

GreenGuard®

Roofing Cover Board

Installation Guide

General Information

Kingspan GreenGuard® Roofing Cover Board comprises closed-cell high-density extruded polystyrene (XPS) with high-strength film facers on both sides.

Kingspan GreenGuard® PB6 Roofing Cover Board has a high-impact capsheet on both sides. It is for use with mechanically-attached and ballasted EPDM and TPO membranes.

Kingspan GreenGuard® PB6HD Roofing Cover Board has a high-strength film facers on both sides. It is for use with mechanically-attached and ballasted EPDM, TPO and PVC roof membranes.

Kingspan GreenGuard® PB6W Roofing Cover Board has a high-impact white facers on both sides. It is for use with mechanically-attached and ballasted EPDM, TPO and PVC roof membranes.

Installation of Kingspan GreenGuard® Roofing Cover Board shall be in accordance with applicable building codes and this Installation Guide. The Installation Guide shall be available at the job site during installation.

Building Code Requirements

Kingspan GreenGuard® Roofing Cover Board meets the flame spread and smoke developed requirements of the International Building Code.

Health & Safety

WARNING: Do not stand on or otherwise support your weight on this product unless it is fully supported by a load bearing surface.

Review this Installation Guide prior to installation.

Refer to the Safety Data Sheets for the products referenced in this Installation Guide for additional information.

Usage & Limitations

Kingspan GreenGuard® Roofing Cover Board (other than PB6 and PB38) can be installed directly over existing coal tar roof systems if the roof has not been resaturated within the previous 4 years (otherwise, use a polyethylene separator sheet between the Kingspan GreenGuard® Roofing Cover Board and the existing roof system). In addition, the new roof system must be designed to limit the maximum coal tar temperature to 110°F to prevent volatiles from escaping from the existing system and attacking the Kingspan GreenGuard® Roofing Cover Board. The design temperature at the surface of the Kingspan GreenGuard® Roofing Cover Board installed over the existing coal tar pitch roof shall not exceed 165°F during installation or use.

Compliance

Intertek CCRR 1022;
CA BEARHFTI Lic. No. T1506
Florida Product Approval;
Miami-Dade County, FL Approved;
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.



GreenGuard®

Roofing Cover Board

Preparation

Verify previously installed substrate conditions are acceptable for product installation in accordance with the manufacturer's instructions.

Do not proceed with work during inclement weather or install any Kingspan GreenGuard® Roofing Cover Board over a wet surface.

Cut large blisters before installing the Kingspan GreenGuard® Roofing Cover Board.

If there are holes or voids in the existing roof system, they must be repaired or filled prior to installing the Kingspan GreenGuard® Roofing Cover Board.

Beginning of installation means acceptance of substrate and existing project conditions.

When installing Kingspan GreenGuard® Roofing Cover Board over existing roofs, all loose aggregate, large stones (sharp-edged stones that protrude to a height that may extend through the Kingspan GreenGuard® Roofing Cover Board, and debris should be removed prior to installation of the cover board.

Installation

Install only as much Kingspan GreenGuard® Roofing Cover Board as can be covered by the roofing materials in the same day.

Kingspan GreenGuard® Roofing Cover Board should be installed with the longest dimension perpendicular to the membrane seams, with end joints staggered and with its printed side facing up.

For fanfold products, unfold three sections of the 50 ft. bundle and attach to the existing roof deck using screws that are long enough to penetrate through to the underlying roof deck. For sheet products follow the instructions above, but install sheet by sheet.

Use Tru-Fast DP #12 drill-point roofing fasteners with Tru-Fast MP3 3" round metal insulation stress plates.

Attach Kingspan GreenGuard® Roofing Cover Board using the applicable fastening pattern shown in Figure 1. Alternate fastening patterns must be approved by Kingspan Insulation LLC prior to starting the job.

Additional fasteners may be used if necessary to secure the roofing cover board during windy conditions or when the surface of the existing roof system has inconsistencies.

Fasteners should be driven perpendicular to the cover board surface. Fasteners should be driven until the plate is seated against the cover board securely (do not overdrive fasteners). Fasteners that are improperly installed (i.e., overdriven, underdriven, snapped, bent, stripped) should be removed and corrected. See definitions in the box below.

NOTE: No fasteners are required when Kingspan GreenGuard® Roofing Cover Board is used in loose-laid and ballasted roof systems.

Overdriven: Fastener is overdriven causing the stress plate to be concave or deformed, which can cause a reduction in holding force or thread stripping of the roof deck.
Underdriven: Fastener head is not properly seated on the stress plate.
Snapped: Fastener breaks under driving load.
Bent: Fastener is bent to the point that it adversely affects installation.
Stripped: Fastener thread strips out of the decking, causing low pullout force.

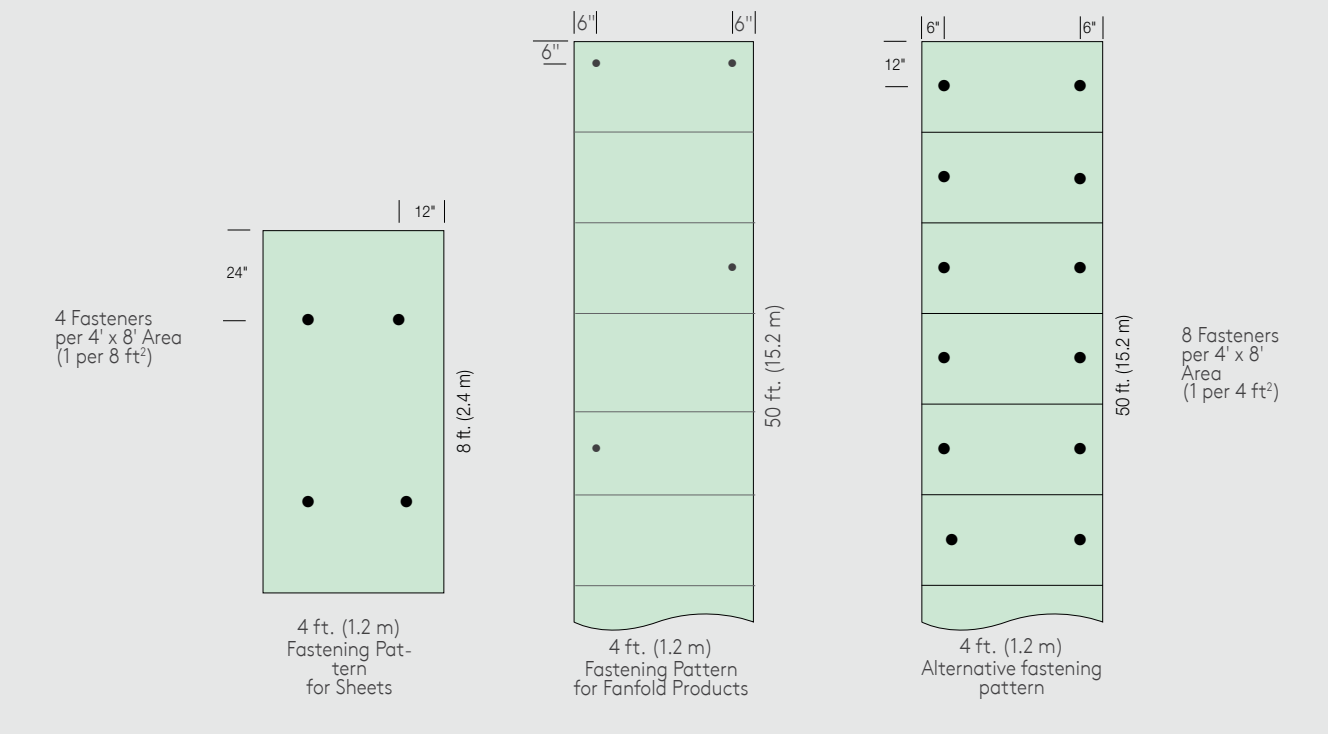
The use of tape, e.g. Kingspan GreenGuard® Custom Seam Tape, over the seams of Kingspan GreenGuard® Roofing Cover Board during installation, though not mandatory, provides for the incorporation of an effective vapor retarder in the overall roof system.

Prior to installation of the roof membrane, inspect the surface of the Kingspan GreenGuard® Roofing Cover Board and remove any pieces of gravel that may potentially puncture the roof membrane during installation.

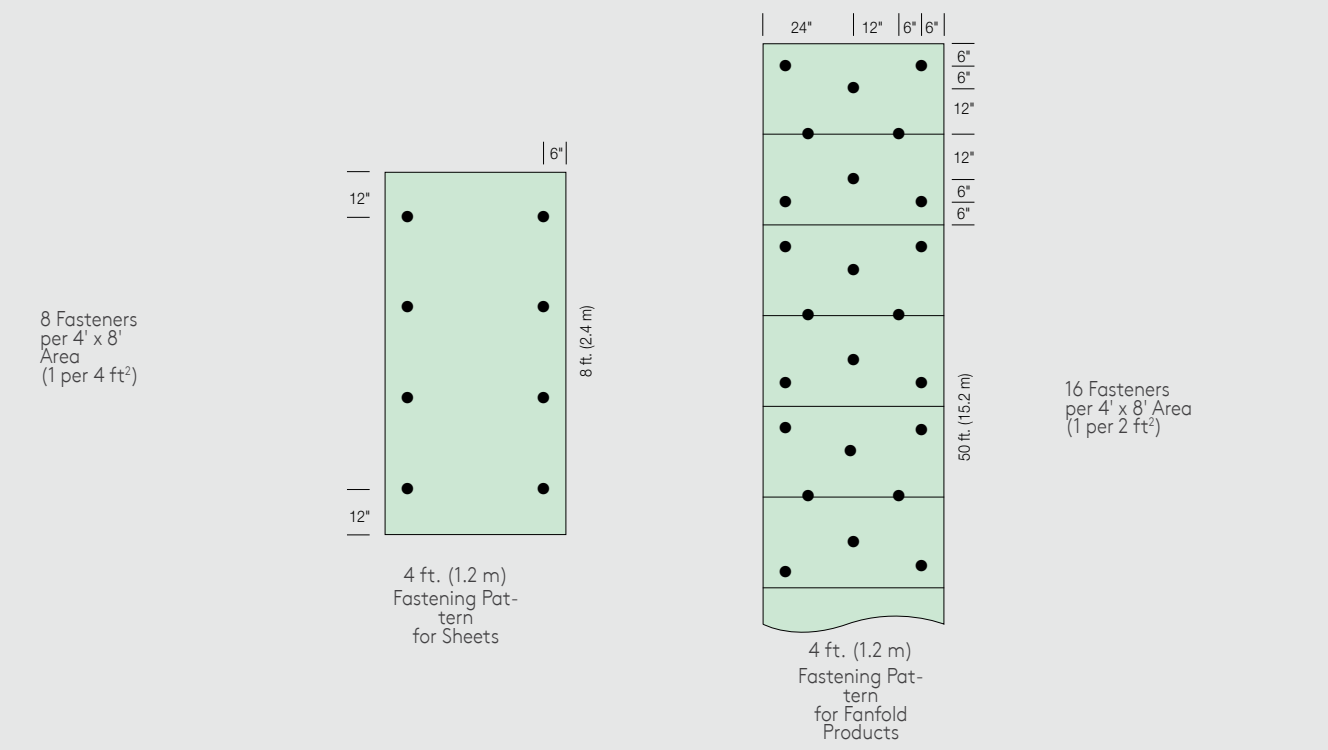
Install the roof membrane in accordance with the membrane manufacturer's installation instructions for mechanically attached or loose-laid and ballasted roof systems.

GreenGuard® Roofing Cover Board

Fastening Patterns for Kingspan GreenGuard® Roofing Cover Board Used Under Light-Colored Roof Membranes



Fastening Patterns for Kingspan GreenGuard® Roofing Cover Board Used Under Dark-Colored Roof Membranes



Contact Details

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
www.kingspaninsulation.us



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

Kingspan Insulation LLC believes the information and recommendations herein to be accurate and reliable. However, since use conditions are not within its control, Kingspan Insulation LLC does not guarantee results from use of such products or other information herein and disclaims all liability from any resulting damage or loss. No warranty, express or implied, is given as to the merchantability, fitness for particular purpose, or otherwise with respect to the products referred to. For more information on specific building product recommendations and product data, contact your Kingspan Insulation LLC representative.

For the most current installation guidelines and compliance information go to www.kingspaninsulation.us.

® Kingspan, the G Device and the Lion Device are Registered Trademarks of the Kingspan Group plc in the US, Canada and other countries. All rights reserved.

® GreenGuard, Kooltherm and KoolDuct and OPTIM-R are Registered Trademarks of the Kingspan Group plc in the US. All rights reserved.

[kingspan-green-guard-cover-board-installation-guide-en-us-ca-v4.1](#)

Version 4.1 - 11/2022

