COMPLETE LINE OF PRODUCTS AND SPECIAL TECHNICAL SERVICES OFFERED INDUSTRY BY UNITED STATES GYPSUM COMPANY

INDUSTRIAL ASBESTOS INSULATION MATERIALS

CHEMICAL LIME PRODUCTS

INDUSTRIAL GYPSUM PRODUCTS

ROOFING AND SIDEWALL MATERIALS

Asphalt Shingles — Roll Roofing
Asbestos Cement Roof Shingles and Siding

PLASTER AND STUCCO

Red Top* Gypsum Plaster — Red Top Lime
Oriental* Interior Stucco — Oriental Exterior Stucco
Red Top Keene's Cement

LATHING MATERIALS

Perforated and Plain Rocklath* — Red Top Metal Lath
Insulating Rocklath — Metal Lath Accessories
Weatherwood* Plaster Base — Metal Lath Resilient Plastering System
Rocklath Resilient Plastering System — Bridjoint Plastering System

PAINT PRODUCTS

Econo-Brite Industrial Casein Paste Paint — Cold Water Calcimine
Texolite* — Textone*
Cementico* (Cold Water Cement Paint) — Kal* (Hot Water Calcimine)
Duracal* Powder Casein Paint — Interior Cold Water Paint

SOUND CONTROL SERVICE

USG* offers a full range of materials for sound control, including
Acoustone* — Perfa-vent — Perfatone — Quietone
Sabinite* Acoustical Plaster

STRUCTURAL MATERIALS

Pyrobar* Gypsum Partition Tile — Gypsum and Metal Roof Decks
Pyrobar Gypsum Roof Tile

INDUSTRIAL STEEL PRODUCTS

Econo* Mesh (Expanded Metal) — Shelf-X* (Flattened Expanded Metal)

WALL BOARDS

Recessed Edge Sheetrock* — Plain Sheetrock
Insulating Sheetrock — Wood-Grained Sheetrock
Sheetrock Tile Board — Weatherwood Building Board
Duplex* Wall Board

THERMAL INSULATION PRODUCTS

Weatherwood Insulating Boards — Weatherwood Cold Storage Board
Weatherwood Roof Insulation — Blendtex Tile and Plank
Red Top Insulating Wool Blankets, Bats and Junior Bats

SHEATHING MATERIALS

Weatherwood Asphalt Coated Sheathing — Gyplap* Sheathing

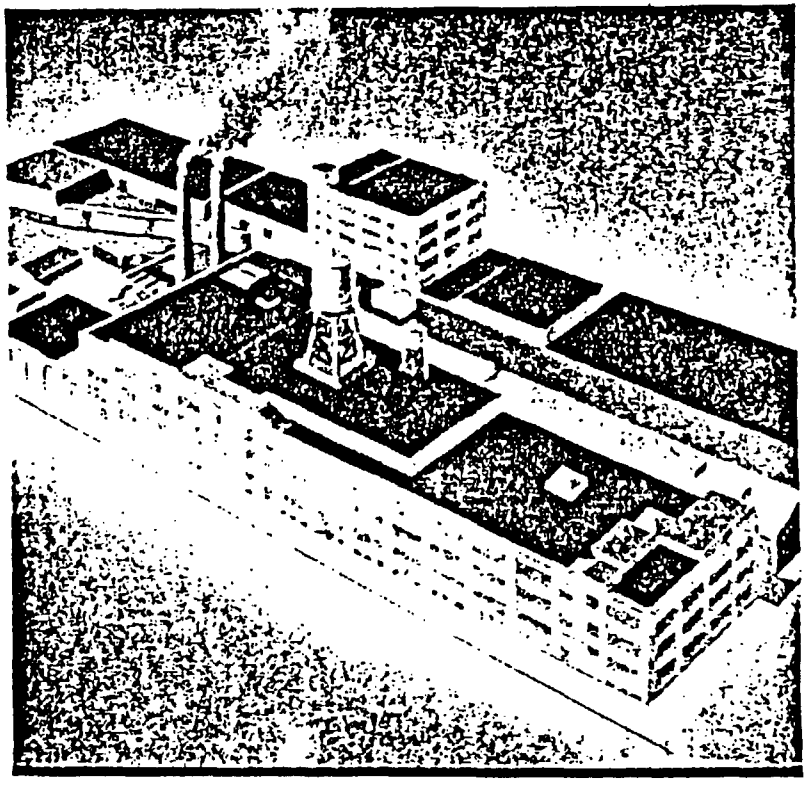
*[illegible] TRADE MARK

INDUSTRIAL ASBESTOS INSULATION MATERIALS

BB006 040[illegible]

PLAINTIFF'S EXHIBIT

USG-1988



USG

UNITED STATES GYPSUM COMPANY
300 WEST ADAMS STREET, CHICAGO, ILLINOIS
30 ROCKEFELLER PLAZA, NEW YORK, NEW YORK
OFFICES IN PRINCIPAL CITIES

INDUSTRIAL USES FOR USG ASBESTOS INSULATION PRODUCTS

Stack Linings	Pyrobestos*
Breech Linings	Pyrobestos
Oven Linings	Pyrobestos and Air Cell Board
Dryer Linings	Pyrobestos and Air Cell Board
Evaporator Linings	Pyrobestos and Air Cell Board
Drying Machines	Pyrobestos and Air Cell Board
Retorts	Pyrobestos
Insulating Panels	Pyrobestos
Dry Rooms	Pyrobestos
Partitions, Insulating	Pyrobestos
Enclosure	Pyrobestos
Utility Board to Resist Heat, Acids, Water, Fire	Pyrobestos and Air Cell Board
Suspended Ceiling over Boilers, Furnaces	Pyrobestos and Air Cell Board
Hoods for Fumes, Smoke, Gas	Pyrobestos
Vents for Fumes, Smoke, Gas	Pyrobestos
Cable Conduits in Concrete	Pyrobestos
Tanks Containing Hot Liquids	Pyrobestos and Air Cell Board
Tanks Containing Hot Asphalt	Pyrobestos and Air Cell Board
Tanks Containing Hot Oil	Pyrobestos and Air Cell Board
Tanks Containing Hot Water	Pyrobestos and Air Cell Board
Casings for Oil, Asphalt and Tar Pipes with Warming Pipes	Pyrobestos
Theatre Curtain Lining	Pyrobestos
Steam Lines, Medium—Temperature to 700°F	Econobestos
Steam Lines, Low—Temperature to 300°F	4 Ply Air Cell
Hot Water Lines	Wool Felt and 4 Ply Air Cell
Cold Water Lines	Wool Felt
Cold Liquid Lines and Ice Water Lines	Anti-Sweat
Frost Resisting Covering	Never-Freeze
Utility Covering for Heat, Cold, Condensation	Never-Freeze
Air Conditioning Boiler Jackets	Pyrobestos—4 Ply Air Cell
Heat Unit Jackets	Pyrobestos—4 Ply Air Cell

Laminated Asbestos Sponge Felt Covering and Blocks available on order

Asbestos Corrugated Paper

Asbestos Millboard

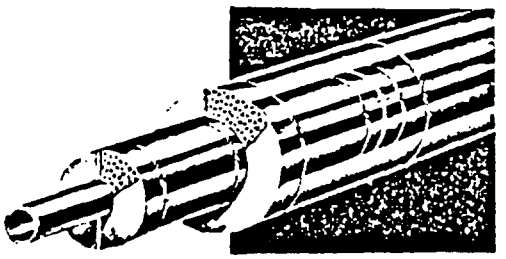
Asbestos Paper

Asbestos Cement

ASB-1 COPYRIGHT 1939 BY UNITED STATES GYPSUM CO. SM 6-39

*REG. TRADE MARK

BB006 0405



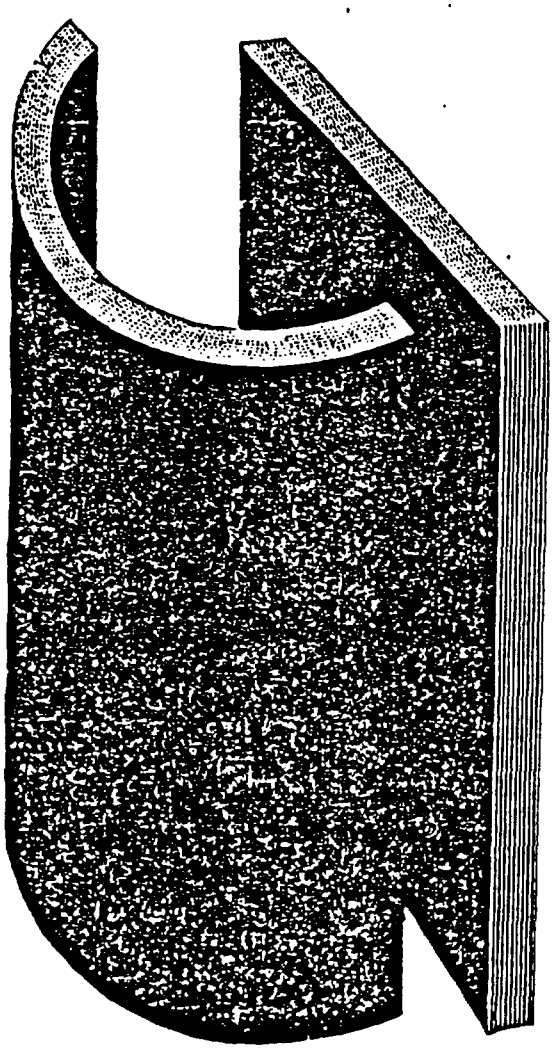
PYROBESTOS

ADAPTABILITY

Pyrobestos is an improved water and acid resistant, incombustible heat insulating material in pipe covering, sheet, and block form designed for use throughout the entire range of temperatures used in industrial processes.

Due to the nature of the materials used and the construction of Pyrobestos, it will withstand vibration, shocks, rough usage and mechancial abuse to an unusual degree.

Pyrobestos is recommended for general use as a pipe covering, sheet or block where an insulating material must have combined structural strength, water and acid resistant characteristics as well as heat insulating efficiency.

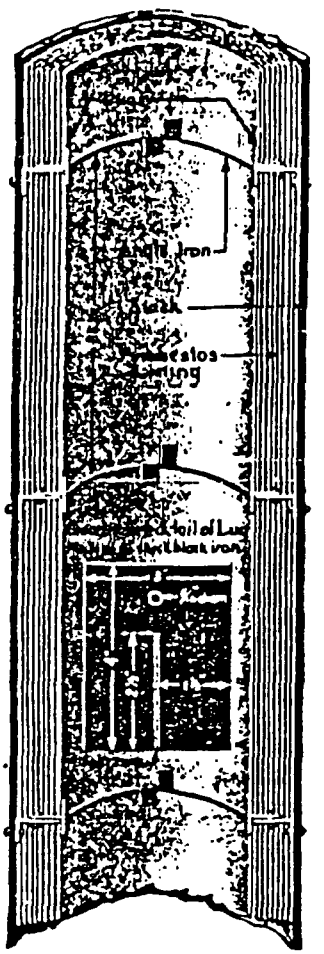


Pyrobestos is frequently used as a fireproof lining for ovens, flues, breechings, steel stacks, etc. It is used as a utility board by many manufacturers for the construction of all kinds of equipment exposed to steam, vapor, moisture, dry heat and acid fumes. It is used as a fireproof lining for floors, partitions, ceilings, theatre curtains, shafts, etc.

Pyrobestos is adaptable to a wide range of industrial uses demanding efficient heat insulating material that will withstand continuous high temperatures, without disintegration when exposed to moisture and atmospheric conditions where acid or acid fumes are present.

CONSTRUCTION

Pyrobestos is manufactured of successive layers of ¼" cellular corrugated asbestos paper in cylindrical form, flat boards and segmental blocks curved to fit any radius. After forming, the material is treated to make it incombustible, water and acid resistant.



SPECIFICATION

PYROBESTOS PIPE COVERING — Pyrobestos covering is furnished in single 3' sections of ¾" or 1" thickness or in double — telescope — 3' sections of double ¾" or double 1" construction. The total thicknesses of the double sections are 1½" and 2", respectively.

Single or double sections can be furnished in greater thicknesses by increasing the number of layers in multiples of ¼".

PYROBESTOS BOARDS AND BLOCKS — Pyrobestos Boards are manufactured in flat boards 36" square and in thicknesses from ½" and up in increments of ¼". Boards 36" wide by lengths up to 72" are available.

Blocks 3", 6", 12" or 18" wide by 36" long are standard. Cut sizes in odd dimensions can be furnished when required.

PYROBESTOS STACK LINING—Pyrobestos Stack Lining is manufactured in curved segments to fit any radius and in sheets 36" long. Standard thickness from 1" and up in increments of ¼".

B9006 0406



ECONOBESTOS LAMINATED ASBESTOS FELT INSULATION

A particularly rugged insulation for temperatures up to 700 degrees Fahrenheit.

ADAPTABILITY

Econobestos Covering is one of the most efficient coverings made. It is not intended for superheated steam pipes, though might be successfully used for that purpose. It is adapted for use on either high or low pressure steam lines to temperatures up to 700 degrees Fahrenheit. It is an exceptionally strong covering. Its tough construction makes it particularly suitable for vibrating pipe lines. Its tough and sturdy construction gives it an unusual salvage value in that it can be applied and removed from the pipe lines many times before damaged to the extent that its insulating value is impaired.

CONSTRUCTION

Econobestos Covering is made up of successive layers of asbestos felt paper. A great many air spaces are formed and confined between each layer by its unique construction.

SPECIFICATION

Econobestos Covering is furnished in sections 3' long, canvas jacketed, for all pipe sizes up to 24". Econobestos covering sections are cut on one side only. Thicknesses furnished are ½", ¾" and 1" standard. Other thicknesses may be obtained on order, including 1½" in single layer, 2" and 3" in either single or double layers.

ECONOBESTOS SHEETS AND BLOCKS

Econobestos Sheets are regularly furnished in sheets 36" square and in thicknesses from ½" up.

Blocks 6" wide by 36" long are standard. Other sizes can be furnished when required.

WOOL FELT PIPE COVERING

For Cold Water Pipes — For Hot Water Pipes

ADAPTABILITY

In general, asbestos lined wool felt can be used in standard thickness on low pressure steam lines subject to excessive vibration or rough usage and to temperatures up to 267° Fahrenheit.

For low pressure steam or hot water heating systems, single thickness is satisfactory.

When used on cold water pipes to prevent sweating, it is essential that the proper thickness be used, as otherwise the covering itself will sweat and cause damage to ceilings, merchandise, etc. In general, 1" thick wool felt, waterproof felt lined, consisting of two layers of ½" thickness, should be used on ordinary service cold water lines at temperatures not lower than 50 degrees Fahrenheit. (Anti-Sweat Covering should be used on ice water lines where the temperature of the water goes below 45 degrees Fahrenheit. See page 4.)

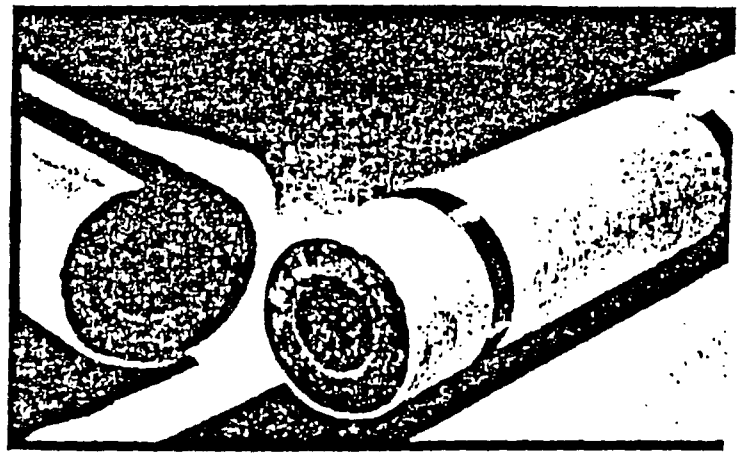
CONSTRUCTION

Wool Felt Covering is manufactured in sectional form of continuous wrappings or laminations of rag felt, with an inner lining of asbestos paper or waterproof roofing felt, as desired. An exterior wrapping of asbestos paper or waterproof roofing felt and a light canvas jacket give the covering a smooth, neat appearance when applied on the pipes. A waterproof outer wrapping may be substituted for the canvas jacket if required.

SPECIFICATIONS

Wool Felt Covering is furnished in thicknesses of ½", ¾", 1", double ½" and double ¾", in sections 3' long, cut into halves lengthwise to provide easy application. Special thicknesses can be made to order. Special sections in double thickness construction can also be made with each section having a waterproof inner liner and outer wrapper.

Extreme care must be taken in the application of Wool Felt Covering on cold water lines, either in standard or double thickness, to make tight joints and prevent air from reaching the pipes.



B3006 0407



ANTI-SWEAT PIPE COVERING

For Cold Water and Ice Water Pipes

ADAPTABILITY

Anti-Sweat Covering is used principally to prevent sweating. For normal conditions ¾" thickness is sufficient, but where low temperatures of liquid and the constant presence of some moisture in the atmosphere surrounding the covering is evident, 1" should be used.

As the temperature of the liquid becomes lower to 35 degress Fahrenheit, as in ice water lines, the double layer ¾", total 1½" thick, should be used, applied in the broken joint method.

The most important factor in the application of Anti-Sweat Covering is to apply the covering in such manner as to prevent infiltration of outside air through the joints. This ordinarily requires the covering to be applied in broken joint construction, with all sections butted tight and all seams closed tight. Fittings are usually built up of a layer of hair felt wrapped snugly around the fittings and finished with a layer of asbestos cement tapered to a tight, firm joint with adjacent sections of the covering. Stapling of all joints in the covering is recommended, as the joints cannot be made tight by depending upon the canvas jacket to hold them together.

CONSTRUCTION

Anti-Sweat Covering is manufactured in sectional form of continuous wrappings or laminations of rag felt with an inner lining and outer wrapping of waterproof roofing felt.

SPECIFICATION

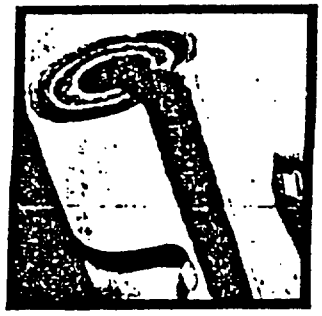
Anti-Sweat Covering is furnished in sections 3' long, in single thickness of ½" or ¾". All sections 1", 1½" and 2" are manufactured in two sections, i. e., double ½", ¾" and 1". Sections are cut into halves lengthwise to provide easy application and are finished with a light canvas jacket.

NEVER-FREEZE PIPE COVERING

ADAPTABILITY

Never-Freeze Covering is especially designed for protection of cold water pipes to prevent freezing of water and bursting of the pipes. It can be used in places where it will be exposed to moisture or the elements, and if used in this capacity it should be thoroughly coated with an asphalt waterproofing cement or asphalt paint.

While Never-Freeze Covering is classified as a covering to be used in preventing circulating water in pipes from freezing, it should be recognized that it will only protect stationary water in pipes from freezing for a limited time, depending upon the degree of exposure and the temperature conditions. If the line upon which Never-Freeze Covering is used is shut down for any length of time, the line should be drained as Never-Freeze Covering will not prevent freezing under these conditions.



Care should be taken to draw the abutting ends of the covering together tightly and secure them with an occasional staple underneath the canvas and at the end of the sections. Staples should be driven well below the surface of the covering so as not to show through the canvas jacket.

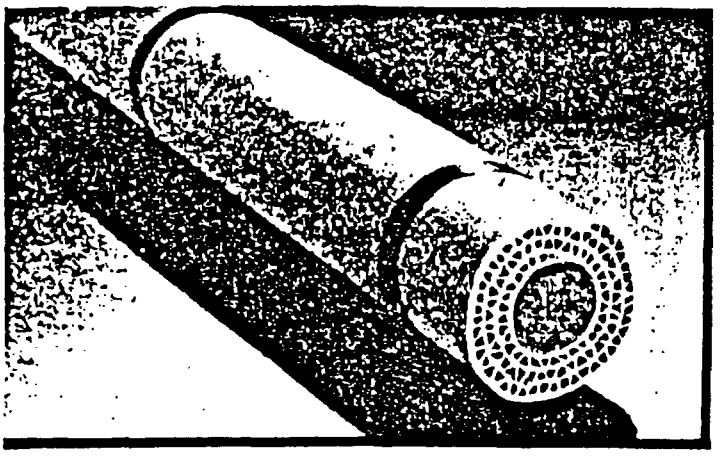
CONSTRUCTION

Never-Freeze Covering is manufactured in the form of a shell made up of laminations of wool felt with alternate layers of hair felt and waterproof felt liner.

SPECIFICATIONS

This covering consists of two plies of wool felt, a layer of ¾" hair felt, two additional plies of wool felt, a second layer of hair felt, and sufficient additional laminations of wool felt to bring the total thickness of the covering up to 1¼". Never-Freeze Covering is furnished in 3' sections, cut in halves lengthwise, to provide easy application. It is made in one standard thickness only, but can be manufactured in other thicknesses when required.

B3006 0408



ASBESTOS AIR CELL COVERING

ADAPTABILITY

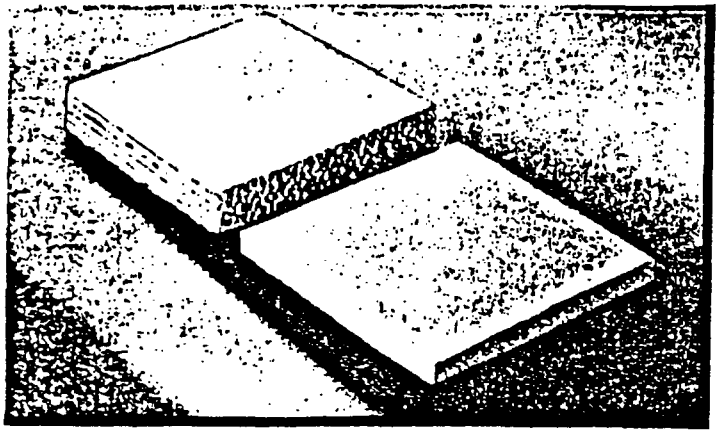
Asbestos Air Cell Covering is used extensively for medium and low pressure steam and hot water pipes where the temperatures do not exceed 300 degrees Fahrenheit.

CONSTRUCTION

Asbestos Air Cell Covering is manufactured of successive layers of ¼" corrugated asebestos paper, firmly cemented together in cylindrical form, providing a series of dead air spaces the entire length of the section. An exterior jacket of lightweight canvas gives the covering a neat, smooth appearance when applied on the pipes.

SPECIFICATIONS

Asbestos Air Cell Covering is furnished in three foot sections cut in halves lengthwise to provide easy application. It is regularly furnished in four ply construction having a thickness of approximately 1". Sections can be furnished in lesser or greater thickness by decreasing or increasing the number of layers, in increments of ¼".



ASBESTOS AIR CELL SHEETS AND BLOCKS

For Temperatures Up to 300°F

An efficient retarder of heat used for fireproofing buildings, ceilings, walls, partitions and similar purposes. In block form it can be used to distinct advantage in covering large cylindrical surfaces. Asbestos Air Cell Board is especially adapted to lining of dry kilns and drying ovens.

Regularly furnished in sheets 36" square and in thicknesses from ½", each ply corresponding to the ¼" corrugation. Blocks 6" wide by 36" long are standard. Other sizes can be furnished when required.

89006 0409