

# GreenGuard®

## Insulation Board & Insulation 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 house wraps and building paper. These products are recognized for use as a water resistive barrier under code report CCRR-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 house wrap 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.

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.

For more information on specific building product recommendations and installation guidelines, contact your Kingspan Insulation LLC representative.

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#### 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® Seam 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 or see [www.kingspaninsulation.us](http://www.kingspaninsulation.us) for Technical Bulletin #11.

#### Step 4

All vertical and horizontal seams of the insulation or sheathing boards must be sealed using GreenGuard® 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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# Contact Details

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## USA

**Kingspan Insulation LLC**  
2100 Riveredge Parkway | Suite 175  
Atlanta | Georgia 30328

T: +1 (800) 241 4402  
F: +1 (678) 589 7325  
E: [info@kingspaninsulation.us](mailto:info@kingspaninsulation.us)  
[www.kingspaninsulation.us](http://www.kingspaninsulation.us)



Please scan the QR code for the most recent product information.

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

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Version 3.1 - 11/2022

