

# DuPont™ Thermax™ White Finish Insulation

## Installation Procedures

### SYSTEM OVERVIEW

#### Description

Owners of agricultural 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 **DuPont™ Thermax™ White Finish Insulation** offers thermal and moisture protection that can be used as an exposed interior finish and insulation on walls and roofs. **Thermax™ White Finish Insulation** boards consist of a core of glass fiber-reinforced polyisocyanurate foam. The front has a durable nominal 1.25 mil embossed white acrylic coated aluminum facer that can be pressure-washed, while the back side is faced with 1.25 mil smooth aluminum.

There are three methods that can be used to install **Thermax™ White Finish Insulation**. Each system is outlined here.

#### Materials Checklist

- Utility knife or small handsaw
- Straight edge
- Measuring tape
- Pencil
- Construction-grade sealant
- **DuPont™ Thermax™ White Foil Tape**
- Squeegee or soft paint roller
- Hammer, pneumatic fastener or screwdriver
- PVC Clip Strips
- Fasteners and poly washers (such as QUIK Cap Washer-Plastic Round or Buildex Multi-Diameter Insulation Tekes)
- Polyisocyanurate-compatible polyurethane spray sealant, such as **Great Stuff Pro™ Gaps & Cracks Polyurethane Foam Sealant\***
- Safety glasses

#### General Information

- **Thermax™ White Finish Insulation** must be kept dry at all times. Protect it from moisture both in storage and during installation.
- With its tough, embossed white acrylic-coated surface, **Thermax™ White Finish Insulation** can be pressurewashed at 800 psi (3' distance) using 15 degree spray tip.
- Install **Thermax™ White Finish Insulation** with the white acryliccoated side exposed.
- **Thermax™ White Finish** board joints must be sealed with **DuPont™ Thermax™ White Foil Tape**. Before applying tape, wipe the application area with a damp cloth to remove foam dust. Allow surface to air dry.
- Use a squeegee or soft paint roller to press the tape firmly to the joint. Cut tape with a knife or scissors. Do not tear tape. Taping serves as a protection against moisture penetration and gives the exterior of the boards a continuous surface.
- End-joint gaps greater than 1/8" should be filled with 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. To increase the moisture effectiveness of the board joints, apply **Thermax™ White Foil Tape** over the sprayed board joints.
- There are two ways to cut **Thermax™ White Finish Insulation** boards. One way is to use a straight edge and a utility knife, making sure to cut all the way through the facing. Or, **Thermax™ White Finish** boards may be cut with a small handsaw.

#### Securement

Install a minimum 1" **Thermax™ White Finish Insulation** board perpendicular to framing, spanning at least three framing members. Penetrate separate wood and metal framing 1" with a corrosion resistant fastener and poly washer, such as QUIK Cap, following the fastening pattern shown in Figure 4.

When fastening to metal, Buildex Multi-Diameter Insulation Tekes or equivalent (with minimum 1-1/4" poly washers) are advised.

## INSTALLATION

### Good System

Leave square edge joints untreated. Tape the back side of the joint with DuPont™ Thermax™ White Foil Tape (Figure 1).

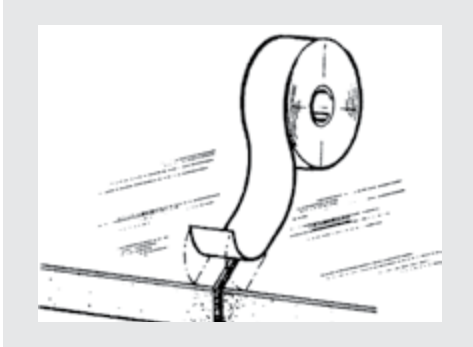


Figure 1.

### Better System

Use a compatible construction grade sealant to join the factory produced shiplapped joint as well as the end joints over roof or wall framing (Figure 2). Orient the shiplapped joint so that the exposed side has a shingle fashion joint with the uphill lap on top of the downhill lap. The shiplapped edge may leave an uneven joint on the exposed side. Taping the back side of the joint with Thermax™ White Foil Tape will help protect against moisture penetration and provide a continuous surface.

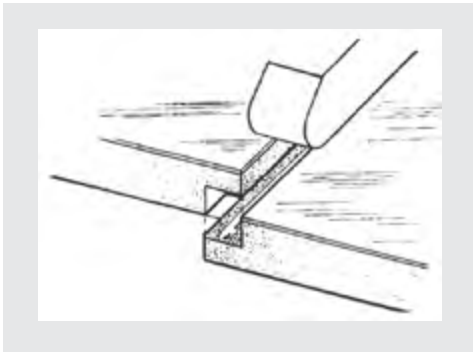


Figure 2.

### Best System

Apply a compatible construction grade sealant to the PVC Clip Strip and install on exposed joint (Figure 3). Tape the back side of the joint with Thermax™ White Foil Tape.

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

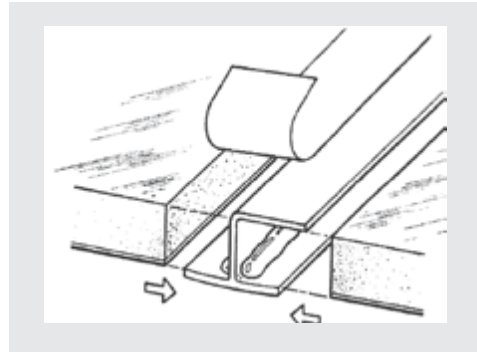


Figure 3.

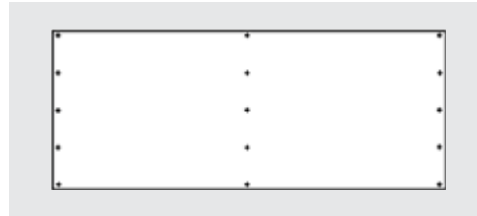


Figure 4. Fastening Pattern: Space fasteners 24" oc along the width of the board and 48" oc along the length of the board.

Note: For FM Insured buildings, please reference the latest FM document for fastening pattern.



For more information visit  
[thermaxwallsystem.com](http://thermaxwallsystem.com)  
or call 1-866-583-2583

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Thermax™ products should be used only in strict accordance with product application instructions. Thermax products, when used in a building containing combustible materials, may contribute to the spread of fire. For more information, consult MSDS and/or call DuPont at 1-866-583-2583.

**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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