

GreenGuard®

LG XPS Drainage Channel Board

For use in protected membrane roof assemblies requiring 40 PSI or 60 PSI minimum compressive strength and drainage channels



- Built-in drainage channels
- Designed for high-load applications requiring insulation with minimum compressive strength of 40 psi or 60 psi
- R-value of 5.0 per inch of thickness
- Produced with a blowing agent blend that has a GWP of less than 50

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Description

Kingspan GreenGuard® LG XPS Drainage Channel Insulation Board comprises closed-cell extruded polystyrene (XPS) and is available with a minimum compressive strength of 40 psi or 60 psi. Produced with a blowing agent blend that has a GWP of less than 50. It has high water resistance and R-value of 5.0 per inch of thickness. Drainage channels are cut along all 4 sides of the board at .5 inches deep and .25 inches wide. When placed facing down in a protected membrane roof assembly (PMRA), channels permit drainage of water that seeps through to the roof membrane.

Compliance

Intertek CCRR-1021;
CA BEARHFTI Lic. No. T 1506;
Florida Product Approval
Miami-Dade County, FL
UL Listings - R11183

GreenGuard XPS is not recommended for exterior wall applications over 6 stories tall. Contact Kingspan for approved applications.

Handling & Storage

When stored outdoors, XPS should be protected from exposure to direct sunlight using the original packaging or an opaque, light-colored tarp. XPS that has been unwrapped should be covered or rewrapped. XPS left exposed should be covered within 60 days to minimize UV damage. Once the exposed XPS is covered, the damage stops and is limited to the thin layer of cells on the surface that was exposed to the UV. XPS cells below the UV exposed surface layer are generally undamaged and the XPS overall performance remains intact.

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 Drainage Channel 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. For detailed safe handling and safety information, refer to the product SDS.

GreenGuard LG XPS Drainage Channel Board is free of HFC 134a.

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



Please scan the QR code for the most recent product information.

Product Data		
Property	Test Method	Result
General		
Nominal Thickness (in)		1½*, 2, 3
Nominal Board Width (ft)		2
Nominal Board Length (ft)		8
Edge Profile		Channel
Property Type	ASTM C578	VI /VII
Compressive Strength Min. (psi @10% deflection)	ASTM D1621	40 /60
Water Absorption Max (% by volume)	ASTM C272	0.3
Water Vapor Permeance (Perm) ³	ASTM E96 Desiccant Method	≤1.1
Density Min. (lb./ft ³)	ASTM C303	1.8 /2.2
Service Temperature (Max °F)		165
Thermal		
Thermal Resistance, R-value ¹ (°F·ft ² hr/Btu per in thick)	ASTM C518 (@75° Mean Temperature)	5.0
Thermal Conductivity, k-value (Btu·in/hr·ft ² ·°F)	ASTM C518 (@75° Mean Temperature)	0.2
Fire & Smoke		
Flame Spread ² Smoke Developed ²	ASTM E84 /UL723	15 (Class A) 140

¹Specimens are aged and tested in accordance with the FTC Rule (16 CFR, Part 460) and ASTM C578.
²These numerical flame spread and smoke developed ratings are not intended to reflect hazards presented by these materials under actual fire conditions. All applicable building codes must be followed.
³Permeance shown for 1 inch thick (25.4mm) board. Permeance typically decreases as board thickness increases.
⁴R-values listed are in accordance with the testing requirements of ASTM C578 and are based on 2" aged product at 75°F mean temperature.
* 1½ inch only available in 60 psi

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

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