v. National Gypsum Co., et al; In the
192nd Judicial District Court of Dallas County, Texas.

Dear Mr. Budd:

Enclosed please find the supplemental report of our expert Dr. Robert M. O'Neal on the above referenced matter. This report serves as Celotex' supplemental response to your previous discovery requests, in accordance with Rule 166b(6) of the Texas Rules of Civil Procedure.

Very truly yours,


J. Greg Dow

GRDO:kb
enclosure

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WASHINGTON, D.C. 20006
202 462 5800

May 3, 1989

VIA FACSIMILE

Ms. Donna Hunt
Baron & Budd
8333 Douglas Ave.
10th Floor
Dallas, TX 75225

RE: Brenda Oboril

Dear Donna:

Confirming our telephone conversation of earlier today, would appreciate a two-week extension for filing our Answers to Interrogatories. This would make them due on May 5, 1989. This letter also confirms that we have not waived any objections to the Interrogatories.

If you have any questions, please contact me at 713-237-2018. Thank you for your cooperation.

Sincerely,

Sharon Lester
Sharon Lester
Legal Assistant

t1\hunt.scl\rms
enclosure

ATTORNEYS AT LAW
A PARTNERSHIP INCLUDING
PROFESSIONAL CORPORATIONS

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May 5, 1989

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Mr. Russell Budd
Baron & Budd
8333 Douglas Avenue, 10th Floor
Dallas, Texas 75225

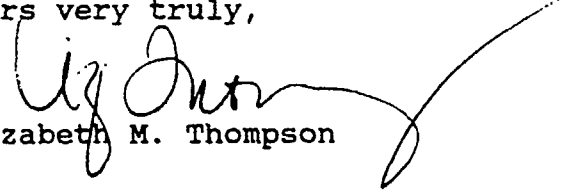
Re: No. 8707665-K; Brenda Oboril, et al v. National
Gypsum, et al; In the 192nd Judicial District Court of
Dallas County, Texas

Dear Russell:

Please find enclosed The Celotex Corporation's Answers to
Plaintiff's First Set of Interrogatories in the above-referenced
cause.

If you have any questions, please feel free to call.

Yours very truly,


Elizabeth M. Thompson

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Enclosures