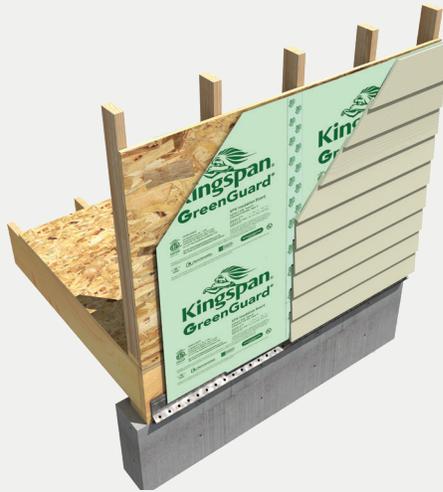
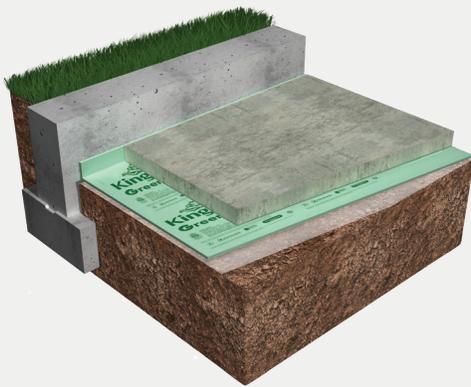




# GreenGuard™ Type 4 XPS Insulation Board

FOR RESIDENTIAL APPLICATIONS



- R-Value of 0.88 / 25 mm (5.0 per inch) of thickness
- Available with compressive strength of 210 kPa (30 psi) or 276 kPa (40 psi)
- Meets or exceeds Type 4 and Types 1, 2, and 3 specifications
- Lightweight, easy to cut with a knife
- Does not absorb moisture
- Retains insulating properties over time
- Can be used to meet code requirements for continuous insulation when installed directly over studs or over wood sheathing
- 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



# GreenGuard™ Type 4 XPS Insulation Board

## Description

Kingspan GreenGuard™ Type 4 XPS Insulation Board comprises ½” to 4” thick closed-cell polystyrene (XPS) with a minimum compressive strength of 30 psi. It has high water resistance and an R-Value of 0,88 /25 mm (5.0 per inch) of thickness. It is available in a square edge board or ship-lap edge board.

## Compliance

Intertek CCRR-1021;  
 Intertek CCRR-1022;  
 CCMC 12722-L;  
 MN Dept. of Energy Chapter 7640;  
 FM Approvals- see RoofNav Roof System Listings;  
 UL LLC - See Classification Certificate A183;  
 UL LLC - 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 and rewrapped.

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 4 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 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.

For the most current product and compliance information go to [www.kingspaninsulation.us](http://www.kingspaninsulation.us).

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## Product Data

Property	Test Method	Value	
<b>General</b>			
		30 psi	40 psi
Thickness	Millimeter	13, 20, 25, 38, 50, 64, 76, 101	50, 76, 101
Thickness	Inch	½, ¾, 1, 1½, 2, 2½, 3, 4	2, 3, 4
Type <sup>1</sup>	CAN / ULC-S701	4	4
Compressive Strength Min. (kPa @ 10% Deflection) (psi @ 10% Deflection)		210 30	276 40
Water Absorption Max. (% by volume)	ASTM C 272	0.3	0.3
Water Vapor Permeance ng/Pa·s·m <sup>2</sup> Perm <sup>2</sup>	ASTM E 96 (Desiccant Method)	60 1	60 1
Dimensional Stability Max. (Linear % Change)	ASTM D 2126	1.5	1.5
Limiting Oxygen Index Min. %	ASTM D 2863	24	24
Flexural Strength (kPa) (psi)	ASTM C 203	350 51	414 60
Service Temperature Max. °F		165	165
<b>Thermal</b>			
Thermal Resistance R-value <sup>3</sup> (m <sup>2</sup> ·°C / W) (°F·ft <sup>2</sup> hr / Btu)	ASTM C 518 (@75° Mean Temperature)	.88 5.0 per 25mm per inch	.88 5.0 per 25mm per inch

<sup>1</sup> Kingspan GreenGuard Type 4 XPS Insulation Board meets or exceeds Types 1, 2, and 3.

<sup>2</sup> Permeance shown for 1 in. thick board. Permeance typically decreases as board thickness increases.

<sup>3</sup> Specimens are aged and tested in accordance with the FTC Rule (16 CFR, Part 460) and ASTM C 578.



**Kingspan Insulation LLC**

2100 RiverEdge Parkway, Suite 175, Atlanta, Georgia 30328  
 info@kingspaninsulation.us

**1-800-241-4402**

**[www.kingspaninsulation.us](http://www.kingspaninsulation.us)**  
**[www.kingspaninsulation.ca](http://www.kingspaninsulation.ca)**

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