

MICROLITE

GLASS FIBER
INSULATING WOOL

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.

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.

Dimensions:

Densities: $\frac{1}{2}$, 1 lb, $1\frac{1}{2}$ lb, and 2 lbs per cu ft.

Widths: 18, 24, 36, 48 and 72 in.

Thickness: $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, 2 and 3 in.

Lengths: 200 ft for $\frac{1}{2}$ and $\frac{3}{4}$ in. thick. 100 ft for thicknesses more than $\frac{3}{4}$ in.

Facings: Microlite is available with vapor barrier facing materials, applied to order. They may be made of foil, re-



One of many fast methods for Microlite application is with Stic-Klips, as illustrated above.

flective coated paper, vinyl film and reinforced or unreinforced papers.

Outer Wrap of Vitron Vapor Barrier Mat

A strong outer cover for insulated ducts and pipes that are exposed to weather or require an outside vapor barrier is provided by Vitron Duramat, made of an asphalt and tar compound over a base of glass fiber mat and reinforcing glass yarns. It sheds rain and snow and provides a tough protection against impact damage to the insulation. Made in 36 in. width and thicknesses of .060 in., (TYPE 252) and .0375 in., (TYPE 251). Roll length is 36 ft and 72 ft resp.

THERMAL CONDUCTIVITY AT VARIOUS MEAN TEMPERATURES AND DENSITIES

Mean Temperature, deg F	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

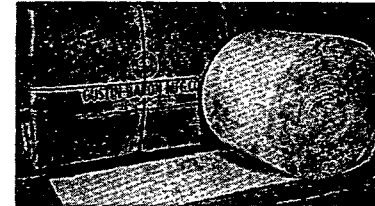
* NRC—Noise Reduction Coefficient—average of coefficients at 250, 500, 1000 and 2000 C.P.S. NRC is given to the nearest 5 per cent. (No. 4 Type mounting)

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 thermosetting 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. (See Sweet's File (Arch.) or write for AIA File 37-D-2)

Thermal Efficiency of Ultralite Duct Insulation is shown in table at right. Tests were conducted by independent laboratories with ASTM approved, guarded hot plate methods.

DENSITY	THERMAL EFFICIENCY "K" VALUE AT 60°
$\frac{3}{4}$ # / cu ft	.253
1 " " "	.246
$1\frac{1}{2}$ " " "	.235
2 " " "	.233
3 " " "	.217



Ultralite Duct Liner (Acoustical). A sound-absorbing insulation to be applied to interior of duct. Effectively absorbs objectionable 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 $\frac{1}{2}$ in. thickness. Won't break, chip or dent. Available in $\frac{1}{2}$ 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. (See Sweet's File Architectural or write for AIA File 37-D-2)

ACOUSTICAL TABLE - DUCT LINER

Density lbs/cu ft	Thickness	125	250	512	1024	2048	4096	NRC
3	$\frac{1}{2}$ "	.11	.46	.42	.67	.80	.80	.60
	1"	.15	.53	.65	.90	.87	.90	.75