



# GreenGuard® Plygood® Ultra Sheathing

FOR USE AS NON-STRUCTURAL INSULATING WALL SHEATHING

- Reinforced XPS sheathing
- Designed installation in high wind conditions
- Can be installed with roofing nails, staples or plastic cap nails
- Reinforcing scrim permits pneumatic nailer use
- Lightweight, durable...easy to use
- Does not absorb moisture swell or warp
- 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® Plygood® Ultra Sheathing

## Description

**Kingspan GreenGuard® Plygood® Ultra Sheathing** comprises 3/8" and 7/16" thick closed-cell polystyrene (XPS) with special reinforcing scrim facers on both sides to allow installation using pneumatic nailers. With the reinforcing facers, the product can be used in areas with wind exposure categories B, C, and D, with design wind speeds as high as 150 mph. It is lightweight and easy to install with staples, roofing nails or plastic cap nails.

## Compliance

Intertek CCRR-1022;  
CA BEARHFTI Lic. No. TB1334;  
MN Dept. of Energy Chapter 7640;  
UL LLC. - See Classification Certificate A183;

## 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® Plygood® Ultra Sheathing** 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](http://www.kingspaninsulation.us)

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## Product Data

Property	Test Method	Value	
General			
Nominal Thickness (in)		3/8	7/16
Nominal Board Width( ft)		4	4
Nominal Board Length (ft)		8, 9	8, 9
Water Absorption	ASTM C 272		
Max (% by volume)		2	2
Water Vapor Permeance (Perm)	ASTM E 96 (Desiccant Method)	>1.0	>1.0
Thermal			
Thermal Resistance, R-value <sup>1</sup> (°F·ft² hr/Btu per in thick)	ASTM C 518 (@75° Mean Temperature)	1.5	1.8
Thermal Conductivity, k-value (Btu·in/hr·ft²·° F)	ASTM C 518 (@75° Mean Temperature)	0.2	
Fire & Smoke			
Flame Spread <sup>2</sup>		10	15
Smoke Developed <sup>2</sup>	ASTM E 84 / UL723	45-140	45-140

<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.

Design Wind Speed					
ASTM E330					
(ASCE 7 -05, mph, 3 second gust)					
Building Mean Roof Height (ft)					
Categories	≤15	20	25	30	40
B	150	150	150	150	144
C	136	132	129	127	123
D	124	121	119	117	114

1. Assumes 100% of wind load acting on Plygood Ultra Sheathing with attachment provided by cladding or furring. Refer to IRC 2009 Section 703.11.2 for vinyl siding wind pressure rating adjustments and attachment requirements.
2. Applies to open or enclosed buildings per ASCE 7-05.
3. Based on wall corner zone condition with effective wind area of 10 sq. ft. per ASCE 7-05.
4. No topographic effect (Kzt = 1.0) per ASCE 7-05.
5. No wind directionality reduction (Kd = 1.0) per ASCE 7-05.
6. To convert to ASCE 7-10 ultimate wind speed, multiply tabulated value by 1.29.
7. Consult locally applicable building code for wind-borne debris resistance requirements in the wind-borne debris regions, if applicable. Plygood Ultra is not intended to provide wind-borne debris resistance.



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