



SIGMADEK™ DECK TILES WITH TRIMS  
SAFETY AND ASSEMBLY GUIDE

PLEASE, READ THE SAFETY AND ASSEMBLY GUIDE THOROUGHLY PRIOR TO  
ASSEMBLING YOUR SIGMADEK™ DECK TILES.

## WARNINGS

1. REFER TO ANY LOCAL BUILDING CODE FOR JURISDICTIONAL REQUIREMENTS.
2. ENSURE THAT NO COMPONENT COME IN CONTACT WITH POWER LINES, EITHER OVERHEAD OR BURIED.
3. COMPONENTS CAN HAVE SHARP EDGES, HANDLE WITH EXTREME CAUTION. USE SAFETY GLASSES AND GLOVES DURING UNPACKING AND INSTALLATION.
4. KEEP ALL PLASTIC BAG PACKAGING OUT OF REACH OF CHILDREN. MAY CAUSE CHOKING OR ASPHYXIATION HAZARD.
5. DISPOSE OF ALL PACKAGING MATERIALS IN COMPLIANCE WITH LOCAL REGULATIONS. RECYCLE WHERE POSSIBLE.
6. SOME COMPONENTS ARE HEAVY AND COULD RESULT IN INJURY IF PROPER LIFTING TECHNIQUES ARE NOT USED. STEEL TOE SHOES ARE ALSO RECOMMENDED.
7. DON'T OVER REACH. KEEP PROPER FOOTING AND BALANCE AT ALL TIMES. USE SCAFFOLDING DURING DECK CONSTRUCTION AND DECK TILE INSTALLATION WHERE DECK HEIGHT EXCEEDS THE HEIGHT OF YOUR SHOULDERS.
8. DO NOT CLIMB ON UNCOMPLETED DECK STRUCTURE.

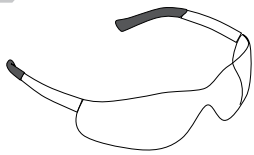
# WARNINGS

PLEASE READ THE SAFETY AND ASSEMBLY GUIDE THOROUGHLY PRIOR TO INSTALLING YOUR SIGMADEK™ DECK TILES.

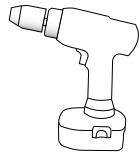
## WARNINGS

SOME COMPONENTS HAVE SHARP EDGES. PLEASE BE CAREFUL WHEN HANDLING THEM. ALWAYS WEAR GLOVES AND SAFETY GLASSES WHEN ASSEMBLING OR PERFORMING MAINTENANCE ON YOUR SIGMADEK™ DECK TILES.

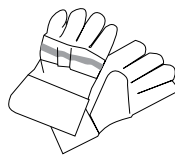
## REQUIRED TOOLS



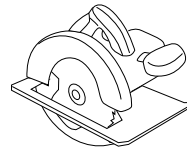
SAFETY GLASSES



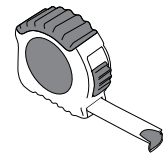
DRILL



GLOVES



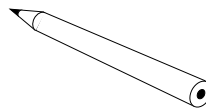
SAW



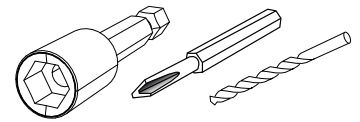
MEASURING TAPE



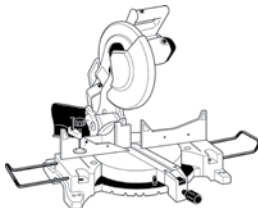
BOWRENCH



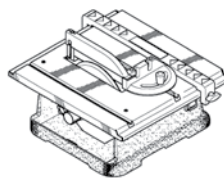
PENCIL



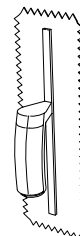
APPROPRIATE DRIVER AND DRILL BITS



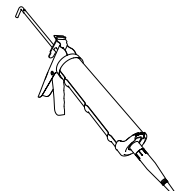
CHOP SAW



TILE SAW



3/16" V-NOTCH TROWEL



CAULKING GUN

## ADDITIONAL PART REQUIREMENT



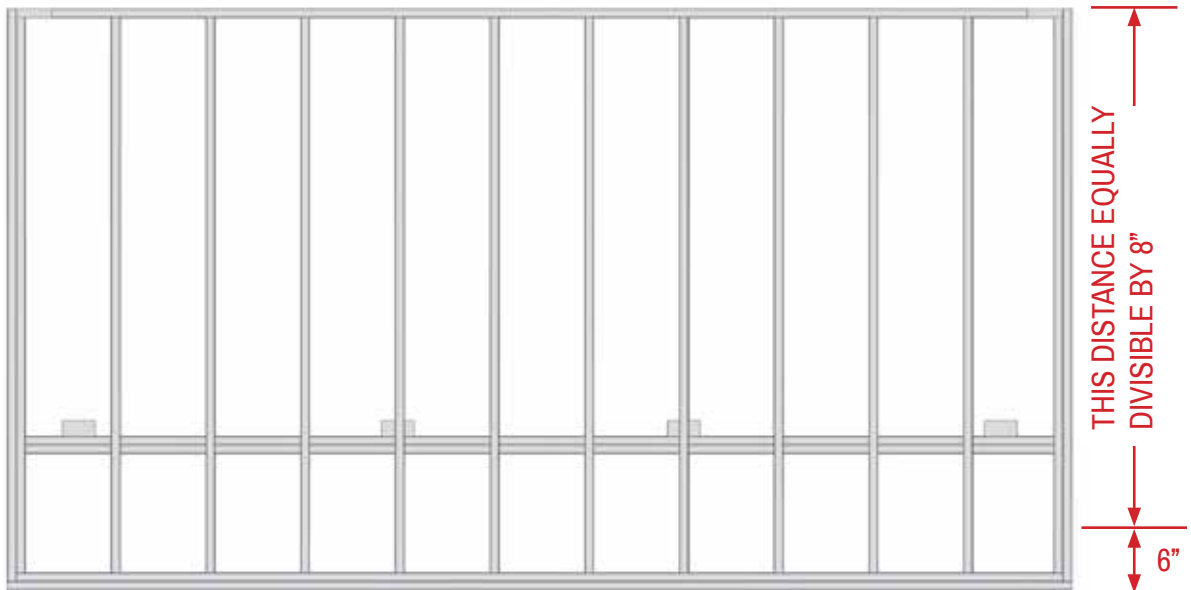
BLUE SKIN OR SIMILAR FLASH BARRIER



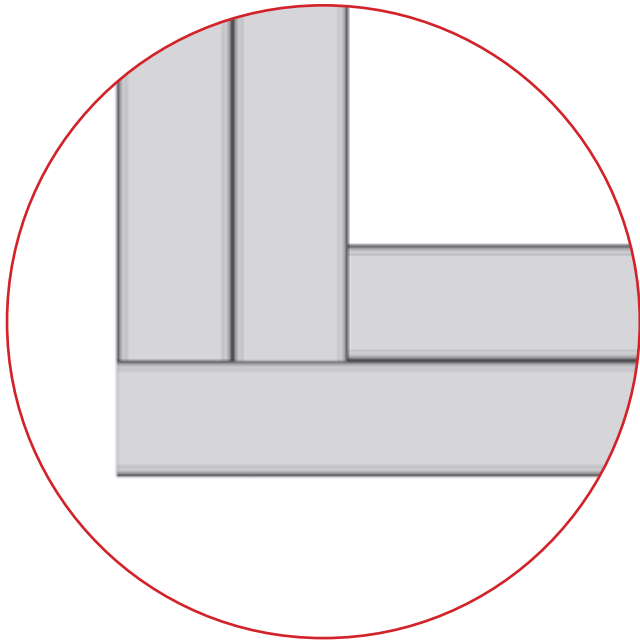
1" AND 2" ACQ RESISTANT WOOD SCREWS

## CHAPTER 01 :WOOD STRUCTURE DETAILS

**\*\* THE ASSUMPTION IS THAT THE WOOD FRAMING MEETS ALL LOCAL AND FEDERAL BUILDING CODES RELATED TO SPANS, JOIST SPACING, LOAD BEARING AND ANY AND ALL STRUCTURAL MATTERS. \*\***

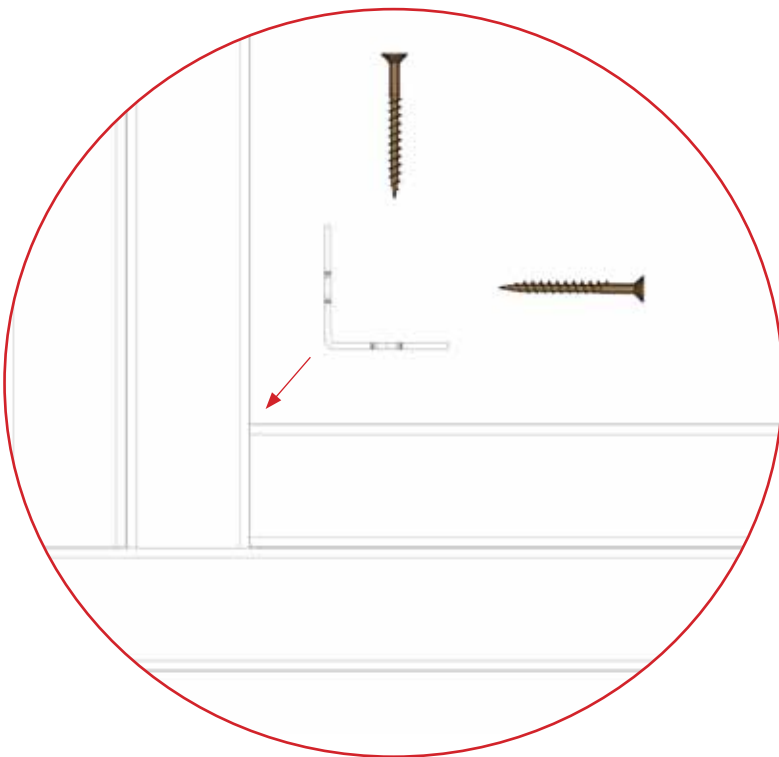


**TRAY EXTRUSIONS ARE 8\" WIDE AND THE STARTER TRIM IS 6\" WIDE. IN ORDER TO MINIMIZE UNNECESSARY CUTTING, IT IS RECOMMENDED THAT THE DISTANCE FROM THE HOUSE TO THE FRONT EDGE OF THE FASCIA BE A NUMBER EQUALLY DIVISIBLE BY  $8 + 6$ \" FOR STARTER TRIM AS ILLUSTRATED ABOVE.**



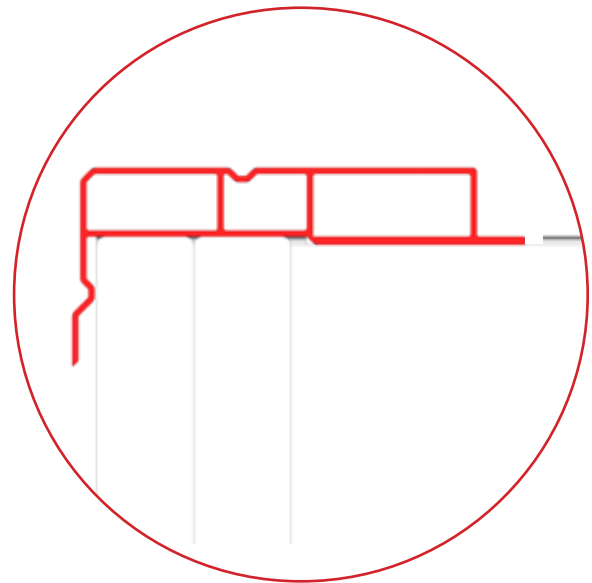
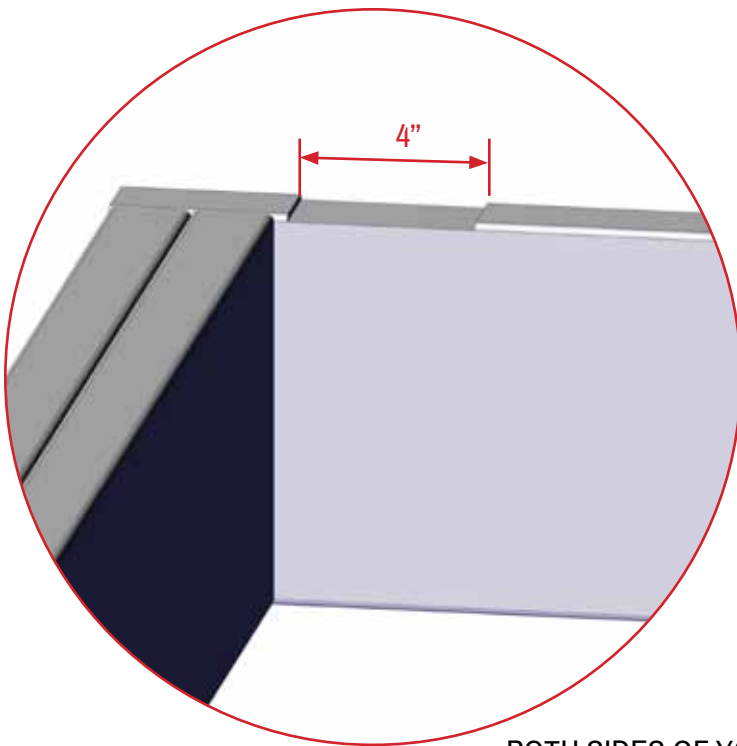
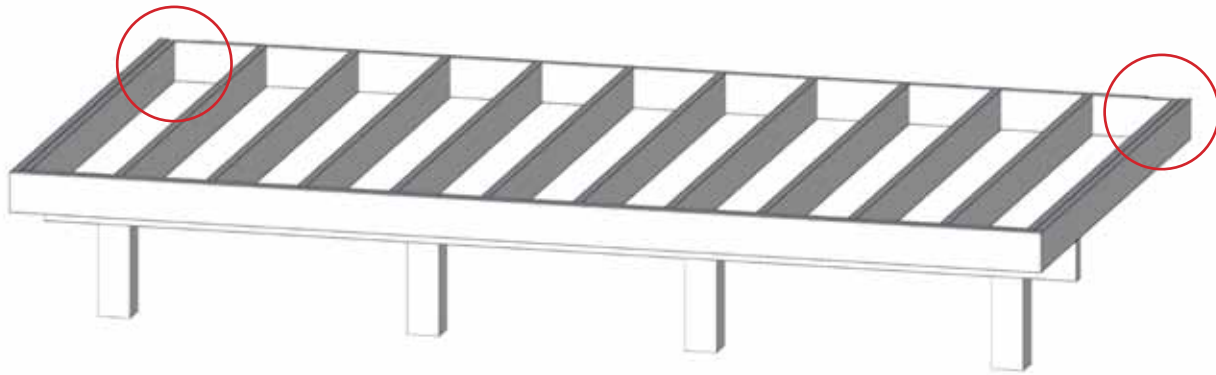
WHAT EVER DIMENSIONAL LUMBER IS USED FOR FRAMING, IT NEEDS TO BE DOUBLED UP ON BOTH EXTERIOR JOISTS AND FASCIA AS ILLUSTRATED.

THIS ALLOWS FOR A PROPER BASE ON WHICH TO INSTALL STARTER AND FINISH TRIM.

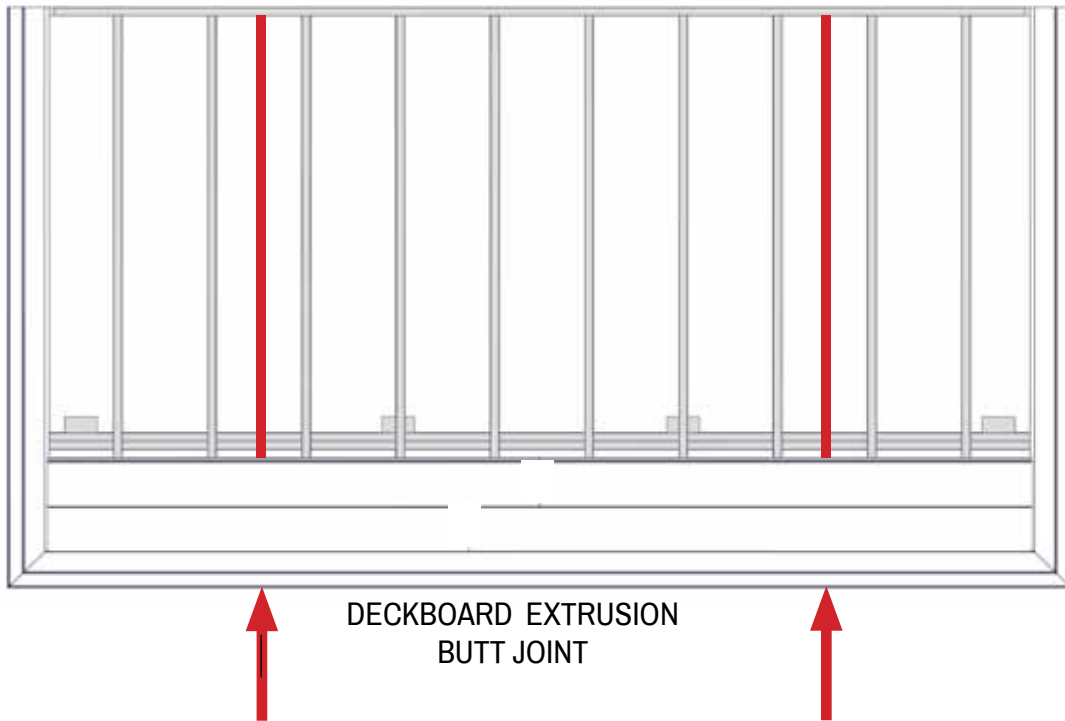


### STEEL CORNER REINFORCEMENT

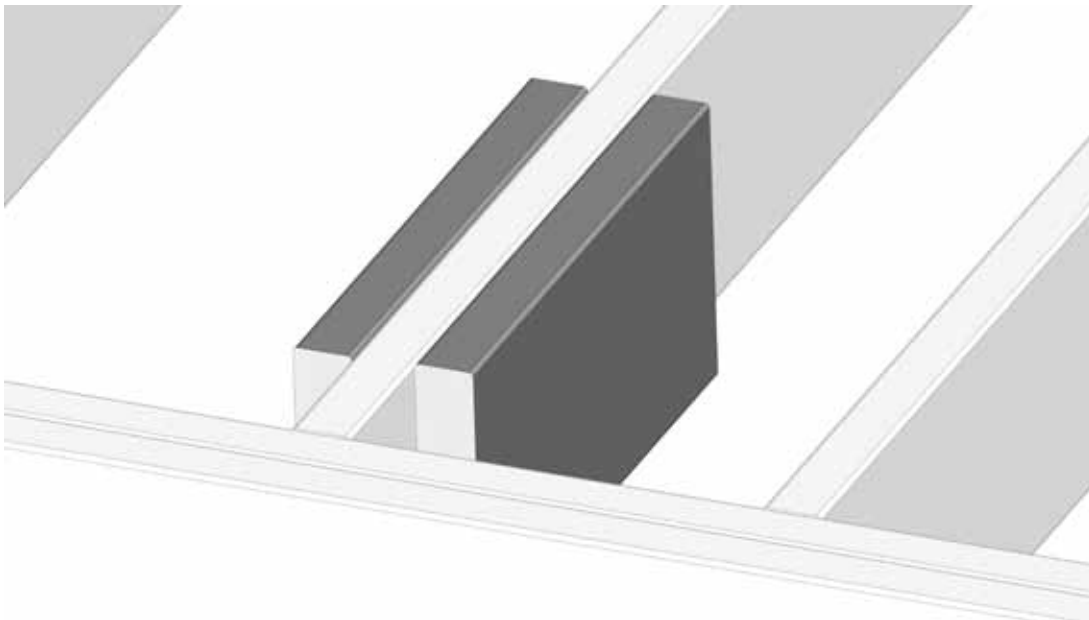
SINCE DIMENSIONAL LUMBER IS SUBJECT TO TWISTING IT IS STRONGLY RECOMMENDED THAT A PIECE OF ANGLE IRON BE INSTALLED TO MITIGATE WARPING. THIS SHOULD RESULT IN THE INTEGRITY OF THE 45 DEGREE JOINT AT THE STARTER AND FINISH TRIM TO REMAIN CONSISTENT OVER TIME.



BOTH SIDES OF YOUR LEDGER BOARD NEEDS TO BE NOTCHED DOWN 1/8" OVER A 4" DISTANCE 3" FROM THE END OF THE LEDGERBOARD TO ALLOW THE FINISH TRIM TO LAY FLAT.



TRAYS COME IN ONE LENGTH THAT IN ALL LIKELIHOOD WON'T CORRESPOND TO EXISTING FRAMING. THEREFORE, YOU WILL NEED TO ADD AN ADDITIONAL JOIST OR JOISTS (AS ILLUSTRATED ABOVE) TO SUPPORT THE BUTT JOINT OF THE TRAYS. IT IS IMPERATIVE THAT YOU STAGGER THE BUTT JOINTS.



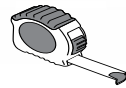
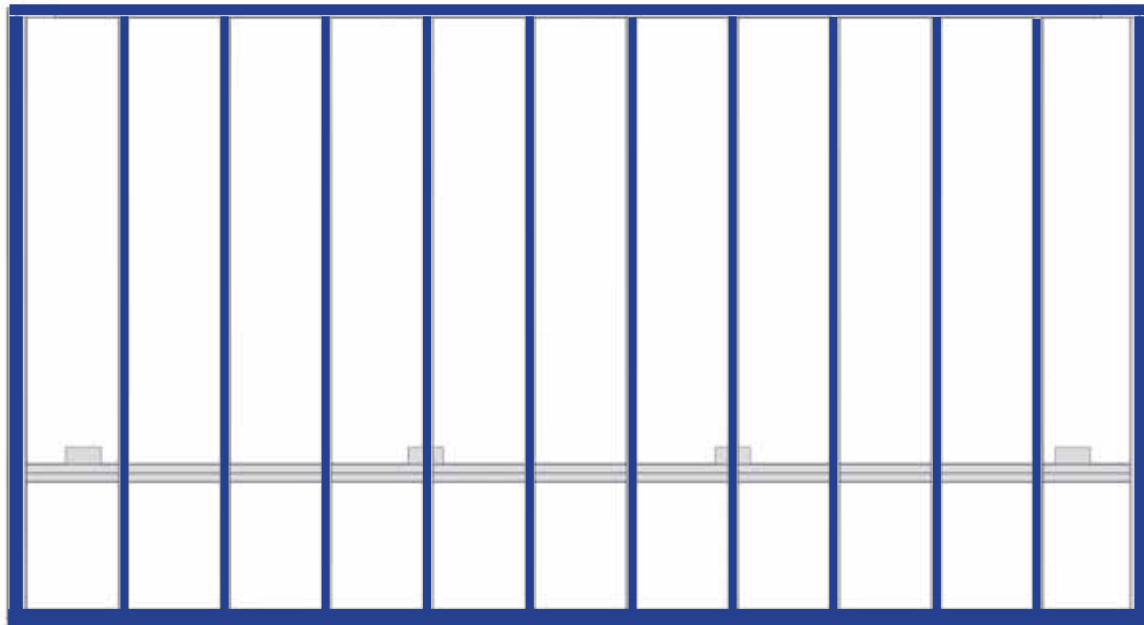
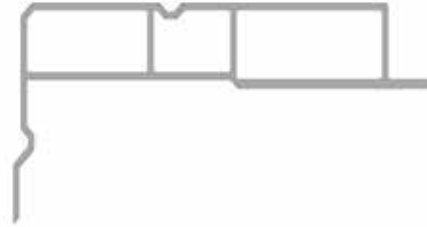
FOR A BETTER SUPPORT OF THE BUTT JOINT, IT IS RECOMMENDED TO ADD ADDITIONNAL BLOCKING ON EITHER SIDE OF THE JOIST WHERE THE TRAYS MEET.

## CHAPTER 02: STARTER AND FINISH TRIM

END VIEW OF STARTER TRIM



END VIEW OF FINISH TRIM



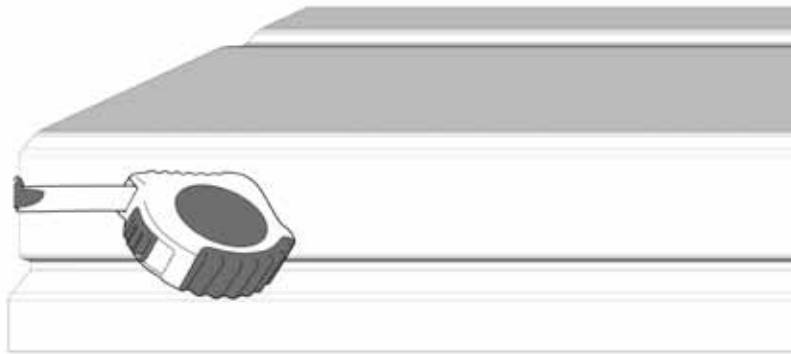
MEASURE WIDTH OF FASCIA. (EXAMPLE 142")

PLACE BLUE SKIN OR SOME TYPE OF FLASH BARRIER OVER TOP OF EVERY JOIST INCLUDING FASCIA BEFORE INSTALLING TRIM AND DECK TILES.

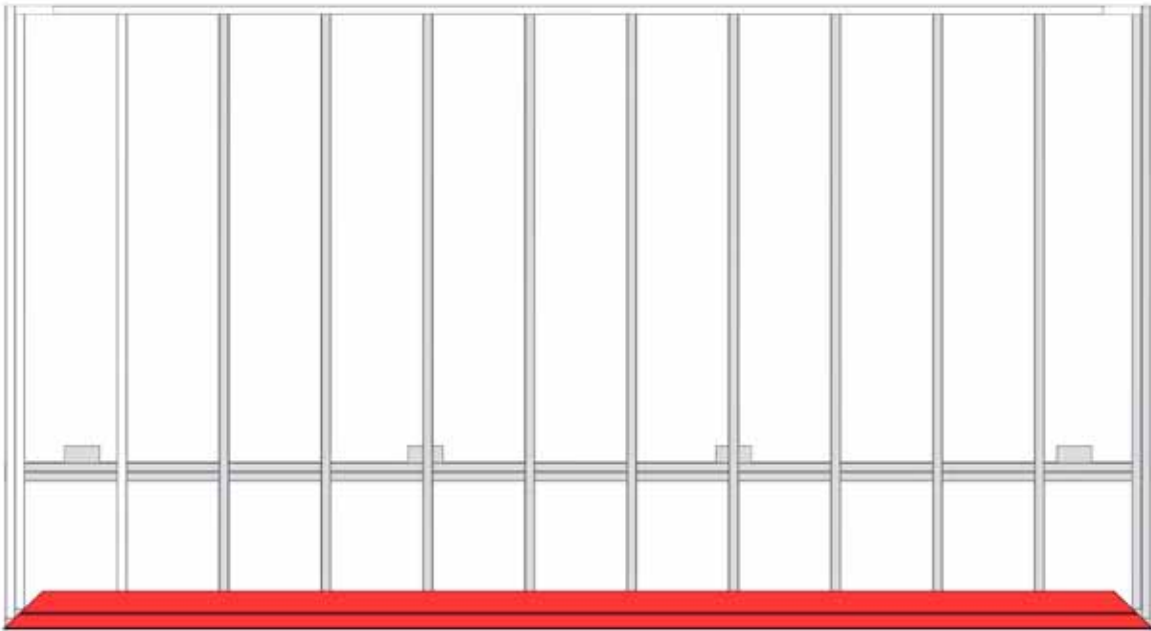




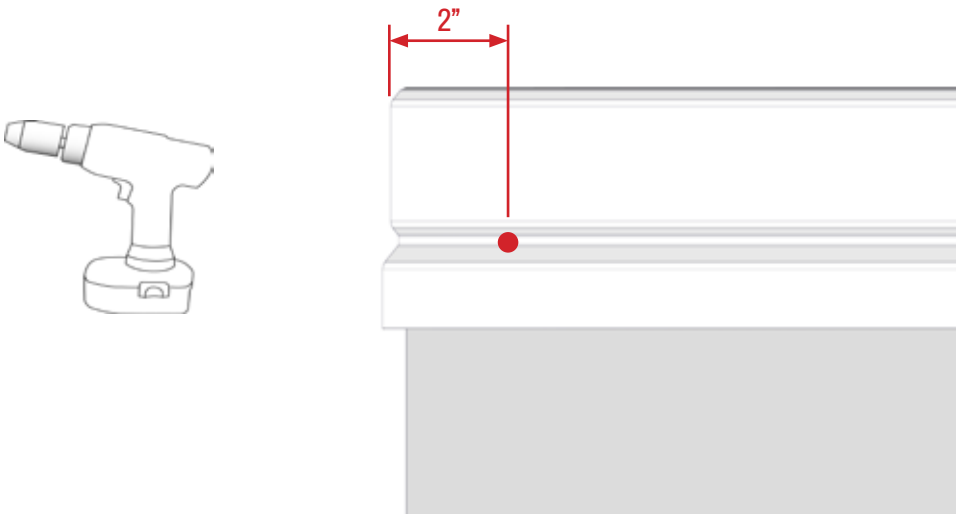
CUT ONE END OF THE STARTER TRIM AT A 45 DEGREE ANGLE USING A CHOPSAW. AS THIS IS NON-FERROUS METAL A REGULAR WOOD BLADE WILL WORK.



PLACE TAPE MEASURE ON THE FRONT PORTION OF THE STARTER TRIM AS ILLUSTRATED AND MEASURE OUT YOUR ORIGINAL DISTANCE PLUS 1/2" AND MAKE A MARK. (EXAMPLE 142 1/2") CUT AT THE OPPOSITE 45 DEGREE ANGLE.

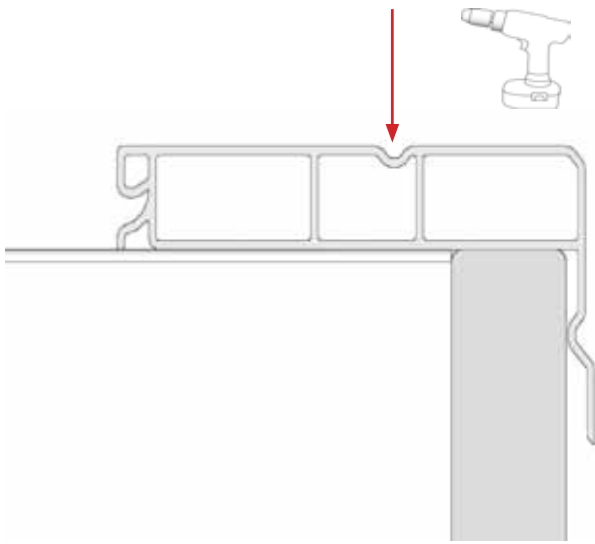


CENTER STARTER TRIM ON FASCIA. BEFORE SECURING WITH ACQ TREATED SCREWS, MEASURE, MAKING SURE THAT THE STARTER TRIM OVERHANGS 1/4" AT BOTH ENDS.

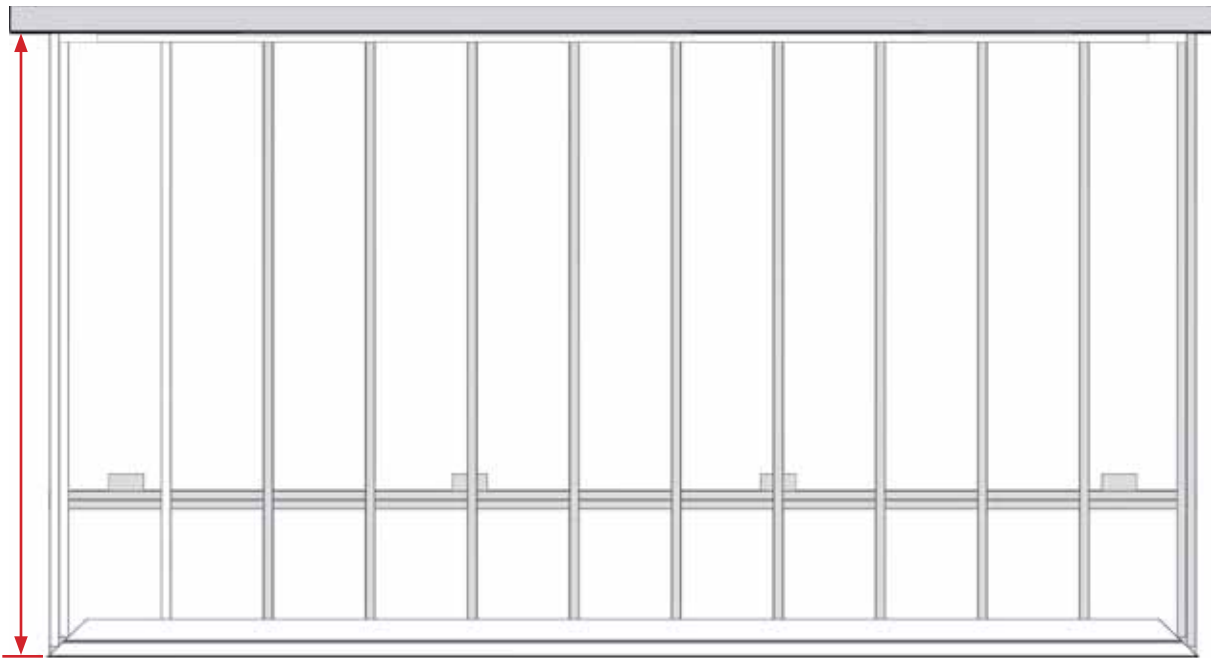


MEASURE IN 2" FROM EITHER END, DRILL AND SCREW USING ACQ TREATED SCREWS AT LEAST 2" LONG. REPEAT AT 2 FOOT INCREMENTS ALONG LENGTH OF STARTER.

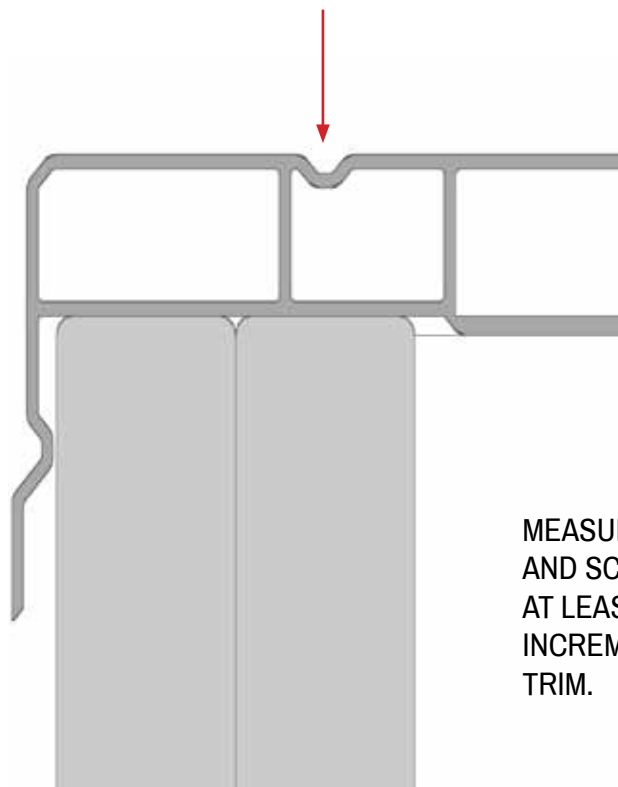
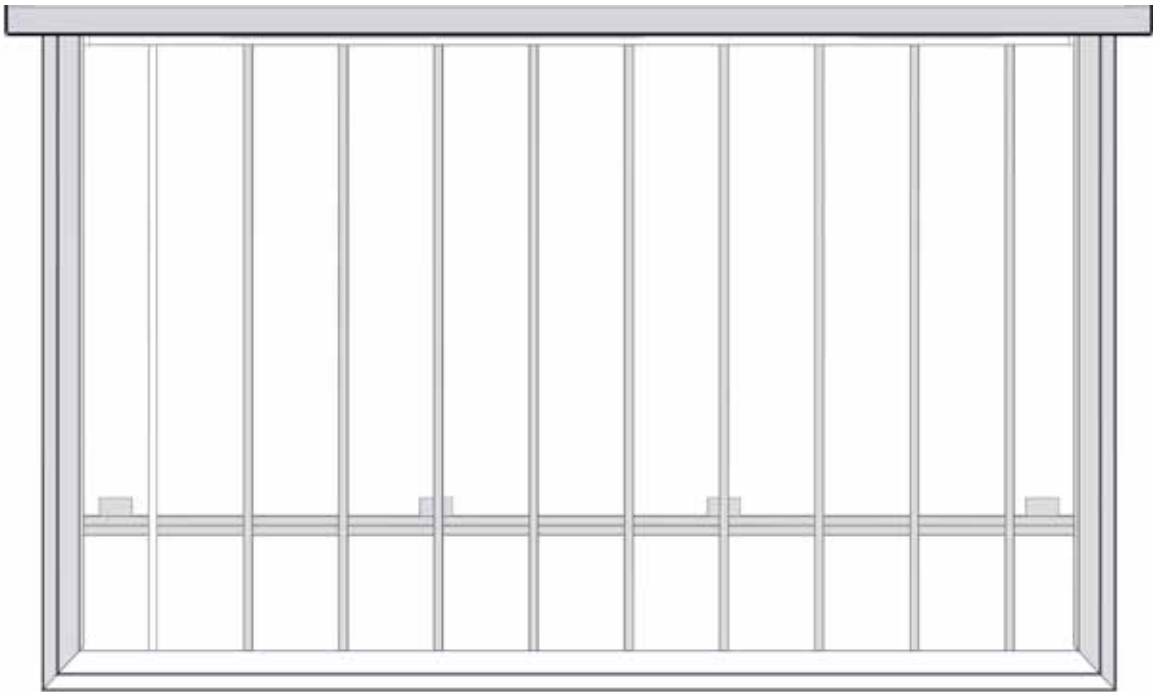
## CHAPTER 02: STARTER AND FINISH TRIM



REPEAT PROCESS ALONG TOP CHANNEL  
DRILLING AND SCREWING AT EVERY OTHER  
JOIST LOCATION.

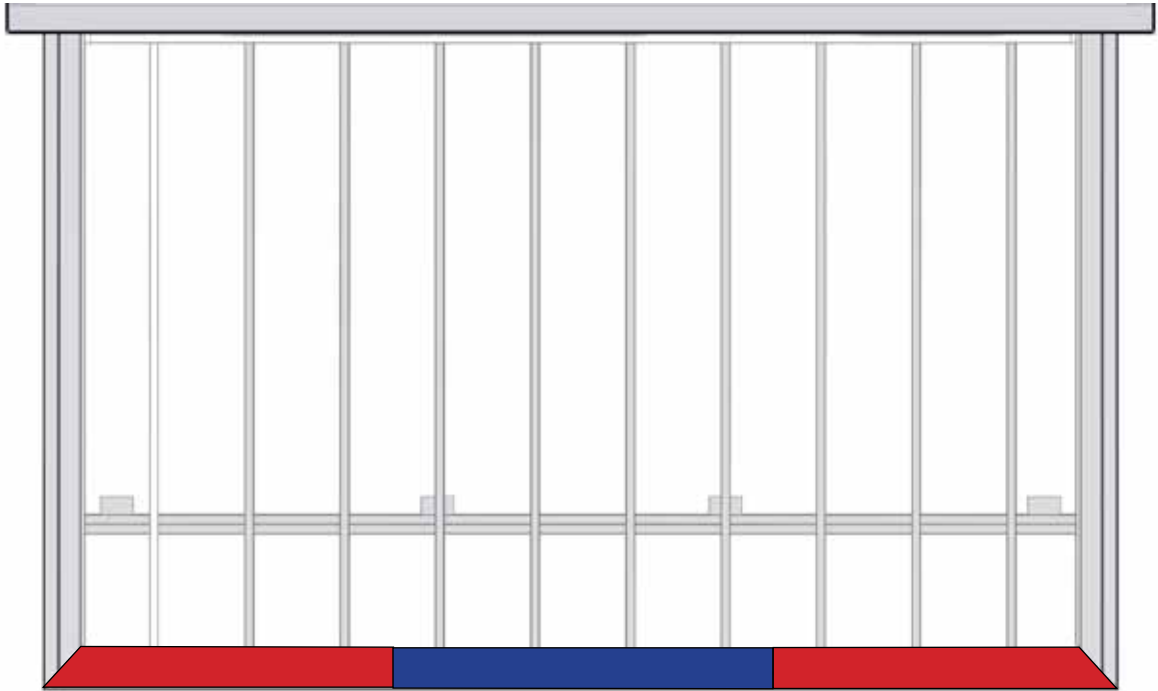


TO DETERMINE LENGTH OF FINISH TRIM, MEASURE FROM HOUSE  
TO FRONT EDGE OF STARTER TRIM. CUT AT A 45 DEGREE ANGLE.  
REPEAT PROCESS ON OTHER SIDE OF DECK.

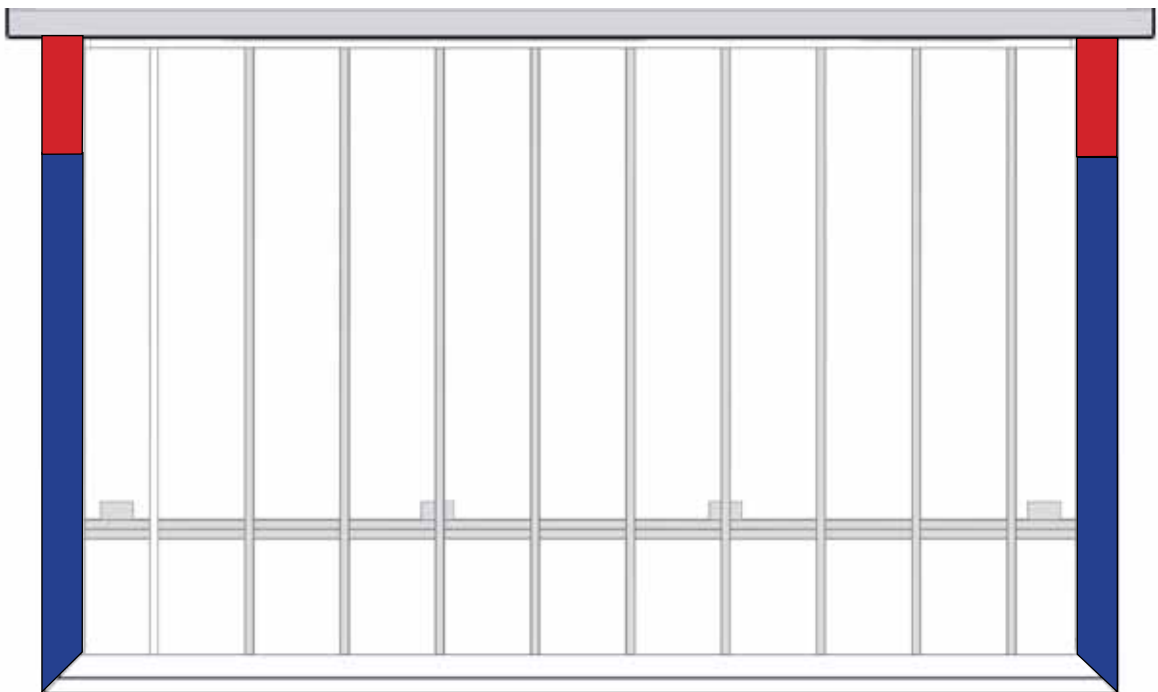


MEASURE IN 2" FROM EITHER END, DRILL AND SCREW USING ACQ TREATED SCREWS AT LEAST 2" LONG. REPEAT AT 2 FOOT INCREMENTS ALONG LENGTH OF FINISH TRIM.

## CHAPTER 02: STARTER AND FINISH TRIM



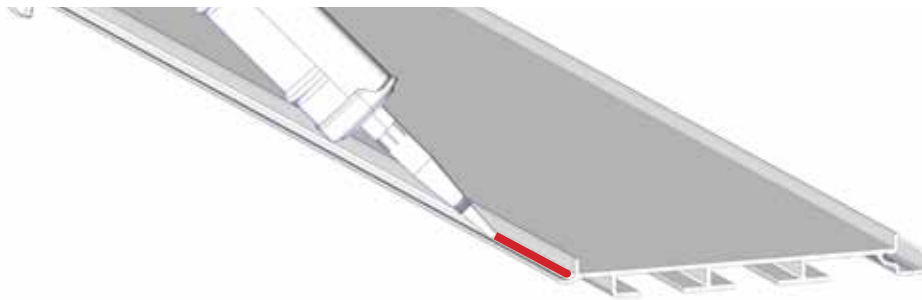
IF YOUR DECK IS WIDER THAN 12' YOU WILL NEED TO ADD ONE OR MORE PIECES OF STARTER TRIM AS ILLUSTRATED.



IF YOUR DECK IS DEEPER THAN 12' YOU WILL NEED TO ADD ONE OR MORE PIECES OF FINISH TRIM AS ILLUSTRATED.

## CHAPTER 03: WATERPROOFING DECK TILES

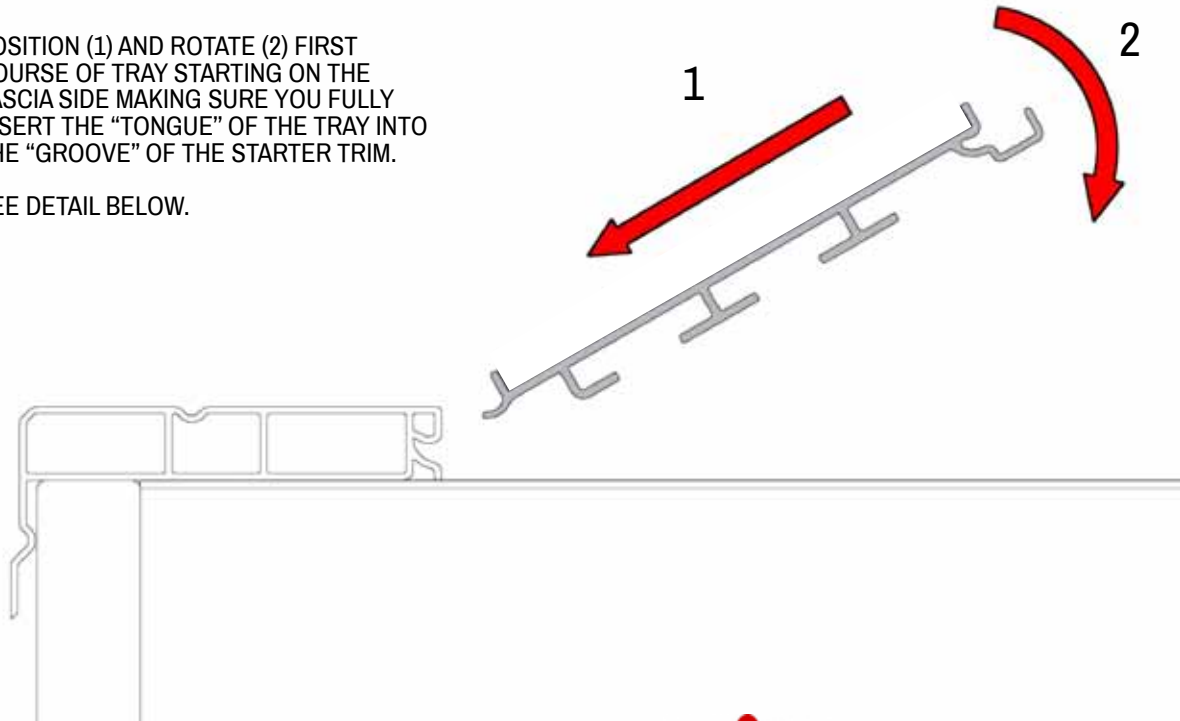
IF YOU WANT THE UNDERSIDE OF YOUR DECK TO BE MOSTLY WATERPROOF, YOU CAN APPLY SILICONE SEALANT TO THE TONGUE OF EVERY TRAY EXTRUSION. THERE IS A GREATER LIKELYHOOD OF ACHIEVING THIS GOAL IF YOU ARE VERY DILIGENT IN THE APPLICATION OF THE SEALANT.





POSITION (1) AND ROTATE (2) FIRST COURSE OF TRAY STARTING ON THE FASCIA SIDE MAKING SURE YOU FULLY INSERT THE "TONGUE" OF THE TRAY INTO THE "GROOVE" OF THE STARTER TRIM.

SEE DETAIL BELOW.



IT IS IMPERATIVE THAT YOU KEEP THE TRAY TIGHT TO THE STARTER TRIM ALONG THE ENTIRE LENGTH OF THE TRAY.  
USE OF THE BOWRENCH MAKES THIS TASK EASIER.



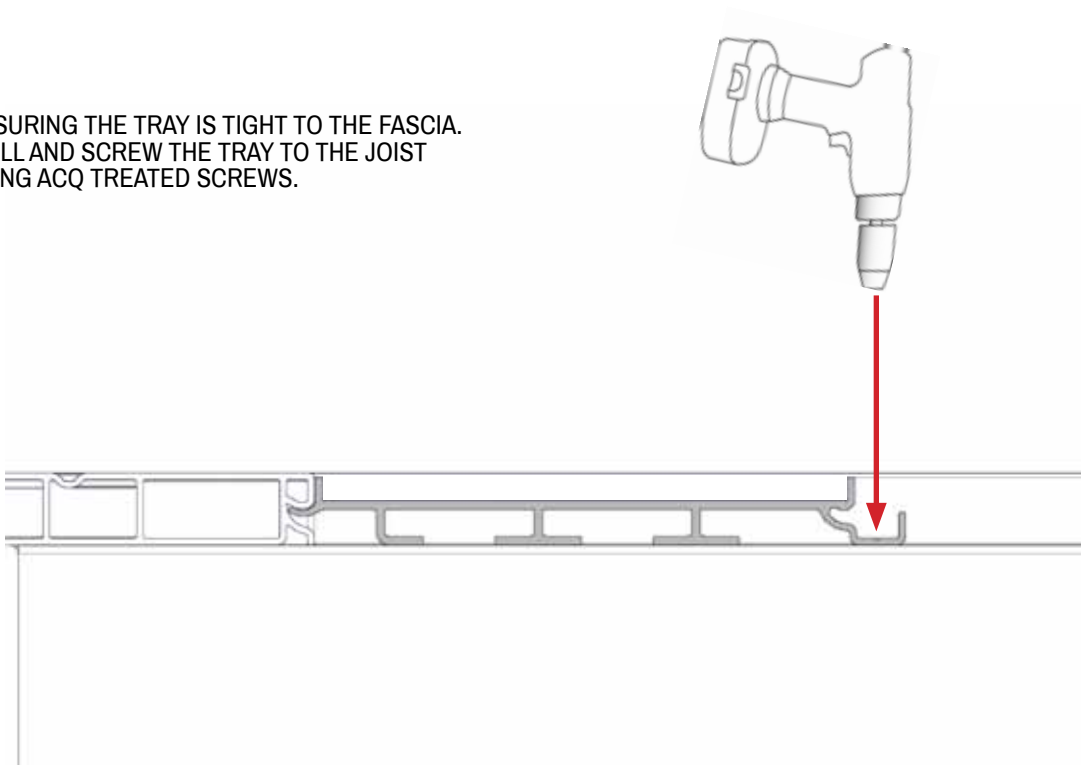


## CHAPTER 04: DECKBOARD

LEAVE A 1/4" GAP BETWEEN THE FINISH TRIM AND THE END OF THE TRAY EXTRUSION.



ENSURING THE TRAY IS TIGHT TO THE FASCIA. DRILL AND SCREW THE TRAY TO THE JOIST USING ACQ TREATED SCREWS.



INSTALL SUBSEQUENT LENGTHS OF TRAY TO COMPLETE FIRST COURSE.

ENSURING THE TRAY IS TIGHT TO THE STARTER TRIM. DRILL AND SCREW THE TRAY TO THE JOIST USING ACQ TREATED SCREWS.

THE TRAYS) MUST BUTT TIGHTLY AGAINST THE PREVIOUS TRAY. MAKE SURE THERE ARE NO GAPS BETWEEN END OF TRAYS.



THIS IS AN EXAMPLE OF A BUTT JOINT THAT WILL EXIST BETWEEN EVERY LENGTH OF TRAY THROUGHOUT THE ENTIRE DECK SURFACE.

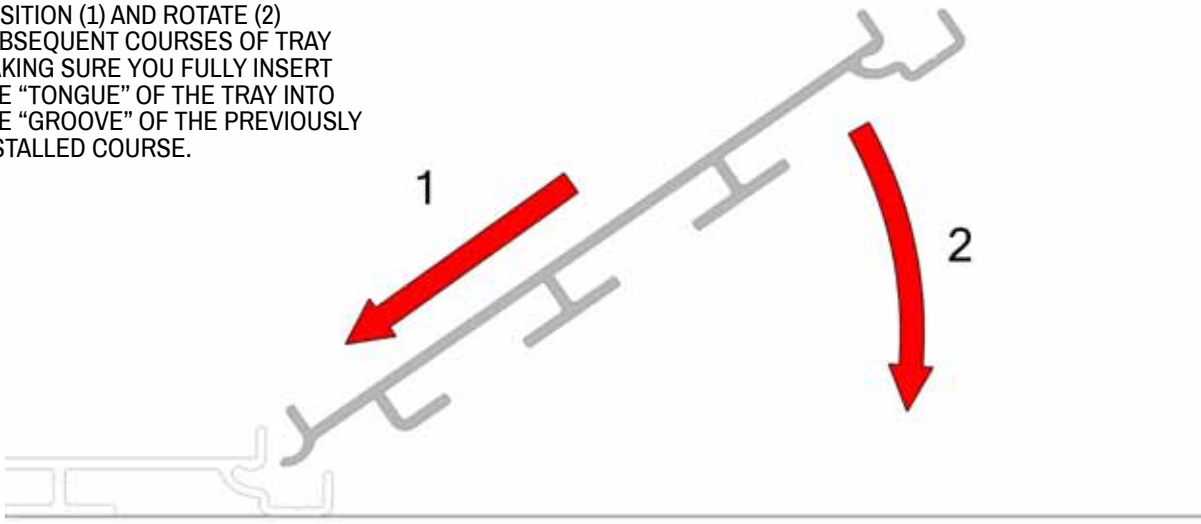
ENSURE EVERY BUTT JOINT LANDS ON A JOIST.

## CHAPTER 04: DECKBOARD

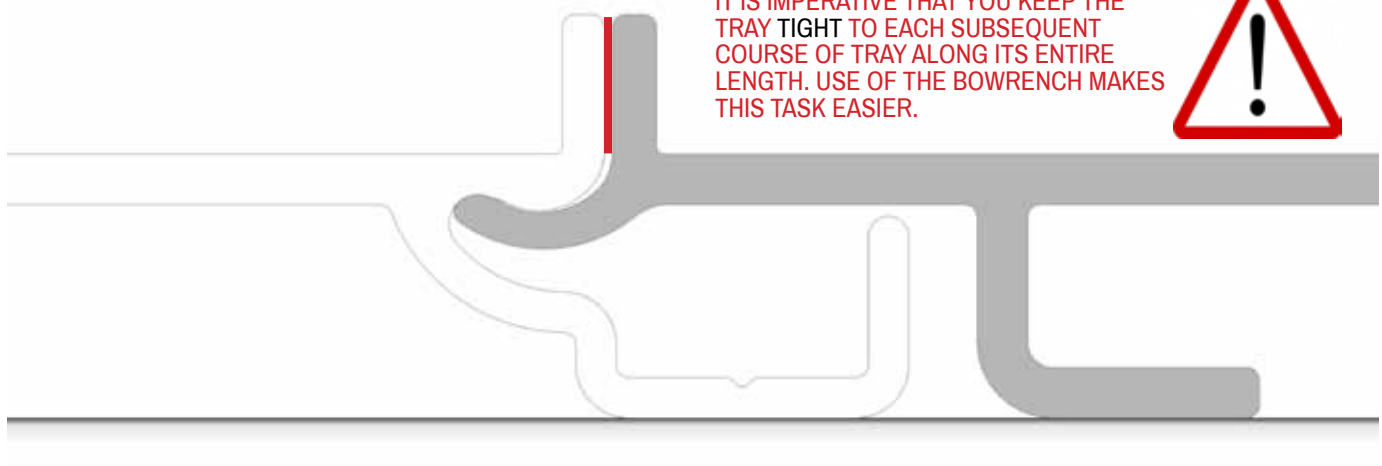
LEAVE A 1/4" GAP BETWEEN THE FINISH TRIM AND THE END OF THE TRAY EXTRUSION.

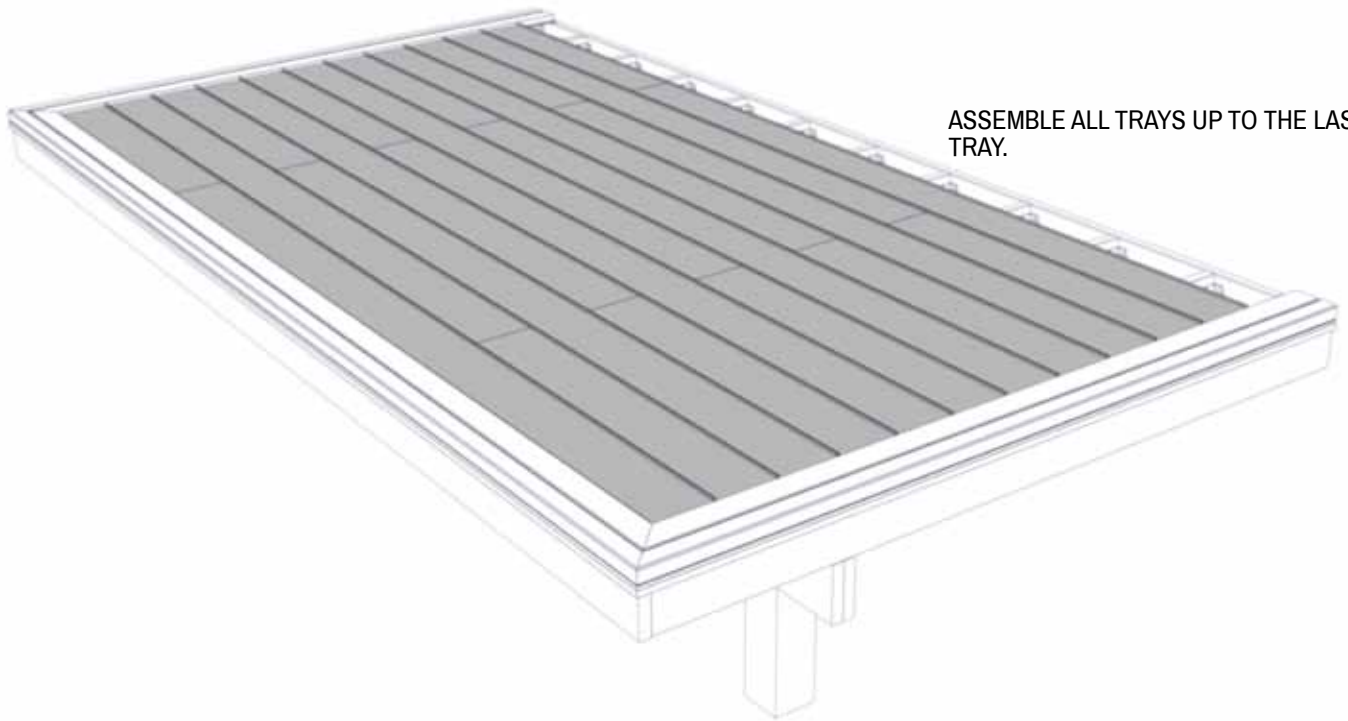


POSITION (1) AND ROTATE (2) SUBSEQUENT COURSES OF TRAY MAKING SURE YOU FULLY INSERT THE "TONGUE" OF THE TRAY INTO THE "GROOVE" OF THE PREVIOUSLY INSTALLED COURSE.

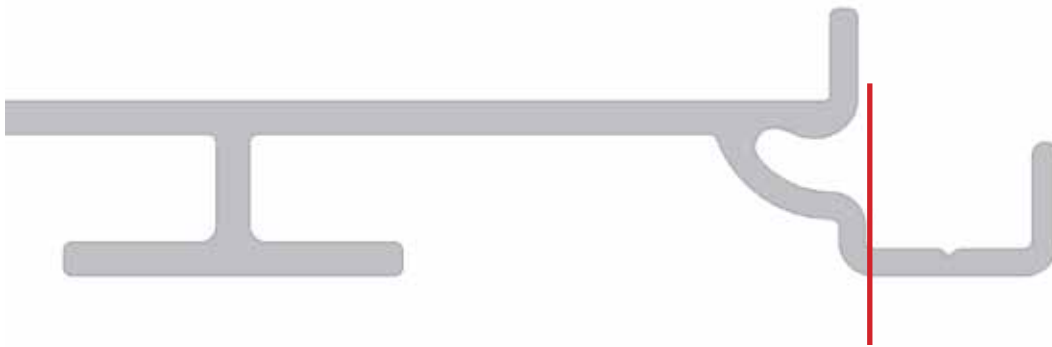


IT IS IMPERATIVE THAT YOU KEEP THE TRAY **TIGHT** TO EACH SUBSEQUENT COURSE OF TRAY ALONG ITS ENTIRE LENGTH. USE OF THE BOWRENCH MAKES THIS TASK EASIER.





ASSEMBLE ALL TRAYS UP TO THE LAST TRAY.

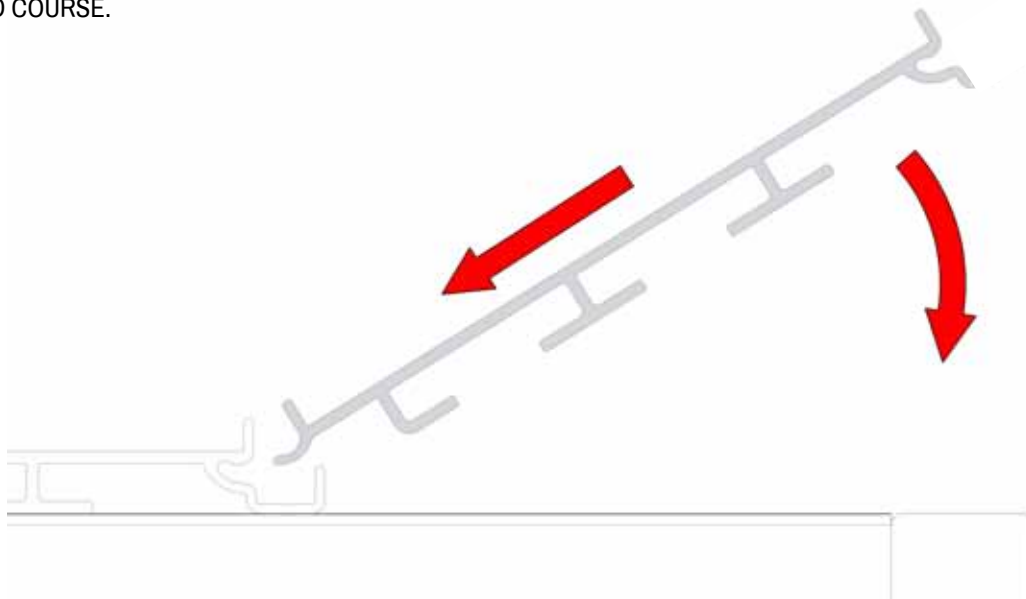


PRIOR TO INSTALLING THE FINAL TRAY AGAINST THE HOUSE, YOU WILL NEED TO CUT OFF THE SCREW CHANNEL ALONG THE ENTIRE LENGTH USING A CIRCULAR SAW.

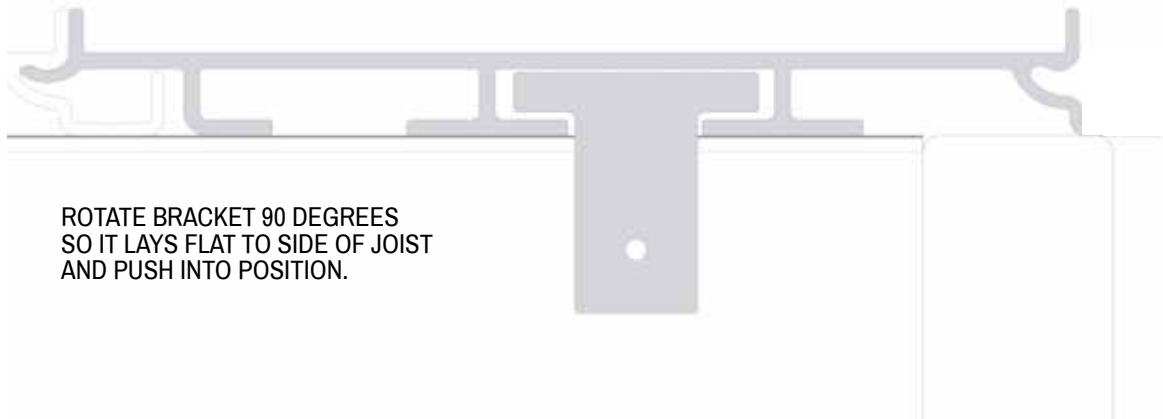


## CHAPTER 04: DECKBOARD

POSITION (1) AND ROTATE (2) LAST TRAY MAKING SURE YOU FULLY INSERT THE "TONGUE" OF THE TRAY INTO THE "GROOVE" OF THE PREVIOUSLY INSTALLED COURSE.

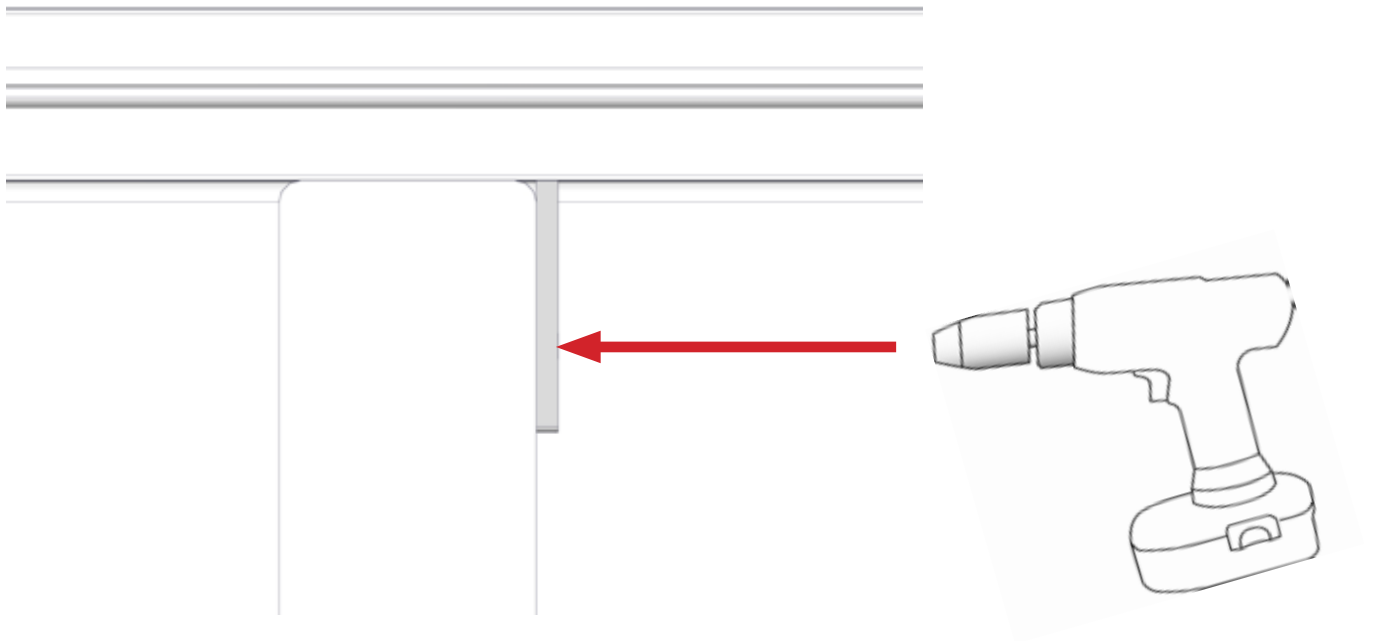


ONCE IN PLACE, FROM THE UNDERSIDE OF DECK INSERT "T" BRACKET IN THE CHANNEL ON THE UNDER SIDE OF THE TRAY.



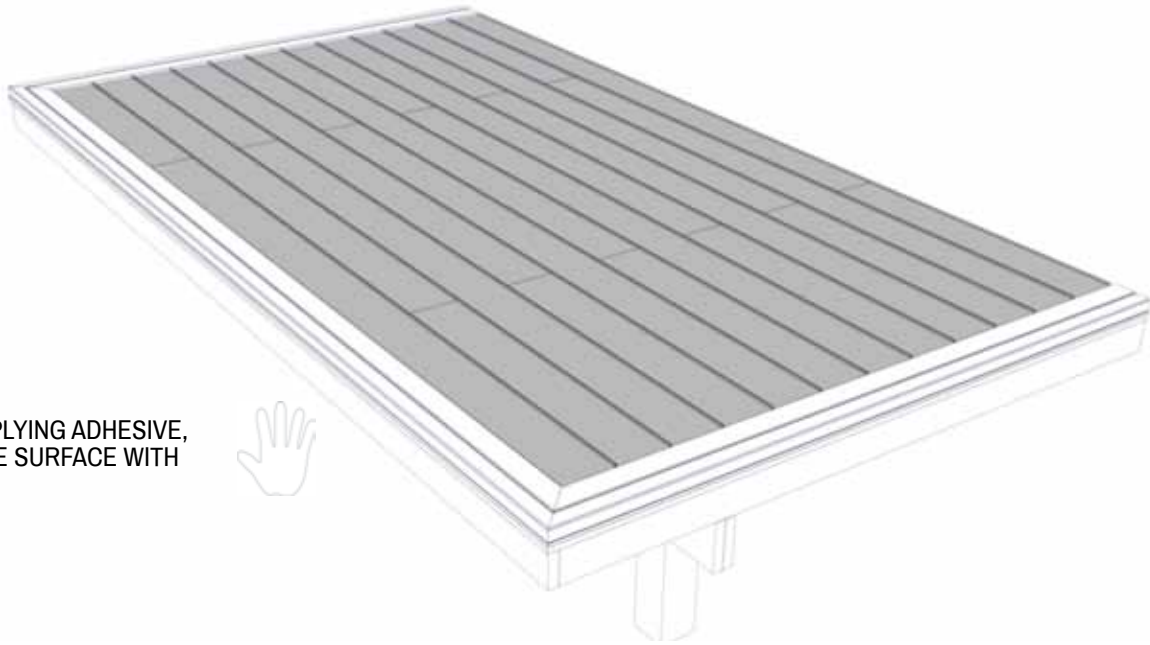
ROTATE BRACKET 90 DEGREES  
SO IT LAYS FLAT TO SIDE OF JOIST  
AND PUSH INTO POSITION.

**\*\*IN ORDER TO ENSURE THE LAST TRAYS ARE FULLY IN POSITION, HAVE ANOTHER PERSON STAND ON TOP OF THE TRAY WHILE YOU SCREW TAB TO SIDE OF JOIST.**

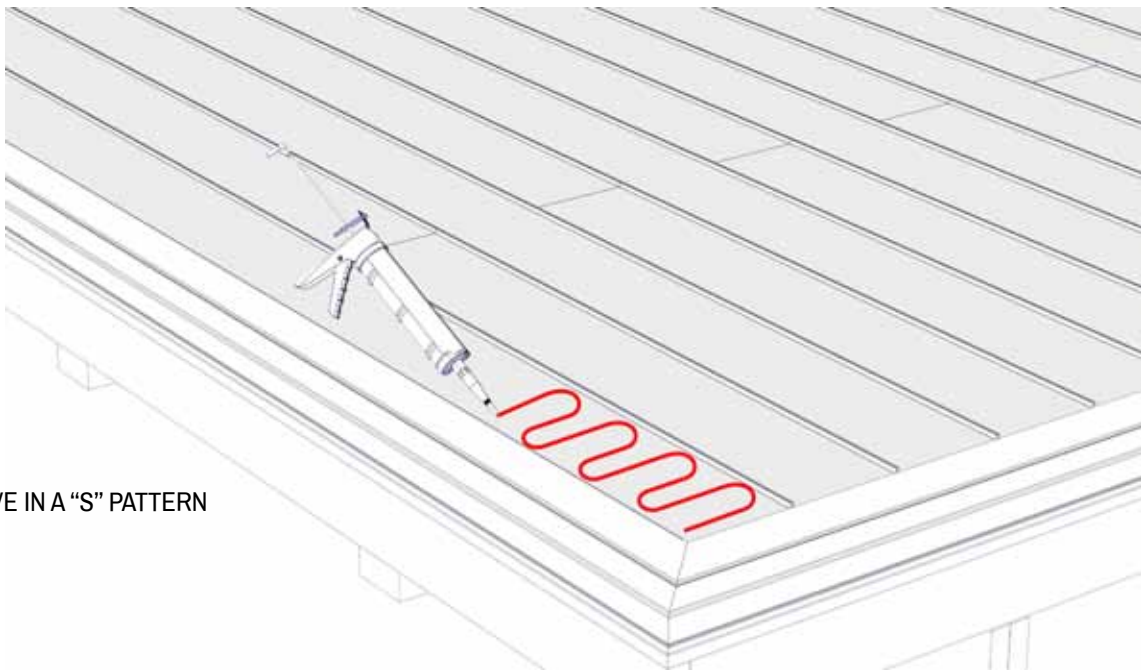


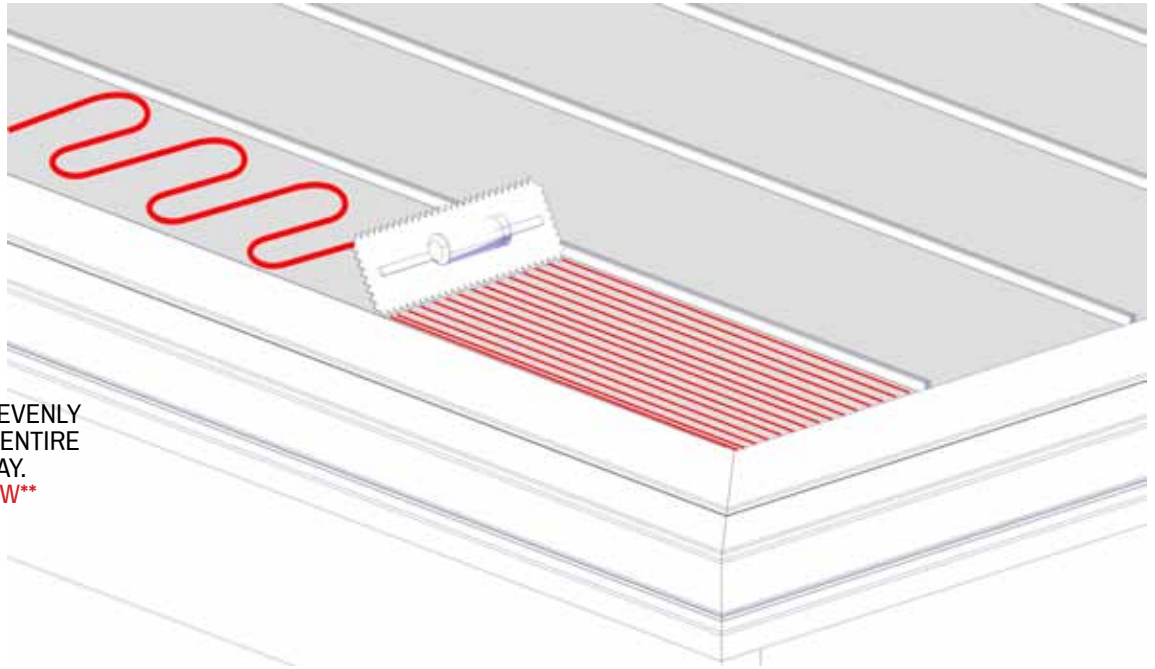
## CHAPTER 04: DECKBOARD

PRIOR TO APPLYING ADHESIVE,  
CLEAN ENTIRE SURFACE WITH  
ACETONE.

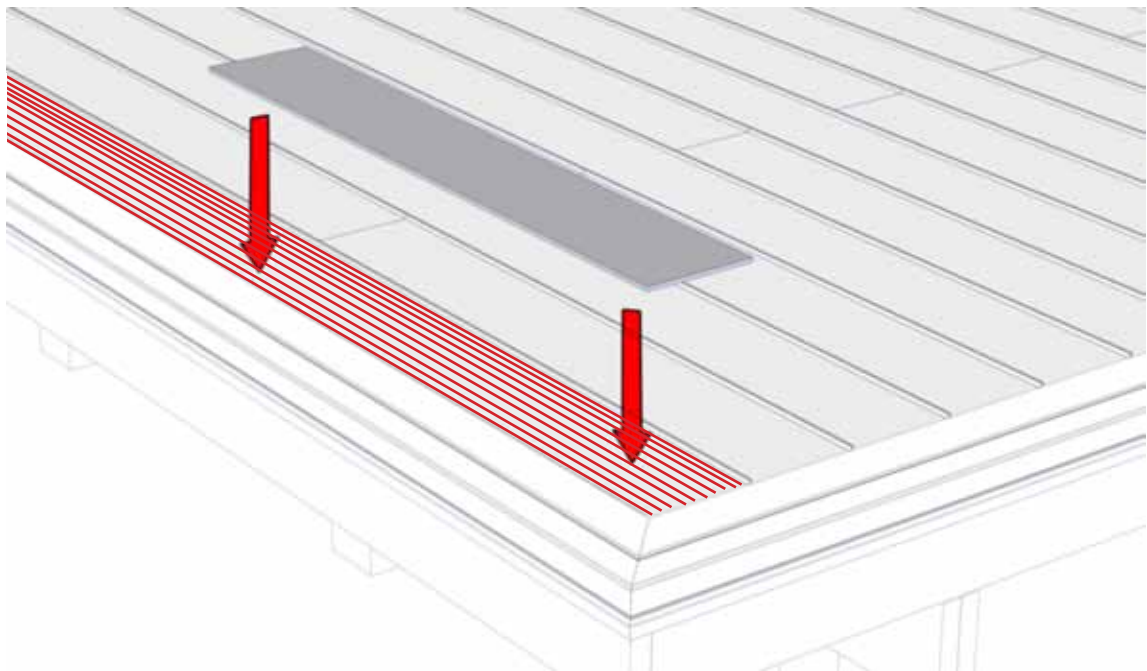


APPLY ADHESIVE IN A "S" PATTERN



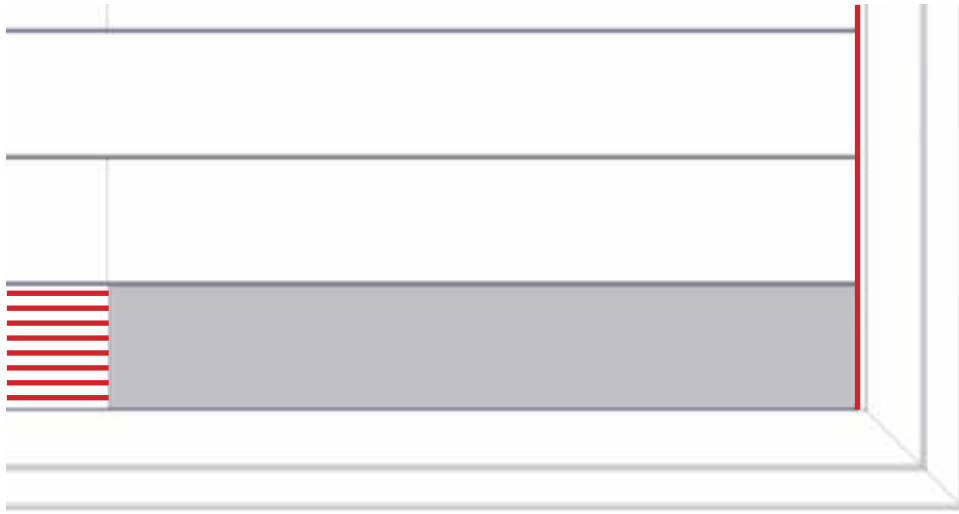


USE V NOTCH TROWEL TO EVENLY SPREAD ADHESIVE ALONG ENTIRE LENGTH AND WIDTH OF TRAY.  
\*\* SEE ILLUSTRATION BELOW\*\*

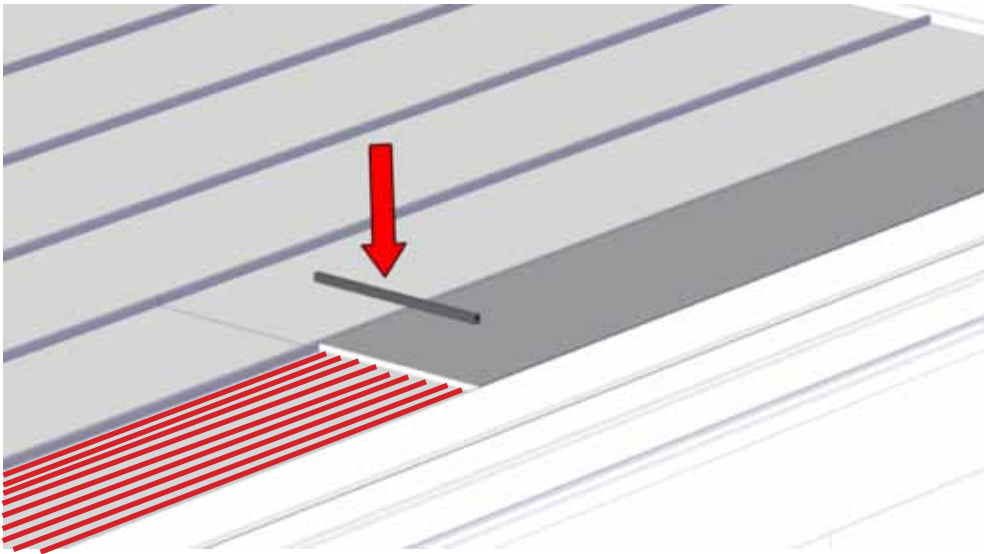




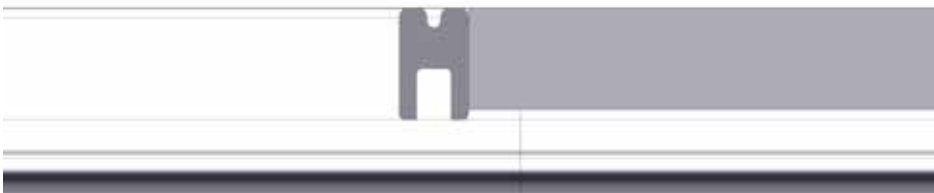
## CHAPTER 04: DECKBOARD



MAKE SURE THE END OF THE TILE IS FLUSH WITH THE END OF THE TRAY.



LOWER THE TILE SEPERATOR IMMEDIATELY NEXT TO THE TILE.



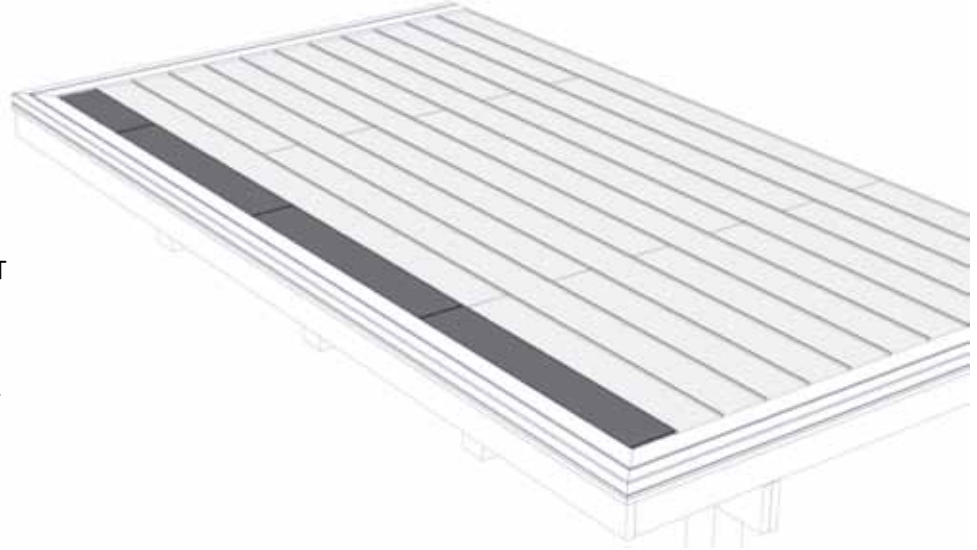
MAKE SURE THE TILE SEPERATOR COMES FLUSH WITH THE TILES AND THE SEPERATOR IS IN THE PROPER ORIENTATION AS ILLUSTRATED ABOVE.

## CHAPTER 04: DECKBOARD

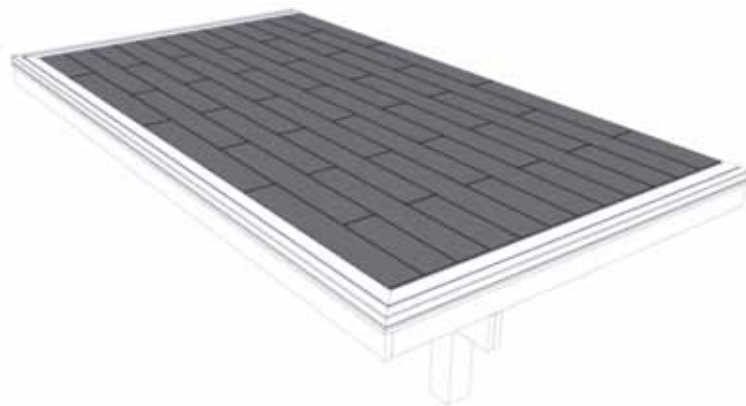
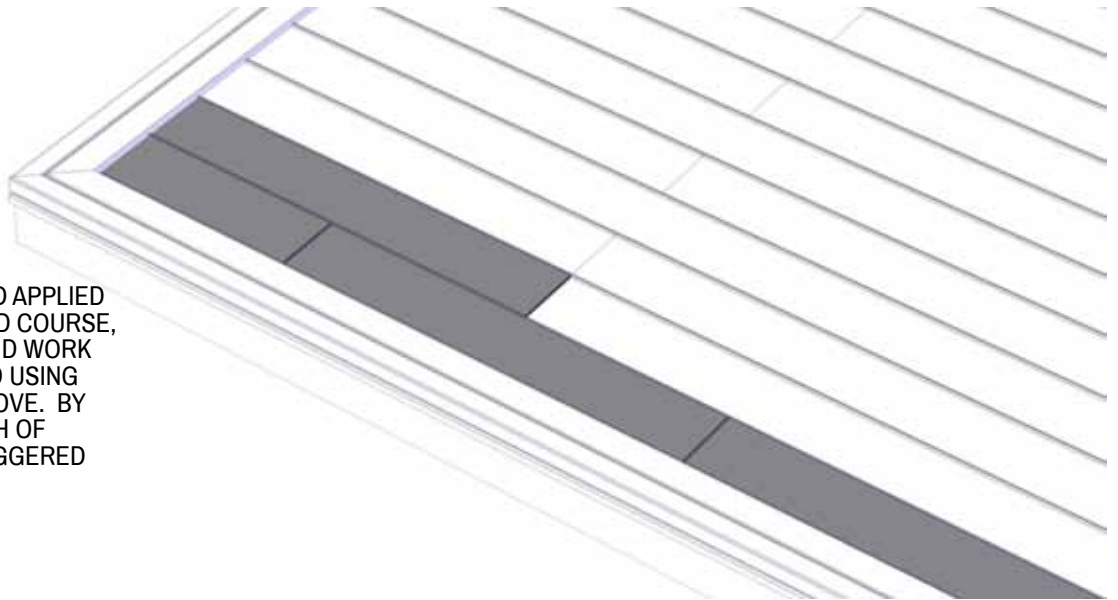
PLACE SUBSEQUENT LENGTHS OF TILE COMPLETE WITH SEPERATORS ALONG REMAINING LENGTH OF TRAY.

THE LAST TILE WILL NEED TO BE CUT AT DESIRED LENGTH TO END WHERE THE TRAY ENDS.

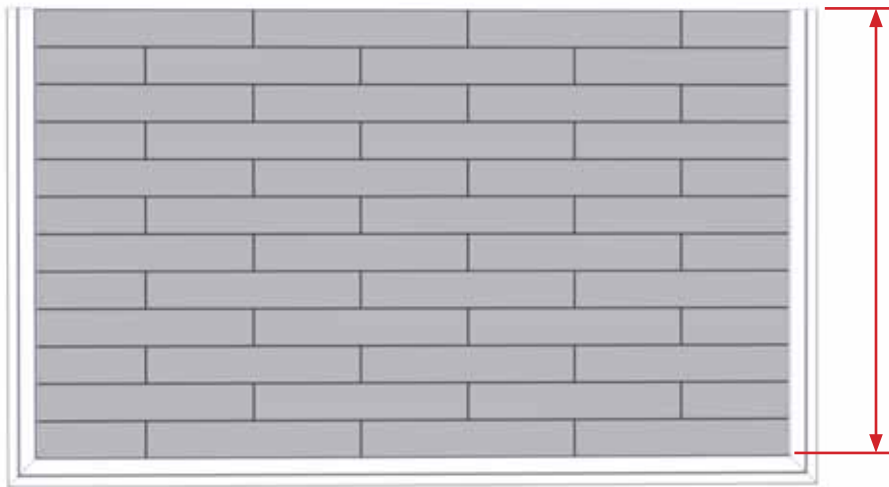
MAKE SURE THE SEPERATOR IS IN POSITION BEFORE MEASURING TO GET THE RIGHT LENGTH.



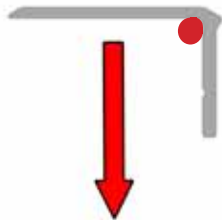
ONCE YOU HAVE CLEANED AND APPLIED THE ADHESIVE TO THE SECOND COURSE, LAY A FULL LENGTH OF TILE AND WORK YOUR WAY TO THE OTHER END USING THE SAME PROCEDURE AS ABOVE. BY STARTING WITH A FULL LENGTH OF TILE, YOU WILL ENSURE A STAGGERED PATTERN.



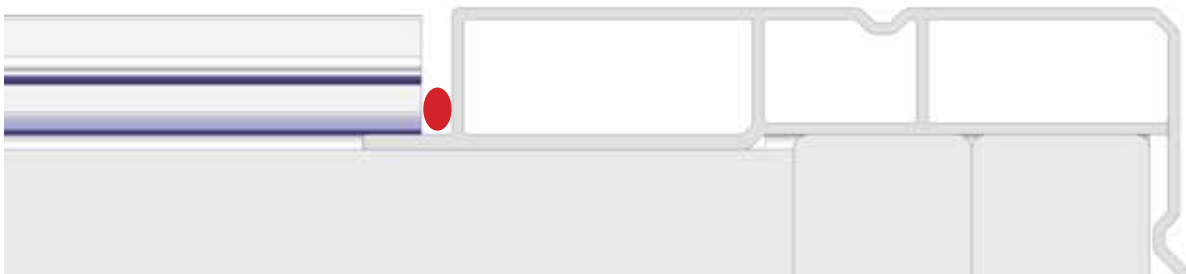
## CHAPTER 05: DECKBOARD TRIM



MEASURE DISTANCE FROM HOUSE TO THE BACK OF THE STARTER TRIM AND CUT DECK TILE TRIM PIECE(S) TO THAT LENGTH.



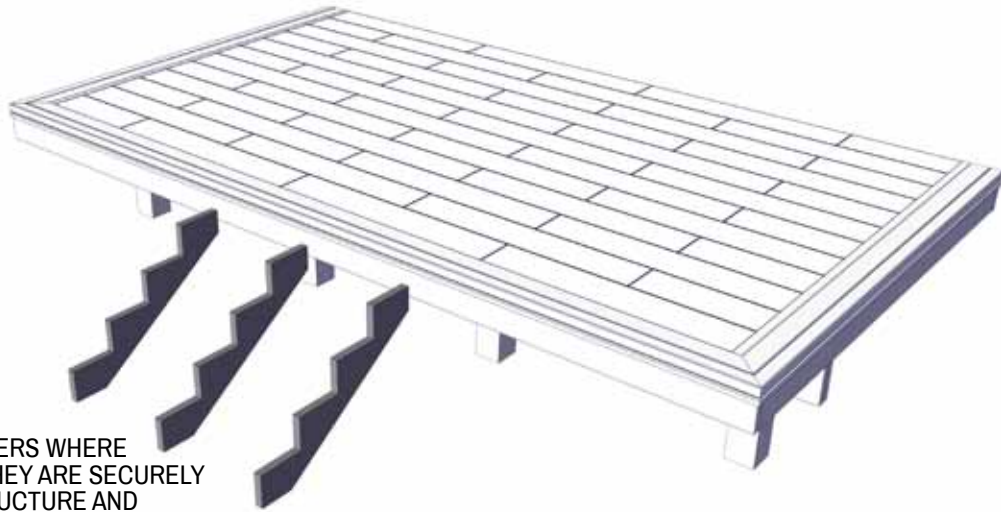
RUN A BEAD OF SILICONE ALONG THE ENTIRE END ON DECK BETWEEN FINISH TRIM AND END OF TRAY.



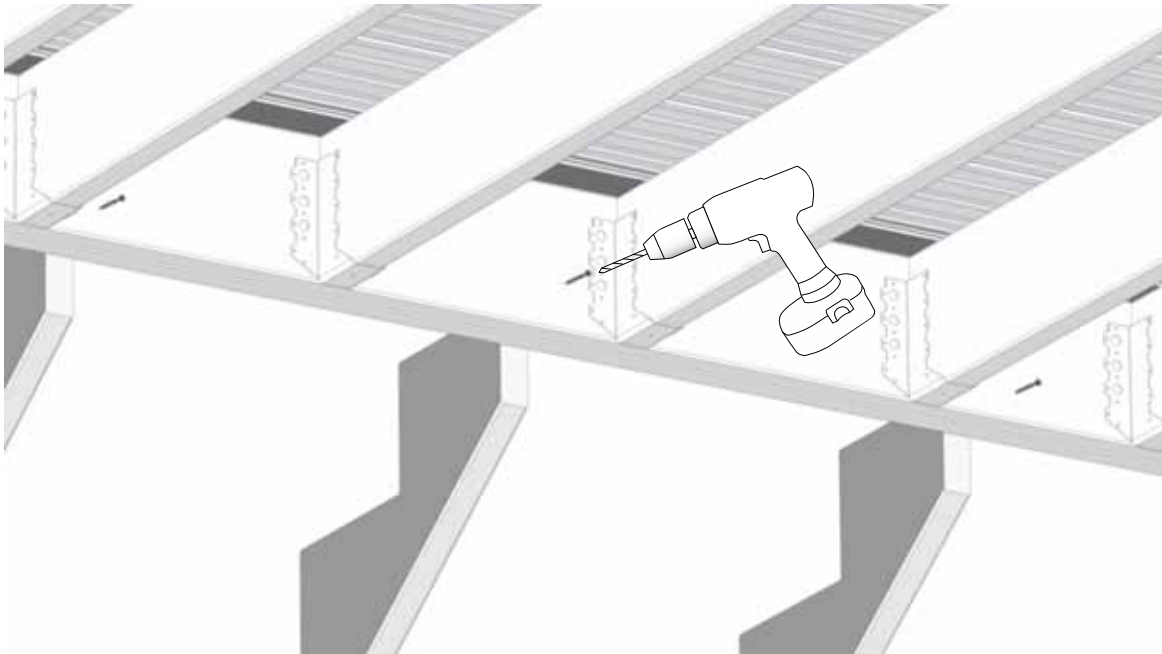
LOWER DECK TILE TRIM PIECE(S) INTO POSITION.



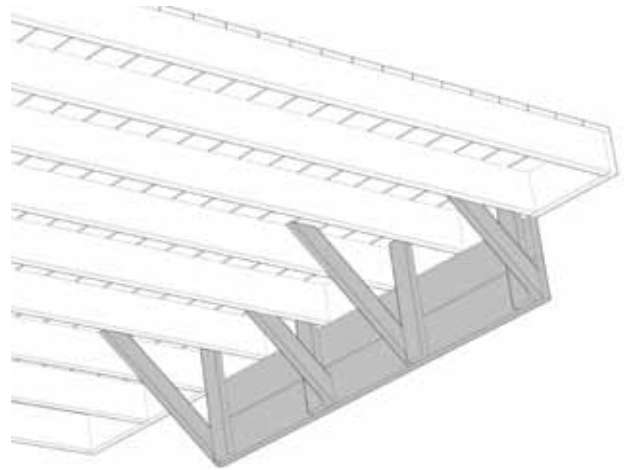
## CHAPTER 06: WOODEN STAIR STRINGERS



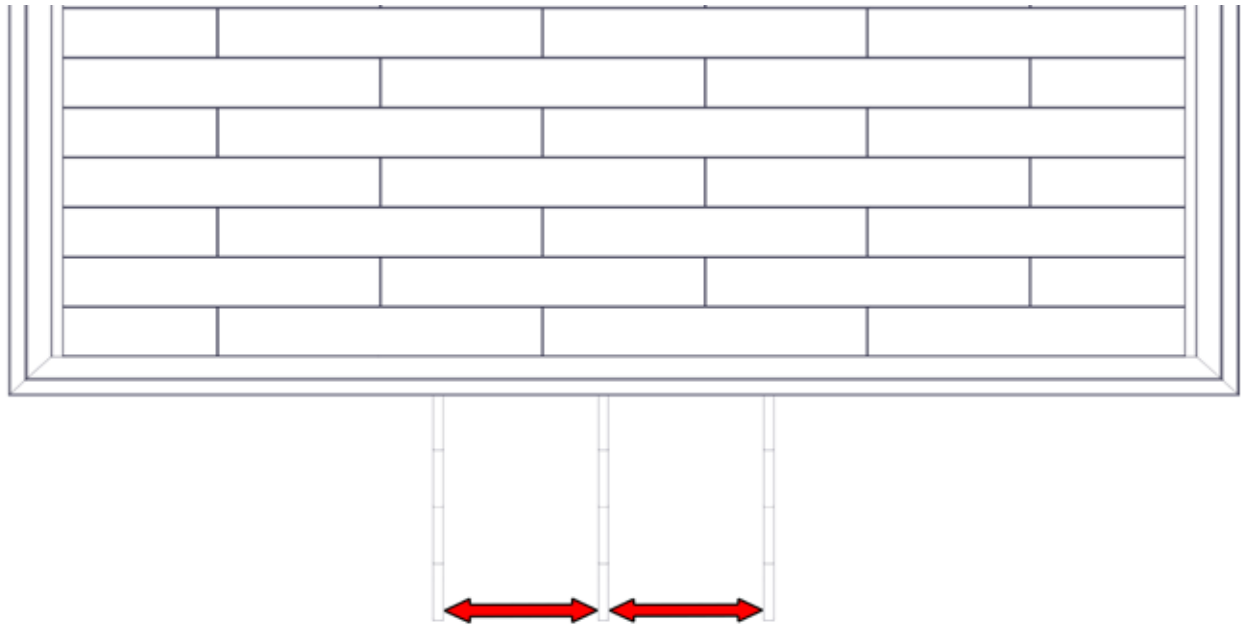
INSTALL STAIR STRINGERS WHERE DESIRED ENSURING THEY ARE SECURELY ATTACHED TO SUBSTRUCTURE AND RESTING ON A FIRM FOUNDATION LIKE A PATIO BLOCK.



# CHAPTER 06: WOODEN STAIR STRINGERS

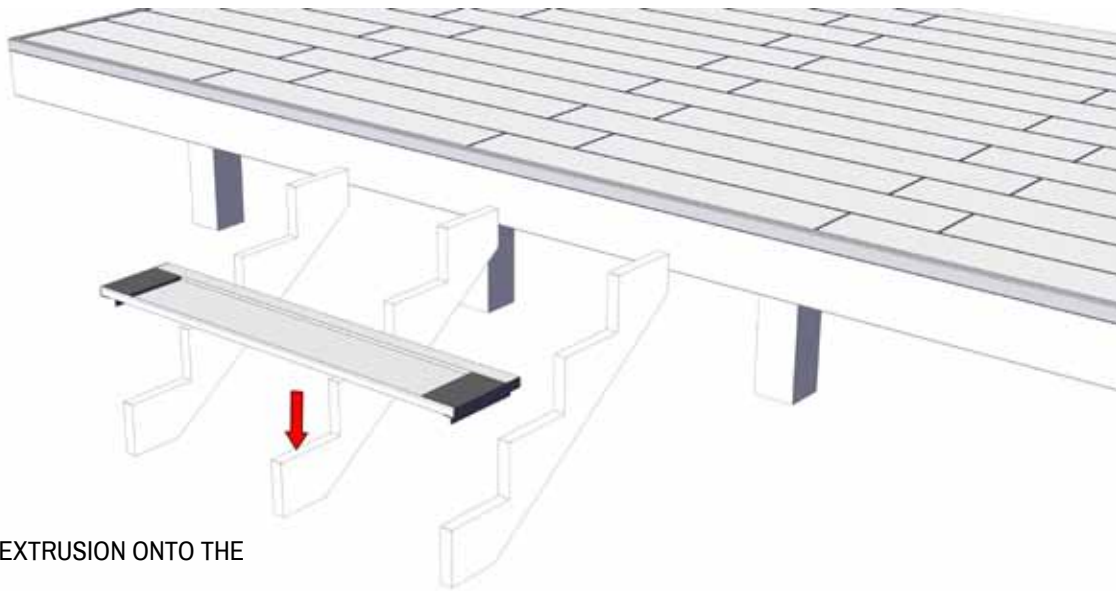


ADDITIONAL FRAMING MAY BE REQUIRED.  
CHECK WITH LOCAL BUILDING CODE.



TREAD LENGTH	NUMBER OF STRINGERS	DISTANCE BETWEEN STRINGERS
3 Feet	3	14 1/2 Inches
4 Feet	3	20 1/2 Inches
5 Feet	4	17 1/16 Inches
6 Feet	4	21 1/16 Inches
7 Feet	5	18 7/16 Inches
8 Feet	5	21 7/16 Inches
9 Feet	6	19 1/4 Inches
10 Feet	6	21 5/8 Inches

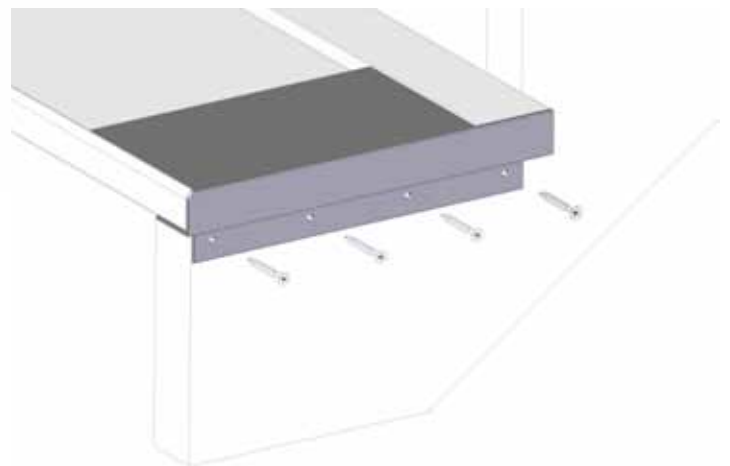
## CHAPTER 06: WOODEN STAIR STRINGERS



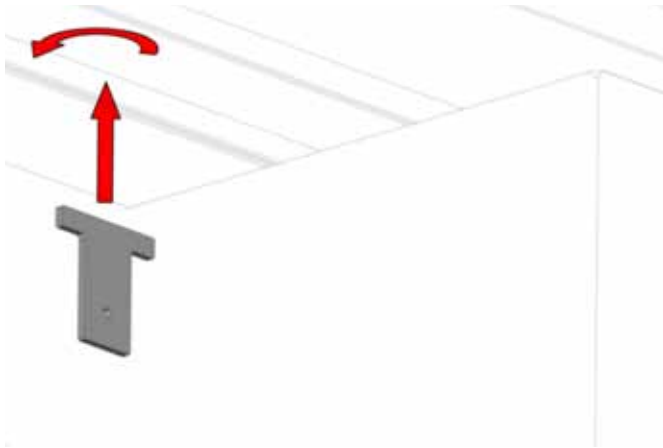
PLACE TREAD EXTRUSION ONTO THE STRINGER.



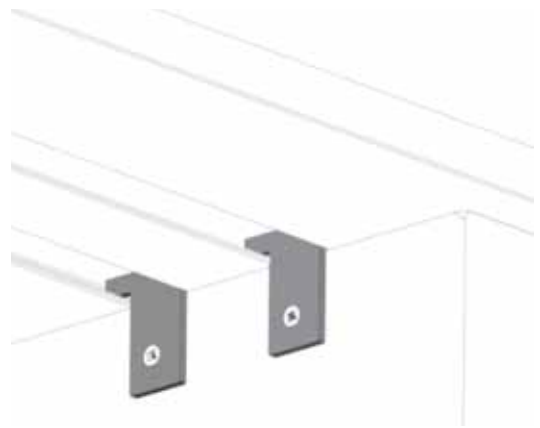
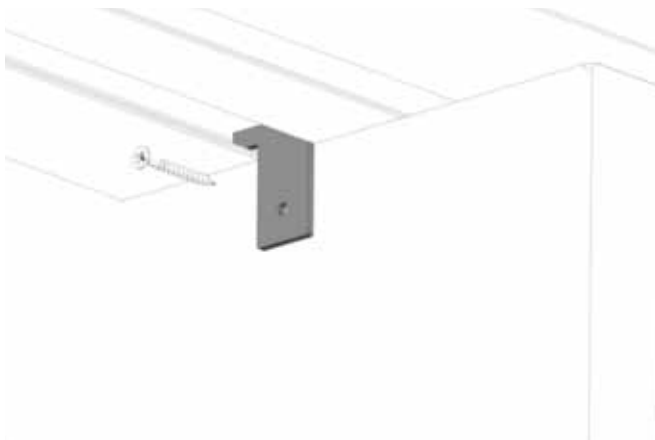
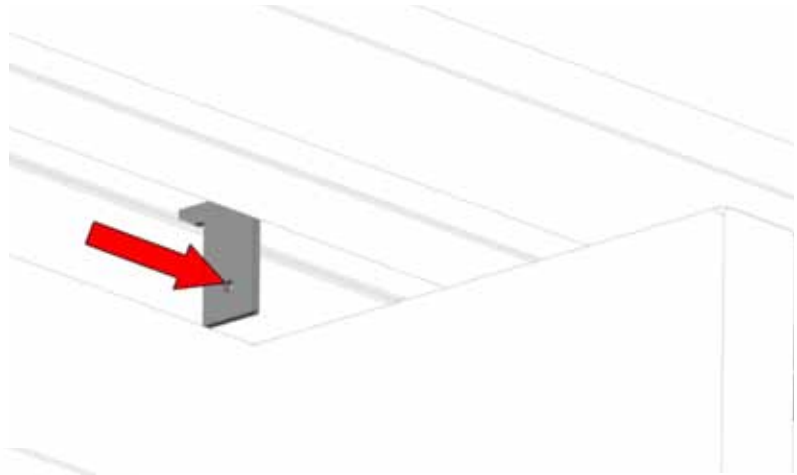
SLIDE NEWEL POST STRINGER ADAPTOR INTO POSITION AND SECURE USING ACQ TREATED SCREWS.



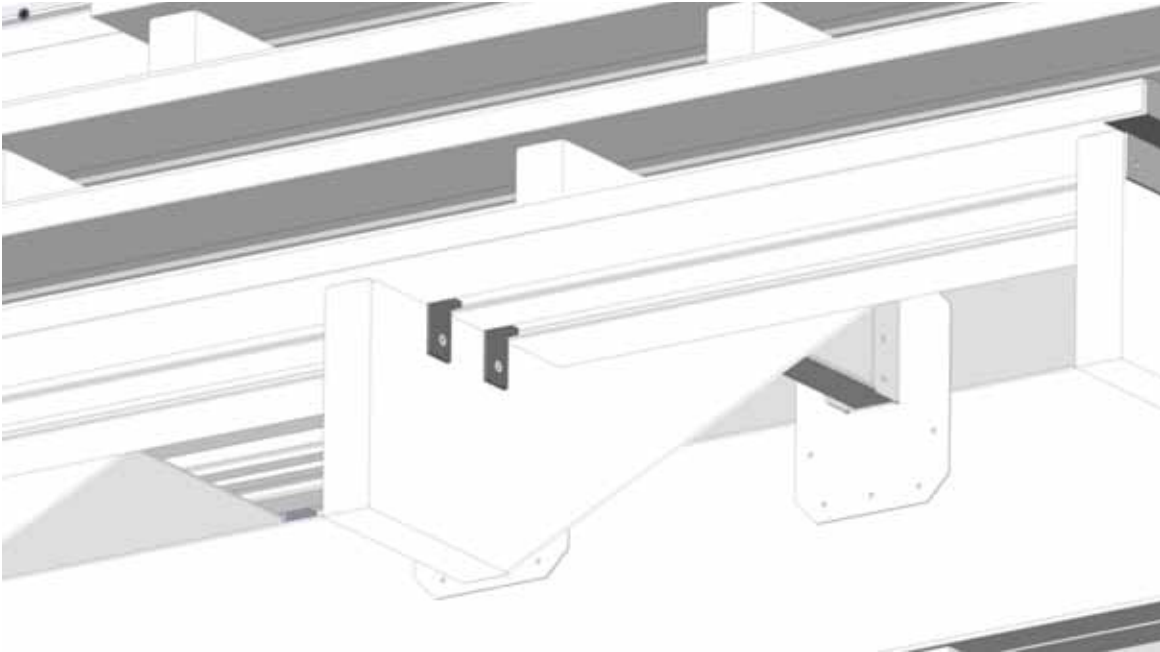
## CHAPTER 06: WOODEN STAIR STRINGERS



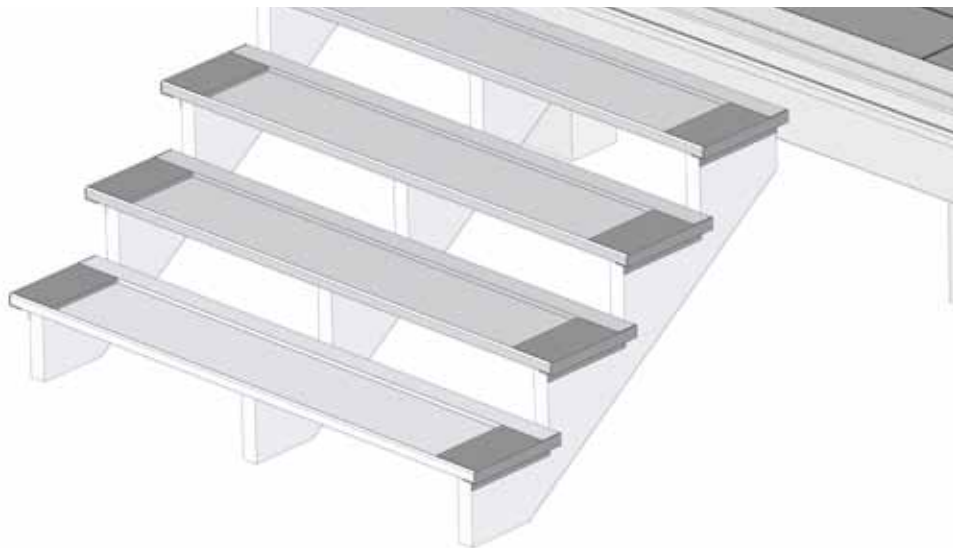
INSTALL AND ATTACH "T" BRACKETS AS ILLUSTRATED TO INSIDE OF STRINGER



## CHAPTER 06: WOODEN STAIR STRINGERS

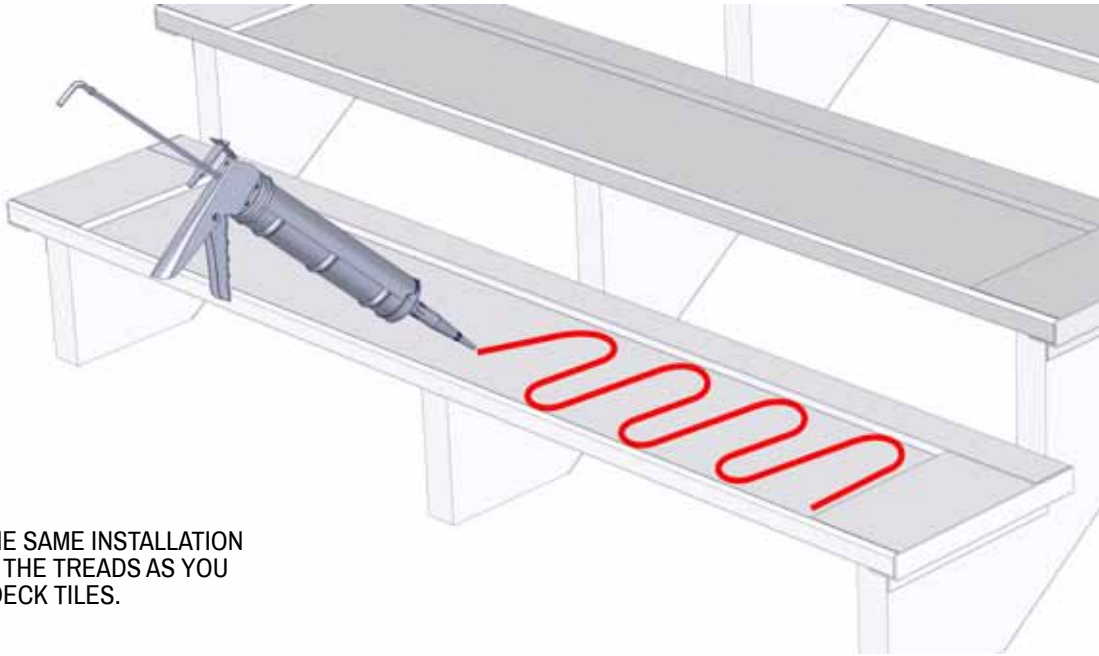


INSTALL AND ATTACH "T" BRACKETS ON INTERIOR STRINGER(S) FOR REMAINDER OF TREADS

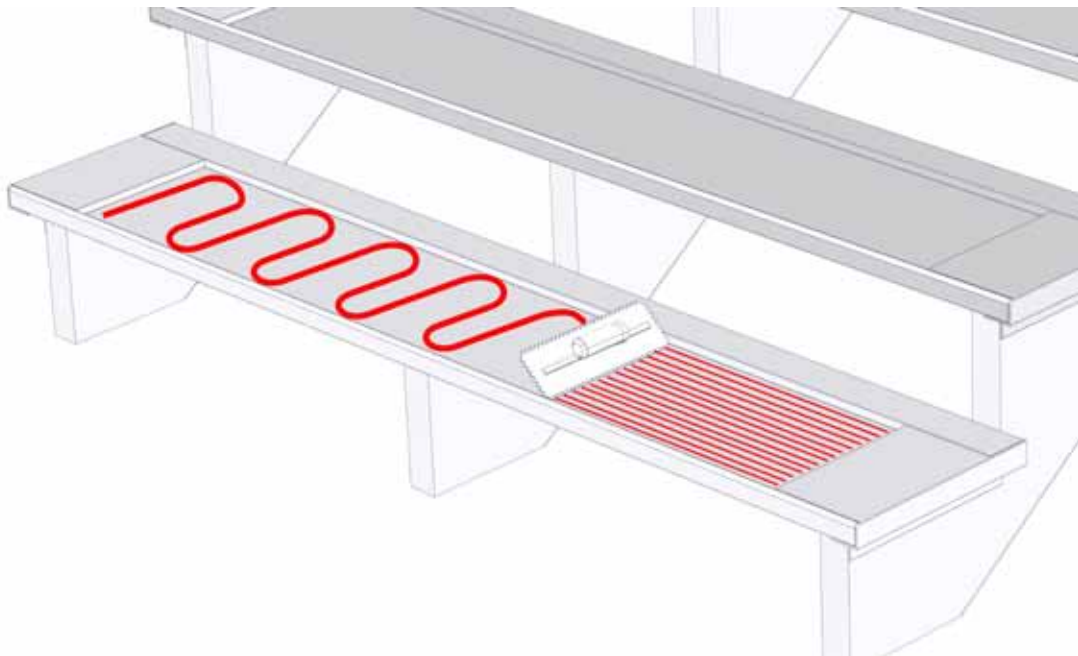




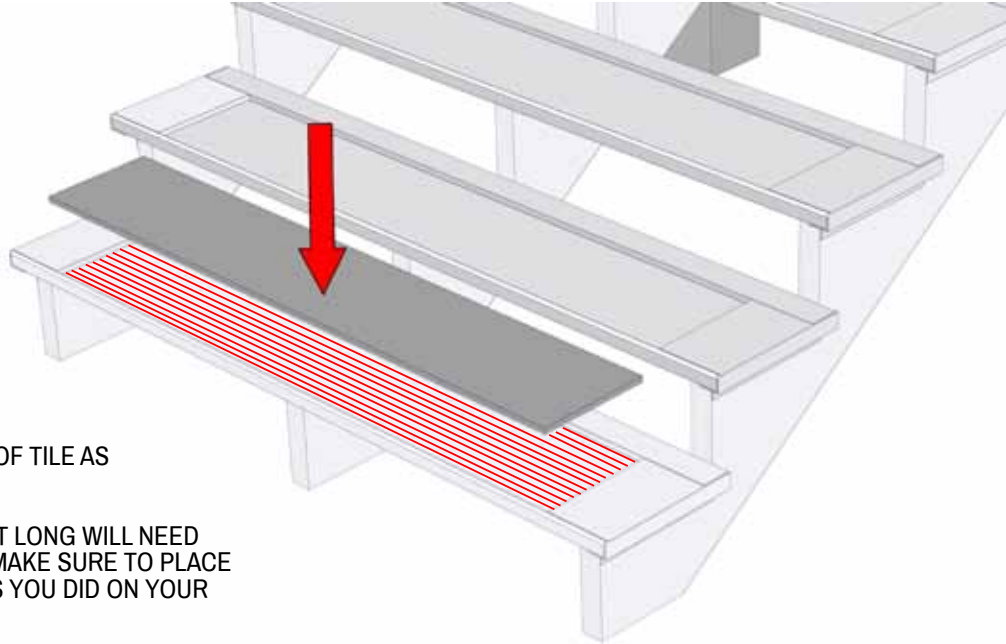
## CHAPTER 06: WOODEN STAIR STRINGERS



USE EXACTLY THE SAME INSTALLATION PROCEDURE ON THE TREADS AS YOU USED FOR THE DECK TILES.



## CHAPTER 06: WOODEN STAIR STRINGERS



LOWER A FULL LENGTH OF TILE AS ILLUSTRATED ABOVE.

TREADS OF OVER 5 FEET LONG WILL NEED MORE THAN ONE TILE. MAKE SURE TO PLACE THE TILE SEPERATOR AS YOU DID ON YOUR DECK SURFACE.

