

GreenGuard[®]

LG XPS Insulation Board for Cold Storage Applications



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

GreenGuard® LG XPS Insulation Board

Description

Kingspan GreenGuard® GG30-LG, GG40-LG, and GG60-LG XPS Insulation Board comprises 1" 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 CCRR 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.

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

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Product Data				
Property	Test Method	Value		
General				
Thickness	Millimeter	25, 38, 50, 76, 101	50, 76, 101	38, 50, 76
Thickness	Inch	2, 2 ½, 3, 4	2, 3, 4	1 ½, 2 ½, 3
Type ¹	ASTM C 578	IV	VI	VII
Compressive Strength Min. (kPa @ 10% Deflection) (psi @ 10% Deflection)		210 30.5	276 40	414 60
Water Absorption Max. (% by volume)	ASTM C 272	0.3	0.3	0.3
Water Vapor Permeance, Max ² (perm)	ASTM E 96 (Desiccant Method)	1.5	1.1	1.1
Dimensional Stability Max. (Linear % Change)	ASTM D 2126	2.0	2.0	2.0
Oxygen Index Min. %	ASTM D 2863	24	24	24
Flexural Strength Min. (kPa) (psi)	ASTM C 203	345 50	414 60	517 75
Service Temperature Max. ³ F		165	165	165
Thermal				
Thermal Resistance R-value ¹ (°F-ft ² hr/Btu in thick)	ASTM C 518 (@75° Mean Temperature)	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.

² Permeance is shown for 1" thick board. Permeance typically decreases as board thickness increases.

* Custom thicknesses available



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