

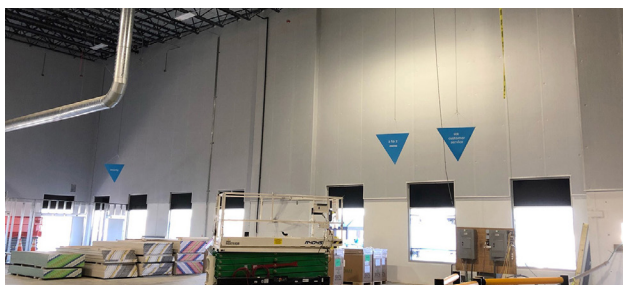
Installation Guidelines for DuPont™ Thermax™ Brand Insulation Used in Metal Buildings

SYSTEM OVERVIEW

Description

Owners of agricultural buildings and other metal buildings that house animals, produce, or equipment know that controlling the indoor temperature and humidity is a smart way to protect their investment. Easy-to-install and lightweight **DuPont™ Thermax™ Brand Polyisocyanurate Insulation** products offer thermal and moisture protection that can be used as an exposed interior finish and insulation on walls and roofs.

DuPont™ Thermax™ Brand Insulation products help reduce thermal bridging, air infiltration and moisture migration into the building envelope. The uniform, closed-cell core foam is exceptionally resistant to heat flow.



Special Considerations

- Store insulation inside or protect with a tarp to keep dry until use. Prolonged exposure to water or moisture environments may turn the painted surface gray.
- **Thermax™ Brand Insulation** can be installed vertically or horizontally.
- **Thermax™ Brand Insulation** board joints that are not closed with PVC Clip Strips must be sealed with foil tape. Taping serves as a protection against air infiltration and moisture migration and provides a continuous surface.
- Minor scratches and/or nicks may occur during installation. Also, the edges of the foil facer may become slightly curled. These do not affect the product's overall performance. A coat of good-quality latex acrylic or latex enamel paint can be used for touch-ups of the boards.
- Use the following scan information to match **Thermax™ Brand Insulation** white facers for touch up paints L: 81 A: -1.5 B: -3.0 Delta E 2.0 Gloss @ 60°=10 to 15. Although no primer is required, follow paint manufacturer recommendations for best results.

TABLE 1: Thermax™ Brand Insulation Options

Product	Surface Facers
Thermax™ Heavy Duty	4 mil white acrylic-coated aluminum/ 1.25 mil embossed aluminum
Thermax™ Light Duty NH	1.25 mil white acrylic-coated aluminum/ 1.25 mil embossed aluminum
Thermax™ White Finish NH	1.25 mil white acrylic-coated aluminum/ 1 mil embossed aluminum
Thermax™ Metal Building Board NH	1.25 mil embossed aluminum foil on both sides

INSTALLATION

Materials Checklist

To install **Thermax™ Brand Insulation**, you will need:

- Utility knife or small handsaw (use caution and proper PPE)
- Straight edge
- Measuring tape
- Pencil
- Construction-grade sealant (ensure chemical compatibility)
- **DuPont™ Thermax™ White Foil Tape*** or **Thermax™ Aluminum Foil Tape**
- Squeegee or soft paint roller
- Hammer, pneumatic fastener or screwdriver
- PVC Clip Strips
- Corrosion-resistant fasteners and poly washers (minimum 1-¼" washers)
- Polyisocyanurate-compatible polyurethane spray sealant, such as **Great Stuff Pro™ Gaps & Cracks Polyurethane Foam Sealant**
- Safety glasses

*Designed for insulation products with white facers

INSTALLATION

Securement

Install a minimum 1" thick board of **Thermax™ Brand Insulation** perpendicular to framing, spanning at least three framing members. Penetrate separate wood and metal framing with a 1" with a corrosion resistant fastener and poly washer, following the fastening pattern shown in Figure 1.

When fastening to metal, DuPont recommends corrosion-resistant fasteners with 1-1/4" minimum diameter poly washers.

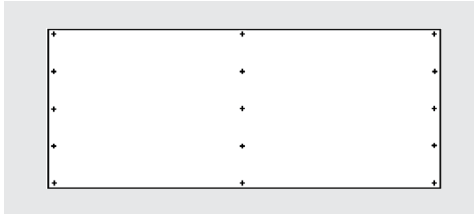


Figure 1. Fastening Pattern: Space fasteners 12" o.c. along the width of the board and 48" o.c. along the length of the board.

Method A: Good System

Requires square edge boards

1. With square edge joints abutting tightly, fasten **Thermax™ Brand Insulation** boards to framing members.
2. Center **Thermax™ White Foil Tape** or **Thermax™ Aluminum Foil Tape** over dry, clean edge joint and apply tape (Figure 2).
3. Use a squeegee or stiff bristle brush to press the tape firmly to the joint.

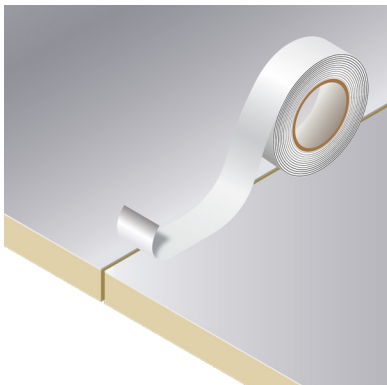


Figure 2.

Method B: Better System

Requires shiplap edge boards

1. Use a chemically-compatible construction grade sealant to join the factory produced shiplapped joint as well as the end joints over roof or wall framing (Figure 3).
2. Orient the board so that the overlap of the shiplap joint points downward. The shiplapped edge may leave an uneven joint* on the exposed side.
3. Taping the back side of the joint with **Thermax™ White Foil Tape** or **Thermax™ Aluminum Foil Tape** will help protect against moisture penetration and provide a continuous surface.

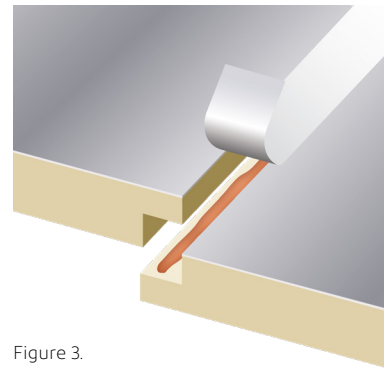


Figure 3.

* **Note:** End-joint gaps greater than 1/8" should be filled with a spray foam such as Great Stuff Pro™ Gaps & Cracks Polyurethane Foam Sealant or equivalent to keep a continuous air infiltration barrier and to help ensure maximum thermal efficiency across the board joints.

Method C: Best System

Requires square edge boards

1. Apply a chemically-compatible construction grade sealant to the PVC Clip Strip and install on exposed joint (Figure 4).
2. Tape the back side of the joint with **Thermax™ White Foil Tape** or **Thermax™ Aluminum Foil Tape**.

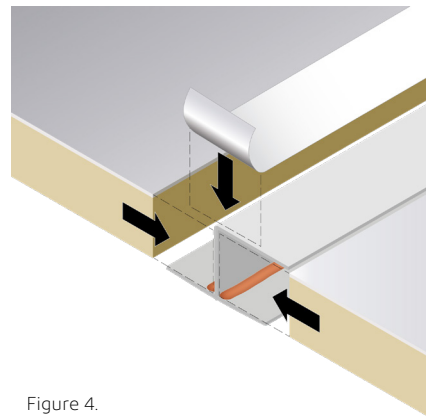


Figure 4.

* **Note:** In roof systems where the temperature of the roof exceeds 150°F, it is recommended to use two layers of Thermax™ Brand Insulation to separate the Clip Strip from the roof system's exterior metal.



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CAUTION: This product is combustible and shall only be used as specified by the local building code with respect to flame spread classification and to the use of a suitable thermal barrier. For more information, consult (Material) Safety Data Sheet ((M)SDS), call DuPont at 1-833-338-7668, or contact your local building inspector.

WARNING: Thermax insulation does not constitute a working walkable surface or qualify as a fall protection product.

Building and/or construction practices unrelated to insulation could greatly affect moisture and the potential for mold formation. No material supplier including DuPont can give assurance that mold will not develop in any specific system.

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