GreenGuard®

Plygood Ultra Sheathing

Installation Guide

General Information

Kingspan GreenGuard® Plygood® Ultra Sheathing is a non-structural insulating wall sheathing with a special reinforcing scrim facer on both sides to allow installation using pneumatic nailers.

Usage & Limitations

With the reinforcing facers, the product can be used in areas with design wind speeds as high as 150 mph. Please see TER 1011-01 for further details and application guidance.

Building Code Requirements

Kingspan GreenGuard® Plygood® Ultra Sheathing was evaluated for compliance with the ICC–ES "Acceptance Criteria For Foam Plastic Sheathing Panels Used as Weather–resistive Barriers" (AC71). Kingspan GreenGuard® Plygood® Ultra Sheathing having a minimum nominal thickness of $3/8$", performed favorably when subjected to the requirements described in AC71.

Compliance

Intertek CCRR 1022
CA BEARHFTI Lic. No. T1506;
CA BEARHFTI Lic. No. TB 1334;
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® Plygood® Ultra Sheathing 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.

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 $1/2$" 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.

Review this Installation Guide prior to installation.

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

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How to Install Vertically on Exterior Walls

1. Start at one end of the building and begin by aligning the bottom edge of the Kingspan GreenGuard® Plygood® Ultra Sheathing sheet with the bottom edge of the sill plate, while also making sure that the vertical edge of the sheet is aligned with the corner stud.

2. Attach Kingspan GreenGuard® Plygood® Ultra Sheathing using staples (1" x 1^1/4" x 16 Ga. or ^{7}/16" x 1^1/2" x 16 Ga.) or 1^1/4" plastic cap nails (spaced 12" o. c.), starting at the bottom edge of the wall. Staples should be spaced 4–5" apart for 1" crown staples and 3" apart for ^{7}/16" crown staples. Kingspan GreenGuard® Plygood® Ultra Sheathing is printed with staple lines that are intended to guide the installer in locating studs.

3. Continue installing subsequent courses of Kingspan GreenGuard® Plygood® Ultra Sheathing by butting vertical edges of adjacent sheets together and fastening as described in Step 2.

4. Cut door and window openings and other necessary penetration areas using a common utility knife, taking care to inform others that there will be cutting in the area.

5. If fractures occur in Kingspan GreenGuard® Plygood® Ultra Sheathing, they should be sealed with tape, e.g. Kingspan GreenGuard® Seam Tape, to minimize the possibility of air–infiltration.*

5. Install the siding and trim accessories in accordance with the manufacturer's installation instructions.

How to Install Horizontally on Attic Gable End Walls

1. Begin by taking measurements of the area to be covered with Kingspan GreenGuard® Plygood® Ultra Sheathing and cut the sheets to the correct dimensions. A chalk line can be used to achieve a straight edge cut.

2. Align Kingspan GreenGuard® Plygood® Ultra Sheathing horizontally so that the edge is butted up against the top edges of the vertically installed sheets of Kingspan GreenGuard® Plygood® Ultra Sheathing on the exterior wall.

3. Attach Kingspan GreenGuard® Plygood® Ultra Sheathing using staples (1" x 1^1/4" x 16 Ga. or ^{7}/16" x 1^1/2" x 16 Ga.) or 1^1/4" plastic cap nails (spaced 12" o. c.), starting at the bottom edge of the wall. Staples should be spaced 4–5 inches apart for 1" crown staples and 3" apart for ^{7}/16" crown staples. Kingspan GreenGuard® Plygood® Ultra Sheathing is printed with staple lines that are intended to guide the installer in locating studs.

4. If fractures occur in Kingspan GreenGuard® Plygood® Ultra Sheathing, they should be sealed with tape, e.g. Kingspan GreenGuard® Seam Tape to minimize the possibility of air–infiltration.*

5. Install the siding and trim accessories in accordance with the manufacturer's installation instructions.

*Contact Kingspan Insulation LLC for information regarding approved tape products.

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

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

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