



GreenGuard® Type IV XPS Insulation Board

SUBMITTAL

Job Reference

Job Name

Job Location

Submitted To

Submitted By

Date

Phone

Application

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

Description

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 score board.

Benefits

- Meets or exceeds Type IV and exceeds Type X specifications
- Lightweight, easy to cut with a knife
- Reduces energy loss through the foundation and helps control moisture inside the basement
- Water resistance makes it an excellent choice for foundation and below-slab use
- Retains insulating properties over time

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Code Compliance

Intertek CCRR 1021; Intertek CCRR 1022;
CA BEARHFTI Lic. No. T 1506;
Florida Product Approval – No. FL14164-R;
CCMC 12722-L;
MN Dept. of Energy – Chapter 7640;
FM Approvals - see RoofNav Roof System Listings;
Miami-Dade County, FL; NOA No. 17-0920.01;
UL – See Classification Certificate A183.

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 or www.kingspaninsulation.ca



GreenGuard® Type IV XPS Insulation Board

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 re-wrapped.

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 not recognized as providing a food source for insects, fungus, mold or mildew. It should always be properly installed and stored.

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 1/2" 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.

For the most current product and compliance information go to www.kingspaninsulation.us

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.

Product Data

Property	Test Method	Value
General		
Nominal Thickness (in) ⁴		½, ¾, 1, 1½, 2, 2½, 3, 4
Nominal Board Width ⁴		16 in / 2 ft / 4 ft
Nominal Board Length (in) ⁴		8
Edge Profile ⁴		Square or Shiplap
Property Type ⁵	ASTM C578	IV
Compressive Strength Min. (psi @ 10% Deflection)	ASTM D1621	25
Water Absorption, Max. (% by volume)	ASTM C272	0.1
Water Vapor Permeance, MAX ² (Perm)	ASTM E96 (Desiccant Method)	1.5
Density, Min. (lb/ft ³)	ASTM C303	1.6
Recommended Service Temp., 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 Resistance k-value ¹ (Btu-in/hr-ft ² -°F)	ASTM C518 (@75° Mean Temperature)	0.2
Fire & Smoke		
Flame Spread ³ Smoke Developed ³	ASTM E84 / UL723	15 (Class A) 140

¹ Specimens are aged and tested in accordance with the FTC Rule (16 CFR, Part 460) and ASTM C 578.

² Permeance is shown 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.

⁵ Kingspan GreenGuard Type IV XPS Insulation Board meets or exceeds Type IV.



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