

# FOAMGLAS® HIGH LOAD BEARING CELLULAR GLASS INSULATION

**FOAMGLAS®**

Pittsburgh Corning

## FOAMGLAS® HLB Insulation

FOAMGLAS® HLB block Insulation is specially designed for high load bearing industrial applications. Its unique combination of high compressive strength and low thermal conductivity makes it ideal for a wide range of tank base construction and other industrial load bearing applications.

### Applications

- Cold & cryogenic tanks bases
- Hot & high temperature tank bases
- Load bearing pipe supports
- Secondary containment corner protection
- Special loading bearing applications

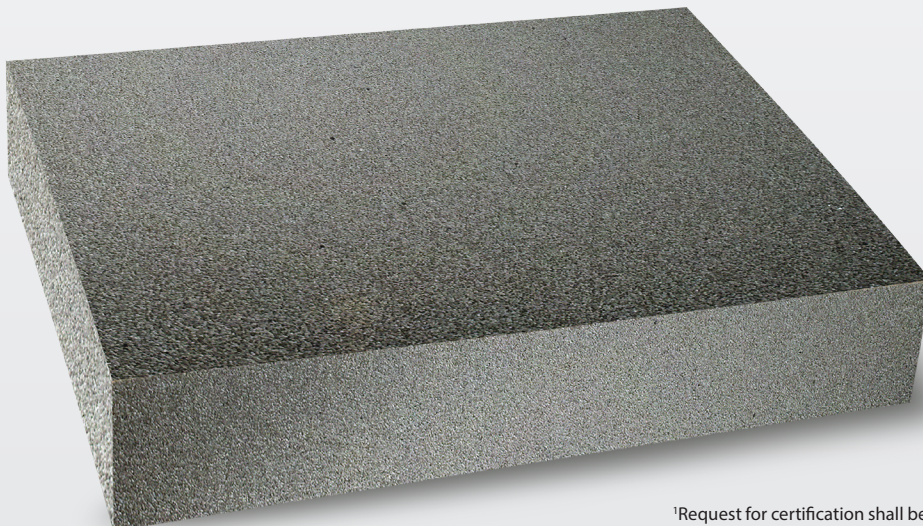
### Attributes

- Constant insulating efficiency
- Noncombustible
- Non-absorbent
- Impermeable to water and water vapor
- Corrosion/chemical resistant
- Long term dimensional stability
- Vermin resistance
- High compressive strength
- Ecologically friendly, sustainable

FOAMGLAS® HLB Block Insulation is manufactured in a full range of standard grades and it is available in standard SI and Imperial formats.

TYPE I BLOCK DIMENSIONS		
	SI	ENGLISH
WIDTH & LENGTH	450 x 600 mm	18 x 24 in
THICKNESSES	50-175 mm 25 mm increments	2-7 in 1in increments

Contact a representative for regional availability.



<sup>1</sup>Request for certification shall be included with valid order for FOAMGLAS® Insulation.

# FOAMGLAS® HIGH LOAD BEARING CELLULAR GLASS INSULATION

Pittsburgh Corning

## PHYSICAL AND THERMAL PROPERTIES<sup>2,3</sup>

PROPERTY	ASTM METHOD	SI	ENGLISH
ABSORPTION OF MOISTURE	C240	< 0.2% by Vol	< 0.2% by Vol
CAPILLARITY		None	
CHEMICAL RESISTANCE		Impervious to common acids and their fumes.	
COEFFICIENT OF LINEAR THERMAL EXPANSION	E228	25 to 300 °C, 9.0 x 10 <sup>-6</sup> / K -170 to 25 °C, 6.6 x 10 <sup>-6</sup> / K	75 to 575 °F, 5.0 x 10 <sup>-6</sup> / °F -274 to 75 °F, 3.7 x 10 <sup>-6</sup> / °F
COMBUSTIBILITY	E136	Noncombustible	
COMPOSITION		Soda lime glass. Inorganic. No fibers or binders.	
CORROSION, WATER SOLUBLE IONS AND PH	C871 C692 C1617	Acceptable for use with stainless steel Pass < DI Water	
DIMENSIONAL STABILITY		Excellent - does not shrink or swell.	
HYGROSCOPICITY		No increase in weight at 90% relative humidity.	
SPECIFIC HEAT	E1461	0.77 kJ / kg·K @ 25°C	0.18 BTU / lb·°F @ 77°F
SURFACE BURNING CHARACTERISTICS	E84	Flame Spread Index 0 / Smoke Development Index 0	
WATER VAPOR PERMEABILITY	E96 Wet Cup	0.00 ng / Pa·s·m	0.00 perm-inch
SERVICE TEMPERATURE	Without Load With Load	-268 to 482 °C -268 to 400 °C	-450 to 900 °F -450 to 752 °F

## DENSITY AND COMPRESSIVE STRENGTH

Grade of FOAMGLAS® HLB insulation	Nominal Lot Average Density		Compressive Strength			
	kg/m <sup>3</sup>	pcf	Minimum Lot Average		Lower Specification Limit	
			kPA	psi	kPA	psi
FOAMGLAS® HLB 800	120	7.5	800	116	550	80
FOAMGLAS® HLB 1000	130	8.1	1000	145	690	100
FOAMGLAS® HLB 1200	140	8.7	1200	174	830	120
FOAMGLAS® HLB 1400	150	9.4	1400	203	970	140
FOAMGLAS® HLB 1600	160	10.0	1600	232	1100	160
FOAMGLAS® HLB 2400	200	12.5	2400	348	1650	240

## THERMAL CONDUCTIVITY (λ) VALUES

Grade of FOAMGLAS® HLB insulation	At 10°C in W / (m · K)		At 75°F in Btu · in/(hr · ft <sup>2</sup> · °F)	
	Maximum Lot Average Value	Highest Single Measured Value	Maximum Lot Average Value	Highest Single Measured Value
FOAMGLAS® HLB 800	0.043	0.044	0.314	0.321
FOAMGLAS® HLB 1000	0.044	0.046	0.321	0.334
FOAMGLAS® HLB 1200	0.046	0.048	0.334	0.348
FOAMGLAS® HLB 1400	0.047	0.049	0.341	0.355
FOAMGLAS® HLB 1600	0.048	0.050	0.348	0.362
FOAMGLAS® HLB 2400	0.056	0.058	0.403	0.417

Pittsburgh Corning Corporation  
Global Industry Headquarters  
800 Presque Isle Drive  
Pittsburgh, PA 15239 USA

For web-based Sales and  
Technical Service inquiries,  
please visit [www.foamglas.com](http://www.foamglas.com)

To contact by phone or email:  
Industrial & Commercial Sales

Americas  
+1 724 327 6100  
+1 800 545 5001

Asia-Pacific  
Singapore: +65 9635 9184  
China: +86 (0) 21 6140 8002  
Japan: +81 50 7554 0248

Europe, Middle East  
& Africa  
+32 13 661 721

Technical Services

Americas & Asia Pacific  
+1 800 327 6126  
[Foamglastechnical@pghcorning.com](mailto:Foamglastechnical@pghcorning.com)

Europe, Middle East & Africa  
+32 13 611 468  
[Industrytechnical@foamglas.com](mailto:Industrytechnical@foamglas.com)

The information contained herein is accurate and reliable to the best of our knowledge. But, because Pittsburgh Corning Corporation has no control over installation workmanship, accessory materials or conditions of application, NO EXPRESSED OR IMPLIED WARRANTY OF ANY KIND, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IS MADE as to the performance of an installation containing Pittsburgh Corning products. In no event shall Pittsburgh Corning be liable for any damages arising because of product failure, whether incidental, special, consequential or punitive, regardless of the theory of liability upon which any such damages are claimed. Pittsburgh Corning Corporation provides written warranties for many of its products, and such warranties take precedence over the statements contained herein.