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EasyPly® Roof Deck

R Roofing Applications

System Description

This system consists of an application of EasyPly® Roof Deck plus a subsequent application of Thermasote® Nail Base roof insulation.

EasyPly Roof Deck is made of various plies of high density Homasote structural building board laminated together to form structural roof panels.

Thermasote is a composite of a layer of nail base Homasote plus polyisocyanurate foam with a fiberglass felt facer.

Sizes (nominal 2' x 8')

Thickness	Width	Length**	Weight
2 1/16"	23 1/8'	95 7/8"	5 lbs./sq. ft.

"R" value 5. Long edges are T&G with a V-groove on the ceiling side.

Finish

EasyPly Roof Deck has a 6 mil prefinished surface of a decorative white "Flitter" vinyl film which serves both as interior finish and a vapor barrier. Not recommended over swimming pools or similar areas.

Decking is also available natural gray for non-vapor-barrier application.

General Requirements

Keep wrapped in weather capped shipping units until ready for use. Protect open units with polyfilm. **Roof deck must be installed in a dry condition only;** follow installation immediately with application of roofing felt. Wet decking must be allowed to dry thoroughly before applying finish roofing materials.

Where Roof Deck will be secured with nails, use size and quantities recommended in the "Application Recommendations."

Edges of all cuts made for fitting, clearance holes or other openings should be primed with a quality primer sealer and caulked. Fill open areas with approved insulation at ridge, around chimneys, vents or other projections. Cap the ridge and flash other openings according to normal roofing practice and local code requirements.

Provide a gap of 1/8" between squared end butt joints and caulk joints. Trim panel length if necessary to provide gap. **Stagger all end joints. Panel ends must have a minimum 3/4" bearing at all times.**

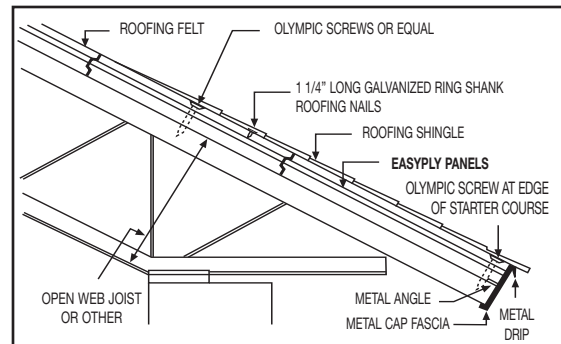
Please contact Technical support at 1-800-257-9491 Ext. 1332 for running expansion joint configurations required in roofing systems 150 feet or longer.

To prevent wrinkling of the vinyl finish, polyethylene film must be applied to the purlins or beams before the installation of the roof deck. When removing excess poly, be careful not to cut into the vinyl facing.

Application To Steel Frame Structure

1. Attachment To: Steel Bar Joists or I-Beams (Max. 1/4" Thick Flange)

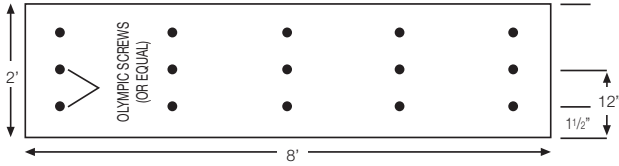
- A. Apply metal angle or wood nailer to steel bar joists at all eave and rake edges. Apply polyethylene film to the joist to allow for movement due to normal expansion and contraction.



- B. Starting at low or outside edge of the roof, place the panel on the bar joists with groove edge toward low portion of roof and tongue toward high portion. Fasten using Olympic #14-10 Heavy All Purpose screws (or equal) 1 1/2" from edges and one in the center (12" from edge) at each bar joist location (3 screws per joist), see diagram on top of page 2. To install pre-drill hole through panel into flange of the steel joist using 7/32" high-speed steel drill bit. Place screw in pre-drilled hole and draw fastener head flush with surface of panel; do not over

drill. On joist spans of 48", fasteners must be installed at 5 1/4" o.c., starting 1 1/2" from either T&G edge, for a total of 5 fasteners per joist.

Example: Framing 24" o.c.



- C. Place subsequent panels to fit over the exposed tongue. Drive T&G edges together tightly. Place panels in straight alignment and at right angles to framing with all butt joints falling on framing members. Butt joints must be staggered. Leave 1/8" space between all butt joints. Excess polyethylene film can be removed by slitting each side of the purlin or beam. Be careful not to cut into the vinyl facing.
- D. The structural framing system shall provide adequate structural support at the perimeter of all openings larger than 8" in diameter.
- E. All end joints shall be securely fastened to the joists.
- F. As EasyPly panels are installed, cover immediately with roofing felt and finish roofing.

2. Attachment to Metal C-Joist

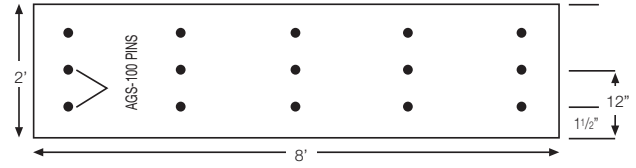
- A. Apply metal angle or wood nailer to metal C joists at all eave and rake edges. Apply polyethylene film to the joist to allow for movement due to normal expansion and contraction.
- B. Follow a, b, c, d, e, & f under "Attachment to Steel Bar Joist or I-Beams" using appropriate corrosion-resistant self-drilling fasteners suitable for use with the gauge of C-joist. Do not pre-drill C-joist.

Application To Light Gauge Steel (14ga-22ga Thickness)

- A. Apply metal angle or wood nailer to metal joists at all eave and rake edges. Apply polyethylene film to the joist to allow for movement due to normal expansion and contraction.
- B. Starting at low or outside edge of the roof, place the panel on the metal joists with groove edge toward low portion of roof and tongue toward high portion. Fasten using the Panelfast Model 510 gun and AGS-100 pins (or equal). Fasten 1 1/2" from edges and one in the center (12" from edge) at each bar joist location (3 pins per joist), see diagram on top right of page 2. The Panelfast gun and attachment pins are made by ET&F Fastening Systems of Solon, Ohio. On joist spans of 48", fasteners must be installed at 5 1/4" o.c., starting 1 1/2" from either T&G edge, for a total of 5 fasteners per joist.
- C. Place subsequent panels to fit over the exposed tongue. Drive T&G edges together tightly. Place panels in straight alignment and at right angles to framing with all butt joints falling on framing members. Butt joints must be staggered. Leave 1/8" space between all butt joints. Excess polyethylene film can be removed by

slitting each side of the purlin or beam. Be careful not to cut into the vinyl facing.

Example: Framing 24" o.c.



- D. The structural framing system shall provide adequate structural support at the perimeter of all openings larger than 8" in diameter.
- E. All end joints shall be securely fastened to the joists.
- F. As EasyPly panels are installed, cover immediately with roofing felt and finish roofing.

Prefab Roof Trusses

- A. Apply wood purlins, of sufficient strength for rafter span, securely across rafter trusses. Starting at low point of roof, position Roof Decking panels across wood purlins with long edges 90° to purlins. **Stagger butt joints on alternate purlins.** Use a cut-off piece of Roof Deck and a heavy hammer to drive T&G edges tight.

Thickness	2 1/16"
Max Rafter or Purlin spacing for Live Load of 50	48" o.c.
Nails-Galv. Common Nail Size	16d
Profile Clip to Bar Joists	6780

A-Frame and Post & Beam Structures

EasyPly Roof Deck is an economical, labor saving roof sheathing, particularly ideal for these types of buildings; a weather resistant structural decking that provides a decorative, vapor barrier film for completely prefinished ceiling as well as a base for Thermasote Nail Base supplemental roof insulation and/or a wide variety of finish roofing materials. To protect finished Roof Deck for exposed beam structures, it is recommended that polyethylene film be applied to beam tops before installation of Roof Deck to allow for movement. After staining or painting the beams, the polyethylene film can be removed by slitting each side of the beam being careful not to cut into the vinyl facing. If beams are stained or painted before installing Roof Deck, wipe beam tops clean to protect Roof Decking finish. Install Roof Decking panels with long edges at right angles to rafters, starting at low point of framing, with tongue of T&G pointing to ridge and finish (ceiling) side down on rafters. Start second and following courses on alternate rafters to stagger end joints. Use a cut off piece of Roof Decking and a heavy hammer to drive T&G edges tight. Allow 1/8" gap at butt joints and caulk the T&G joint.

Panel ends must not project beyond framing at roof edges. If deck is used as overhang, it must be supported at all outside edges and/or ends with additional framing members.

VAPOR BARRIER CONTINUITY

EasyPly Roof Deck is laminated with a decorative 6 mil vinyl which is a vapor barrier and interior finish. Not recommended over swimming pools or similar areas.

ALL BUTT JOINTS MUST FALL ON FRAMING MEMBERS

The following instructions for priming, caulking and sealing must be followed to assure complete vapor barrier, ALL joints, and holes for chimneys, vents or other openings cut through the Roof Deck, must be properly sealed. Proper sealing is simple and can be conducted during the normal procedure of installing the Roof Deck.

1. Apply a quality primer to the ends of each panel before application. Keep paint off film. If necessary, wipe clean with mineral spirits.
2. On bulb-T framing, apply a quality primer to long edges. Keep paint off film. If necessary, wipe clean with mineral spirits.
3. Apply a quality primer to all cut edges and holes.
4. Caulk with a good grade sealant.
 - A. Apply a continuous bead of caulking to the T&G groove.
 - B. Apply a continuous bead of caulking to the squared ends. Gap butt ends 1/8".
 - C. Trim ends if necessary. All butt joints must fall on framing members.
 - D. Fill voids around cutouts with insulation and caulk-seal at ridge, around chimney, vents or other openings.
5. Assure continuity of vapor barrier, by taking special care in handling panels to avoid damaging or puncturing vapor barrier finish films.

Installation Instructions

Preparation: Avoid marring or soiling of factory finished-panels. In exposed beam construction, apply masking (polyethylene film) to tops of beams before installing Roof Deck. After painting or staining beams, remove masking by slitting on each side of beam, being careful not to cut into the vinyl facing. If beams are finished before Roof Deck is applied, wipe away paint or stain runover from beam tops and allow to dry thoroughly and install poly film to the beam before applying the Roof Deck.

Sawing: Saw cuts are made easily with handsaws or power saws. Keep finished (ceiling) side face up for handsaws, face down for power saws.

Nailing: Nail directly to wood rafters, or beams, with nails specified in rafter spacing table on page 5. Nail from panel center out to ends, using five nails per rafter. Keep nails back 3/4" from edges. Use galvanized 16d nails.

Installation: Starting at low or outside edge of roof, lay entire first course at right angle to framing with tongue pointing up to ridge and finished (ceiling) side down on rafters. Provide a 1/8" gap for caulking between end joints. Install second and following courses with butt joints on alternate rafters. Fit T&G snug. **Stagger all panels.**

Panel ends must not project beyond framing at roof edges. If deck is used as overhang, it must be supported at all outside edges and/or ends with additional framing members.

Finishing: Cut Roof Deck to fit at ridge, around chimneys and other projections according to local code requirements for wood construction. Cut areas filled with approved insulation. Cap ridge and finish other openings with flashing.

Roof Decking Application Recommendations

1. To avoid double handling, panels of Homasote Roof Deck should be unloaded from truck directly to the roof, wherever possible. They should be set on roof framing at approximate points of use. All panels should be handled carefully to avoid damage to finished side, edges and ends. They should be protected from elements prior to application.
2. Avoid waste and irregular joints by measuring roof area and planning layout in advance. For example, rip the starter course to provide equal width courses at ridge (top course) and eaves (bottom course) rather than wide at bottom and narrow at top or vice versa. Always keep length of panel at right angle to framing members.
3. Where wood beams are to be exposed and stained or painted, mask top of beam with wide strip of 4 to 6 mil. Polyethylene film held down by staples. This avoids marring of roof deck finish. After painting, slit the polyethylene film flush along beam and remove.
Be careful not to cut into the vinyl facing.
4. Homasote Roof Deck saws easily and cleanly with either a handsaw or power saw. If hand saw is used, keep finished side up; for power sawing, finished side should be down and handled carefully to protect against scraping and soiling.
5. **ALL BUTT JOINTS MUST FALL ON FRAMING MEMBERS**
6. Starting at low or outside edge of roof, lay the first course of panels along the entire roof edge. Tongue should face ridge. Check course for straightness. Nail with galvanized Common Nails. For 2 1/16" thick panel, use 16d nails, 5 nails per rafter, 4 1/2" o.c. and back 3/4" from edges. Work from center of panel to ends.
7. First course should be laid completely along the roof edge. **Follow with next courses having end joints staggered.** Bring tongue and groove edges together into a snug fit by hammering a block of wood against the top edge of panels before nailing. Ends and tongue and groove joints should be sealed against penetration of indoor air and moisture by applying a bead of caulking compound, leave 1/8" gap at butt joints.
8. **PANEL ENDS MUST NOT PROJECT BEYOND FRAMING AT ROOF EDGES. IF DECK IS USED AS OVERHANG, IT MUST BE SUPPORTED AT ALL OUTSIDE EDGES AND/OR ENDS WITH ADDITIONAL FRAMING MEMBERS.**
9. Around chimneys and other projections cut roof deck, same as for wood construction following local code requirements. Prime and caulk cut edges. Fill space between roof deck and chimneys or other projections with approved insulation. Finish with flashing and collar as in regular procedure.
10. If **NATURAL** deck is to be used as exposed exterior

overhang, apply quality exterior paint to the exposed underside exactly as with wood. If a soffit is used and overhang is boxed, space between rafters should be vented. Caulk, as needed, against possible moisture penetration. If **VINYL SURFACED DECK** is used it is not necessary to paint exposed surface.

Roofing Application

1. Asphalt/Fiberglass Shingles: Apply roofing felt and asphalt/fiberglass strip shingles directly to the Thermasote panels. Follow manufacturers installation instructions.

Use a 3/8" head, 1 1/4" long, annular threaded, galvanized nail or equal, Maze Nail No. CLWR102A (3/8" head, 1 1/4" long) or Maze Nail No. R102A; Paslode Nail No. 404551 (1 1/4 Ring Shank) shot with 3175 RCU nail gun; Grip Rite 1 1/4 x .120 collated nail #GRCR3RTRC ring shank nail.

NOTE: Homasote Company requires the use of premium or laminated roofing shingle over Roof Deck and Thermasote.

2. **Wood Shingles or Shakes:** For wood shingles, attach roofing felt to Thermasote and apply shingle directly over the roofing paper with annular threaded, corrosion resistant nails of sufficient length to penetrate 1" into the Thermasote. Apply shingles following the procedure outlined by the Cedar Wood Shingle Manufacturers Association.
3. **Roofing Tiles or Slate:** For rigid type, non-wood, cement, clay tile (see clay tile manufacturers installation instructions) or slate shingles over roofing felt, use corrosion resistant annular threaded roofing nails with 3/8" diameter head and of sufficient length to assure 1" penetration into the Thermasote. In all cases, follow the recommendations of the roofing materials manufacturer.
4. Apply according to BURSI standards for attachment to wood fiber insulation.
5. **Single-Ply Membranes:** Apply to Thermasote in accordance with single ply manufacturers recommendation.
6. **Metal Roofing:** Contact Homasote Company for metal roofing application recommendations.

*If supplemental insulation is not desired, felt and finish roofing may be applied directly to Roof Decking.

Thermasote Nailbase for Supplemental Roof Insulation

Thermasote is a composite of strong, asbestos free insulating and weather resistant Homasote® structural building board plus polyisocyanurate foam and a bottom surface of fibrous glass.

Homasote EasyPly Rood Deck, used in conjunction with Thermasote, will provide a 15-minute thermal barrier protection, following ASTM E-119 criteria (Factory Mutual Research Test Serial No. 2760).

NAILING:

1. Apply wood nailers of same thickness as Thermasote to all eave and rake edges of roof as starter strip and nailing for trim and fascia.
2. Cover all roof deck with felt paper prior to application of Thermasote.
3. Starting at the low or outside edge of the roof, place the panel on the deck and nail 6" o.c. at the panel edges and 12" through the field with galvanized ring shank nail (3/8" head, annular thread) of sufficient length to penetrate 1" into the deck. **Stagger all panels.**
4. Place the next panel lightly abutting previous panel.

As Thermasote is applied follow immediately with application of required felt paper and finish roofing.

Built-up Roofing Application

Homasote Roof Decks, as described above, are acceptable surfaces for Built-Up Roofing when the following requirements are met:

1. Slope of roof must be not less than 1/4" per foot, nor more than 3" per foot.
2. Free drainage must be provided at all points.
3. Wood nailers of same thickness as deck and at least 3 1/2" wide must be provided at all edges and around all openings cut in the decking. Top of nailers must be flush with top of Homasote Roof Decking and fastened securely to wood framing.
4. EasyPly is compatible with all single ply membranes. Please refer to membrane manufacturers instructions or contact Homasote Company.

Built-Up roofing is applied directly to the top surface of Homasote Roof Deck using nailable method. First two courses of paper applied with "square-headed" cap nails such as "Strong Hold" or equivalent. Follow roofing material manufacturer's directions. Application of built-up roofing materials must be in accordance with manufacturer's specifications and any other requirements they may establish.

Caution: No moisture from any source should be sealed into a roof system. Roofing felts, insulation or vapor retarders that become wet or water-laden during construction should be removed and replaced before the application of finish roofing materials.

Building Code Compliances & Test Data

FHA MATERIAL Release No 1150c
Flame Spread: Class III (or C)

To make sure you have the most current installation instructions visit <http://www.Homasote.com/installation> to see if newer instructions are online. If online is newer, print out and use the Internet version. These instructions were printed March 1, 2011.

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