



## GreenGuard® Insulation Board & Insulative Sheathing

### GUIDE TO INSTALLATION AS A WATER-RESISTIVE BARRIER (WRB)

#### General

*Kingspan GreenGuard®* Insulation Board (CM, SL) and *Kingspan GreenGuard®* Insulative Sheathings (CM, SLX, Plygood® Ultra) are extruded polystyrene products that can be used as water-resistive barriers in lieu of housewraps and buildingpaper. These products are recognized for use as a water resistive barrier under code report CRR-1021 when they are installed in accordance with the following guidelines:

#### Residing Applications over Existing Siding

When installing *Kingspan GreenGuard®* Insulation Boards and *Kingspan GreenGuard®* Insulative Sheathings over an existing exterior wall in which the existing cladding will not be removed, the existing wall assembly is already providing weather protection. Since there are no code provisions that require that an additional WRB be installed over an existing wall, the **GreenGuard®** Insulation Boards and **GreenGuard®** Insulative Sheathings can be installed using steps 1 through 3 as described below.

#### New Construction Applications or Residing Application After removal of Existing Siding

In new construction applications or residing applications where there is no housewrap or building paper covering the wood sheathing, *Kingspan GreenGuard®* Insulation Boards and *Kingspan GreenGuard®* Insulative Sheathings can be used in lieu of the code-required WRB when they are installed as described below.

#### Step 1

Begin by aligning the insulation or sheathing boards with the bottom edge of the wall. When installing the insulation or sheathing boards vertical joints must occur over framing members, blocking or wood sheathing. Horizontal joints may be unbacked. If installed directly over studs, the studs must be spaced a maximum of 16 inches on center.

#### Step 2

Attach the insulation or sheathing boards using 1 ½ inch long ring shank nails with a 1 inch diameter plastic cap spaced 16 inches on center around the perimeter of the wall and along vertical framing members. Nails should penetrate the framing members a minimum of ¼ inch. Care must be taken not to overdrive nails, since this may result in moisture leakage in areas where the damage extends completely through the product. Damaged areas should be repaired using **GreenGuard®** Contractor Sheathing/Housewrap Tape.

#### Step 3

Trim the insulation or sheathing boards at all window and door openings and at wall penetrations so that gaps are minimized. At pipe and other small penetrations, gaps should be sealed using a silicone sealant or an expanding spray foam sealant. Contact *Kingspan* for a list of approved sealants.

#### Step 4

All vertical and horizontal seams of the insulation or sheathing boards must be sealed using **GreenGuard®** Contractor Sheathing/Seam Tape or **GreenGuard®** Flashing (minimum 2 inch wide strips). As an alternative, a “Z-furring” horizontal seam treatment may be constructed using 16 inch wide strips of **GreenGuard®** Building Wrap sealed to the **GreenGuard®** Insulation or Sheathing boards as shown

#### Step 5

Install **GreenGuard®** Flashing, **GreenGuard®** Butyl Flashing or **GreenGuard®** SuperStretch™ self-adhering flashings at window openings by first installing the sill flashing followed by installation of the window in accordance with the window manufacturer’s installation instructions. Then install the jamb flashing so that it overlaps the sill flashing and then install the head flashing so that it overlaps the jamb flashing. For additional window flashing options, refer to the “GreenGuard Residential Installation Guide”

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

Warning: Foam plastic insulation will ignite if exposed to fire of  
sufficient heat and intensity. Protect foam insulation from exposure  
to open flame or other ignition sources during shipment, storage,  
and installation.

Storage and Handling: When stored outdoors, all materials should  
be protected from exposure to direct sunlight using an opaque  
light-colored tarp or the original packaging. Material that has been  
unwrapped should be carefully rewrapped.

Kingspan Insulation LLC believes the information and recommendations herein to be accurate and  
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## **Kingspan Insulation LLC**

2100 RiverEdge Parkway, Suite 175, Atlanta, Georgia 30328

Tel: +1 678 589 7300 Fax: +1 847 615 6472

[info@kingspaninsulation.us](mailto: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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