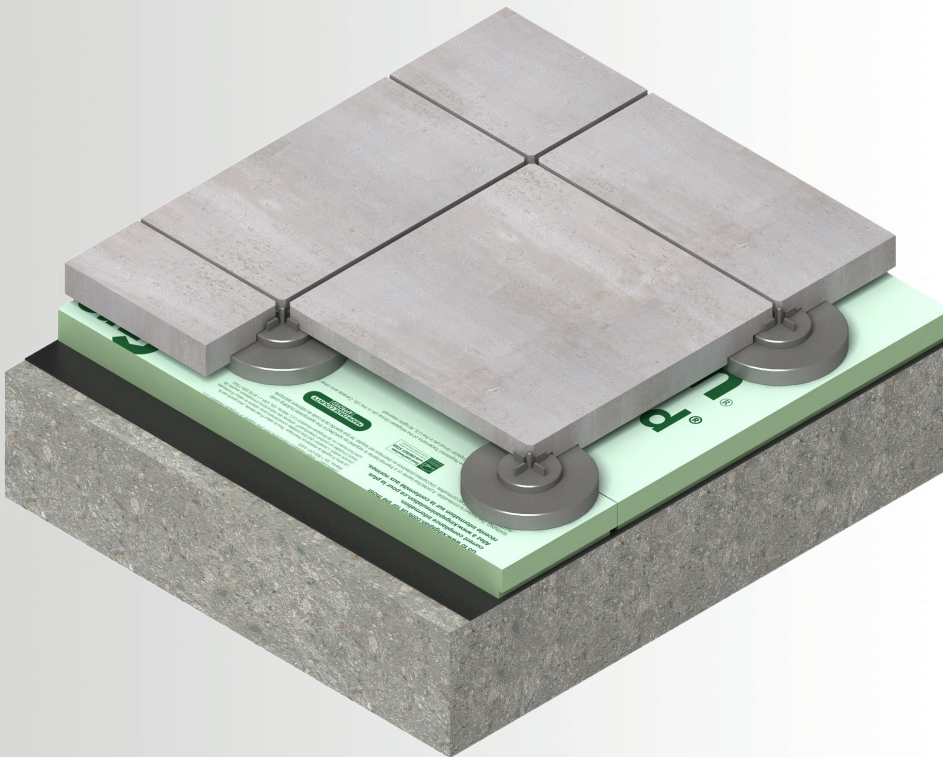




# GreenGuard® XPS Drainage Channel Board

FOR USE IN PROTECTED MEMBRANE ROOF ASSEMBLIES REQUIRING 40 PSI  
OR 60 PSI MINIMUM COMPRESSIVE STRENGTH AND DRAINAGE CHANNELS



- Built-in drainage channels
- Designed for high-load applications requiring insulation with minimum compressive strength of 40 psi or 60 psi
- R-value of 5.0 per inch of thickness
- Lightweight, durable...easy to use
- Does not absorb moisture
- Retains insulating properties over time
- Made of synthetic materials that are generally not recognized as providing a food source for insects, fungus, mold or mildew



# GreenGuard® XPS Drainage Channel Board

## Description

*Kingspan GreenGuard®* Drainage Channel Insulation Board comprises closed-cell extruded polystyrene (XPS) and is available with a minimum compressive strength of 40 psi or 60 psi. It has high water resistance and R-value of 5.0 per inch of thickness. Drainage channels are cut along all 4 sides of the board at .5 inches deep and .25 inches wide. When placed facing down in a protected membrane roof assembly (PMRA), channels permit drainage of water that seeps through to the roof membrane.

## Compliance

Intertek CCRR-1021;  
CA BEARHFTI Lic. No. TB1334;  
Florida Product Approval No. FL14164;  
CCMC 12722-L;  
MN Dept. of Energy Chapter 7640;  
Miami-Dade County, FL - NOA No. 12-0629.04;  
UL - See Classification Certificate A184;  
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 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®* Drainage Channel 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.

*Kingspan GreenGuard®* Drainage Channel Insulation Board is HCFC free.

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.

## Product Data

Property	Test Method	Result
General		
Nominal Thickness (in)		1½", 2, 3, 4*
Nominal Board Width( ft)		2
Nominal Board Length (ft)		8
Edge Profile		Channel
Property Type	ASTM C 578	VI / VII
Compressive Strength Min. (psi @10% deflection)	ASTM D 1621	40 / 60
Water Absorption Max (% by volume)	ASTM C 272	0.1
Water Vapor Permeance (Perm)	ASTM E 96 Desiccant Method	<1.0
Density Min. (lb./ft <sup>3</sup> )	ASTM C 303	1.8 / 2.2
Service Temperature (Max °F)		165
Thermal		
Thermal Resistance, R-value <sup>1</sup> (°F-ft <sup>2</sup> hr/Btu per in thick)	ASTM C 518 (@75° Mean Temperature)	5.0
Thermal Conductivity, k-value (Btu-in/hr-ft <sup>2</sup> ·°F)	ASTM C 518 (@75° Mean Temperature)	0.2
Fire & Smoke		
Flame Spread <sup>2</sup>		15 (Class A)
Smoke Developed <sup>2</sup>	ASTM E 84 / UL723	140

<sup>1</sup> Specimens are aged and tested in accordance with the FTC Rule (16 CFR, Part 460) and ASTM C 578.  
<sup>2</sup> These numerical flame spread and smoke developed ratings are not intended to reflect hazards presented by these materials under actual fire conditions. All applicable building codes must be followed.

\* 1½ inch only available in 60 psi and 4 inch only available in 40 psi.

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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