

GreenGuard®

LG XPS Insulation Board

For use as general purpose insulation for roofing, wall and foundation applications.

The Kingspan GreenGuard® LG XPS Insulation Board offers an R-value of 5.0 per inch of thickness and is ideal for a variety of applications including below slab, below grade along the foundation, inside basement walls, exterior insulation over wood sheathing and residing as well as Continuous Insulation (CI) for above grade walls and below grade walls and floors. LG XPS Insulation Boards are produced with a blowing agent blend that has a GWP of less than 50. Rigid extruded polystyrene insulation (XPS) can be used as general purpose insulation for applications requiring a minimum 25, 40, or 60 PSI compressive strength.

- Where sold, compliant with state HFC regulations
- More moisture resistant than standard EPS
- Retains insulating properties over time

Kingspan GreenGuard® GG25-LG XPS Insulation Board

- R-value of 5.0 per inch of thickness
- Meets and exceeds all Type IV and Type X specifications
- Continuous Insulation (CI) for walls
- Insulates foundation exteriors and protects against backfill damage
- Available as pre-cut 16 inch wide board for cavity wall
- Available as score board for cavity wall; 4' x 8' sheet snaps into 16 in., 24 in. or 32 in. widths



Kingspan GreenGuard® GG40-LG XPS Insulation Board

- R-value of 5.0 per inch of thickness
- Designed for high-load applications requiring insulation with minimum compressive strength of 40 psi
- Excellent for high load floor and roofing systems, ice rinks, roadways as well as plaza and parking decks
- Meets ASTM C578 Type VI requirements
- Available in a square edge board or drainage channel board



Kingspan GreenGuard® GG60-LG XPS Insulation Board

- R-value of 5.0 per inch of thickness
- Designed for high-load applications requiring insulation with minimum compressive strength of 60 psi
- Meets ASTM C578 Type VII requirements
- Excellent for low-temperature freezer floors, cold storage facility floors, ice rinks and parking decks
- Available in a square edge board or drainage channel board



GreenGuard® LG XPS Insulation Board

Product Data				
Property	Test Method	Kingspan GreenGuard® GG25-LG XPS Insulation Board	Kingspan GreenGuard® GG40-LG XPS Insulation Board	Kingspan GreenGuard® GG60-LG XPS Insulation Board
Nominal Board Dimensions (in) ⁴		½, ¾, 1, 1½, 2, 2½, 3, 4	2, 3, 4	1½, 2, 3
Nominal Board Width ⁴		16 in / 2 ft / 4 ft	2 ft / 4 ft	2 ft / 4 ft
Nominal Board Length (ft) ⁴		8	8	8
Edge Profile ⁴		Square or Shiplap	Square or DC Board	Square or DC Board
Property Type	ASTM C578	IV	VI	VII
Compressive Strength Min. (psi @10% deflection)	ASTM D1621	25	40	60
Water Absorption Max (% by volume)	ASTM C272	0.3	0.3	0.3
Water Vapor Permeance ² (Perm)	ASTM E96 Desiccant Method	1.5	1.1	1.1
Density Min. (lb./ft ³)	ASTM C303	1.5	1.8	2.2
Service Temperature (Max °F)		165	165	165
Thermal Resistance, R-value ¹ (°F·ft ² ·hr/Btu)	ASTM C518 (@75° Mean Temperature)	5.0	5.0	5.0
Thermal Conductivity, k-value (Btu·in/hr·ft ² ·°F)	ASTM C518 (@75° Mean Temperature)	0.2	0.2	0.2
Flame Spread ³ Smoke Developed ³	ASTM E84 /UL723	25 (Class A) 140	25 (Class A) 140	25 (Class A) 140

¹Specimens were aged and tested in accordance with FTC Rule (16 CFR, Part 460) and ASTM C578.

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

³These numerical flame spread and smoke developed ratings are not intended to reflect hazards presented by this material under actual fire conditions. All applicable building codes must be followed.

⁴Not all combinations of thickness, length, width and edge profile are available. Please refer to the Kingspan Insulation LLC Purchase Guide.

Compliance

Intertek CCRR-1021;
Intertek CCRR-1022 (Type IV, .5" & .75");
CA BHGS Lic. No. T 1506;
Florida Product Approval;
CCMC 12722-L;
Miami-Dade County, FL (for Type IV & VI, only 1", 1.5", 2", 3", 4")
UL Listings- R11183;
UL - Canada, File R11183.

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 or rewrapped.

WARNING: Kingspan GreenGuard® LG XPS Insulation Board 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

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.

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

Kingspan Insulation LLC believes the information and recommendations herein to be accurate and reliable. However, since use conditions are not within its control, Kingspan Insulation LLC does not guarantee results from use of such products or other information herein and disclaims all liability from any resulting damage or loss. No warranty, express or implied, is given as to the merchantability, fitness for particular purpose, or otherwise with respect to the products referred to.

Kingspan Insulation LLC

2100 Riveredge Parkway | Suite 175
Atlanta | Georgia 30328
T: +1 (800) 241 4402 F: +1 (678) 589 7325
E: info@kingspaninsulation.us
www.kingspaninsulation.us

© Kingspan, the G Device and the Lion Device are Registered Trademarks of the Kingspan Group plc in the US, Canada and other countries. All rights reserved.

© GreenGuard is a Registered Trademark of the Kingspan Group plc in the US. All rights reserved.

kingspan-green-guard-lg-xps-boards-line-sheet-en-us-v2.1

Version 2.1 - 02/2023

