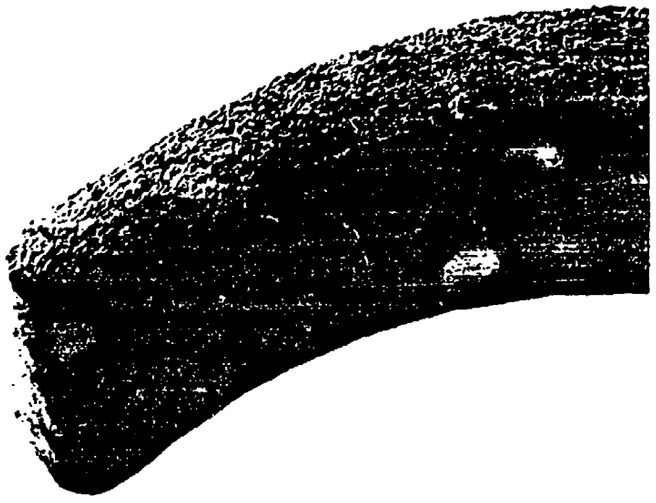


Curved Mono-Block starts where other types of pipe covering stop

Available to true diameter 24" thru 60"
in 2" increments of diameter
Available 1½" to 3" thick... length 36"

481660

KEENE INDUSTRIAL INSULATION CORPORATION DIVISION
DATA SHEET

SECTION D-3
PAGE NO. 1A
DATE December 1, 1971
SUPERSEDES New

Product: CURVED MONO-BLOCK

Description: Felted, rigid, curved block made of Spun Mineral Wool with a clay binder, by a patented Keene Corporation process. With long mineral fibers laid down in interwoven layers, it has greater tensile strength and better resistance to damage in handling. This product contains NO ASBESTOS.

Uses: For large piping and vessels from 24" diameter through 60" diameter. Available in even inch diameters.

Features: Light Weight - Maximum Temperature Range - up to 1900 F. Easy to handle and apply, cuts with a knife, surface adjusts to irregularities for snug fit. Moisture-resistant, non-corrosive, stable in service and non-combustible.

Technical Data:

- Temperature Limit 1900F
- Density, approx. . . . . 13 lb/cu ft
- Thermal Conductivity Btu in./hr, ft^2 degF

Mean Temp.	K
200F	0.36
400F	0.42
600F	0.51
800F	0.625
1000F	0.755
1200F	0.90

- Fire Hazard Classification (tested according to Underwriters Laboratories, Inc. Std. No. 723 UL Guide 40 UB.14 BQXR)

Flame Spread	25 or less
Fuel Contributed	50 or less
Smoke Developed	50 or less
Chlorides	Under 100ppm
Na_2SiO_3	600ppm

- Compressive Strength, @ 5% deformation 10 psi
- Flexural Strength 40 psi
- Shrinkage on heating at 1900 F. . . . . less than 4%
- Standard Sizes:
  - Length: 36 inches
  - Diameters: 24" thru 60" in 2" increments
  - Thickness: 1 thru 3 inches in 1/2 inch increments

Specifications:
Federal HH-I-558a Form A, Class 5
HH-I-564 Form I Types A, B, C, D.
ASTM C 612-67 T, Class D
Commercial Standard CS117, Block Classes A, C, D.

Packaging: Corrugated Boxes

481661

PLAINTIFF'S EXHIBIT KN-421



OTHER KEENE INSULATIONS

Thermasil Block and Pipe Covering	1200°F
*Metal Mesh Blankets	1200°F
*Mono-Block	1900°F
*Therma K Block	1000°F
*Spun Felts	600°F
Mono-Spray	1800°F
*#1 Plus Cement	1800°F
*Super Powerhouse Finishing Cement	

*These Products Contain No Asbestos

MATERIAL PRICE COMPARISON

LABOR SAVING

KEENE
CORPORATION

CEILING and INSULATION DIVISION
U.S. Route 1
Princeton, New Jersey 08540

481665

BALDWIN-HILL COMPANY, TRENTON 2, NEW JERSEY

SPECIFICATIONS FOR INSULATION OF DUCT SYSTEM

1. All air ducts noted on drawings shall be insulated with Spun Mineral Wool Duct Insulation, as manufactured by Baldwin-Hill Company, or approved equal, in thickness specified on drawings.

2. Preparation of Surface - Remove all loose rust, scale or dirt from surface of Duct so that nothing will interfere with the application of the pins, clips, screws or adhesive.

3. Type of Duct Insulation to be used - (Cross off all but desired one)

   (a) - Plain
   (b) - Vapor Barrier
   (c) - Coated

4. Methods of Attachment - (Cross out all but desired method)

   (a) Graham Welding Pins or Mechanical Clips applied with recommended adhesive - applied to under surfaces of horizontal runs and all four sides of vertical ducts - with a minimum of one fastener per 2 square feet of surface. Benjamin-Foster 81-81, 81-71, or equal adhesive, to be applied to other three sides of horizontal runs. Adhesive to be applied in 4" wide strips at one foot intervals, and then ridged slightly by using a serrated trowel.

   Duct insulation to be cut in widths and lengths to suit the cross-sectional dimensions of each duct run with the top and bottom pieces overlapping the side pieces. (Cut over-size to insure tight fit). Apply the bottom piece first by impaling it on the pins or clips, and secure with washers, speed nuts or bend the fasteners to hold the insulation in place. Apply the sides and then the top, pressing the material firmly in place to insure good bond.

   If Vapor Barrier Duct Insulation is used - seal all joints with a 3" wide vapor barrier tape adhered with Benjamin-Foster 60-26, or equal. Cover fastener heads with, at least, a 3" patch of Benjamin-Foster 60-26, or equal, to prevent vapor entry at these points.

   (b) No. 10 or 12 gauge galvanized or stainless steel screws 1/2" longer than the thickness of insulation to be applied. Caps to be fiber washers or metal disks of 1-1/2" diameter; screws to be applied at least, one per 2 square feet, and should be as near the duct edges as possible for maximum support.

   Duct insulation to be cut in widths and lengths to suit the cross-sectional dimensions of the duct, with the top and bottom pieces overlapping the side pieces. (Cut over-size to insure tight fit). Apply all four sides with the screws and caps, making sure each has taken a firm hold.

   If Vapor Barrier Duct Insulation is used, seal all joints with a 3" wide vapor barrier tape adhered with Benjamin-Foster 60-26 or equal. Cover fastener heads with, at least, a 3" patch of Benjamin-Foster 60-26, or equal, to prevent vapor entry at these points.

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