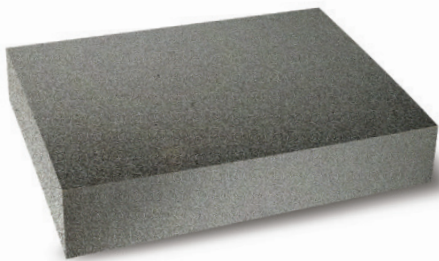




# FOAMGLAS<sup>®</sup> HLB 1600 INSULATION

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

FOAMGLAS<sup>®</sup> 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.



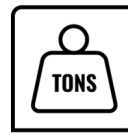
### Features



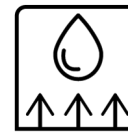
Noncombustible



Impermeable to water and vapor



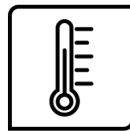
High compressive strength



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	<b>50</b>	60	70	<b>75</b>	80	90	<b>100</b>	110
Units per package	12	<b>10</b>	8	7	<b>7</b>	6	6	<b>5</b>	5
Square metres (m <sup>2</sup> )	3.24	<b>2.70</b>	2.16	1.89	<b>1.89</b>	1.62	1.62	<b>1.35</b>	1.35

Length x Width (mm)	600 x 450								
Thickness (mm)	120	<b>125</b>	130	140	<b>150</b>	160	170	<b>175</b>	180
Units per package	4	<b>4</b>	4	4	<b>3</b>	3	3	<b>3</b>	3
Square metres (m <sup>2</sup> )	1.08	<b>1.08</b>	1.08	1.08	<b>0.81</b>	0.81	0.81	<b>0.81</b>	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<sup>1</sup>

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 <sup>3</sup>
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/m <sup>2</sup>
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 <sup>-6</sup> /K Cryogenic temperatures: -170 to +25 °C: 6.6 x 10 <sup>-6</sup> /K

## Thermal Conductivity (λ) Values at Select Mean Temperatures (EN ISO 13787)<sup>2</sup>

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	0.046	0.056	0.063	0.071	0.085	0.101	0.119

<sup>1</sup>) CE-marking ensures conformity with the mandatory essential requirements of CPR as mentioned in EN 14305.

<sup>2</sup>) 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.

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