



# Decking & Porch Flooring

## INSTALLATION GUIDE

**THERMORY®**  
LEAVE A LASTING IMPACT



It is important to keep the surface clean and free of leaves, pine needles, tree sap, air-borne pollen and debris which can hold moisture and attract mold and mildew.

Barbecue spills, wines, condiments, dog nails, high heels, etc. can stain and scratch the surface. Most of these will fade and become less noticeable over time. Barbecue spills may be cleaned with Dawn® dish soap. Deeper scratches and stains can be blended with a light sanding. Sanding will expose the original tone of the boards which will again gradually silver to match the surrounding area. For surfaces with an oil finish, reapply the oil to match the surrounding area.

#### ► COLOR

The color of Thermory® Ash, Scots Pine and Spruce is not resistant to UV light. Nevertheless, wood that has turned silver/grey is not less resistant to decay. To maintain the original color for a longer time we recommend applying Cutek Extreme® and a complimentary Colortone. Cutek Extreme by itself is not UV resistant. A light sanding or application of Cutek Proclean will also remove the surface silvering and restore the original wood tones.

Factory-Applied coatings always produce the best results, as coatings applied uniformly to all six sides provide the best long term performance. Ask Thermory USA about having your products factory-oiled before delivery.

#### ► COLOR DIFFERENCES AND SHAPE DISTORTION

Color differences between boards may occur and is typical with natural wood products. These differences are no reason for a claim. Shape distortion of Thermory® is significantly less common than for untreated wood. Minor distortions can however occur, and are no reason for a claim. Color of boards can change at different rates depending on amount of UV rays, rain, shade, climate, orientation to sun, etc.

#### ► STORAGE

Whenever possible, Thermory® should be stored inside, out of the weather and sun. When this is not possible, Thermory® needs to be elevated off the ground, stacked uniformly and covered with a waterproof tarp. Leave the ends of the tarp open so moisture is not trapped inside, making certain the stored wood is not subjected to the elements or sun as the UV rays will fade the material. Under no circumstances should Thermory®, even in original packaging, be subjected to rain or any moisture as it cannot dry properly when stacked and/or packaged.

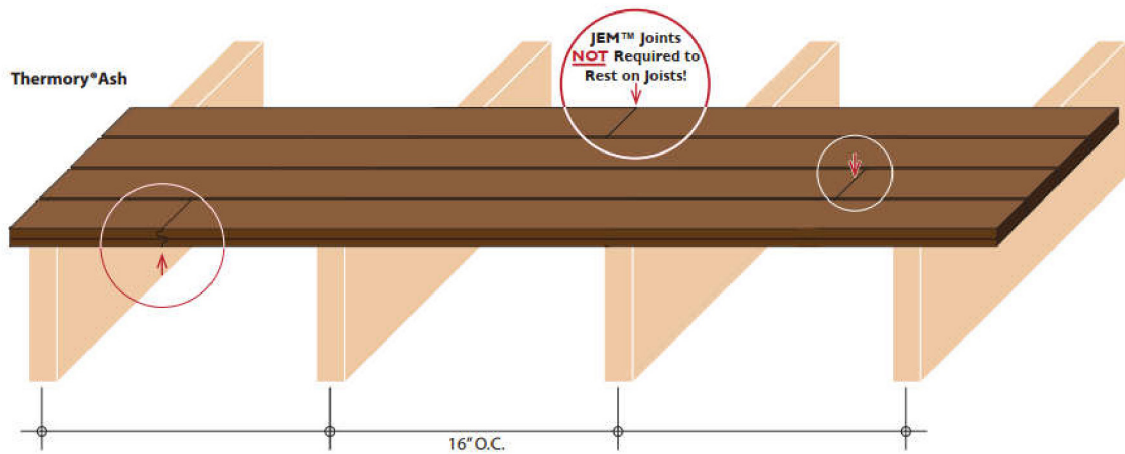
#### ► CRACKS

Thermory® can show small stress cracks. These are normally not wider than 1/16" and are not limited in length. Surface hairline cracks are a natural occurrence with wood and are no reason for a claim. The surface of correctly installed Thermory® will always swell and shrink faster than its core causing the hairline cracks during the shrinking process. Due to the growing conditions of the wood, some boards will experience more surface-checking than others. Regular application of Cutek Extreme can help minimize the occurrence of surface hairline cracks. Please be sure to follow the application guidelines provided by the oil manufacturer. Note that the amount of application, temperature, drying time and frequency of rain can have a direct impact on the performance and appearance of the oil.

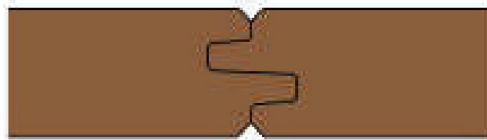


- ▶ When installing decking, support joists should be no more than 16" on center when installing deck boards perpendicular to the joists.

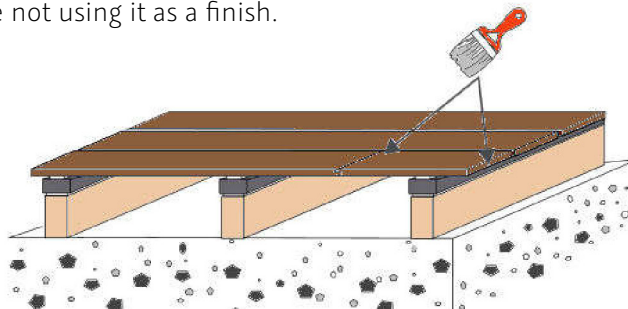
#### THERMORY® ASH DECKING INCLUDES JEM™ JOINTS



- ▶ With Thermory's® exclusive JEM™ Joint (joint end matched) the ends of the boards do not need to rest on the support joists. Each board must rest on and be fastened to a minimum of two joists.



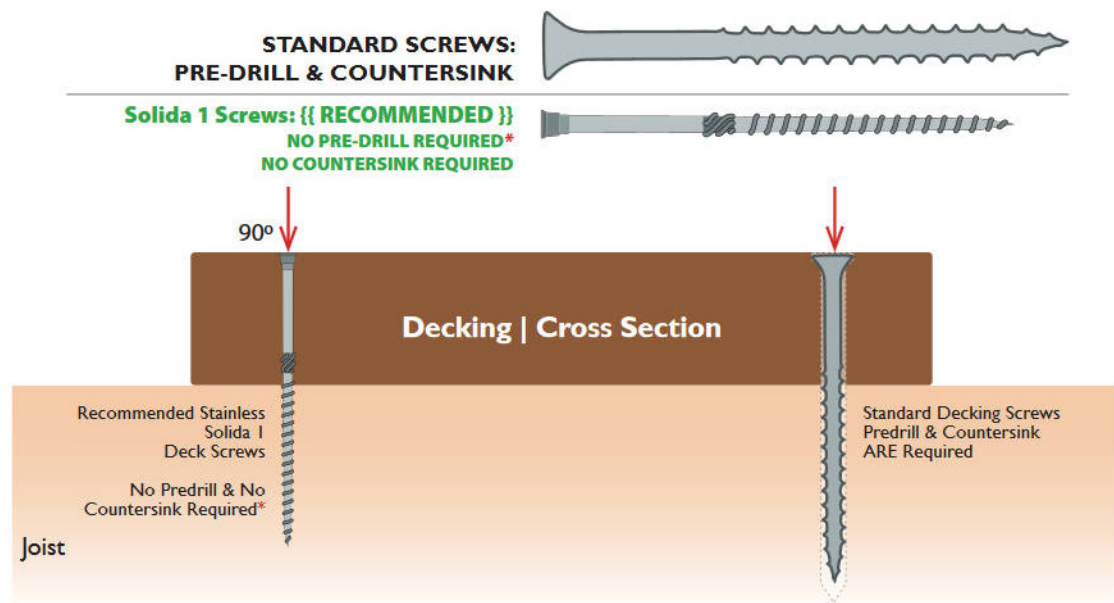
- ▶ To lengthen the life of joist and prevent wood to wood contact, the use of joist tape such as Imus Seal Butyl Joist Tape is highly recommended.
- ▶ **End Sealing** – Although Thermory® is much more stable than any other wood product, it will still take on and give off moisture through the exposed end grain of the boards. When this happens too quickly, large end cracks may develop and there is a risk of end splits. To reduce these end cracks we recommend using Cutek Extreme on both ends of each board before they are fixed in place even if you are not using it as a finish.



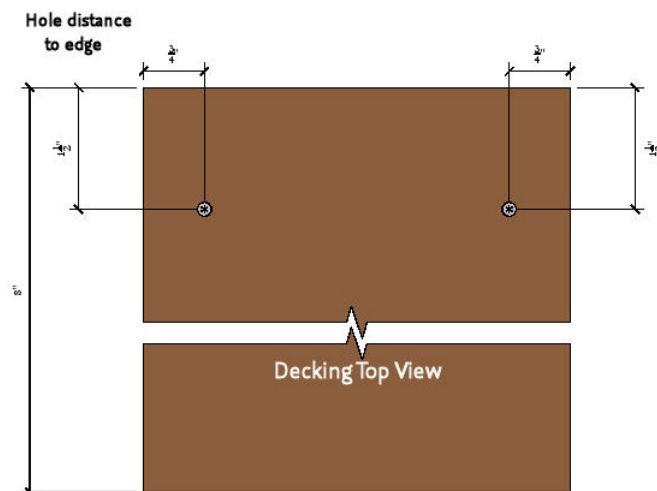
- ▶ **Steps** must be face-screwed (do not use any hidden fasteners). The front edge of the step is always more susceptible to splitting or cracking. The possibility of this can be reduced by not cantilevering the edge of the step over the riser by any more than 3/4". The radius on the top front edge of the step should be rounded to a bull-nose and 5/4 material should be utilized.
- ▶ **Kodiak Spruce decking** must be installed brushed side up as the reverse side is pith and cannot be exposed.

- ▶ Maintain 1/8" gap between deck boards up to 4" in width and 1/4" for deck boards over 4" in width.
- ▶ Be sure to set the power drill's clutch at the appropriate setting. The head of the screw should sit flush with the surface of the board. However, over-tightening can strip the fiber of the wood joist.
- ▶ Face screw the outside edges of the first and last decking boards using stainless steel screws.
- ▶ Thermory® recommends the use of Fixing Group Solida 1 self-tapping, stainless steel trim head screws which can be purchased with your Thermory® decking.
- ▶ Always use stainless steel screws, never nails, when installing Thermory decking. If face screwing while using stainless steel screws other than the recommended Sihga® or Solida 1 screws, we recommend predrilling a hole that is 1/32" smaller in diameter than the screw. The screw head's taper must be countersunk as well. We recommend the utilization of a depth stop. The size of the screw head must match the size of the countersink.

## THERMORY® ASH DECKING INCLUDES JEM™ JOINTS



- ▶ Minimum screwing distance from edge: 3/4". Minimum screwing distance from end: 1 1/2". Predrilling is required, even with recommended self tapping Fixing Group Solida 1 screw, less than 8" from the end of deck board.

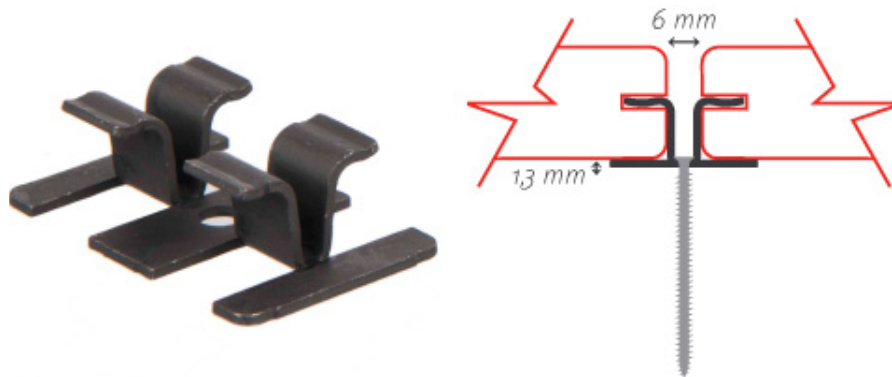


- ▶ Thermory® Hidden Clip System automatically provides the proper gap between deck boards.
- ▶ T4 clips for 1 x 4 and 5/4 x 4 Ash, T6 clips for Ash decking 5" and wider, and PC clips for Pine and Spruce decking.
- ▶ One clip is required on each joist.
- ▶ Do not over tighten screw as it can cause excessive squeaking or damage the clip itself.

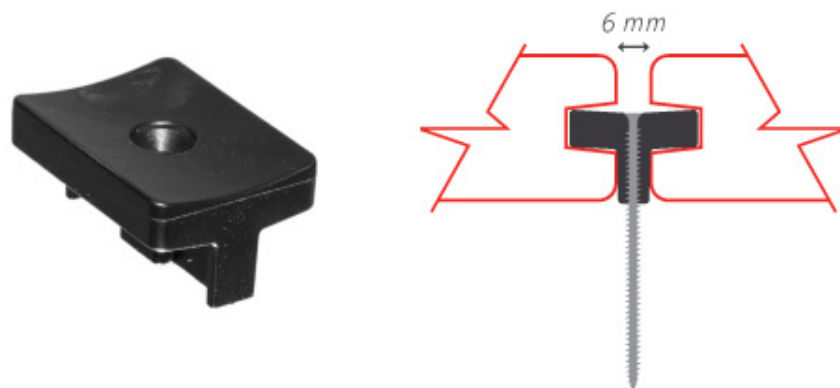
## T4 CLIP- ASH 4" GROOVED DECKING PROFILES ONLY

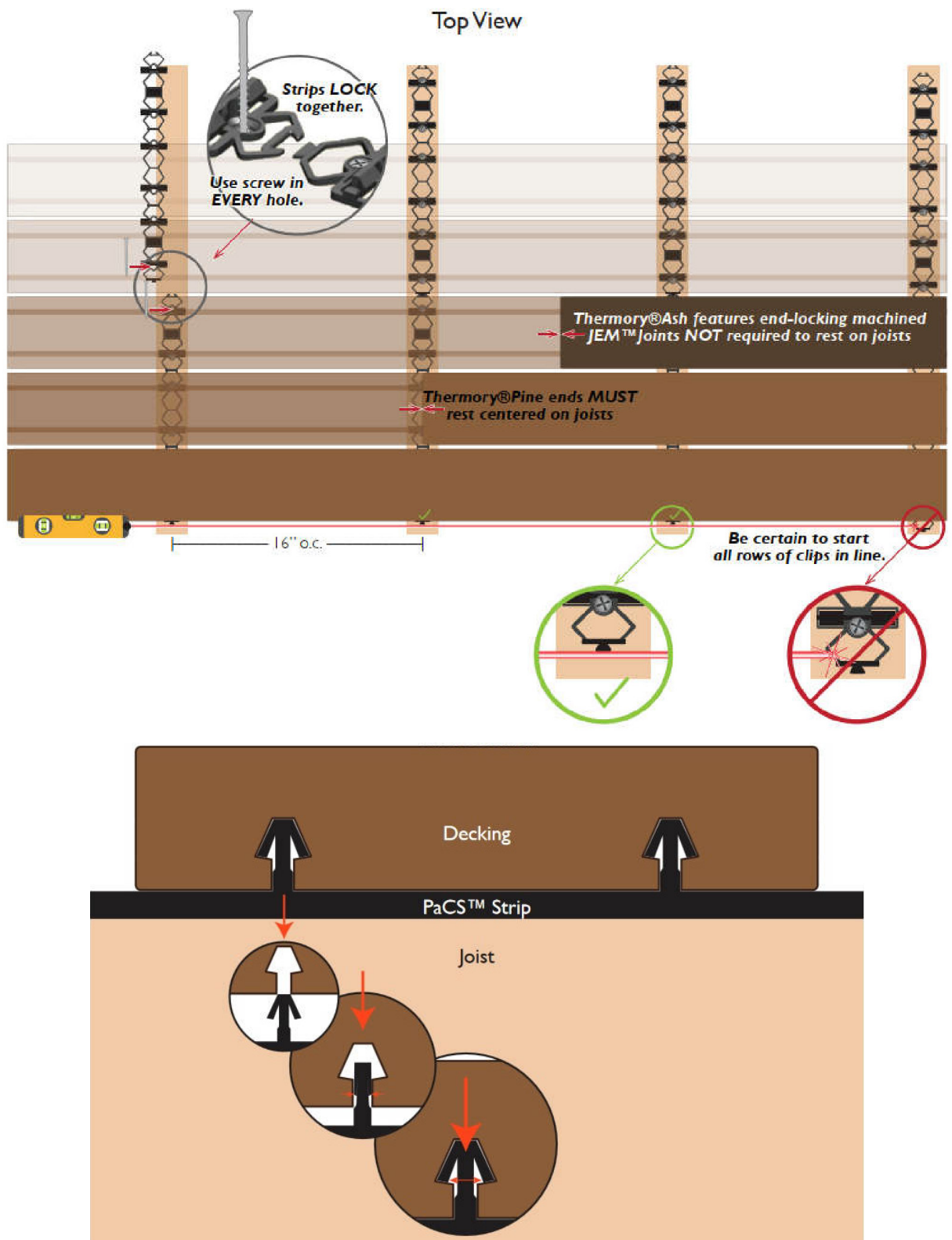


## T6 CLIP- ASH 5" AND WIDER GROOVED DECKING PROFILES



## PC CLIP - ALL PINE AND SPRUCE GROOVED DECKING PROFILES





### CALCULATING THE QUANTITY OF PaCS™ STRIPS NEEDED

- ▶ Decking with 16" on center joist spacing: 48 sq.ft. per bag (includes screws).

It is essential that air can circulate under the decking, allowing the relative humidity above and below the decking to fluctuate evenly and be equal above and below at any given time. Do not trap moisture beneath the deck.

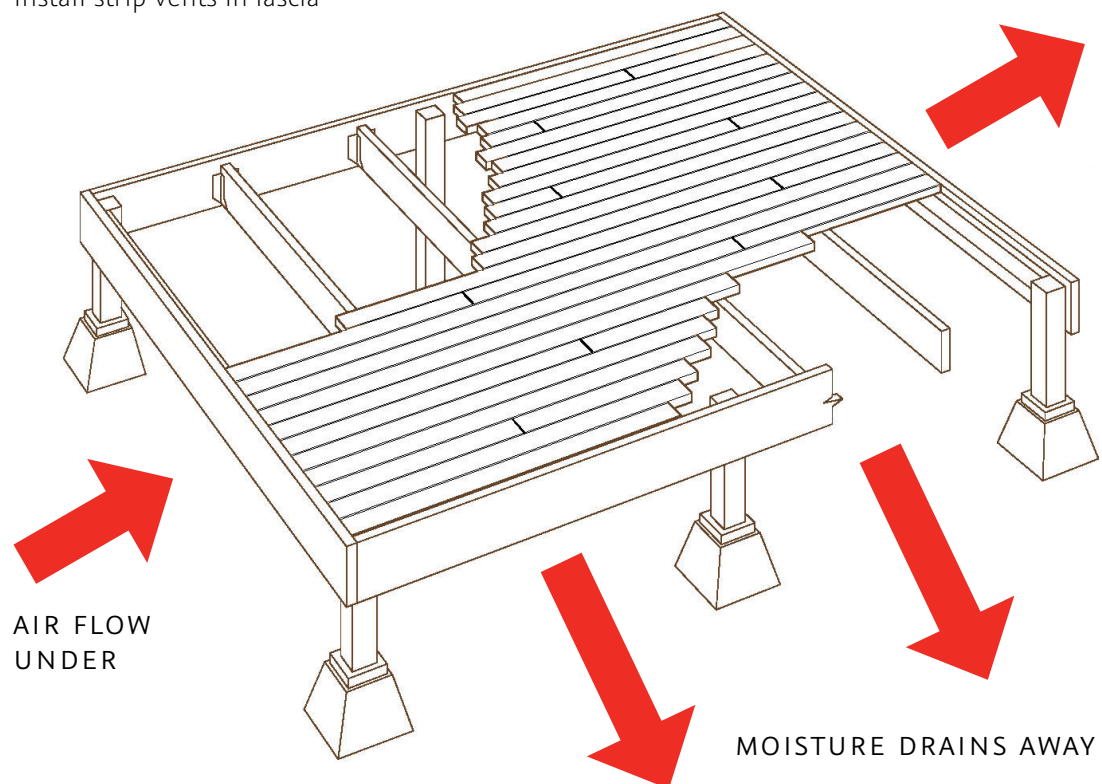
*Example:* For roof decking and pool side applications, the pitch of the subsurface must be at least  $\frac{1}{4}$ " per foot with no water pooling. Ends of the deck must be left open to allow air circulation. If wood, support joists must not sit directly on the subsurface as they will absorb water and trap moisture below the decking. Be sure to shim the joists up off the surface with a non-permeable shim, allowing air circulation and drying of joists/sleepers.

Thermory products CANNOT be directly installed on the ground. They must be installed onto a substructure that is made into a frame. There must be an adequate and unobstructed air flow under the decking to prevent excessive water absorption. If there is excessive water absorption, swelling can occur. A minimum of 4 inches of continuous net free area under the decking surface is required for adequate ventilation, so air can circulate between adjacent members to promote drainage and drying. If you are skirting your deck make sure to have areas where air can flow through (such as adding strip vents to the fascia).

In situations with limited clearance or restricted air circulation, strong consideration should be given to using  $\frac{5}{4}$  thickness material and narrower (4" or 5") widths (when using Ash).

#### TO PREVENT MOISTURE FROM ACCUMULATING UNDER DECK

- ▶ Slope ground away from structure
- ▶ Provide drains underneath
- ▶ Install strip vents in fascia





- ▶ Thermory® Porch Flooring is available in 4/4 Ash and 5/4 Scots Pine.
- ▶ Always use Fixing Group Solida 1 stainless steel screws for fixing Thermory® Porch Flooring, *never nails or staples*.
- ▶ Thermory® Porch Flooring must be used only for covered porch applications with adequate pitch to allow run-off of wind-blown rain or snow melt. A pitch of 1/8" per foot is necessary at minimum.
- ▶ Note: Thermory® Porch Flooring is also used for siding, soffit and fascia applications. Thermory® Porch Flooring should never be used for uncovered decks.
- ▶ Allow a minimum of 4" of air space beneath porch flooring. Proper drainage and air movement underneath decking and porch flooring is required. No pooling water or excessive humidity is allowed under porch. Thermory® Porch Flooring should not be installed directly on top of a solid surface (plywood, concrete, etc.), joists would have to be installed to provide an air space in between.
- ▶ During installation, if the tongue is splitting when screwing be sure you are using Thermory recommended screws. Reduce the angle of the screw to catch wood on the backside of the porch floor board.

