

# GreenGuard®

## Type IV XPS Cavity Board

For cavity wall insulation



- R-value of 5.0 per inch of thickness
- Highly moisture resistant
- Retains insulating properties over time
- Maintains integrity
- Available as pre-cut 16 in. 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.

# GreenGuard®

## Type IV XPS Cavity Board

### Description

Kingspan GreenGuard® Type IV XPS Cavity 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 designed specifically for cavity wall applications and fits tightly between wall ties. It is available as either pre-cut 16 inch wide board or score board for cavity wall; 4' x 8' sheet snaps into 16 inch, 24 inch or 32 inch widths.

### Compliance

Intertek CCRR 1021;  
 CA BEARHFTI Lic. No. T 1506;  
 Florida Product Approval – No. FL14164-R;  
 CCMC 12722-L;  
 MN Dept. of Energy – Chapter 7640;  
 Miami-Dade County, FL;  
 UL Listings- R11183.

### 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 Cavity 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 Cavity 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.

Product Data		
Property	Test Method	Value
General		
Nominal Thickness (in)		1*, 1½*, 2, 2½, 3
Nominal Board Width		16 in / 4 ft
Nominal Board Length (ft)		8
Edge Profile		Square or Score
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. <sup>2</sup> (perm)	ASTM E96 (Desiccant Method)	1.5
Density, Min. (lb/ft <sup>3</sup> )	ASTM C 303	1.45
Recommended Service Temp., Max. °F		165
Thermal		
Thermal Resistance, R-value <sup>1</sup> (°F-ft <sup>2</sup> -hr/Btu per in thick)	ASTM C518 (@75°F Mean Temperature)	5.0
Thermal Conductivity, k-value (Btu-in/hr-ft <sup>2</sup> -°F)	ASTM C518 (@75°F Mean Temperature)	0.2
Fire & Smoke		
Flame Spread <sup>3</sup> Smoke Developed <sup>3</sup>	ASTM E84 / UL723	25 (Class A) 140

<sup>1</sup> Specimens are aged and tested in accordance with FTC Rule (16 CFR, Part 460) and ASTM C578.

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

<sup>3</sup> 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.

\* 16 inch wide board - Made To Order Sizes (MTO)

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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