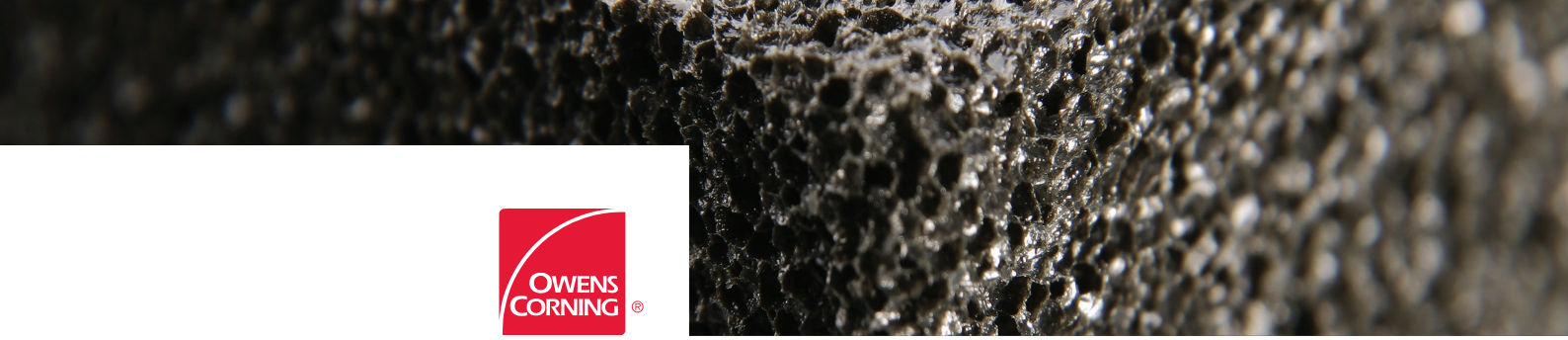

FOAMGLAS® HLB 1600 INSULATION

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

FOAMGLAS® HLB 1600 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.

Features


Noncombustible


Impermeable to water and vapor

High compressive strength


Nonabsorbent


Corrosion/ chemical resistant


Constant insulating efficiency


Easy to work with


Vermin resistant


Long term dimensional stability


Ecological

Applications

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

Formats & Dimensions

Length x Width (mm)	600 x 450								
Thickness (mm)	40	**50**	60	70	**75**	80	90	**100**	110
Units per package	12	**10**	8	7	**7**	6	6	**5**	5
Square metres (m²)	3.24	**2.70**	2.16	1.89	**1.89**	1.62	1.62	**1.35**	1.35

Length x Width (mm)	600 x 450								
Thickness (mm)	120	**125**	130	140	**150**	160	170	**175**	180
Units per package	4	**4**	4	4	**3**	3	3	**3**	3
Square metres (m²)	1.08	**1.08**	1.08	1.08	**0.81**	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	160 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 > 1600 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) ≥ 600 kPa
Water Vapor Resistance	EN ISO 10456	μ = ∞
Water Absorption	EN 1609	< 0.5 kg/m²
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)	0.028	0.030	0.033	0.038	0.043	0.049	0.056	0.063	0.071	0.085	0.101	0.119

[1] CE-marking ensures conformity with the mandatory essential requirements of CPR as mentioned in EN 14305.

[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.

Industrial & Commercial Sales

Americas
+1 800 327 6126

Asia-Pacific
Singapore: +65 9635 9184
China: +86 (0) 21 6101 7179
Japan: +81 3 6365 4307

Europe, Middle East & Africa
+32 13 661 721

Technical Services

Americas & Asia-Pacific
+1 800 327 6126
foamglastechnical@owenscorning.com

Europe, Middle East & Africa
+32 13 611 468
Industry.tech@owenscorning.com

FOAMGLAS®

PITTSBURGH CORNING EUROPE NV
ALBERTKADE 1, B-3980
TESSENDERLO, BELGIUM

+32 13 66 17 21
For web-based Sales and Technical Service inquiries, please visit **www.foamglas.com**

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