INSULITE

General Offices
500 Baker Arcade Bldg., **Minneapolis 2, Minnesota**

THIRTY-ONE YEARS PROVEN DURABILITY

For 31 years engineers and architects have specified Insulite materials for structural uses, interior finish, low temperature duct lining, and for other thermal insulation and sound control work. Insulite materials have proved themselves practical through their performance on the job.

STRUCTURAL MATERIALS

Lok-Joint Lath—An insulating plaster base, fabricated from Ins-Lite or from Graylite. Patented "Lok" firmly locks the sheets between supporting members. Thickness: ½ in. Size: 18 x 48 in.

Sealed Graylite Lok-Joint Lath—An insulating plaster base of Graylite, sealed on stud space side with an effective vapor barrier. Has patented "Lok" on long edges. Furnished in same thickness and size as Ins-Lite and Graylite Lok-Joint Lath.

Bildrite Sheathing is an asphalt-containing wood fiber insulating board manufactured under an exclusive process which provides increased strength and moisture resistance. It is $^{25}/_{32}$ in. thick and has a gray-brown color. Thermal conductivity: Maximum 0.36 Btu per inch thickness. Each sheet is marked to indicate proper nail spacing. Available in sizes 4 x 8 ft up to 4 x 12 ft with all edges square. Also available in 2 x 8 ft size with interlocking joint on long edges. Used as a structural sheathing board and as roof boarding.

Condensation Control—Where low outside temperatures and high inside humidities may occur, authorities recommend "sealing the warm side and venting the cold side" of the wall to prevent condensation. An adequate vapor barrier, Sealed Graylite Lok-Joint Lath, should be used on the warm (room) side of the wall thereby effectively reducing vapor transmission into the stud space. Bildrite Sheathing is designed to allow any surplus vapor in the stud space to "breathe" or be vented to the exterior air. If vapor is trapped within the stud space and cannot escape through the sheathing, destructive condensation may occur.

THE APPROVED INSULITE WALL OF PROTECTION

This construction consists of Bildrite Sheathing on the exterior of the frame work and Sealed Graylite Lok-Joint Lath on the interior. Transmission coefficient (U) is shown below.

Exterior Finish and Sheathing	Interior Finish: No Insulation Between Studding	Interior Finish: Plaster (½ in.) on Sealed Graylite Lok-Joint Lath (½ in.)
Wood Siding, $^{25}/_{32}$ in. Bildrite Sheathing	0.15	

The above value is typical of results which can be obtained by utilizing Insulite materials in frame construction. For further (U) values refer to Chapter 4 pages 94 and 95.



Applying Bildrite Sheathing



Applying Lok-Joint Lath

INTERIOR FINISH MATERIALS

Ins-Lite Building Board—A wood fiber board with the light color of natural wood—burlap and linen textured surfaces. Thermal conductivity: Nominal 0.33 Btu/hr/sq ft/ in./F; density: 16 lb/cu ft. Furnished in thicknesses of ½ and ¾ inch and sizes of 4 x 7 ft to 4 x 12 ft. Also available in 6 x 8 ft, 6 x 12 ft and 8 x 12 ft sizes.

Graylite Building Board—An integrally treated asphalt containing wood fiber board of grayish brown color—burlap and linen textured surfaces. Thermal conductivity nominal 0.35 Btu per inch thickness. Furnished in same thicknesses and sizes as Ins-Lite Building Board.

Smoothcote Interior Board—Factory Coated Insulating Board with smooth, finished surface one side, having 68 per cent light reflection. Furnished in ½ inch thickness only and in sizes of 4 x 7 ft to 4 x 12 ft.

Satincote Interior Board—Factory finished Insulating Board in colors light ivory, oyster white, coral and green. Light reflection from 64 per cent for green to 80 per cent for the buff color. Requires no further decoration. Resistant to abrasion and washable. In ½ inch thickness and in sizes of 4 x 7 ft to 4 x 12 ft.

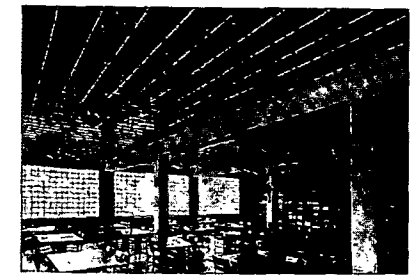
TileBoard—Available in Smoothcote and Satincote. TileBoard is furnished with the Lok-Grip Joint that permits concealed nailing and which together with the Lok-Pin (a flat diamond shaped metal dowel) definitely and mechanically safeguards against any falling units even though no face nailing is used.

Smoothcote and Satincote TileBoard available in ½ inch thickness and sizes of 12 x 12 inches to 16 x 32 inches.

Plank—Available in Smoothcote and Satincote. Plank has the Lok-Grip joint which permits concealed nailing and is beveled and beaded both long edges. Smoothcote and Satincote Plank furnished in ½ inch thickness, widths of 8 to 16 inches and lengths of 8 to 12 ft.

Acoustilite—A high efficiency acoustical material for sound control. Coefficient of sound absorption, at 512 cycles, is 0.79 when mounted on solid background and 0.80 when on furring strips. Noise reduction coefficient is 0.65 when mounted on solid background and 0.75 when on furring strips. Factory painted in buff, (light reflection 77 per cent) and in white (light reflection 80 per cent). Units have a butt joint and are beveled on four edges. Thickness, ¾ in.; sizes, 12x12 in. to 16x32 in.

Fiberlite—An efficient sound absorptive and decorative material. Coefficient of sound absorption, at 512 cycles, is 0.53 when mounted on a solid background and 0.72 when on furring strips. Noise reduction coefficient is 0.55 when mounted on solid background and 0.65 when on furring strips. Factory painted in buff (light reflection 77 per cent) and in white (light reflection 80 per cent). Units have a butt joint and are beveled on four edges. Thickness, ½ in.; sizes, 12x12 in. to 16x32 in.



Acoustilite or Fiberlite effectively quiet and control sound

HardBoard Products

HardBoard materials are tough, durable, grainless, pressed wood fiber boards with a hard, smooth surface. Available in a range of densities from 55 to 68 lb/cu ft. Thicknesses are from $^{1}/_{10}$ to $^{5}/_{16}$ in. and sizes of 4 x 2 ft to 4 x 12 ft.

Industrial Insulation

Industrial Insulation is a wood fiber board for use in all types of manufacturing industries producing items such as refrigerators, coolers, showcases, brooders, partitions and cabinets.

It can be cut-to-size and fabricated to customer's specifications. Three types of industrial board are available.

Lowdensite Industrial Board—A 10 to 14 lb density board with an average tensile strength of 100 lb/sq in. and an average conductivity of 0.30 Btu/hour /sq ft/F/inch thickness.

Ins-Lite Industrial Board—A 14 to 18 lb density board with an average tensile strength of 250 lb/sq in. and an average conductivity of 0.33 Btu/hour/sq ft/F /inch thickness.

Graylite Industrial Board—Differs from two above products in that it has an integral asphalt treatment which provides increased strength and moisture resistance as well as minimum thickness and linear expansion. A 16 to 20 lb density board with an average tensile strength of 350 lb/sq in. and an average conductivity of 0.35 Btu/hour/sq ft/F/inch thickness.