LOCK DRY®

Installation Manual

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Always wear safety equipment when cutting, drilling, & installing components.

Nexan BUILDING PRODUCTS
INNOVATIVE OUTDOOR LIVING

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TOOLS AND MATERIALS NEEDED FOR DECKING INSTALLATION

Required for Installation	Optional - May Be Required
- Caulking Gun - Tape Measure - Carpenters' Pencil - Sheet Metal Snips or Hacksaw - 3/8" Drive Power Drill - 13/64" Drill Bits* - #2 Square Drive Bit* - Phillips Head (+) Bits* - Clean Rags - Silicone Sealant**	- Sawzall or Jigsaw - Miter Saw or Band Saw - Non-Ferrous Saw Blades - Denatured Alcohol - Flashing - Condensation Barrier

* Included with purchase of LockDry Installation Kit

** Nexan recommends using PERMATEX® Clear Silicone Adhesive Sealant Part # 80855. It is available through most major hardware supply stores.

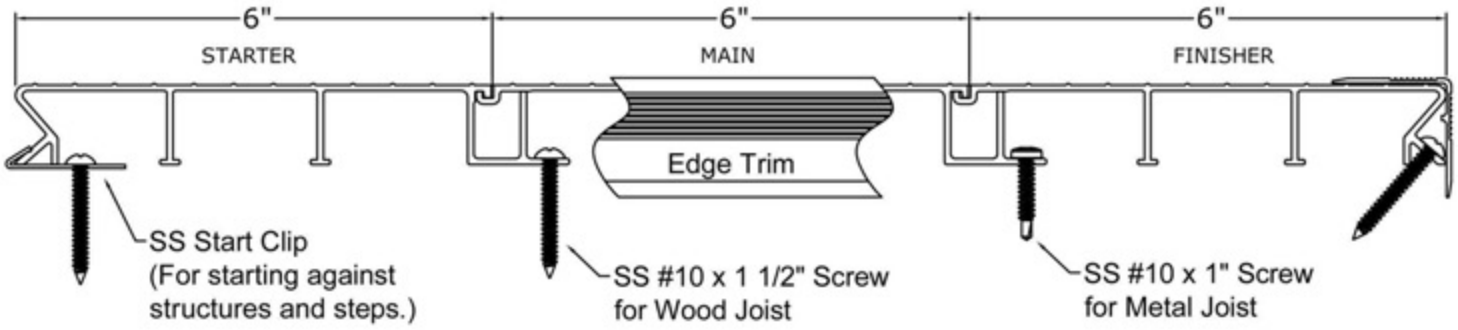
Saw Blades

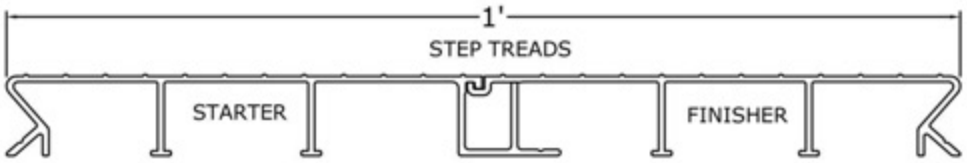
Fastenal® P/N 0229870 - 7 1/4" 60T Non-Ferrous Metal Cuting Blade
Fastenal® P/N 0229873 - 10" 80T Non-Ferrous Metal Cuting Blade
Fastenal® P/N 0229877 - 12" 80T Non-Ferrous Metal Cuting Blade

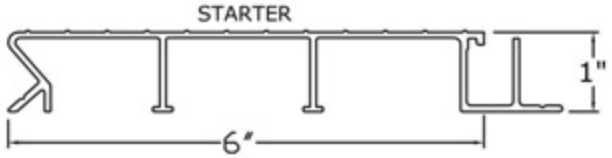
DeWalt® DW3217 - 10" 80T Non-Ferrous Metal Cutting Blade or equivalent
DeWalt® DW3229 - 12" 80T Non-Ferrous Metal Cutting Blade or equivalent

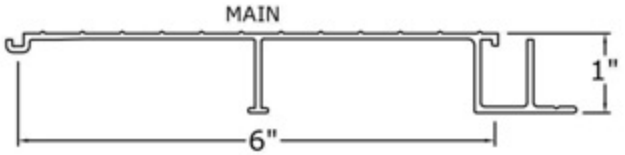
NOTE: Non-Ferrous blades are required for cutting aluminum. Please consult with your equipment manufacturers or local hardware stores for recommendations.

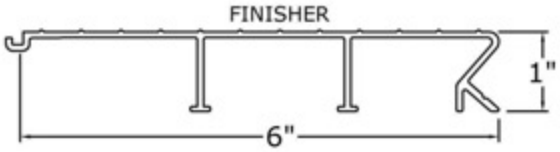
Descriptions of LockDry Decking Materials

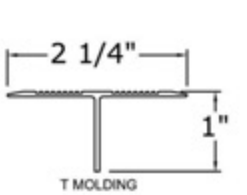


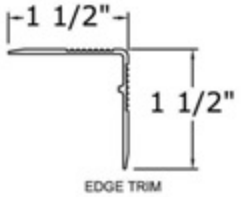


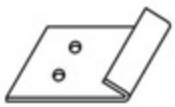




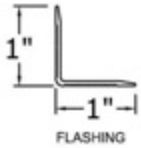








USED WHEN STARTING
AGAINST A WALL







LockDry® Decking Standard Installation

Please read all instructions before assembly.

Important Notes:

*Check all materials and dimensions of the decking you receive against the quote and drawings to ensure you have received all of the correct materials.

*Prior to installation, check all materials for any significant color variations.

*Rafters and/or joist must maintain flatness within 1/4".

*Decking should extend past fascia by 2" on any drainage sides. When fascia mount railings are used, the decking should extend past fascia by 1 3/4".

*LockDry® decking has a built in expansion joint. It is very important that the decking is not cheated by pushing or pulling to compensate for misalignment.

*To aid in alignment, mark the framework in 2' increments prior to installing the decking.

*24" spans on center maximum recommended.

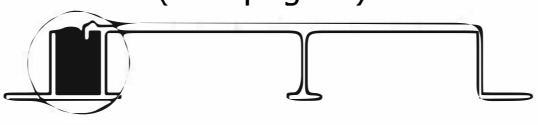
*A minimum 1/8" per foot drop is required for understructure in the direction of water drainage. 1/4" per foot drop is recommended.

*Do NOT drill holes through the decking where 2 pieces interlock forming a gutter.

STEPS

1. Ensure the decking has a minimum slope of 1/8" per foot running away from the structure to provide proper drainage.
2. Layout the decking to ensure no significant color variations are present.
3. Prepare the wall or house for installation if necessary.
   - Stone, Brick, and Stucco: Decking will butt against the wall. Clean the area where the decking will meet the wall. After decking installation, a layer of silicone sealant should be applied to the gap between the wall and decking.
   - Vinyl and other lap siding: A (L) shaped flashing will be needed to seal the wall to the deck. Please consult with your siding manufacturer for specific flashing recommendations. It is necessary to run a layer of silicone sealant between the decking and the flashing. (See page 8)
4. Make any necessary cuts to the decking.
5. Lay out the starter piece of decking. Drill the 13/64" holes through the decking only. Only drill and fasten the decking through the outermost flanges against the framework. There is a small guide in the material to aid in alignment. Square the Starter decking and fasten using #10 x 1 1/2" S.S. wood screws. Squareness should be maintained on a piece-by-piece basis, requiring only minor adjustments. It helps to interlock the next few decking pieces to aid in squaring the Starter.
6. Fill the end of the channel where the decking butts against the wall with silicone sealant**. Filling the channel 2"-2 1/2" long will be sufficient. Also seal the upper groove of the opposite piece of decking 2"-2 1/2" long on each end. This revents water from backing up in the channel to the wall and leaking. Be sure to only fill the big channel that butts to the wall. (See page 9)





7. Review pages 6 & 7 and incorporate them into the next steps below if installation will be over a heated living space. If your application is not over a heated living space, continue with steps 8-11.
8. With the channel filled, interlock the decking. Important: Caution should be taken when interlocking and fastening. The decking has an expansion joint incorporated into the top groove of the decking. It is possible to cheat or twist the decking to compensate for misalignment, but not recommended. The decking needs to be interlocked and fastened in a natural method, not forced or cheated. Drill a 13/64" hole as previously done and fasten down. Wipe away excess sealant. Denatured alcohol can aid in clean up.
9. Repeat steps 6-8 for the remaining decking pieces. Silicone end, interlock, drill hole, and fasten.
10. After all the decking is installed, ensure the outside of the decking boards are straight. Straightness is required for edge trim installation. The edge trim acts as a drip edge for water running out from the channels of the decking. The edge trim must be placed against the decking boards and touching. The outside decking boards can be easily cut with a circular saw and proper blade to achieve straightness.
11. Clean the outside perimeter of the decking boards where the edge trim will be placed. Apply a layer of silicone sealant** on top of the decking boards about 1" from the end where the edge trim will be placed. This layer of silicone will seal the bottom of the edge trim to the top of the deck permitting water to drain over the top of the edge trim. Install the edge trim along the open, outside edge of the decking. Ensure the nib leg of the trim is on the outside of the decking Fasten the edge trim with #10 x 1" Trim screws every 6" - 18" on top.
12. Seal or flash the gap between the wall and deck. (See step 3 and page 8)

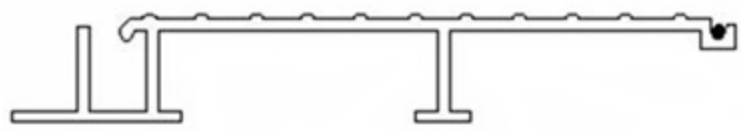
Installation Over Heated Living Spaces

Nexan Building Products can only provide recommendations as to installation over heated living spaces. Heated living spaces would include insulated and non-insulated ceilings over semi-heated areas such as; garages, sunrooms, enclosed spaces under decks, and so forth. These types of installation have been done many times with success, but due to the variance of application and quality of installation, Nexan does not warrant the end result. If these recommendations do not pertain to your application, please skip the information below.

Recommendations

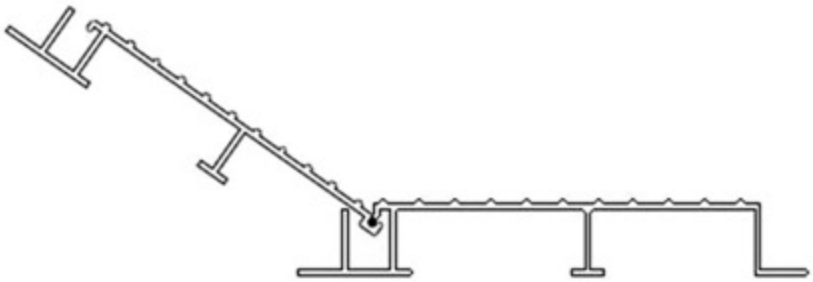
1. Install a moisture barrier such as CertainTeed® WinterGuard™ or equivalent between LockDry® decking and the supporting structure.
2. LockDry® decking can be sealed to help prevent water from entering the built-in gutter system. This can be accomplished by running a bead of silicone sealant** along the top narrow groove of the decking that interlocks with the previously installed decking board. Only a small bead of silicone sealant is required. The bead of silicone sealant should should be no more than 1/8" in diameter and should be flush with the top of the outside lip. A continuous bead the entire length of the decking piece is recommended. This should be repeated for all of the decking boards. These recommendations should also include the steps required in the standard installation instructions on the previous pages. (Photos below)
3. If any excess silicone sealant is present, wipe off immediately with a clean rag. Denatured Alcohol can help aid in clean up.
4. It is not recommended for holes to be drilled through the top surface of LockDry® decking. If safety railings are required with the installation of the deck, we recommend using a railing system that allows fastening to the fascia of the supporting structure.
5. If it is necessary to butt LockDry® decking into a structure that is in the direction of water drainage such as post or columns, an alternate drainage method may be required. (Photos on pages 13 & 14)

   Where short lengths of decking may be used, it is recommended to fill the entire gutter system with silicone sealant**.



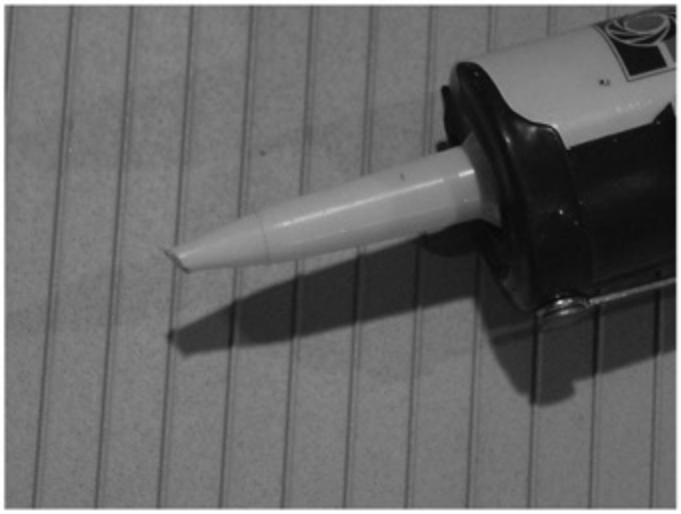


Bead should be flush with outside lip.



Interlock decking and fasten down.

Sealing recommendation photos

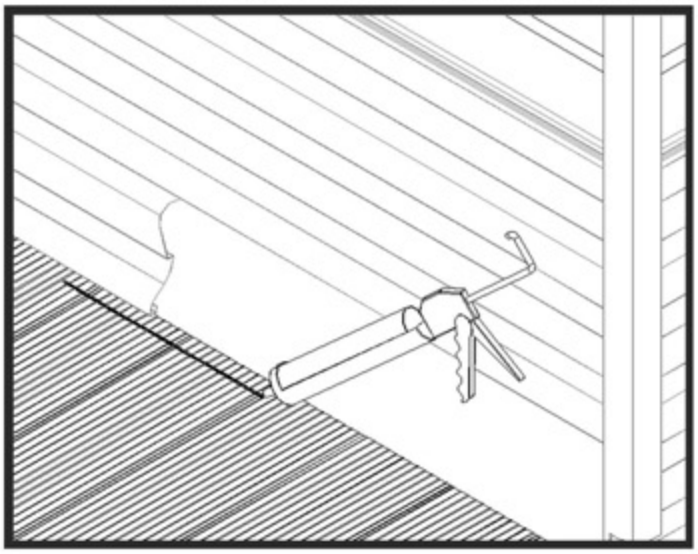


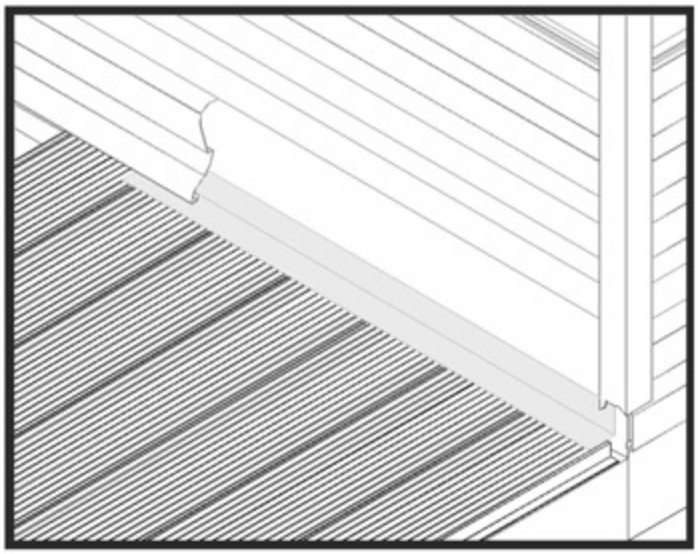




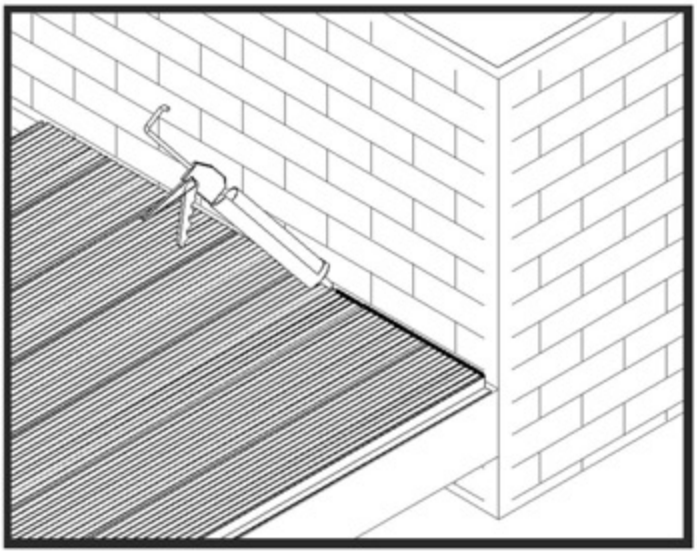


Sealing recommendations for Vinyl and Other Lap Siding

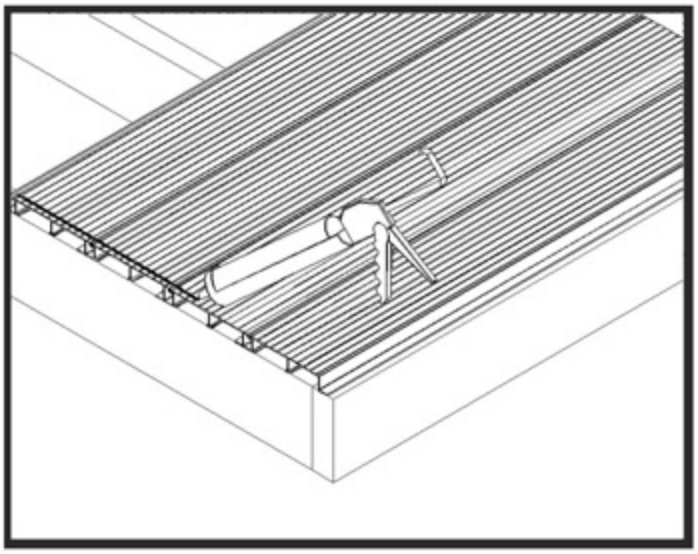


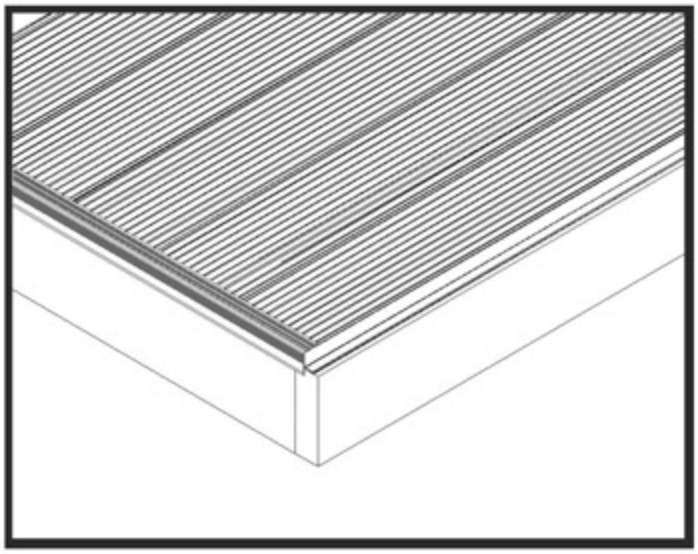


Sealing recommendations for Stone, Brick, & Stucco



Sealing recommendations for Edge Trim





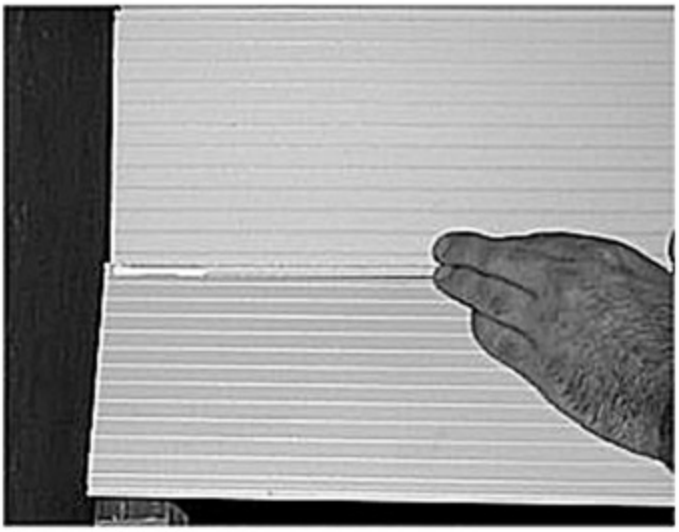
Sealing Instructions for all Applications



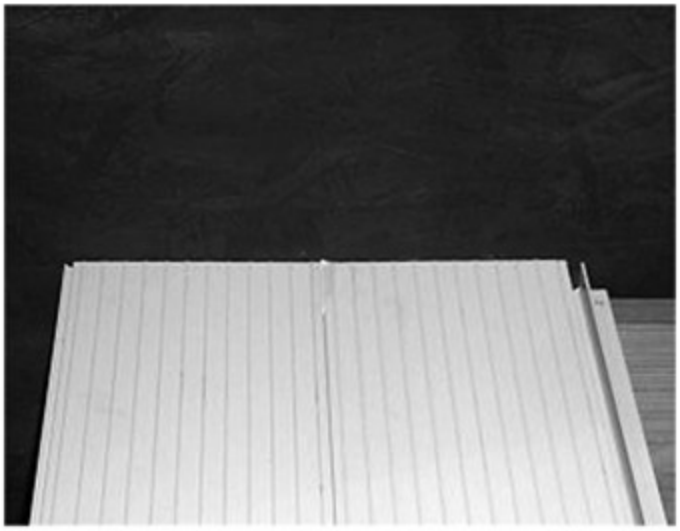
1. Fill end of channel 2″-2 1/2″ where decking butts against wall or structure only. Opposite end of decking must remain open for drainage.



2. Fill upper groove of decking 2″-2 1/2″ long on each end.

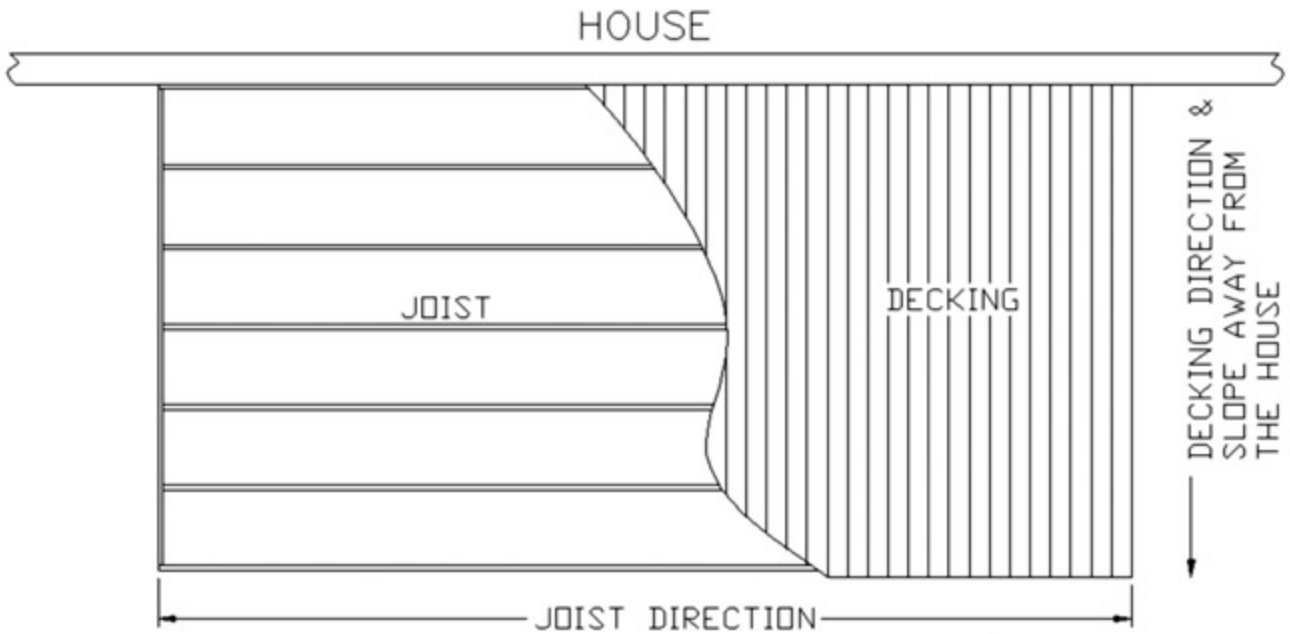


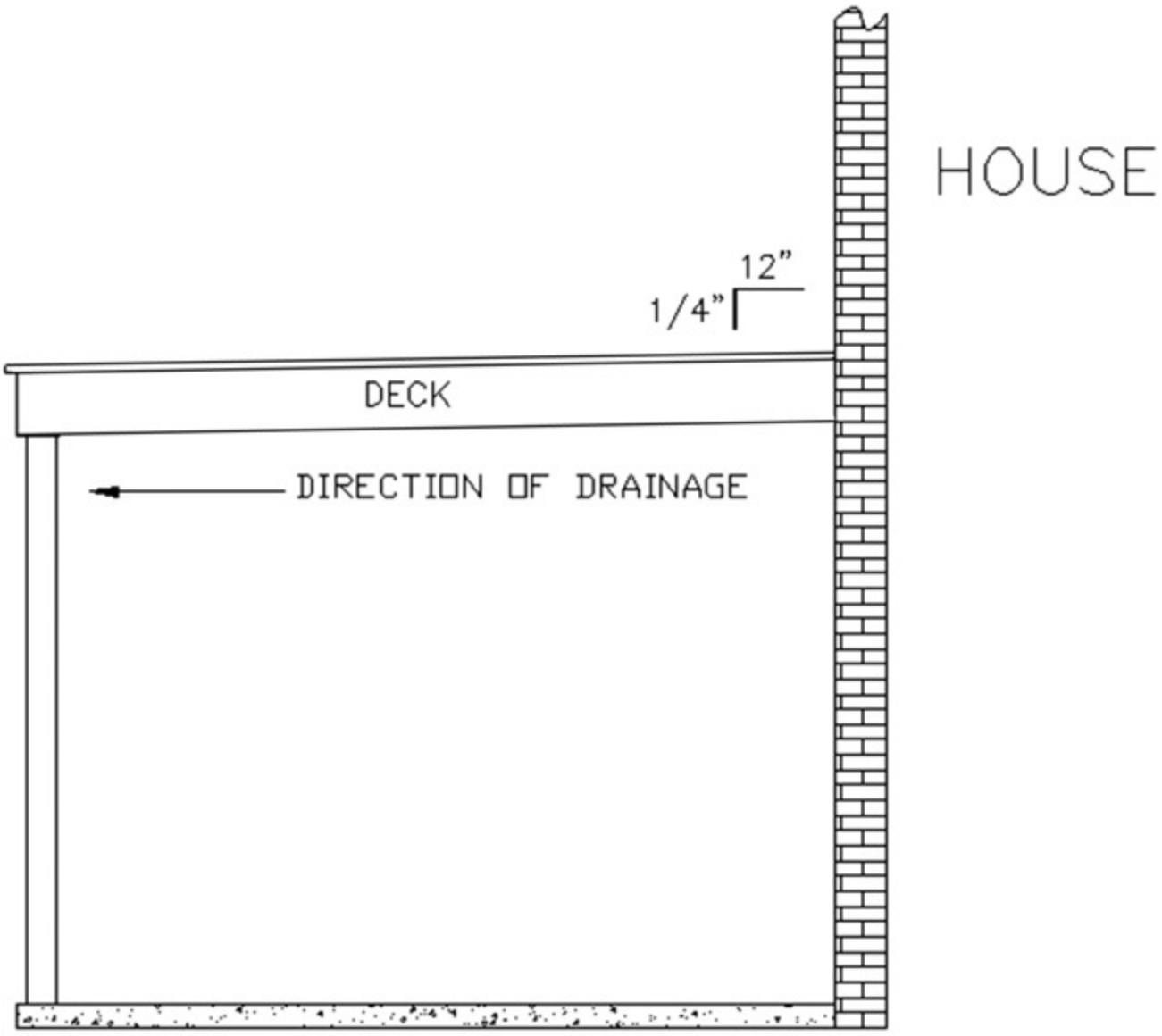
3. Interlock decking and wipe away excess sealant. Denatured Alcohol can aid in removal.



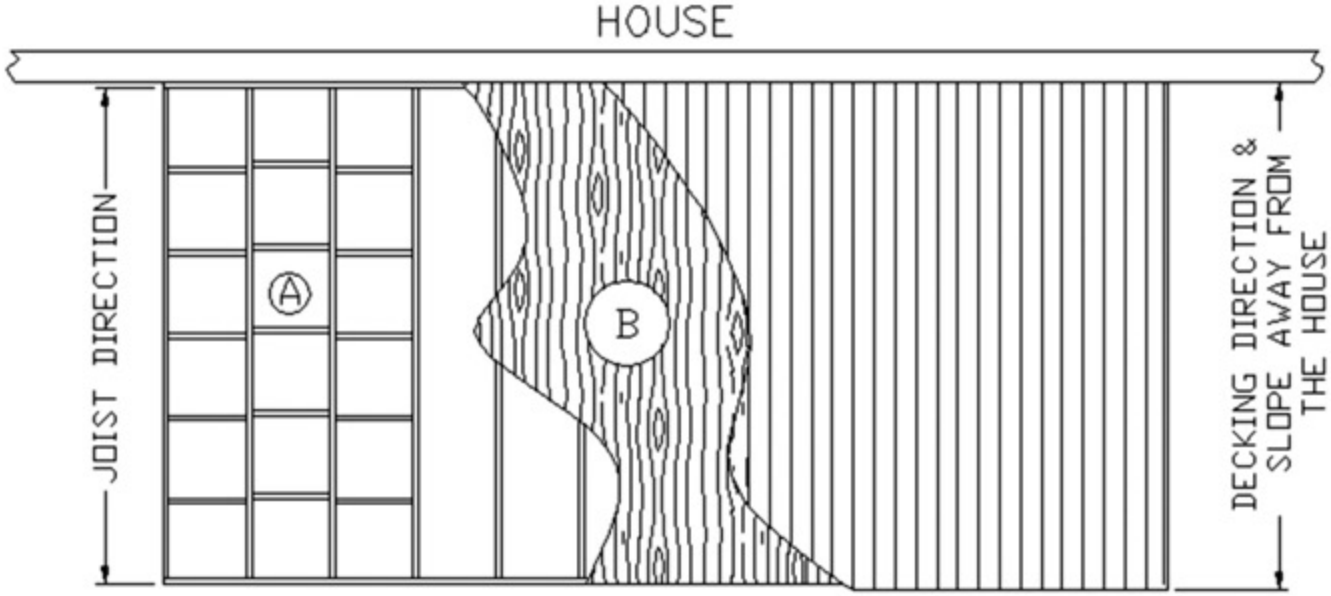
4. Repeat steps for the remaining decking boards.

Preferred Decking and Joist Direction





Alternative Methods for Decking and Joist Directions



SUGGESTIONS IF THE JOIST ARE RAN IN THE SAME DIRECTION AS THE DECKING NEEDS TO RUN.

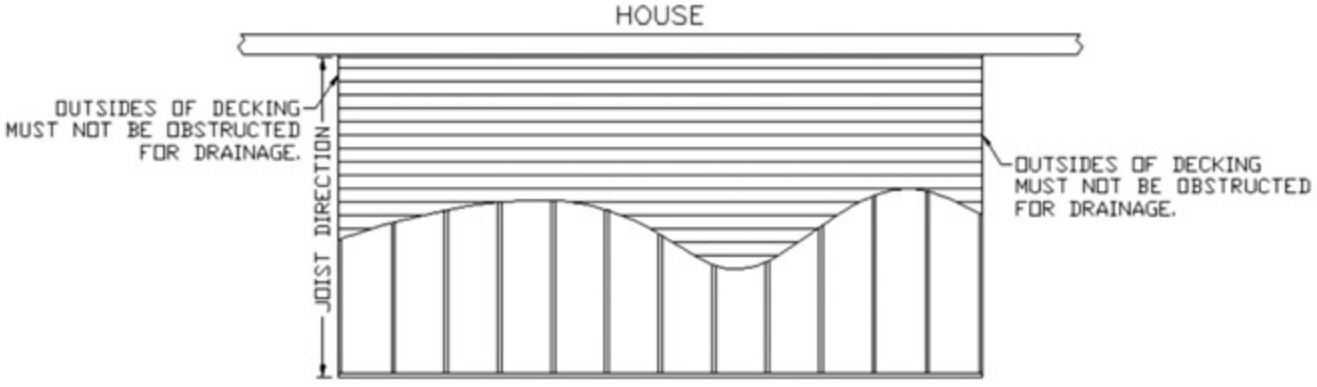
(A): BRIDGE BETWEEN JOIST TO FASTEN TO. 24" CENTERS RECOMMENDED.

(OR)

(B): COVER THE DECK WITH 3/4" PRESSURE TREATED PLYWOOD.
A MOISTURE BARRIER BETWEEN THE PLYWOOD AND DECKING IS ADVISED.

Suggestions For Running The Decking In The Same Direction As The House.

(Use only when no other option is available.)



SLOPE AND DECKING INSTALLATION RECOMMENDATIONS FOR JOIST RUNNING PARALLEL TO THE HOUSE OR STRUCTURE.

(Continued on the next page.)

Suggestions For Running The Decking In The Same Direction As The House.

(Continued from previous page.)

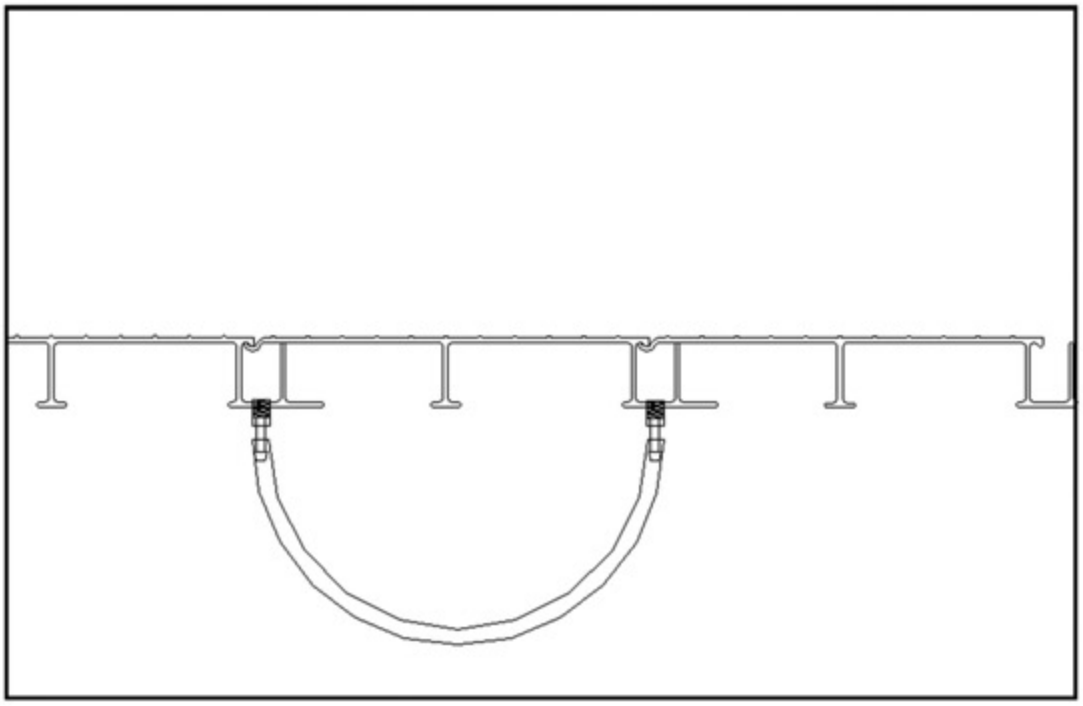




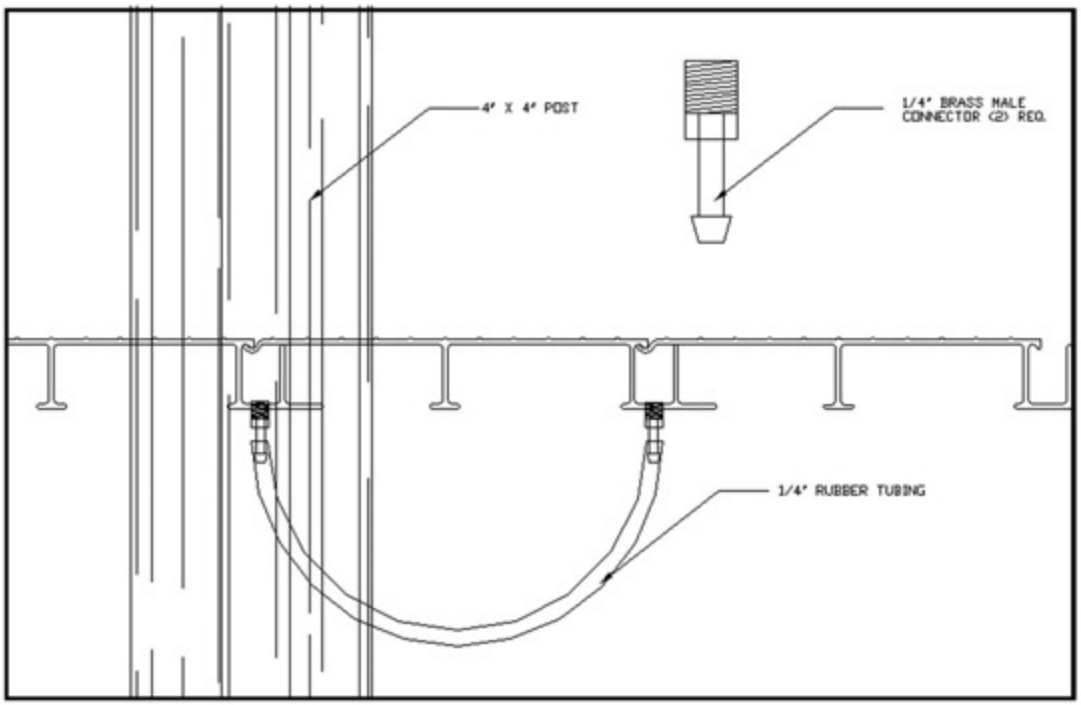
PURLINS SHOULD BE INSTALLED ON TOP OF THE JOIST. THE PURLIN HEIGHT SHOULD BE HIGHEST IN THE CENTER OF THE DECK AND GRADUALLY REDUCE HEIGHT ON EACH SIDE TO OBTAIN SLOPE.

Suggestions For Running The Decking Into a Column or Post That Blocks a Gutter.

(Continued on next page.)

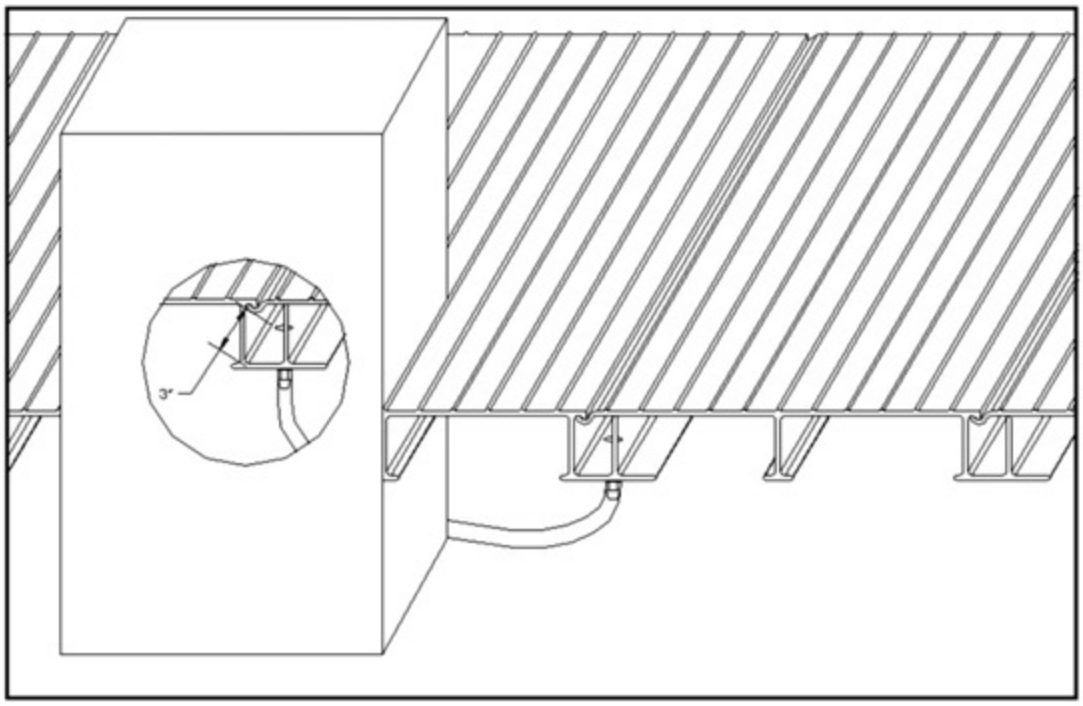


The drain gutter can be diverted to another gutter or simply run a hose out the deck to drain.

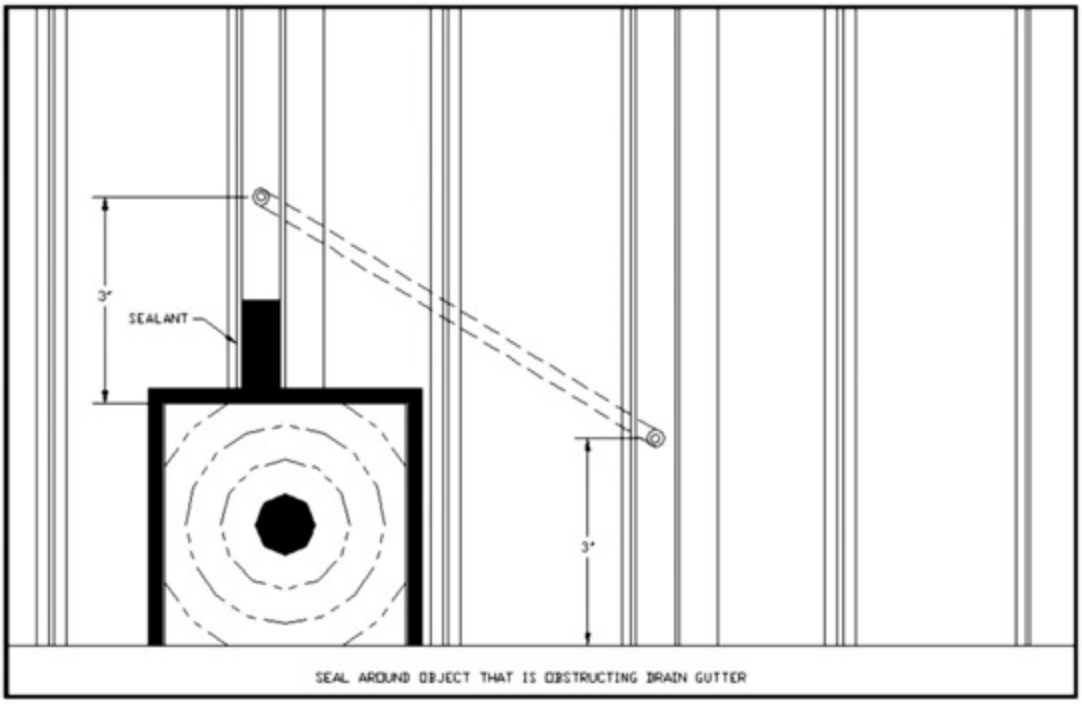


Suggestions For Running The Decking Into a Column or Post That Blocks a Gutter.

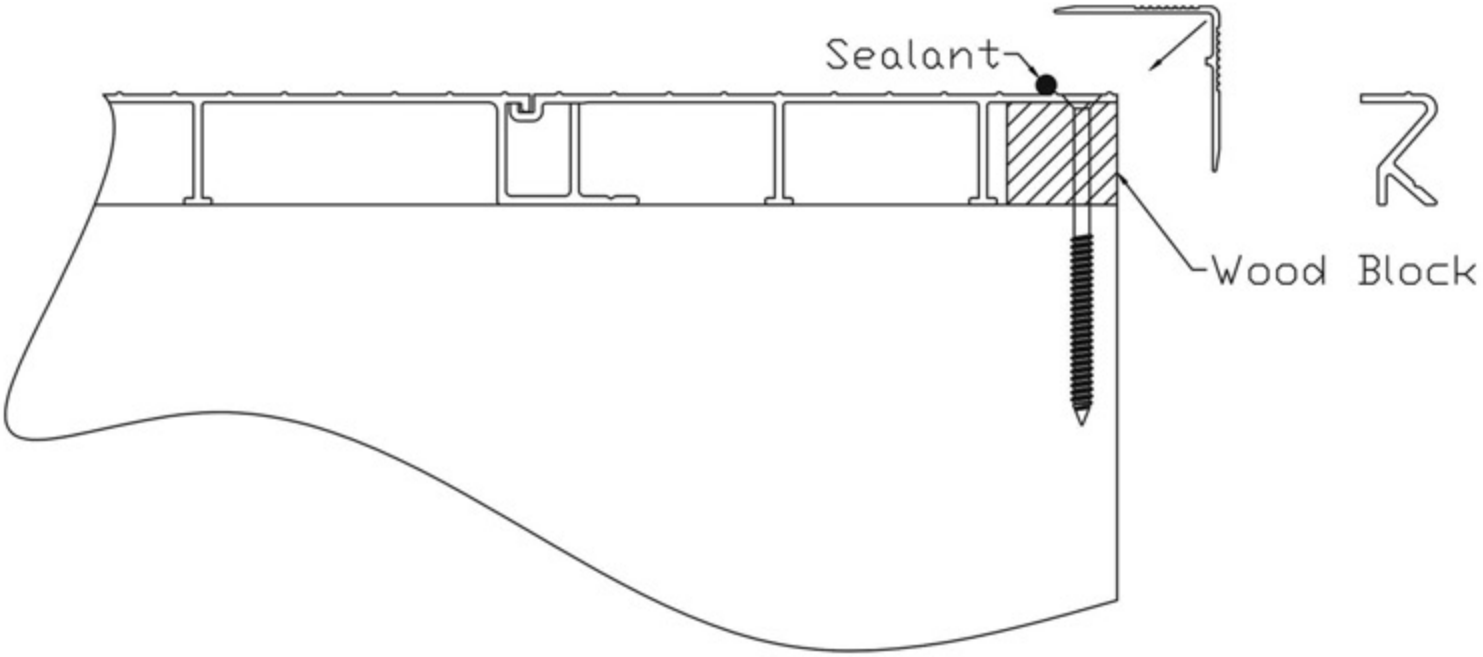
(Continued from previous page.)



The drain gutter can be diverted to another gutter or simply run a hose out the deck to drain.

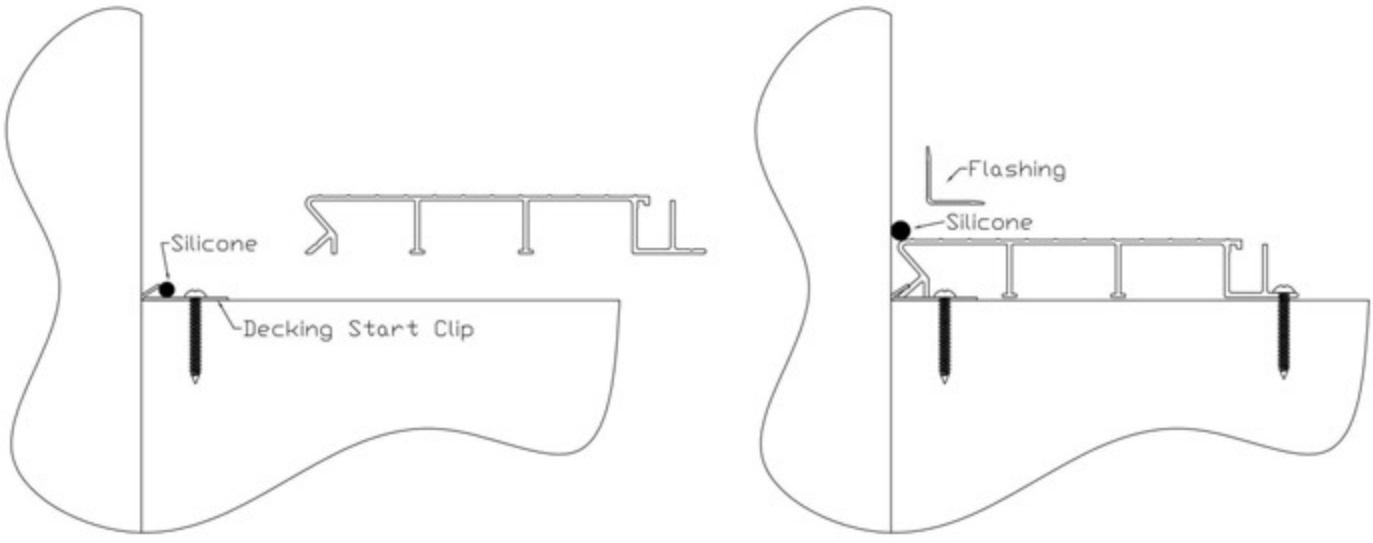


Un-even Deck Widths



The last board can be cut lengthwise to the required width. Drill and countersink every 24" for a wood screw (not supplied). A wood block may be required if the screw is not against the vertical leg especially if there will be foot traffic on the cut end.

Starter Clip



When starting the starter board against a wall, starter clips may be used to simplify installation. They can also be used against the riser of step treads. Ideally, you will install the clips on 24" centers along the wall. Use silicone where the decking and clip meet.