

GreenGuard®

LG XPS Insulation Board for Cold Storage Applications



- Blowing agent blend with GWP of less than 50
- R-value of 5.0 per inch
- Available as Type IV, Type V Type VI, and Type VII
- Retains insulating properties over time
- Water resistance makes XPS Insulation an excellent choice for foundation and below-slab use

GreenGuard®

LG XPS Insulation Board

Description

Kingspan GreenGuard® GG30-LG, GG40-LG, GG60-LG and GG100-LG XPS Insulation Board comprises 1.5" to 4" thick closed-cell polystyrene (XPS) with a minimum compressive strength of 30 psi. It has a formulation resulting in a GWP of less than 50. It has high water resistance and an R-value of 5.0 per inch of thickness. It is available in a square edge board, ship-lap edge board or score-board

Compliance

Where sold, compliant with state HFC regulations.
Intertek CCCR 1021;
UL Listing - R11183;
Miami-Dade County, FL Approval;
CCMC 12722-L.

Handling & Storage

When stored outdoors, all product should be protected from exposure to direct sunlight using the original packaging or an opaque, light-colored tarp. Material that has been unwrapped should be covered and rewrapped.

WARNING: This product is combustible. A protective barrier or thermal barrier is required as specified in the appropriate building code. Protect it from exposure to open flame or other ignition sources during shipping, storage and installation.

Health & Safety

Kingspan GreenGuard® LG XPS Insulation Board is made of synthetic materials that are generally not recognized as providing a food source for insects, fungus, mold or mildew. It should always be properly installed and stored.

Kingspan GreenGuard® LG XPS Insulation Board is free of regulated HFCs.

The product should not be used as an exposed interior surface in buildings where people can be expected to be present. An approved fire protection barrier, such as ½" gypsum wallboard or equivalent, should be applied between this product and the interior of such buildings. Fire and building codes should be followed.

All assemblies should be evaluated for effectiveness and location of vapor retarders to avoid condensation and subsequent damage to structures (ASHRAE Handbook of Fundamentals). Since foam sheathings are non-structural, they must be installed over adequately braced framing in accordance with local building codes.

WARNING: Do not stand on or otherwise support your weight on this product unless it is fully supported by a load bearing surface.

To ensure you are viewing the most recent and accurate product information, please visit this link
<https://www.kingspan.com/us/en/products/rigid-insulation/insulation-board/>

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Product Data					
Property	Test Method	Value			
		GG25	GG40	GG60	GG100*
Thickness	Millimeter	50, 64, 76, 101	50, 76, 101	38, 50, 76	50
Thickness	Inch	2, 2 ½, 3, 4	2, 3, 4	1 ½, 2*, 3	2
Type ¹	ASTM C578	IV	VI	VII	V
Compressive Strength					
Min. (kPa @ 10% Deflection)		210	276	414	689
(psi @ 10% Deflection)		30.5	40	60	100
Water Absorption					
Max. (% by volume)	ASTM C272	0.3	0.3	0.3	0.1
Water Vapor Permeance, Max (perm)					
	ASTM E96 (Desiccant Method)	1.5	1.1	1.1	0.8
Dimensional Stability					
Max. (Linear % Change)	ASTM D2126	2.0	2.0	2.0	
Oxygen Index Min. %	ASTM D2863	24	24	24	
Flexural Strength Min. (kPa)					
	ASTM C203	345	414	517	689
(psi)		50	60	75	100
Service Temperature Max. °F					
		165	165	165	
Thermal					
Thermal Resistance R-value ¹ (°F-ft ² hr/Btu in thick)	ASTM C518 (@75°F Mean Temperature)	5.0	5.0	5.0	5.0

¹ R-values listed are based on 2" aged product at 75°F mean temperature in accordance with FTC rule (16 CFR, Part 460) and the testing requirements of ASTM C578.

*Full ASTM C578 listing not available.

For more information on specific building product recommendations and installation guidelines, contact your Kingspan Insulation LLC representative.

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