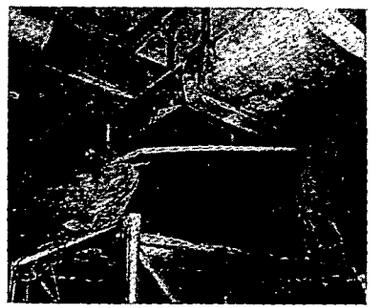
MICROLITE GLASS FIBER INSULATION

GLASS FIBERS INC.

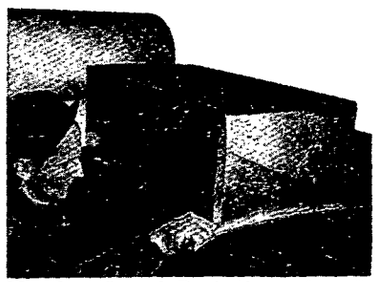
1810 Madison Ave., Toledo 2, Ohio
Sales Offices and Distributors in Principal Cities

MICROLITE is a low density, resilient glass fiber insulating material with high thermal efficiency and sound absorption characteristics. It is made by the ELECTRONIC-EXTRUSION PROCESS, developed, patented and used exclusively by Glass Fibers Inc.

Application: Its light weight, flexibility and resilience make it easy to handle in large sections, easy to place properly and easy to fasten securely by modern methods. Microlite is simple to cut with a knife or shears, and can be bent around curved surfaces and easily fitted in irregular areas. In addition, this springy, airy insulating material is compressed approximately 4-to-1 as it comes off the production line. The compactly wrapped rolls take up little storage space in factory warehouses and busy cutting-fabricating rooms.



Men like to work with Microlite because it's so soft and flexible—and because it doesn't cause itching.



Microlite Coated Duct Liner: for all velocities up to the highest normally required. If desired, uncoated liner may be used for velocities under 3000 feet per minute.

Sound Absorption Value: ½ in. liner has a noise reduction coefficient of .60; 1 in. of .80.

Properties: Composed of minute glass fibers of consistent uniformity, bonded together in blanket form, Microlite resists fire, corrosion, vibration settling and effects of humidity. Glass fibers are inorganic; they provide no sustenance for fungus or bacteria, and no food for rodents or insects. Inch for inch, Microlite is one of the most effective of all insulating materials, as shown below.

Densities: ½, 1 lb, 1½ lb, and 2 lbs per cu ft.
Widths: 18, 24, 36, 48 and 72 in.
Thickness: ½, ¾, 1, 1½, 2, 3 and 4 in.
Lengths: in rolls from 50 to 200 ft depending on density and thickness.

Facings: Microlite for duct exteriors is available with vapor barrier facing materials, applied to order. They may be made of foil, reflective coated paper, vinyl film and reinforced or unreinforced papers.

THERMAL CONDUCTIVITY AT VARIOUS MEAN TEMPERATURES

Mean Temperature, degF	50°	75°	100°	150°	200°	250°	300°
*"k" value Type B-305 (.5 lbs/cu ft)	.25	.26	.28	.33	.38	.45	.52
"k" value Type B-310 (1.0 lbs/cu ft)	.20	.21	.23	.27	.31	.36	.41

"k" is coefficient of thermal conductivity. It equals Btu/inch thickness/hr/sq ft deg F.

SOUND ABSORPTION COEFFICIENTS AT VARIOUS FREQUENCIES

Product Type	Density Lbs/cu ft	Thickness Inches	125	250	500	1000	2000	4000	NRC*
B-305	.5	1	.14	.25	.51	.80	.78	.76	.60
B-310	1.0	1	.12	.30	.68	.94	.82	.80	.70

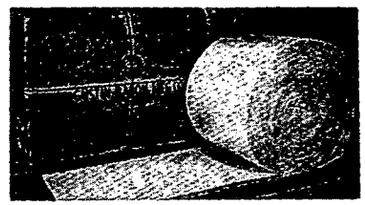
* NRC—Noise Reduction Coefficient—average of coefficients at 250, 500, 1000 and 2000 C.P.S. NRC is given to the nearest 5 per cent. (No. 4 Type mounting)

Gustin-Bacon Manufacturing Company

210 W. 10th St. Kansas City, Mo.

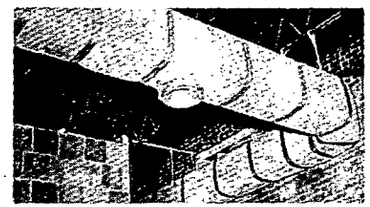
Distributors in All Principal Cities (Consult Classified Phone Directory)

ULTRALITE glass fiber Duct Insulation and Duct Liner

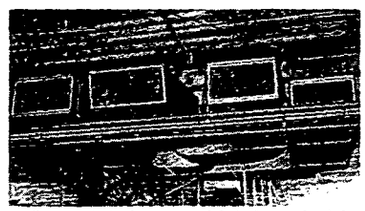


Characteristics of Ultralite. Ultralite Duct Insulation and Ultralite Duct Liner are composed of long, fine, textile-type glass fibers, bonded with a thermo-setting resin. Both are manufactured and shipped in blanket-like rolls. Both are immune to fire, rot, corrosion, age, rodents and insects, odors, vibration, and are low in moisture absorption. Ultralite is resilient—quickly returns to original dimensions after pressure or bumps during or after installation.

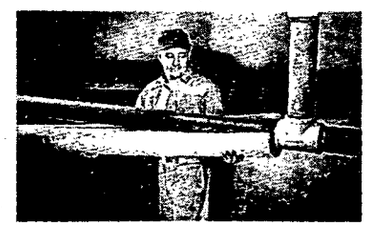
Application Characteristics. Ultralite Duct Insulation and Ultralite Duct Liner are exceptionally light in weight. Can be cut readily with a knife, quickly run around curves and corners without special fitting. Can be adhered with adhesives, metal screws and washers, even staples. Ultralite is not unpleasant to handle. Extreme simplicity of application keeps applied costs down.



Ultralite Duct Insulation (Thermal). A highly efficient "wrap-on" type thermal insulation weighing only 1 oz per board foot. Available plain or with your choice of a number of facings already adhered to insulation (when a vapor barrier and/or a base for finished appearance on duct runs is required). Shipped in compressed rolls. (Write for *AIA File* 37-D-2)



Ultralite Duct Liner (Acoustical). A sound-absorbing insulation to be applied to interior of duct. Effectively absorbs objectional fan, air-rush and transmitted noises. Also an excellent thermal insulation that can be used on the exterior of duct. Weighs only 2 oz per sq ft in the ½ in. thickness. Won't break, chip or dent. Available in ½ in. and 1 in. thicknesses, coated one side with a fire resistant coating. Can be adhered to flat metal sheets and fabricated with the metal through brakes and shears. (Write for *AIA File* 37-D-2)



G-B SNAP-ON PIPE INSULATION. A new one-piece molded pipe insulation of fine glass fibers for heated and chilled piping. "K" factor is truly exceptional—.31 at 300 deg mean. The new insulation is feather-light . . . flexible and resilient . . . insoluble in water . . . easy to cut with a knife . . . won't break or crumble . . . dustfree . . . clean and pleasant to handle . . . can be painted or finished as desired. Snaps quickly on pipe. Single seam can be closed with any standard fastening means. Available in 6-ft or 3-ft. long sections, sizes ¾ in.-33 in. See *Sweet's Architectural File* or write for *Bulletin SO*.