PITTSBURGH CORNING CORPORATION

Dept. AW8, One Gateway Center, Pittsburgh 22, Pennsylvania

PITTSBURGH® PC CORNING

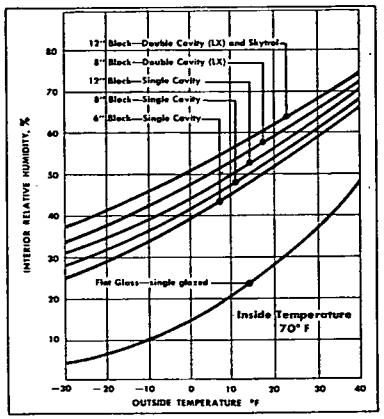
GLASS BLOCKS

THERMAL INSULATION

PC Glass Blocks allow economical use of large glass daylighting areas, reduce heat loss in cold weather and heat gain in warm weather because each PC Block contains a sealed-in dead-air space that is an effective retardant to heat transfer. See Section C, Table 18, Page 212 of this GUIDE.

SURFACE CONDENSATION

Because of their high insulating value, condensation will not start forming on the room side of PC Glass Block panels until outside air has reached a temperature much lower than that necessary to produce condensation on single-glazed windows. The accompanying chart shows at what temperatures condensation will form. Note that LX, Suntrol and Skytrol blocks—in which a fibrous glass screen creates a double cavity—provide maximum insulation value.



Outdoor temperature required to produce condensation on the room side surface of PC Glass Block panels.

SOLAR HEAT GAIN

The use of glass blocks for light-transmitting areas results in a marked reduction in solar heat gain as compared with ordinary windows. This factor is of considerable advantage in buildings that are properly air-conditioned, but does not eliminate the need for adequate ventilation or shading in non-air-conditioned rooms. PC Suntrol blocks, with green diffusing screen, cut heat gain an additional 25 percent.

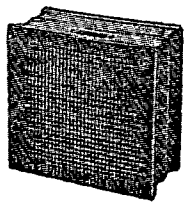
For data on solar heat gain through PC Glass Blocks, see Tables 18 through 23 in Chapter 13. Types listed are the following PC patterns:

Type I—Argus, Argus Parallel Flutes, Decora, Vue
Type II—Bristol
Type III—Bristol LX
Type IVA—Essex
Type V—Prism B

PC GLASS BLOCKS AID AIR-CONDITIONING

The chief aims of air-conditioning—temperature control, humidity control and cleansing of air—are aided by the use of PC Glass Blocks. Heat loss is less in winter—heat gain is less in summer. Solar heat transmission and radiation are significantly reduced. Dirt, drafts and moisture cannot filter in, for each panel is a tightly sealed unit.

PATTERNS
SIZES
INSTALLATION



Made in three sizes: 6 in., 8 in., and 12 in. square. All are 3⅞ in. thick. Available in decorative and functional patterns—the latter for control of transmitted daylight and solar radiation. (Also 8-in. size PC Color Glass Blocks in coral, green, blue and yellow.) Usually laid up in panels with ¼ in. mortar joints. Masons can install PC Glass Blocks; no special tools required. Insulated skylights that eliminate many problems of ordinary skylights can be constructed using PC Skytrol blocks. For details, write above address. In Canada: 57 Bloor St., W., Toronto, Ont.

PITTSBURGH CORNING CORPORATION

PITTSBURGH® PC CORNING

Department S-8, One Gateway Center, Pittsburgh 22, Pa.

FOAMGLAS®

the cellular, stay-dry insulation

What FOAMGLAS is

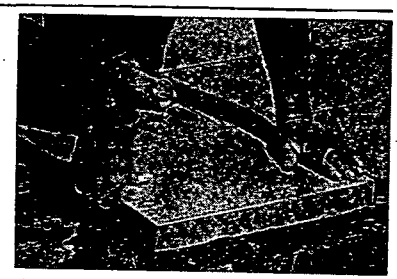
FOAMGLAS is an entirely unique thermal insulation. Its light-weight, strong, rigid structure provides the combination of the two essentials for efficient, long-lasting insulating performance. . .FOAMGLAS is completely inorganic and has a closed cellular structure. It is made of glass, expanded about fifteen times into minute, non-connecting, hermetically sealed cells.

This sealed cellular structure makes FOAMGLAS water-proof and vapor-proof, preventing moisture absorption which impairs greatly the effectiveness of many insulations. Being inorganic, FOAMGLAS is fireproof, rot-proof and vermin-proof.

These inherent characteristics have enabled FOAMGLAS users to benefit from its long-lasting, constantly-high insulating performance. That is why FOAMGLAS is very rapidly gaining recognition as the ideal insulation for roofs, ceilings, walls, and floors of all kinds of buildings, as well as hot and cold piping, tanks and other equipment.

How FOAMGLAS can benefit you:

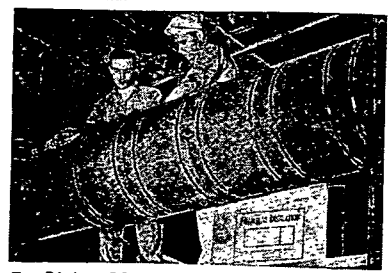
Properties		Benefits
Absorption	0	Moisture reduces insulation effectiveness and life. FOAMGLAS stays dry, maintaining constant insulating value.
Acid Resistance	Impervious to common acids and acid fumes	No deterioration of insulation; prevents corrosion of piping and equipment.
Combustibility	Incombustible	Protects from fire hazards.
Compressive Strength	100 lbs/sq in.	Offers unusually high strength for varied structural and load bearing applications.
Hygroscopicity	No increase in weight in 246 days in air at 90% relative humidity	FOAMGLAS is its own vapor barrier.
Density	9 lbs/cu ft (ave.)	Lightweight, easy to handle and install.
Thermal Conductivity (k) At 50° F	0.38 Btu/hr/sq ft/°F/in.	Excellent insulating value that remains constant.



For Building Roofs, Ceilings, Walls and Floors. At Winston-Salem, FOAMGLAS' high strength permitted insulating parking deck-roof of Sears Roebuck's air conditioned store. In your building, moisture-proof FOAMGLAS insulation can help maintain air conditioning system efficiency.



For Ducts. Light-weight blocks of FOAMGLAS were easily applied to these metal air conditioning ducts at the Moses H. Cone Memorial Hospital, Greensboro, North Carolina.



For Piping. FOAMGLAS pipein sulation (available for up to 36 in. pipe size) was applied on this welded pipe carrying cold water for the system air conditioning Pittsburgh's new Gateway Center skyscrapers.

For full technical information, please write for our new catalogs indicating which of the above uses of FOAMGLAS you are most interested in. Address Dept. S-8, Pittsburgh Corning Corporation, One Gateway Center, Pittsburgh 22, Pa.