



FOAMGLAS[®] HLB 1200 INSULATION

HIGH-LOAD-BEARING CELLULAR GLASS INSULATION IN ACCORDANCE WITH EN 14305

FOAMGLAS[®] HLB 1200 Insulation is specially designed for high-load-bearing industrial applications. Its 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.



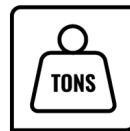
Features



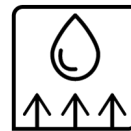
Noncombustible



Impermeable to
water and vapor



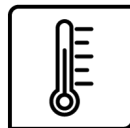
High compressive
strength



Nonabsorbent



Corrosion/
chemical resistant



Constant
insulating
efficiency



Easy to work
with



Vermine
resistant



Long term
dimensional
stability



Ecological

Applications

- Cold and cryogenic tank bases
- Hot and high temperature tank bases
- Load-bearing pipe supports
- Secondary containment corner protection
- Special load-bearing applications

Formats & Dimensions

Length x Width (mm)	600 x 450							
Thickness (mm)	40	50	60	70	80	90	100	110
Units per package	12	10	8	7	6	6	5	5
Square metres (m ²)	3.24	2.70	2.16	1.89	1.62	1.62	1.35	1.35
Length x Width (mm)	600 x 450							
Thickness (mm)	120	130	140	150	160	170	180	
Units per package	4	4	4	3	3	3	3	
Square metres (m ²)	1.08	1.08	1.08	0.81	0.81	0.81	0.81	

Other dimensions and thicknesses are available on request.

General Product Characteristics

PROPERTY	TEST METHOD	VALUE
Composition	–	Soda-lime glass. Inorganic. No fibers or binders.
Capillarity	–	Zero
Hygroscopicity	–	Zero
Specific Heat	EN ISO 10456	1000 J/(kg·K)

Physical and Thermal Characteristics in Accordance with EN 14305 ¹

PROPERTY	TEST METHOD	DECLARED VALUE
Thermal Conductivity	EN ISO 13787	Refer to table down below
Length	EN 13467	600 mm ± 2 mm (other lengths following order)
Width	EN 822	± 2 mm
Thickness	EN 823	± 2 mm
Squareness	EN 13467	± 3 mm
Flatness	EN 825	± 2 mm
Density (±15%)	EN 1602	140 kg/m ³
Service Temperature	EN 14706	-265 to 430°C
Combustibility	EN 13501-1	Euroclass A1, Non-combustible
Compressive Strength	EN 826 Annexe A	CS ≥ 1200 kPa
Bending Strength	EN 12089	BS ≥ 550 kPa
Point Load	EN 12430	PL ≤ 1 mm
Tensile perpendicular to faces strength	EN 1607	TR ≥ 200 kPa
Compressive Creep	EN 1606	CC (1.5/1/50) ≥ 225 kPa
Water Vapor Resistance	EN ISO 10456	μ = ∞
Water Absorption	EN 1609	< 0.5 kg/m ²
Trace quantities of water soluble chloride	EN 13468	CL ≤ 2 mg/kg
Coefficient of Linear Thermal Expansion	EN 13471	Above ambient temperatures : 25 to 300 °C: 9.0 x 10 ⁻⁶ /K
		Cryogenic temperatures: -170 to 25 °C: 6.6 x 10 ⁻⁶ /K

Thermal Conductivity (λ) Values at Select Mean Temperatures (EN ISO 13787)²

TEMPERATURE	°C	-180	-150	-120	-80	-40	0	+40	+80	+120	+180	+240	+300
THERMAL CONDUCTIVITY (λ)	W/(m·K)	0.026	0.028	0.031	0.035	0.040	0.046	0.053	0.060	0.068	0.082	0.097	0.114

¹ CE-marking ensures conformity with the mandatory essential requirements of CPR as mentioned in EN 14305; within the CEN Keymark certification all mentioned characteristics are certified by an empowered, notified and accredited 3rd party.

² The values were determined by evaluating a polynomial at the insulation mean temperature. Contact Owens Corning for assistance applying our design polynomials to your application.

For additional information on FOAMGLAS® HLB insulation or systems, please contact Owens Corning at any of our worldwide offices or visit us at www.foamglas.com. The information contained herein is accurate and reliable to the best of our knowledge. But, because Pittsburgh Corning, LLC 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 Owens Corning products. In no event shall Pittsburgh Corning, LLC 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, LLC provides written warranties for many of its products, and such warranties take precedence over the statements contained herein.

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