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North America's
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GAF EnergyGuard™ Polyiso Wall Sheathing

GAF's EnergyGuard Polyiso Wall Sheathing is intended to be installed on residential construction only. Application types include:

- o Framed stud walls (exterior & interior)
- o Re-siding
- o Masonry cavity walls
- o Vaulted/ cathedral ceilings
- o Interior basement walls

The following are general application instructions. Be sure to review complete instructions at www.gaf.com.

Exterior Framed Stud Walls… General Application Instructions:

- Before applying any boards, make sure to use code-accepted shear and corner bracing, such as metal strapping, let-in diagonal wood bracing or structural sheathing, such as OSB or plywood.

- Install EnergyGuard™ Polyiso Wall Sheathing boards so that the longer edge is positioned vertically with the edges resting on the middle of the stud. Make sure that the board joints are in contact with each other, with the printed side facing the exterior. Contact your local building code official for requirements on horizontal bracing.

- Fasten all boards using galvanized ring shank nails with a minimum 3/8" (9.5 mm) diameter heads or staples with minimum 1" (25 mm) diameter plastic caps. Fasteners must be long enough to penetrate the substrate at least 3/4" (19mm).

- Fasten EnergyGuard™ Polyiso Wall Sheathing boards 12" (305 mm) o.c. around the perimeter and 16" (406 mm) o.c. in the field or as required by local codes. Do not overdrive the fasteners.

- Seal all exterior openings and penetrations with all-weather sealant, such as silicone caulk, prior to taping. Make sure all areas are clean prior to sealing and taping to ensure proper adhesion.
- Center and apply 3" (76 mm) wide foil flashing tape to all board joints, penetrations, window flanges and door edges. Apply tape and sealant in accordance with the manufacturer's application instructions.
- Always cover EnergyGuard™ Polyiso Wall Sheathing with a code-approved exterior cladding system, such as vinyl siding, wood siding, aluminum siding, brick, stucco, cover board, etc.
- Cladding should be installed in accordance with the cladding system manufacturer's application instructions.
- In areas of high humidity or as required by local code, install a vapor retarder.

NOTE:
1. Contact your local building code official for requirements on fire barriers. **Do not leave boards exposed to the weather or near high heat sources.**

For other types of application or further information, contact our Technical Services at **800-ROOF-411** (800-766-3411) or www.gaf.com.

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Re-Siding…General Application Instructions:
- Before applying any EnergyGuard™ Polyiso Wall Sheathing boards, make sure to consult the siding manufacturer for specific recommendations and application instructions.
- Existing siding should be moisture free and in relatively good condition. Replace or repair any rotted trim, siding or wood. Remove any obstructions, such as shutter or downspouts, prior to installing the new insulation board.
- Install EnergyGuard™ Polyiso Wall Sheathing boards over the existing siding so that the longer edge is positioned vertically, with the edges resting on the middle of the stud. Make sure the board joints are in contact with each other, with the printed side facing the exterior.
- Fasten all boards using galvanized ring shank nails with a minimum 3/8" (9.5 mm) diameter heads or staples with minimum 1" (25 mm) diameter plastic caps. Fasteners must be long enough to penetrate the studs at least 3/4" (19mm).
- Fasten EnergyGuard™ Polyiso Wall Sheathing boards 12" (305 mm) o.c. around the perimeter and 16" (406 mm) o.c. in the field or as required by local codes. Do not overdrive the fasteners.

- Seal all exterior openings and penetrations with all-weather sealant, such as silicone caulk, prior to taping. Make sure all areas are clean prior to sealing and taping to ensure proper adhesion.
- Center and apply 3" (76 mm) wide foil flashing tape to all board joints, penetrations, window flanges and door edges. Apply tape and sealant in accordance with the manufacturer's application instructions.
- Always cover EnergyGuard™ Polyiso Wall Sheathing with a code-approved exterior cladding system such as vinyl siding, wood siding, aluminum siding, brick, stucco, cover board, etc. The new cladding should be installed in accordance with the cladding system manufacturer's application instructions.
- Fasteners for the exterior cladding should be long enough to penetrate through all the material layers into the structural substrate as required by the cladding manufacturer.
- In areas of high humidity or as required by local code, install a vapor retarder.

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Masonry Cavity Walls… General Application Instructions:

- Install EnergyGuard™ Polyiso Wall Sheathing boards between the concrete wall and the exterior masonry system so that the longer edge is positioned horizontally against the inner concrete wall.
- Make sure the board joints are in contact with each other, with the printed side facing the exterior.
- Fasten all boards using appropriate masonry mechanical fasteners or construction-grade adhesive following the adhesive manufacturer's instructions.
- Fasteners must be long enough to penetrate the concrete wall at least 3/4" (19mm). Do not overdrive the fasteners.
- Fasten EnergyGuard™ Polyiso Wall Sheathing boards 12" (305 mm) o.c. around the perimeter and 16" (406 mm) o.c. in the field or as required by local codes.
- Install masonry wall ties between board joints.
- Seal all exterior openings and penetrations with all-weather sealant, such as silicone caulk prior to taping.

- Make sure all areas are clean prior to sealing and taping to ensure proper adhesion.
- Center and apply 3" (76 mm) wide foil flashing tape to all board joints, penetrations, window flanges and door edges.
- Apply tape and sealant in accordance with the manufacturer's application instructions.

NOTE:
1. Contact your local building code official for requirements on fire barriers. **Do not leave boards exposed to the weather or near high heat sources.**
2. EnergyGuard™ Polyiso Wall Sheathing boards can be applied to most oil-base waterproofing coatings. Refer to coating manufacturer's instructions.

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Interior Framed Stud Walls …General Application Instructions:

- If batt insulation is to be installed between studs, install it prior to the application of the EnergyGuard™ Polyiso Wall Sheathing boards.
- Install EnergyGuard™ Polyiso Wall Sheathing boards to the framed stud interior wall so that the longer edge is positioned vertically, with the edges resting on the middle of the interior stud. Make sure the board joints are in contact with each other, with the printed side facing the interior. Fasten all boards using galvanized ring shank nails with a minimum 3/8" (9.5 mm) diameter heads or staples with minimum 1" (25 mm) diameter plastic caps. Fasteners must be long enough to penetrate the substrate at least 3/4" (19mm).
- Fasten EnergyGuard™ Polyiso Wall Sheathing boards 12" (305 mm) o.c. around the perimeter and 16" (406 mm) o.c. in the field or as required by local codes. Do not overdrive the fasteners.
- Seal all interior openings and penetrations with all-weather sealant, such as silicone caulk, prior to taping. Make sure that all areas are clean prior to sealing and taping to ensure proper adhesion.

- Center and apply 3" (76 mm) wide foil flashing tape to all board joints, penetrations, window flanges and door edges. Apply tape and sealant in accordance with the manufacturer's application instructions.
- Gypsum boards should be installed in accordance with the gypsum board manufacturer's application instructions.
- In areas of high humidity or as required by local code, install a vapor retarder.

NOTE:

1. Contact your local building code official for requirements on fire barriers. **Do not leave boards exposed to the weather or near high heat sources.**

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  o Masonry cavity walls
  o Vaulted/cathedral ceilings
  o Interior basement walls

The following are general application instructions. Be sure to review complete instructions at www.gaf.com.

Interior Basement Walls… General Application Instructions:
  • Install EnergyGuard™ Polyiso Wall Sheathing boards to the interior side of the basement masonry wall so that the longer edge is positioned vertically against the field of the wall. Make sure the board joints are in contact with each other, with the printed side facing the interior.

Installation with Wood Furring
  • Fasten all boards to wall using construction-grade adhesive following the adhesive manufacturer's instructions.
  • Install wood furring strips a maximum 16" (406mm) o.c. vertically over the EnergyGuard™ Polyiso Wall Sheathing boards with appropriate masonry mechanical fasteners.
  • Be sure to install furring strips over the vertical joints of the insulation boards.
  • Fasteners must be long enough to penetrate through the furring strip into the concrete wall at least 3/4" (19mm). Do not overdrive the fasteners.

Installation with Conventional Stud Wall

- Spot fasten all EnergyGuard™ Polyiso Wall Sheathing boards to the masonry basement wall using construction-grade adhesive following the adhesive manufacturer's instructions.
- Construct a conventional stud wall that firmly applies pressure to the installed EnergyGuard™ Polyiso Wall Sheathing boards.
- Install batt insulation in between studs as required by local codes.
- Always cover EnergyGuard™ Polyiso Wall Sheathing boards with a code-approved interior cladding system such as ½" (13mm) gypsum board. Install gypsum boards in accordance with the gypsum board manufacturer's application instructions.
- In areas of high humidity or as required by local code, install a vapor retarder.

NOTE:
1. Contact your local building code official for requirements on fire barriers. **Do not leave boards exposed to the weather or near high heat sources.**
2. EnergyGuard™ Polyiso Wall Sheathing boards can be applied to most oil-base waterproofing coatings. Refer to coating manufacturer's instructions.

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Vaulted/Cathedral Ceilings… General Application Instructions:

- Cut the EnergyGuard™ Polyiso Wall Sheathing boards to fit snugly between the roof rafters.
- Install the boards between the bottom sides of the roof rafters making sure the boards stop flush.

- Run the boards continuously without gaps the entire length of the vaulted ceiling, starting from the top or bottom.
- The thickness of the EnergyGuard™ Polyiso Wall Sheathing boards should be such so that when they are installed flush with the bottom of the roof rafters, there is a continuous air space between the top of the Polyiso boards and the bottom of the roof deck. This gap is to provide enough net-free continuous air space from the soffit vents up to the ridge vent so it does not restrict air flow. For proper ventilation requirements, refer to local building code or roofing manufacturer's guidelines.
- Polyiso board joints are to be in contact with each other, with the printed side facing the interior.

- Seal all interior openings and penetrations with all-weather sealant, such as silicone caulk, prior to taping. Make sure all areas are clean prior to sealing and taping to ensure proper adhesion.
- Center and apply 3" (76 mm) wide foil flashing tape to all board joints, penetrations and skylight flanges. Apply tape and sealant in accordance with the manufacturer's application instructions.
- Always cover EnergyGuard™ Polyiso Wall Sheathing with a code-approved interior cladding system, such as ½" (13mm) gypsum board. The gypsum boards or other interior cladding system should be installed in accordance with the appropriate manufacturer's application instructions.
- In areas of high humidity or as required by local code, install a vapor retarder.

NOTE:
1. Contact your local building code official for requirements on fire barriers. **Do not leave boards exposed to the weather or near high heat sources.**

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