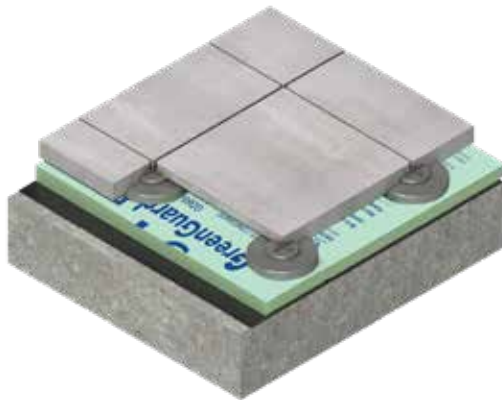


GreenGuard®

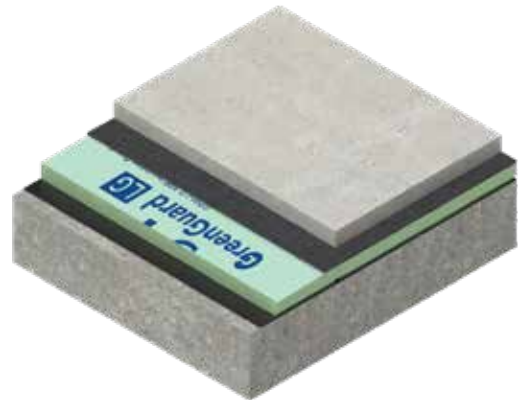
LG XPS Insulation Board for Commercial Roofing & Waterproofing

In buildings with Protected Membrane Roofing (PMR) systems, extruded polystyrene rigid foam insulation board is the leading choice. The roof becomes an active space, either as a landscaped green roof or as a terrace or plaza level that occupants can use. Kingspan GreenGuard® LG XPS Insulation Board provides high compressive strength, low water absorption and durability, protecting the roof membrane from physical and weather damage during and after construction.

- Extruded Polystyrene is the industry standard for insulation specifications in these systems
- Compatible with all major waterproofing systems
- Available in 40 psi and 60 psi
- Edge treatments: drainage channel, square edge



Plaza Deck Applications



Concrete Ballast Applications



Stone Ballast Applications



Vegetative Roof Applications

GreenGuard® LG XPS Insulation Board

| Product Data | | | |
|---|---------------------------------------|---|---|
| Size Availability | | Kingspan GreenGuard® GG40-LG XPS Insulation Board 40 psi XPS Insulation Board | Kingspan GreenGuard® GG60-LG XPS Insulation Board 60 psi XPS Insulation Board |
| Edge Profile, Nominal Thickness (in) x Nominal Board Width (ft) x Nominal Board Length (ft) | Square Edge | 2" x 2' x 8', 3" x 2' x 8', 2" x 4' x 8', 3" x 4' x 8', 4" x 4' x 8' | 1 1/2" x 2' x 8', 2" x 2' x 8', 3" x 2' x 8', 2" x 4' x 8', 3" x 4' x 8' |
| | Drainage Channel | 2" x 2' x 8', 3" x 2' x 8' | 1 1/2" x 2' x 8', 2" x 2' x 8', 3" x 2' x 8' |
| Property | Test Method | Kingspan GreenGuard® GG40-LG XPS Insulation Board 40 psi Insulation Board | Kingspan GreenGuard® GG60-LG XPS Insulation Board 60 psi XPS Insulation Board |
| 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 | 0.3 |
| Water Vapor Permeance (perm) | ASTM E96 (Desiccant Method) | 1.1 | 1.1 |
| Density, Min. (lb/ft ³) | ASTM C303 | 1.8 | 2.2 |
| Recommended Service Temp., Max. (°F) | | 165 | 165 |
| Thermal | | | |
| Thermal Resistance, R-value ¹ (°F.ft ² .hr/Btu per in thick) | ASTM C518 (@75°F Mean Temperature) | 5.0 | 5.0 |
| Fire & Smoke Performance | | | |
| Flame Spread ² Smoke Developed ² | ASTM E84 / UL723 | 25 (Class A) 140 | 25 (Class A) 140 |

¹R-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.

²These 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.

Compliance

Where sold, compliant with state HFC regulations.

Intertek CCRR 1021;

CA BEARHFTI Lic. No. T 1506;

CCMC 12722-L;

Miami-Dade County, FL

UL Listings - R11183;

Florida Product Approval (40 & 60 psi only).

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.

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/>

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

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: Kingspan GreenGuard® LG XPS Insulation Board is combustible. A protective barrier or a 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. structures (ASHRAE Handbook of Fundamentals).

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

www.kingspaninsulation.ca

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