

GreenGuard®

Type IV XPS Insulation Board

Submittal

Job Reference

Job Name

Job Location

Submitted By

Submitted By

Date

Phone

Date

Phone

Introduction

Kingspan GreenGuard® Type IV XPS Insulation Board comprises closed-cell extruded polystyrene (XPS) with a minimum compressive strength of 25 psi. It has high water resistance and R-value of 5.0 per inch of thickness. It is available in a square edge board, ship-lap edge board, pre-cut 16 inch wide board and a scoreboard.

Application

For use as general purpose insulation for roofing, wall and foundation applications requiring 25 psi minimum compressive strength.

- R-value of 5.0 per inch of thickness
- More moisture resistant than standard EPS
- Meets and exceeds all Type IV and Type X specifications
- 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

Compliance

Intertek CCRR 1021;
Intertek CCRR 1022;
CA BEARHFTI Lic. No. T 1506;
Florida Product Approval;
Miami-Dade County, FL Approval;
UL Listings - R11183.

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

Warranty

Thermal Warranties available. Contact your Kingspan representative for copies or contact Kingspan Insulation LLC, 800-241-4402 for additional information, or visit www.kingspaninsulation.us.



GreenGuard[®]

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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[®] Type IV XPS Insulation Board is made of synthetic materials that are generally recognized as not 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 product SDS.

Kingspan GreenGuard[®] Type IV XPS Insulation Board is HCFC free. This 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.

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.

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Product Data		
Property	Test Method	Value
General		
Nominal Thickness (in) ⁴		½, ¾, 1, 1½, 2, 2½, 3, 4
Nominal Board Width (ft) ⁴		16 in / 2 ft / 4 ft
Nominal Board Length (ft) ⁴		8
Edge Profile ⁴		Square or Shiplap
Property Type	ASTM C578	IV
Compressive Strength, Min. (psi@10% deflection)	ASTM D1621	25
Water Absorption, Max. (% by volume)	ASTM C272	0.3
Water Vapor Permeance, Max ² (perm)	ASTM E96 (Desiccant Method)	1.5
Density, Min. (lb/ft ³)	ASTM C303	1.45
Recommended Service Temp., Max. °F		165
Thermal		
Thermal Resistance, R-value ¹ (°F·ft ² ·hr/Btu per in thick)	ASTM C518 (@75°F Mean Temperature)	5.0
Thermal Conductivity, k-value (Btu·in/hr·ft ² ·°F)	ASTM C518 (@75°F Mean Temperature)	0.2
Fire & Smoke		
Flame Spread ³ Smoke Developed ³	ASTM E84 / UL723	25 (Class A) 140

¹ R-values listed are based on 1" 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 shown is for 1" thick board. Permeance typically decreases as board thickness increases.
³ These 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.
⁴ Not all combinations of thickness, length, width and edge profile are available. Please refer to the Kingspan Insulation LLC Purchase Guide.



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

