



INSTALLATION GUIDE

for ThermalStar Tongue & Groove



ThermalStar[®]
Rigid Insulation

BASIC INSTALLATION OVERVIEW:

Designing and building instructions for ThermalStar T&G are described in the following manual. Please reference the one coat manufacturer's installation instructions or consult with local building official or code compliance officers for further compliance questions.

PRODUCT DESCRIPTION:

ThermalStar T&G rigid insulation has been designed specifically for use with "one coat" stucco systems. Standard features include:

- Size: 2'x8' and 4'x8'
- Integrated drainage channels on the back side
- Front side anti-slough dimples for improved mechanical bonding of stucco
- Title 24 compliant

SAFETY:

Follow all OSHA regulations, safety guidelines and practices. ThermalStar T&G is to be used as exterior sheathing and only as prescribed. Keep away from flame sources and intense heat.

PPE (PERSONAL PROTECTIVE EQUIPMENT) RECOMMENDED:

- Safety glasses may be worn to reduce the risk of eye injury or irritation.
- Cut resistant gloves are recommended to reduce the risk of injury when using knives to cut T&G.
- T&G is not known to be abrasive or irritating to skin. However, gloves, long sleeved shirt and long pants may be worn, as needed, to prevent skin contact if desired.

TOOLS RECOMMENDED:

Wire cutting snips, tape measure, foam knife, hammer, nails, pencil or pen

STORAGE AND HANDLING:

- T&G is factory packaged in a plastic bag and can be stored outside as long as the packaging is intact and free from holes.
- Store T&G elevated from the ground and moist conditions.



INSTALLING THE FIRST ROW:

- Step 1: Install the first row of ThermalStar T&G by starting from the bottom, with the “groove” edge facing downward and the “tongue” edge facing upward (see Figure 3). The drainage channels on the backside of the panel should face the black stucco paper, which will allow water to drain.
- Step 2: Make sure the vertical seams of the T&G panel are in the middle of a stud (see Figure 2). Note, ThermalStar T&G does not have to be installed direct to stud if it is installed over wood structural sheathing.
- Step 3: The bottom edge of the T&G panel should lie inside the weep screed track and should be straight with the bottom edge of the weep. Use a couple of nails to hold the panel in place.
- Step 4: Continue down the wall, butting the vertical joints together, while making sure that the vertical seams are in the middle of the stud, with the bottom edge inside the weep and straight.
- Step 5: Tape vertical seams when required by coating system, which can be done as the panels are installed, or can be completed at the end once all of the T&G has been installed.
- Step 6: Transfer the stud marking from the paper to the T&G panels.

INSTALLING THE REMAINING ROWS:

- Step 1: The “tongue” and “groove” edges of the panel make up the horizontal joints of the wall. They fit together snug and form one solid piece of foam. Note, all horizontal joints must have tongue and groove connection, unless T&G panel is installed over sheathing or horizontal joint blocking. When hanging a T&G sheet above another, have the “groove” edge of the top sheet facing downward, then slide it into place (see Figure 3). Be sure to offset the vertical joints by at least 16”, with the vertical seams being centered on studs.
- Step 2: Once the first panel of the second row is in place, use a couple of nails to hold it in place and install the remaining panels in the row. You will have to measure and cut the T&G panels on the ends of the wall so they properly fit.
- Step 3: For areas where windows or other penetrations interrupt the T&G installation, cut T&G panels as needed to fit into the final system.
- Step 4: Tape horizontal seams when required by coating system, which a can be done as the panels are the panels are installed, or can be completed all together at the end.
- Step 5: Transfer the stud marking from the paper to the T&G panels.

Addressing Outside Corners:

- Step 1: Line up the factory edge of the T&G panel with the edge of the corner. The factory edge has been cut with a machine, so it is square and straight.
- Step 2: Cut the T&G panel for the other side of the corner to length so that both edges will end on a stud, with it's factory edge also along the outside corner.
- Step 3: Tape all vertical and horizontal seams when required by coating system
- Step 4: Transfer the stud marking from the paper to the T&G panels.

Addressing Product Damage:

- Step 1: Any holes/product damage greater than 1" or gaps greater than 1/2" must be patched with scrap EPS and tape

Figure 1: ThermalStar T&G Nailing Pattern:

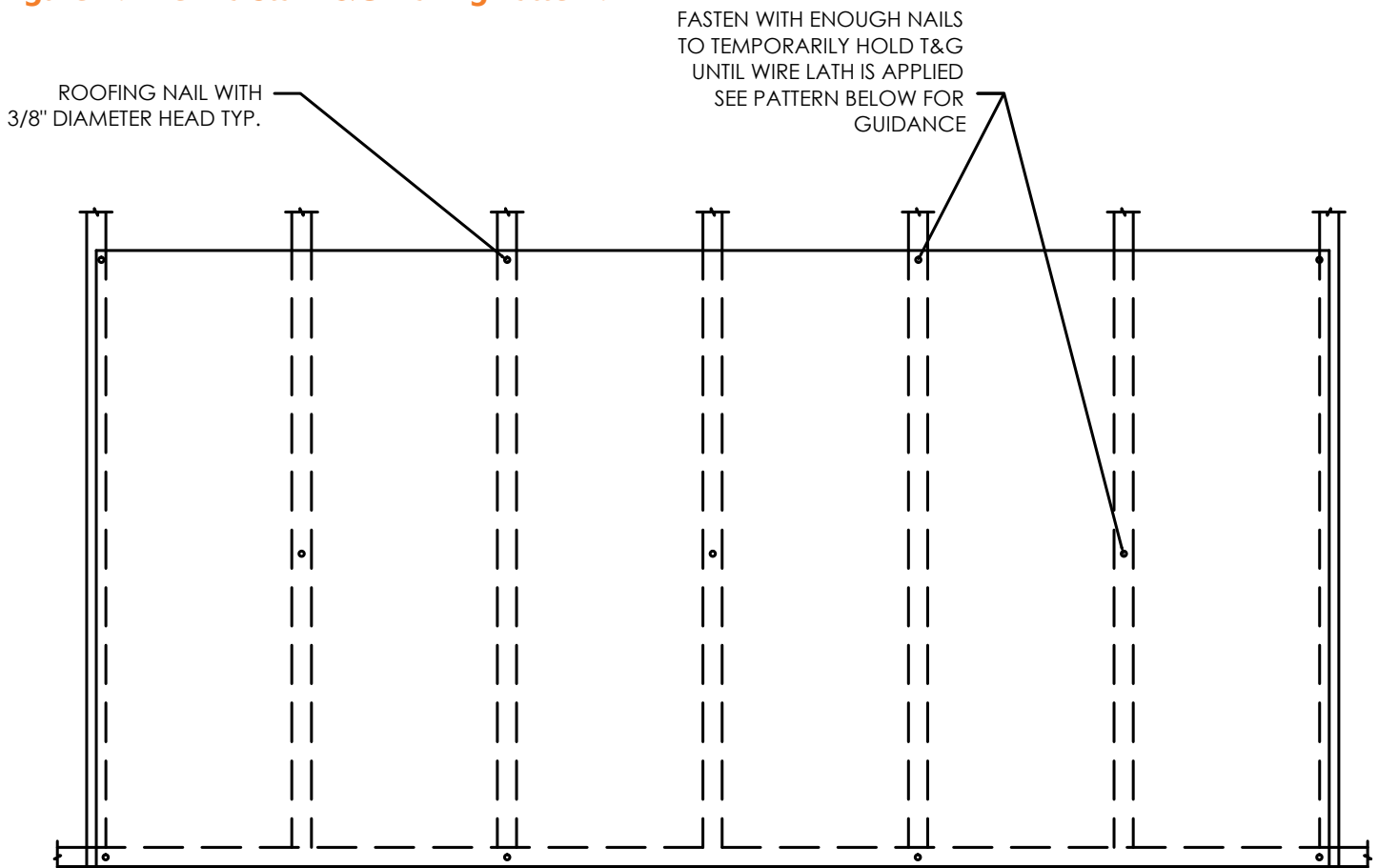


Figure 2: Vertical Joint Alignment:

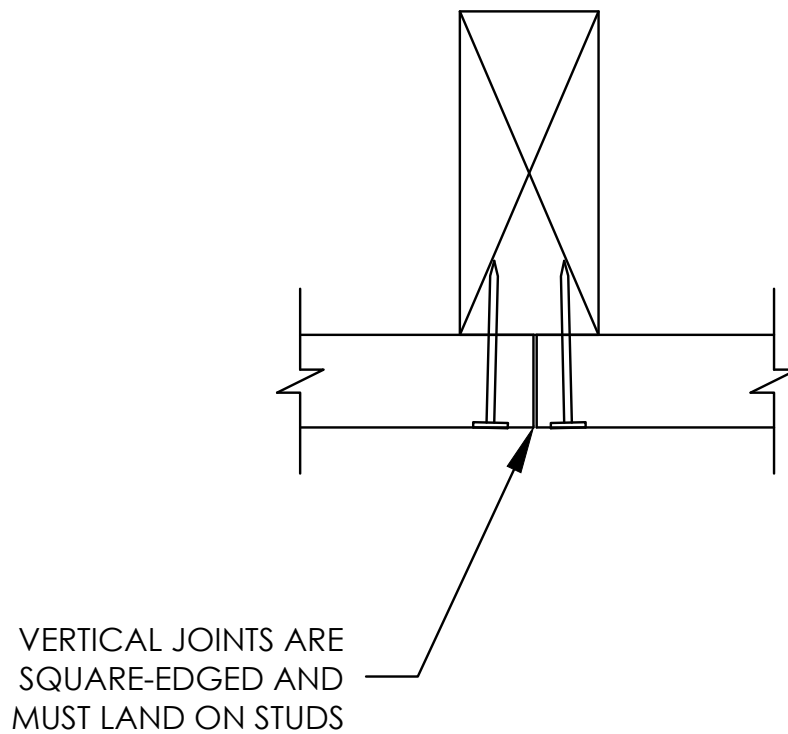


Figure 3: Vertical Joint Alignment:

