



SIGMADEK™ DECK TILE WITHOUT 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.

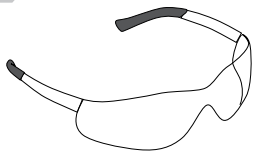
WARNINGS

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

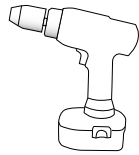
WARNINGS

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.

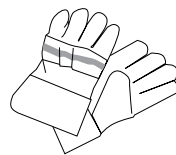
REQUIRED TOOLS



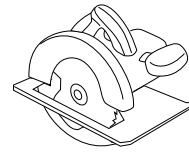
SAFETY GLASSES



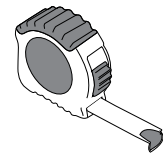
DRILL



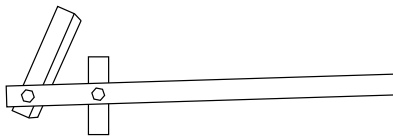
GLOVES



SAW



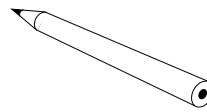
MEASURING TAPE



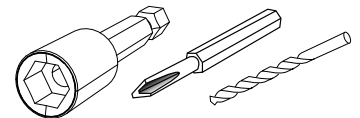
BOWRENCH



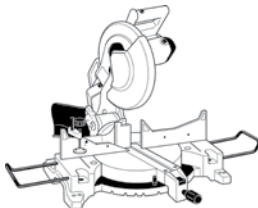
RIVET GUN



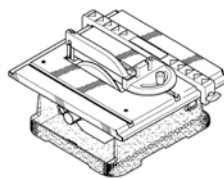
PENCIL



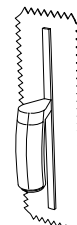
APPROPRIATE DRIVER AND DRILL BITS



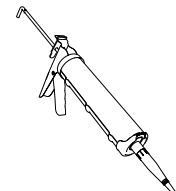
CHOP SAW



TILE SAW



3/16" V-NOTCH TROWEL



CAULKING GUN

ADDITIONAL PART REQUIREMENT



BLUE SKIN OR SIMILAR FLASH BARRIER



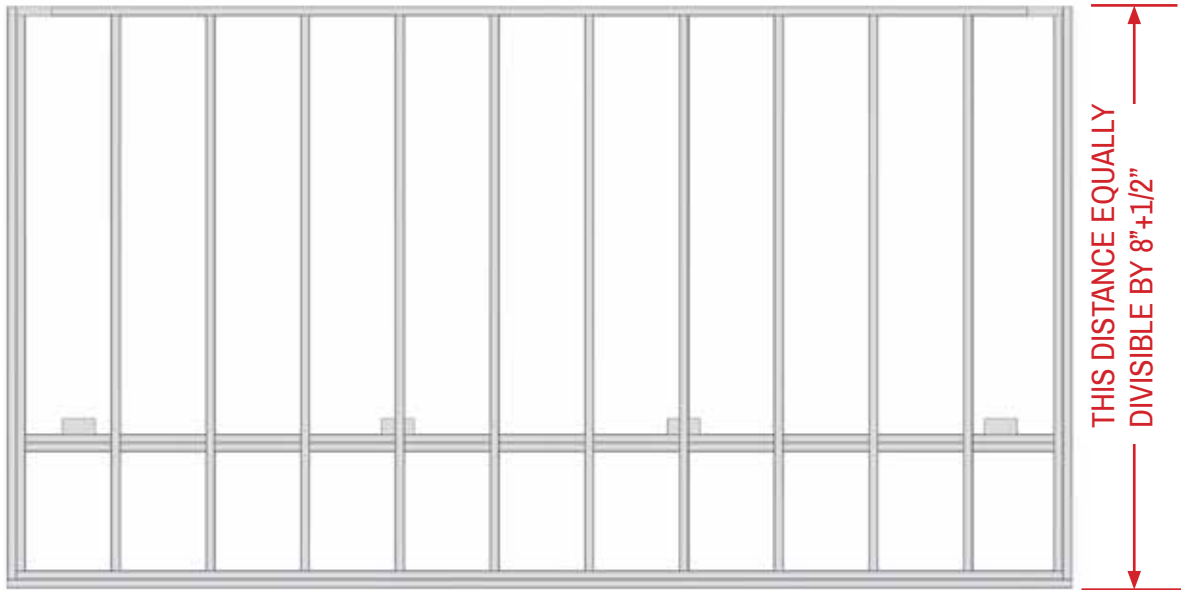
ALUMINUM TAPE



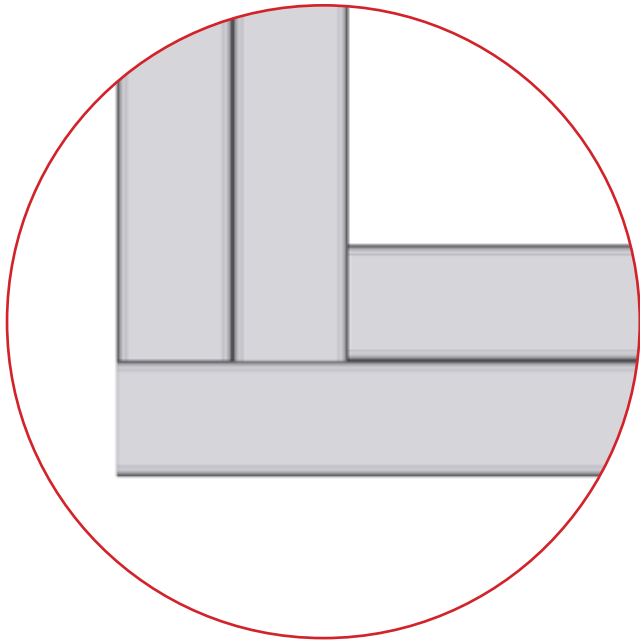
1" AND 2" ACQ RESISTANT WOOD SCREWS

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. ****

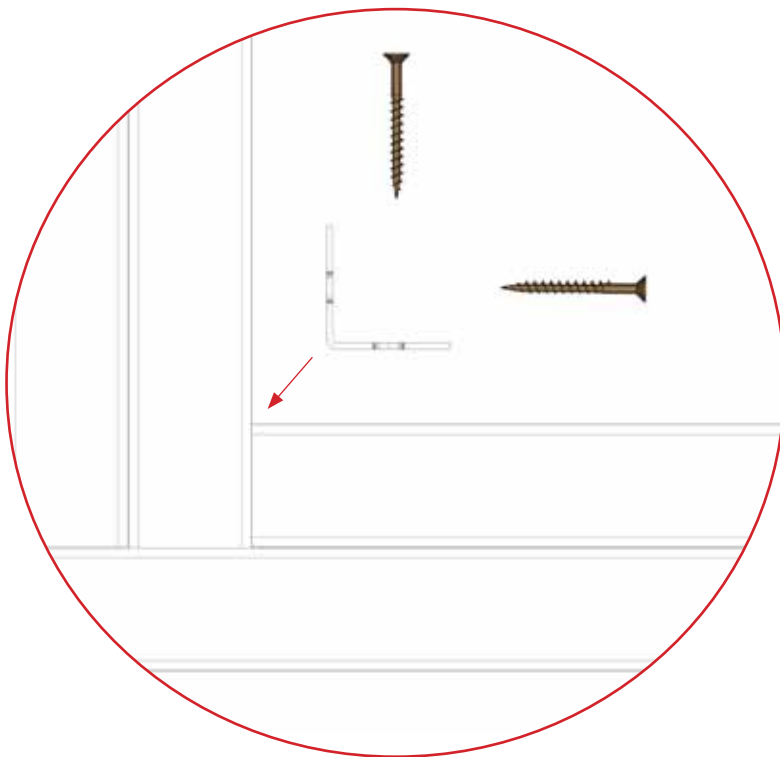


TRAY EXTRUSIONS ARE 8" WIDE. IN ORDER TO MINIMIZE UNNECESSARY CUTTING, IT IS RECOMMENDED THAT THE DISTANCE FROM THE HOUSE TO THE FRONT EDGE OF THE FASCIA BE A NUMBER EQUALLY DIVISIBLE BY 8 + 1/2" AS ILLUSTRATED ABOVE.



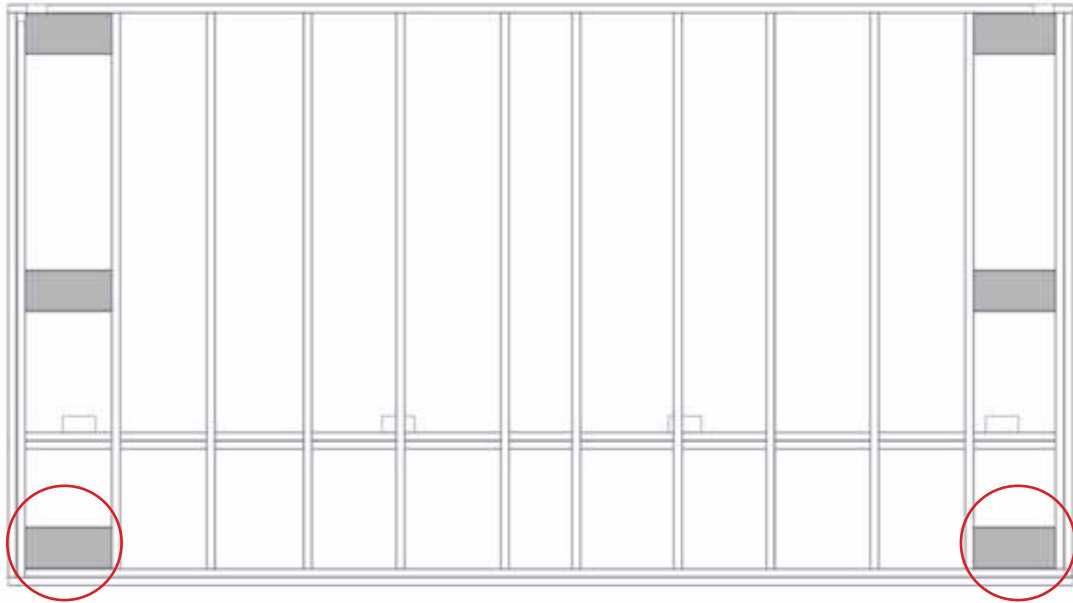
WHAT EVER DIMENSIONAL LUMBER IS USED FOR FRAMING, IT NEEDS TO BE DOUBLED UP ON BOTH EXTERIOR JOISTS AND FASCIA AS ILLUSTRATED.

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

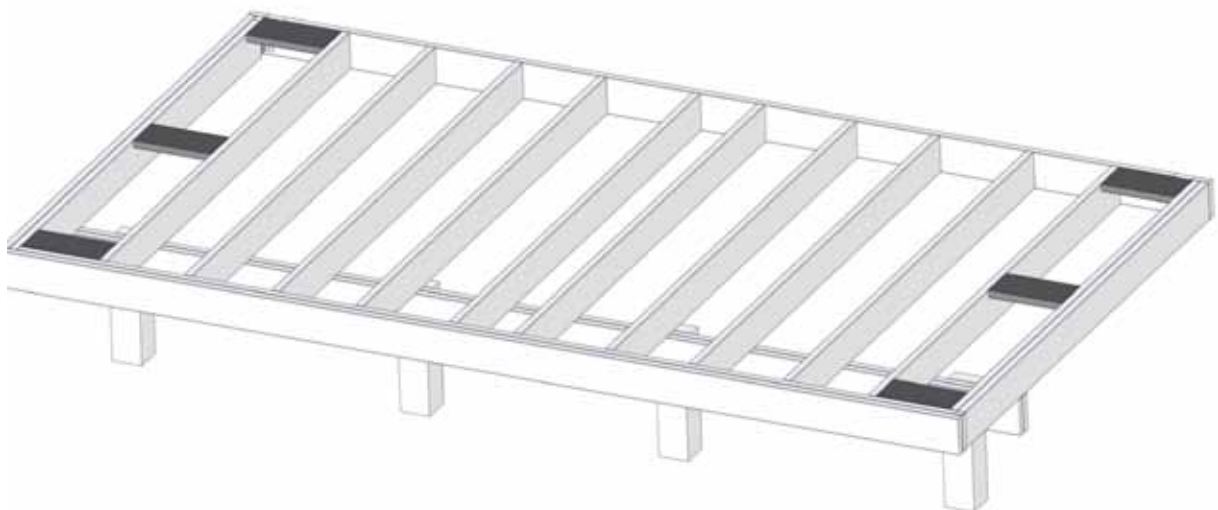


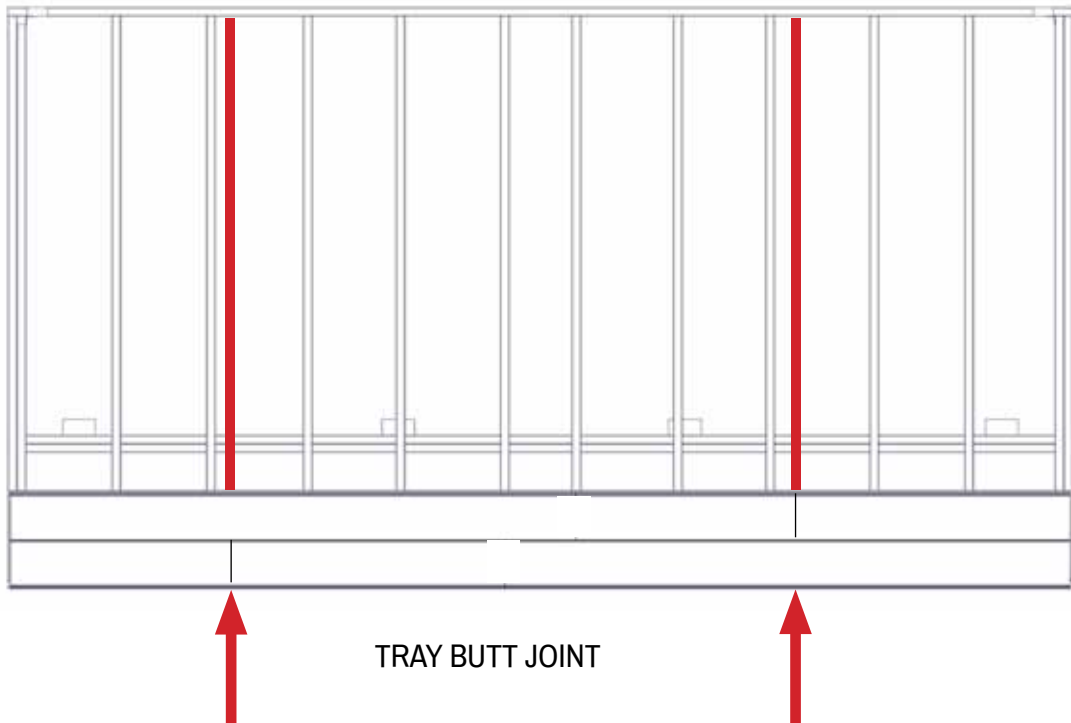
STEEL CORNER REINFORCEMENT

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.

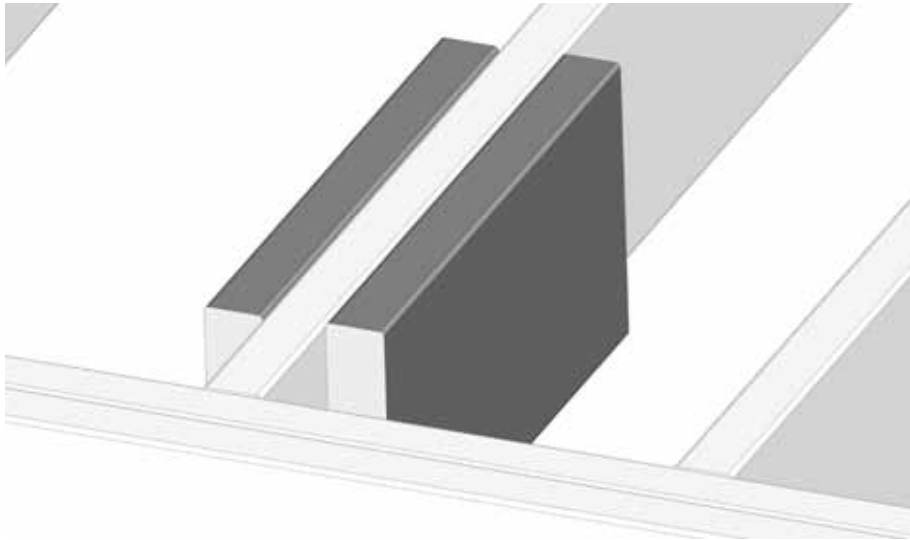


WHEN NEWEL POSTS ARE REQUIRED, YOU MUST ADD SOME BACKING MATERIAL TO ALLOW FOR SCREWING.



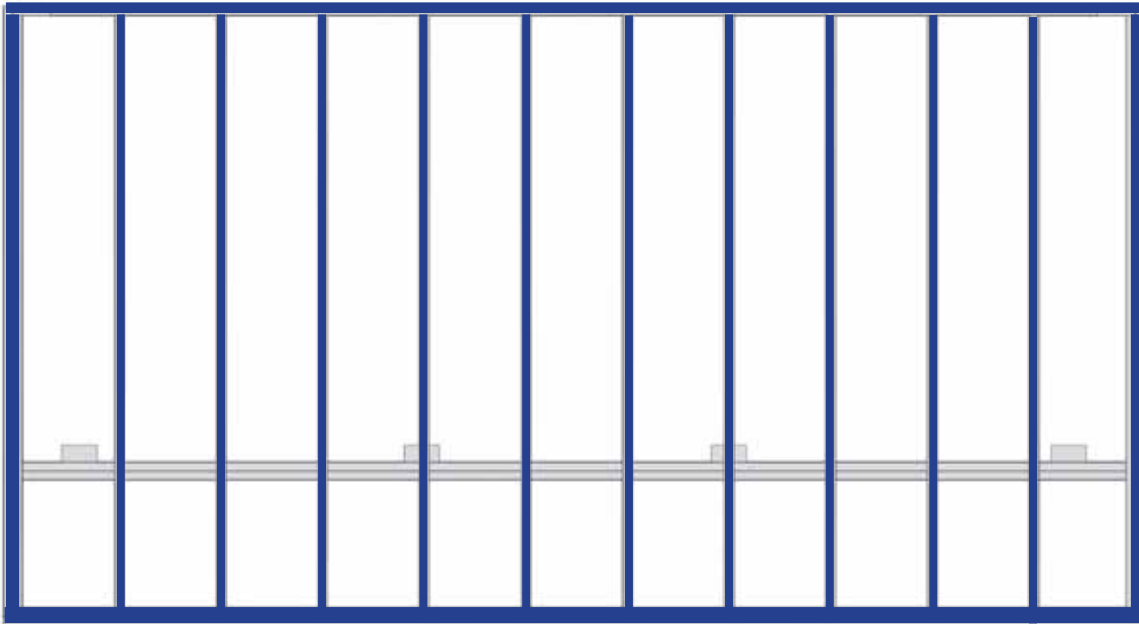


TRAYS COME IN ONE LENGTH THAT IN ALL LIKELIHOOD WON'T CORRESPOND TO EXISTING FRAMING. THEREFORE, YOU WILL NEED TO ADD AN ADDITIONAL JOIST OR JOISTS (AS ILLUSTRATED ABOVE) TO SUPPORT THE BUTT JOINT OF THE TRAYS. IT IS IMPERATIVE THAT YOU STAGGER THE BUTT JOINTS.

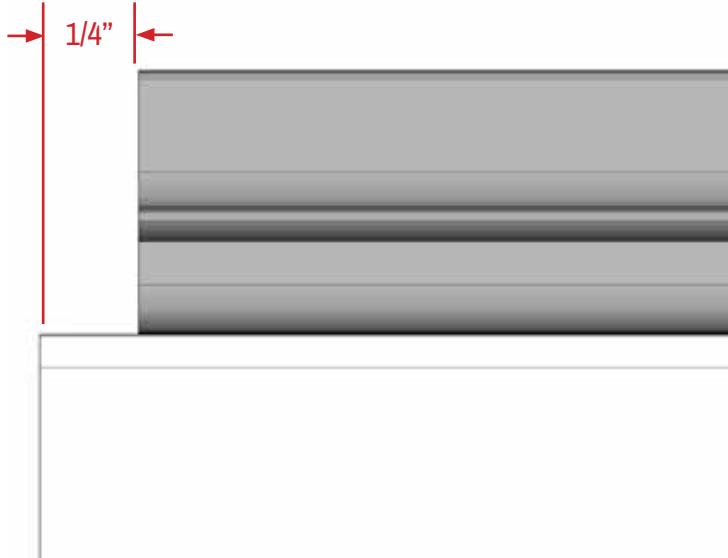


FOR A BETTER SUPPORT OF THE BUTT JOINT, IT IS RECOMMENDED TO ADD ADDITIONNAL BLOCKING ON EITHER SIDE OF THE JOIST WHERE THE TRAYS MEET.

TRAYS



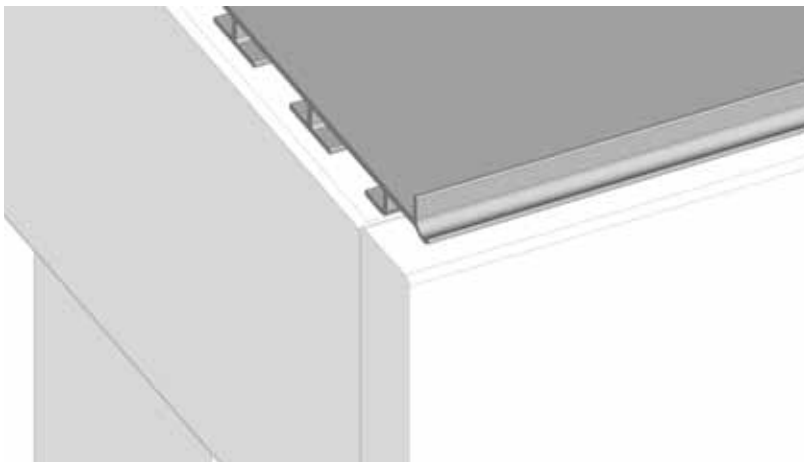
PLACE BLUE SKIN OR SOME TYPE OF FLASH BARRIER OVER TOP OF EVERY JOIST INCLUDING FASCIA BEFORE INSTALLING TRAYS.

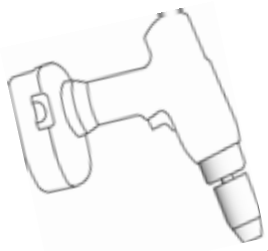


WHEN INSTALLING THE TRAY, LEAVE 1/4 INCH BETWEEN THE SIDE OF DECK AND THE EDGE OF TRAY.

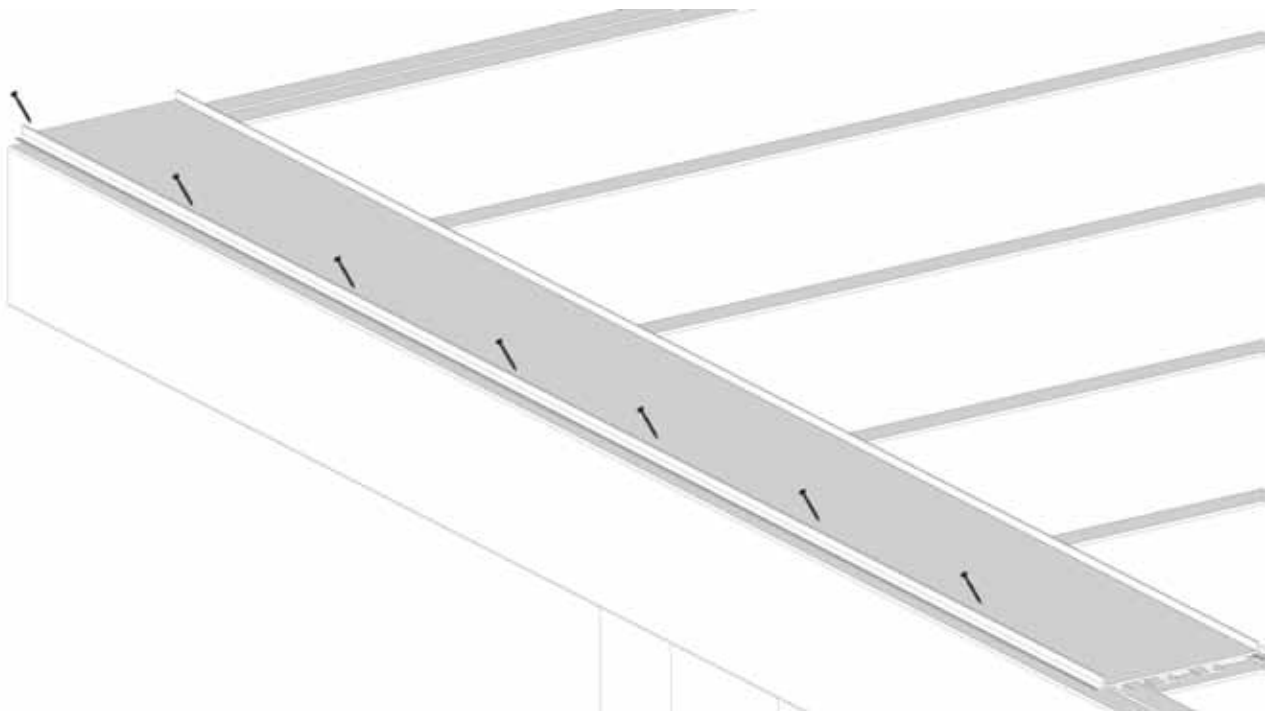


THE FRONT OF TRAY MUST BE FLUSH WITH THE FRONT OF THE DECK.





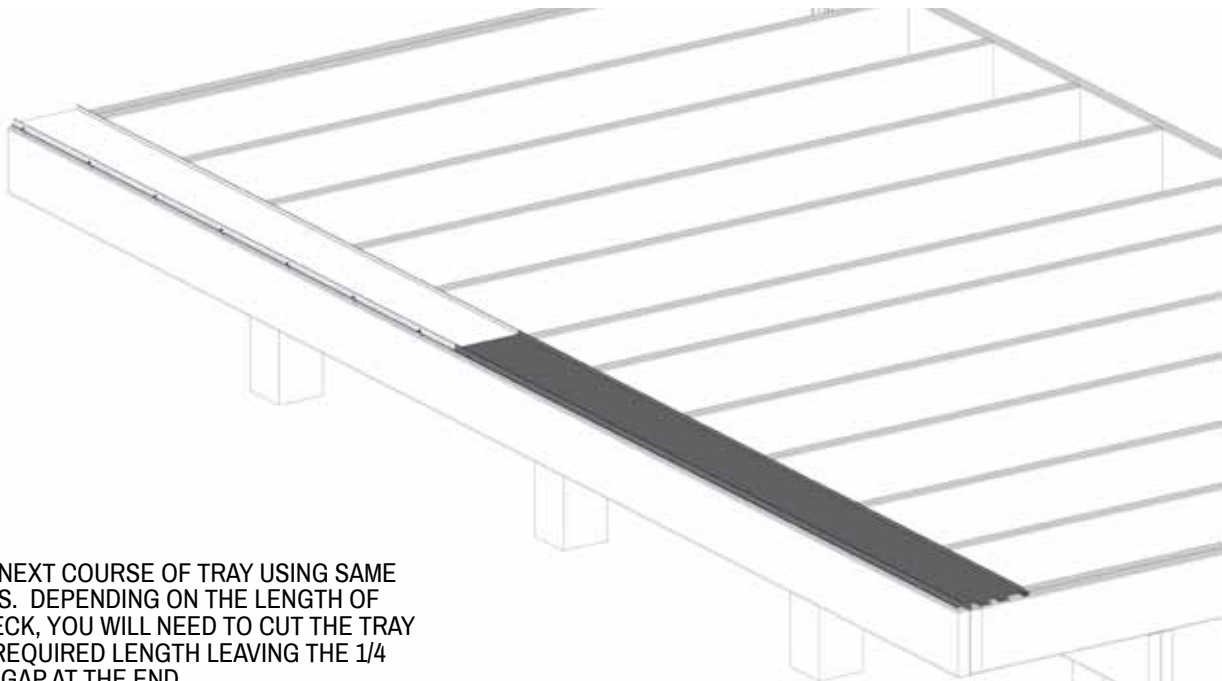
DRILL AND SCREW THE TRAY TO THE FRONT FASCIA USING ACQ TREATED SCREWS. PLACE SCREW AT EVERY FOOT.



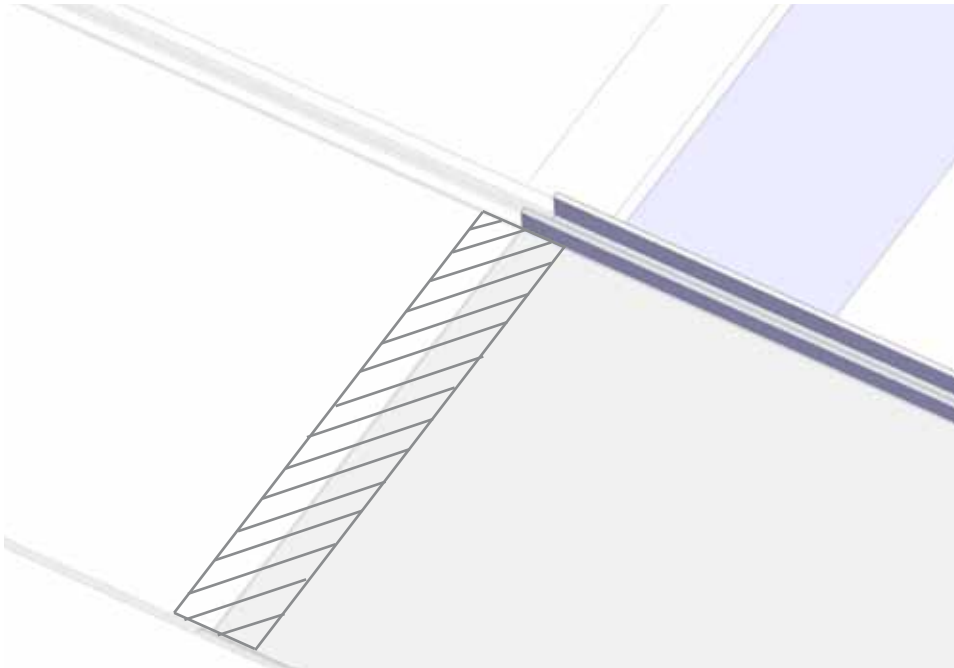
CHAPTER 02: DECK TILES

DRILL AND SCREW THE BACKSIDE OF TRAY TO EACH JOIST USING ACQ TREATED SCREWS.

TO INSURE YOUR DECK IS WATERPROOF, COVER HEAD OF THE SCREW WITH SOME SILICONE.



INSTALL NEXT COURSE OF TRAY USING SAME PROCESS. DEPENDING ON THE LENGTH OF YOUR DECK, YOU WILL NEED TO CUT THE TRAY TO THE REQUIRED LENGTH LEAVING THE 1/4 INCH OF GAP AT THE END.

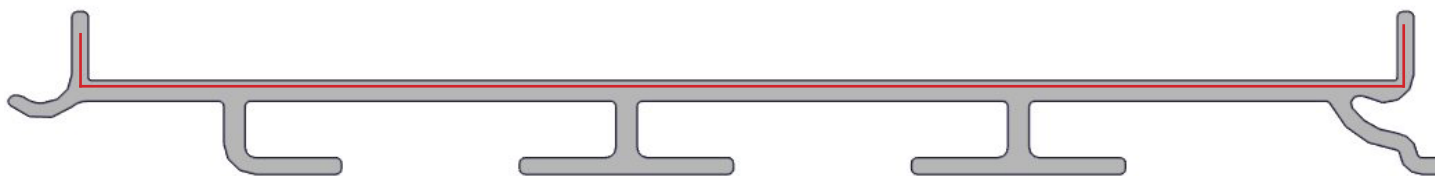
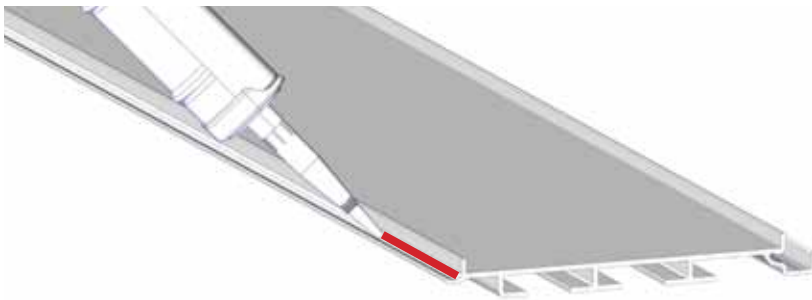


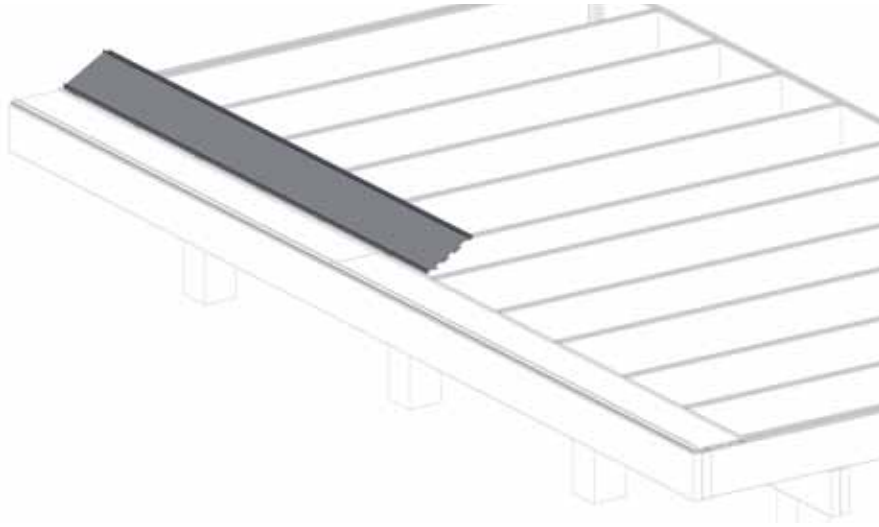
THIS IS AN EXAMPLE OF A BUTT JOINT THAT WILL EXIST BETWEEN EVERY LENGTH OF TRAY THROUGHOUT THE ENTIRE DECK SURFACE.

ENSURE EVERY BUTT JOINT LANDS ON A JOIST.

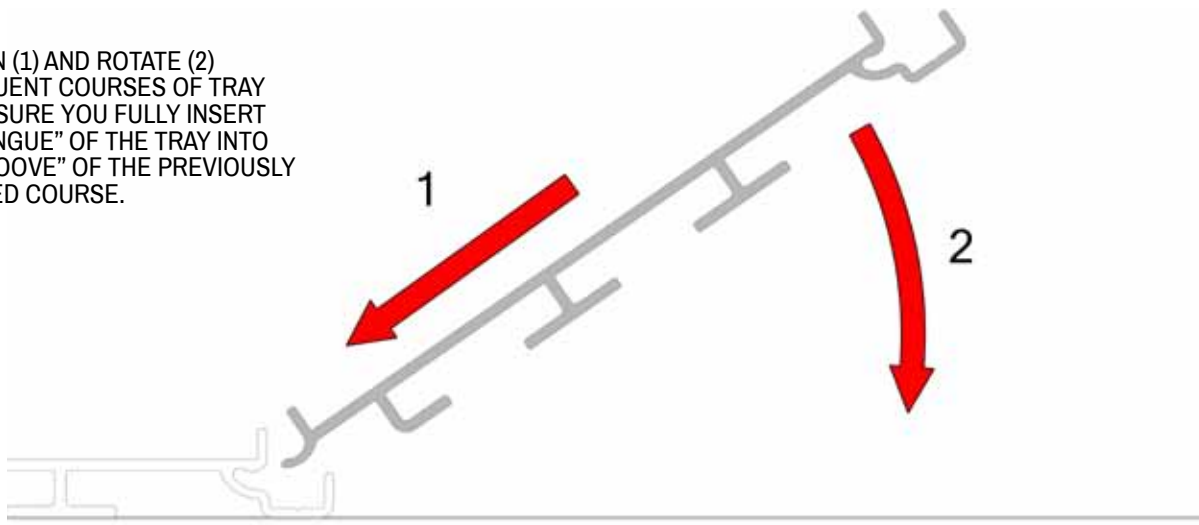
TO INSURE YOUR DECK IS WATERPROOF, PLACE A PIECE OF ALUMINUM TAPE OVER THE BUT JOINT.

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

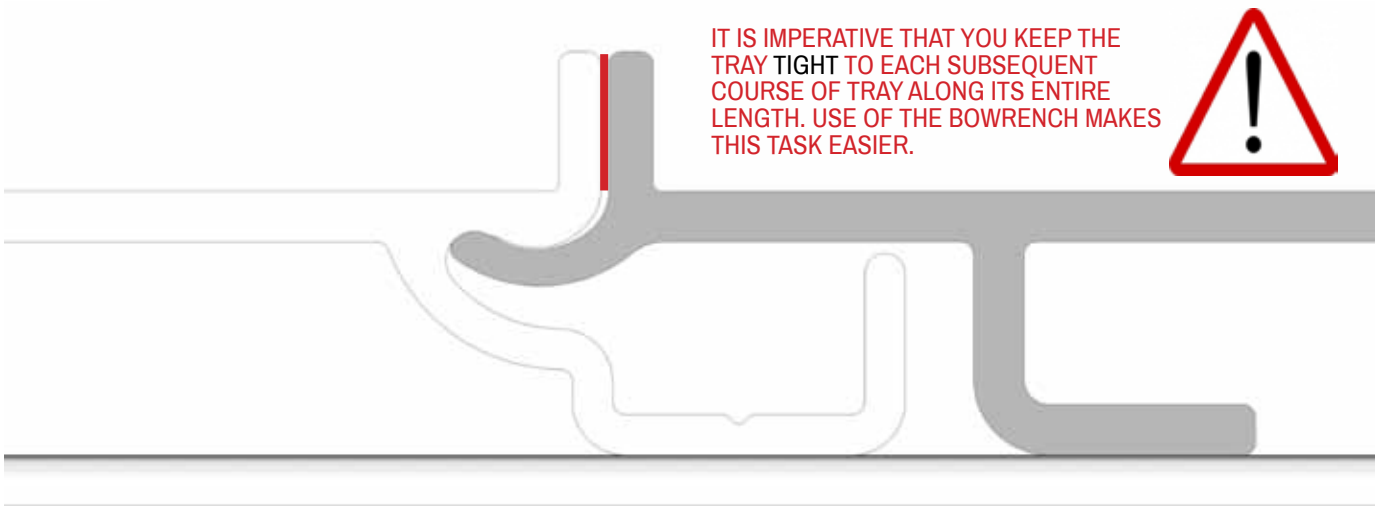




POSITION (1) AND ROTATE (2)
SUBSEQUENT COURSES OF TRAY
MAKING SURE YOU FULLY INSERT
THE "TONGUE" OF THE TRAY INTO
THE "GROOVE" OF THE PREVIOUSLY
INSTALLED COURSE.

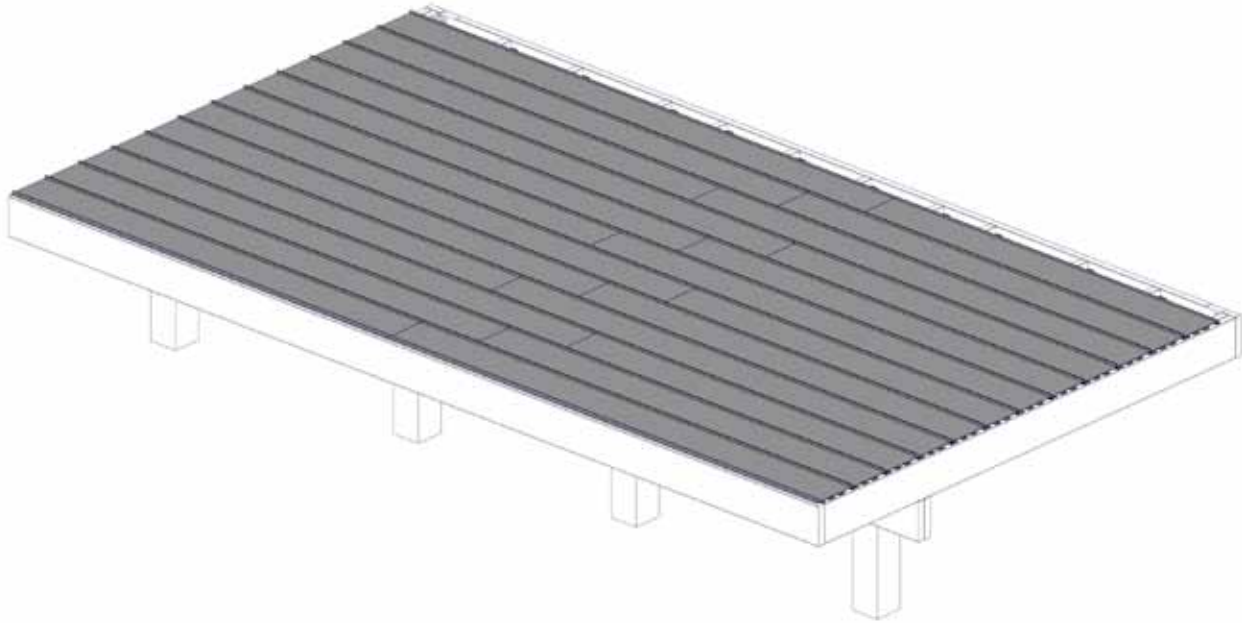


IT IS IMPERATIVE THAT YOU KEEP THE
TRAY TIGHT TO EACH SUBSEQUENT
COURSE OF TRAY ALONG ITS ENTIRE
LENGTH. USE OF THE BOWWRENCH MAKES
THIS TASK EASIER.



CHAPTER 02: DECK TILES

ASSEMBLE ALL TRAYS UP TO THE LAST TRAY.

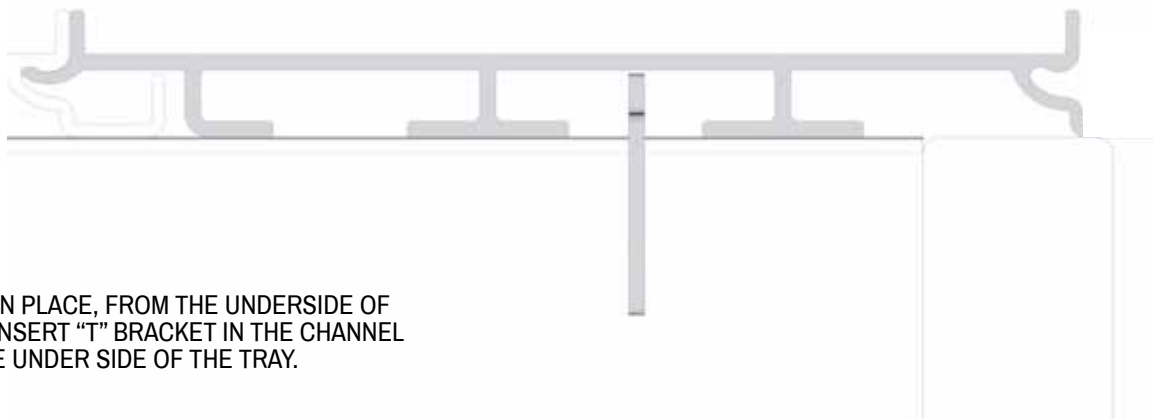
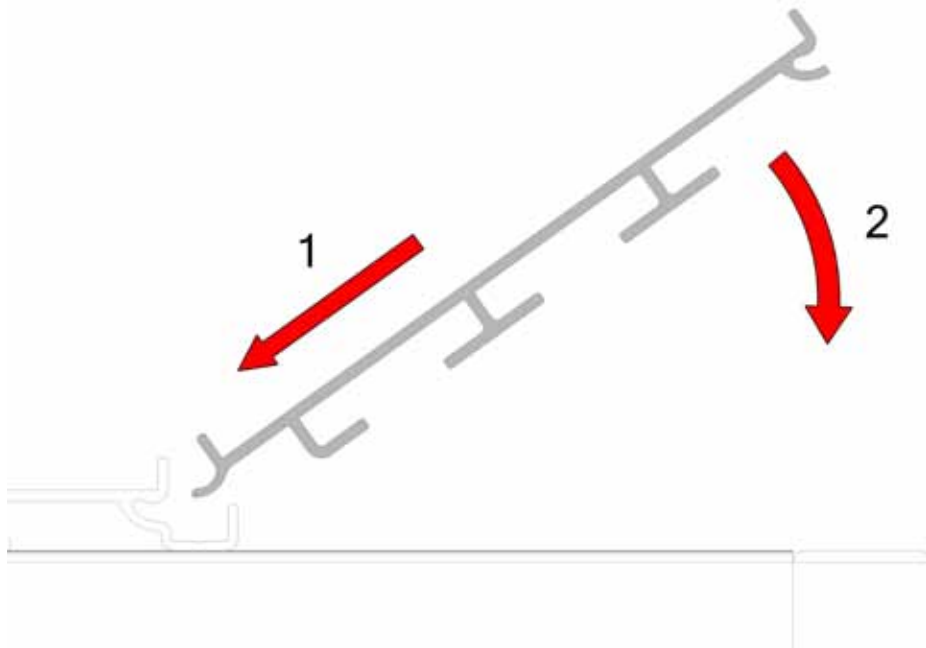


PRIOR TO INSTALLING THE FINAL COURSE AGAINST THE HOUSE, YOU WILL NEED TO CUT OFF THE SCREW CHANNEL ALONG THE ENTIRE LENGTH USING A CIRCULAR SAW.

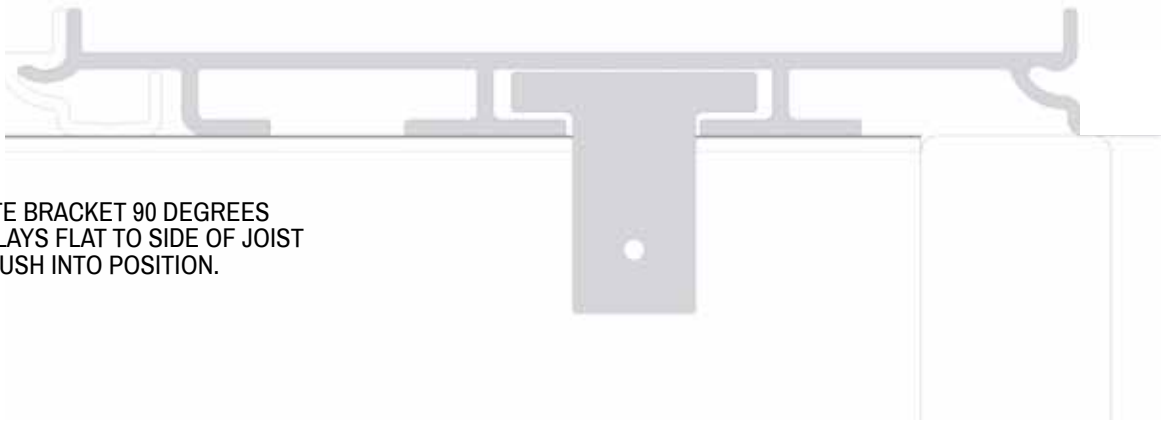


CHAPTER 02: DECK TILES

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.

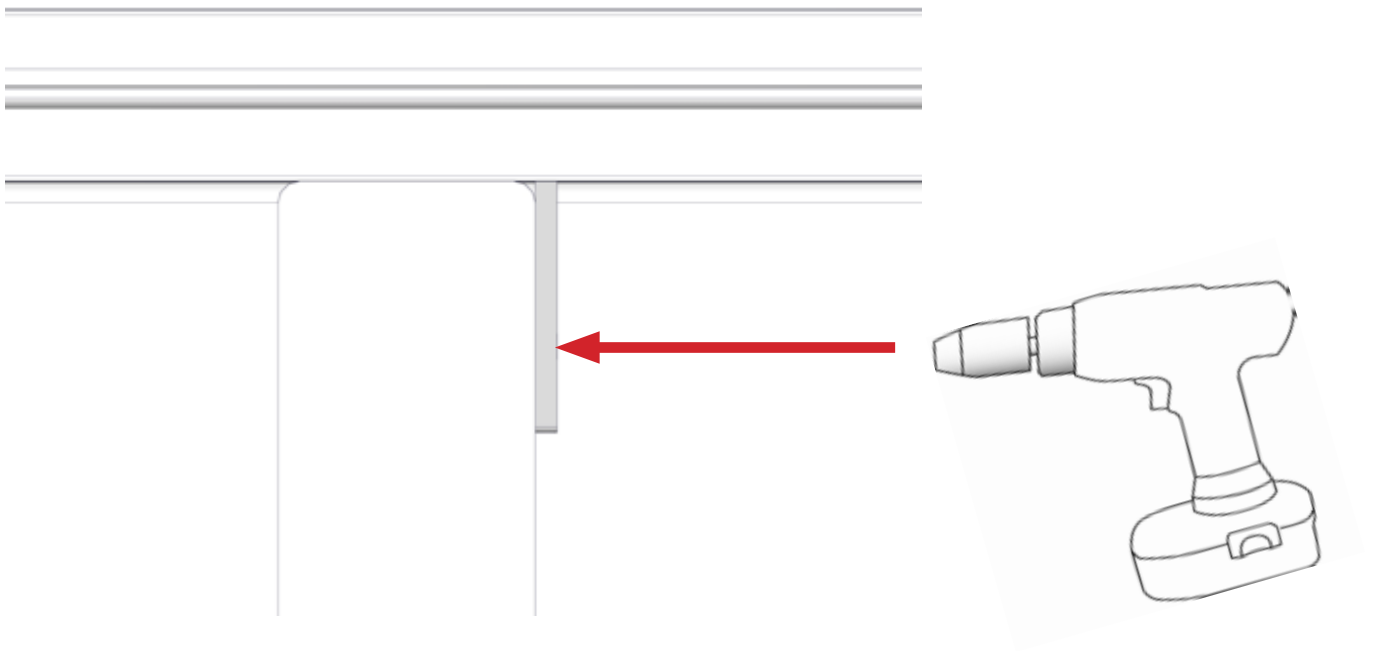


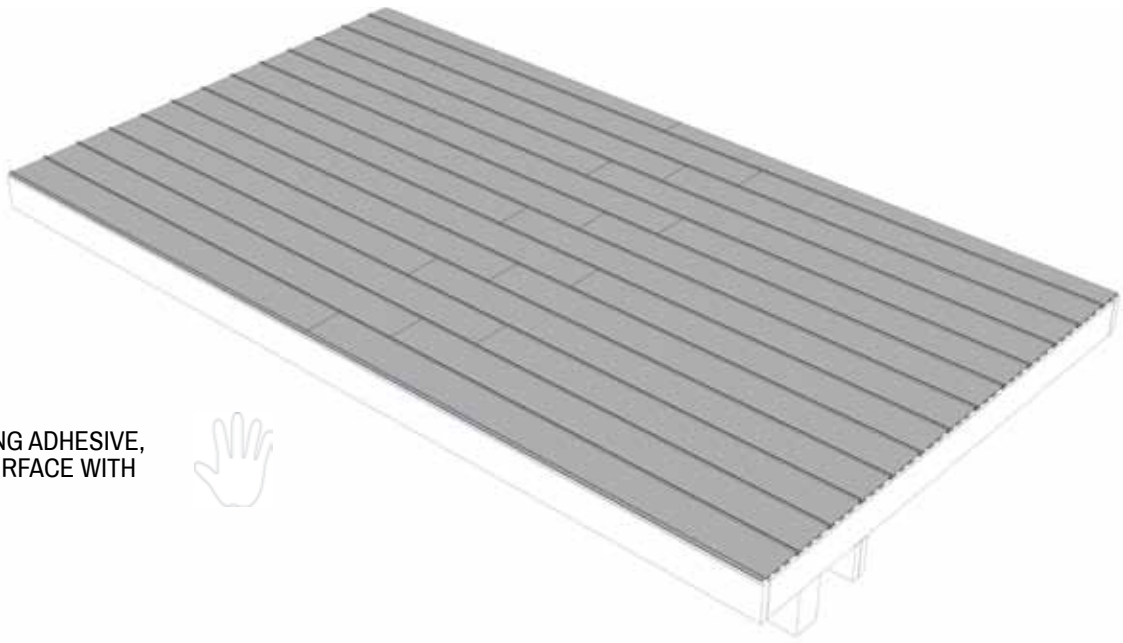
ONCE IN PLACE, FROM THE UNDERSIDE OF DECK INSERT "T" BRACKET IN THE CHANNEL ON THE UNDER SIDE OF THE TRAY.



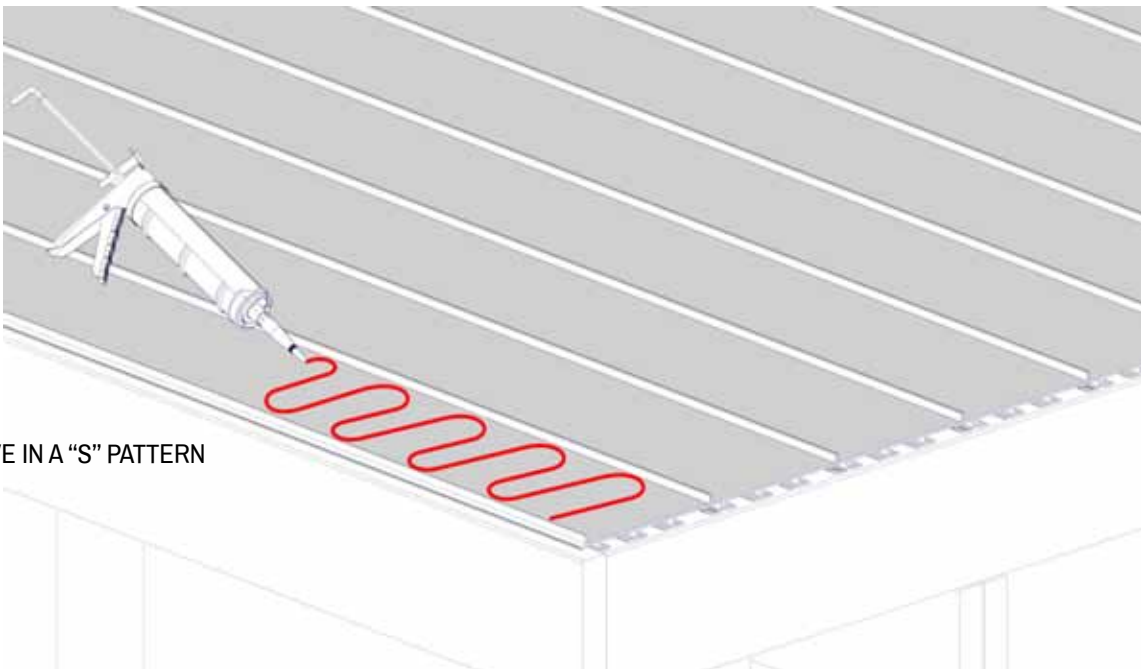
ROTATE BRACKET 90 DEGREES
SO IT LAYS FLAT TO SIDE OF JOIST
AND PUSH INTO POSITION.

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



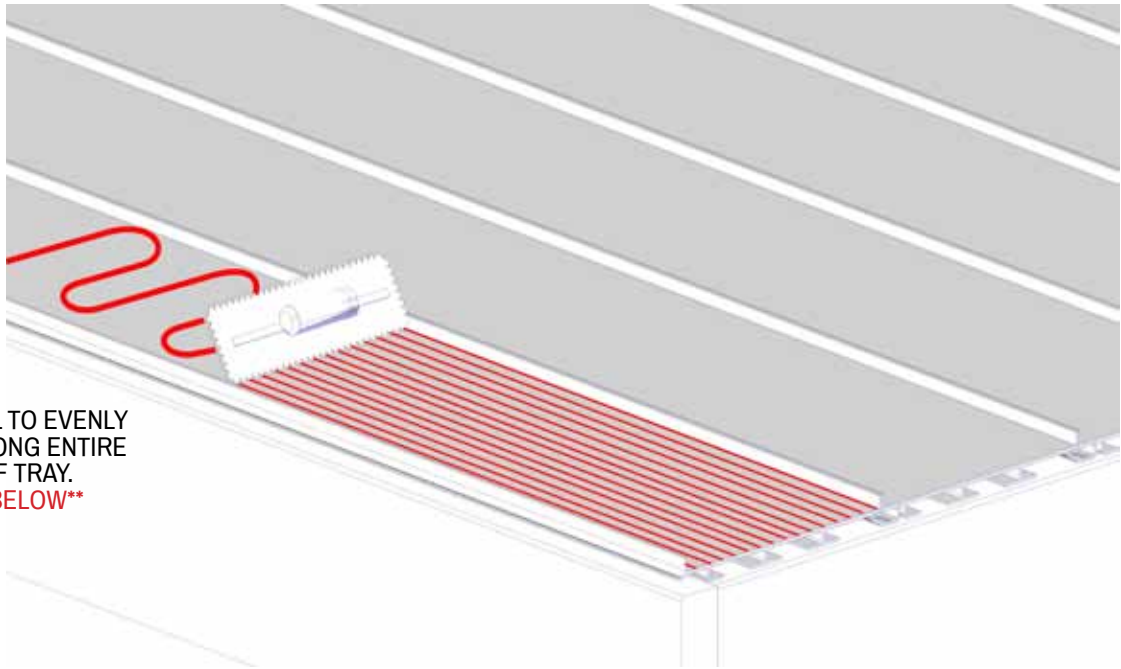


PRIOR TO APPLYING ADHESIVE,
CLEAN ENTIRE SURFACE WITH
ACETONE.

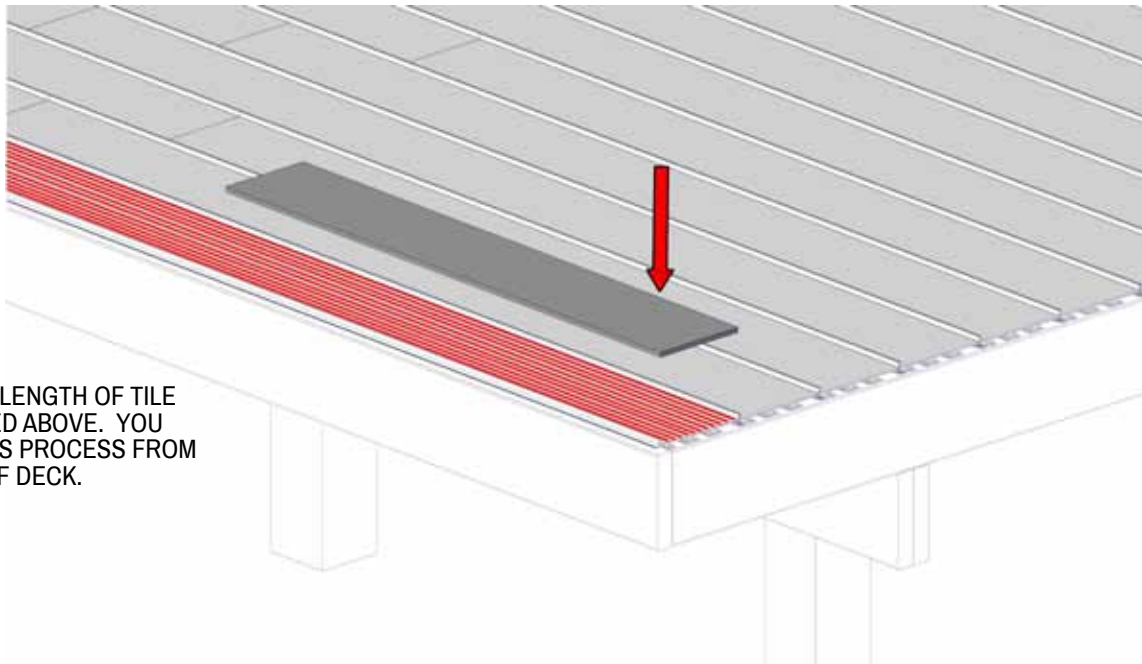


APPLY ADHESIVE IN A "S" PATTERN

CHAPTER 02: DECK TILES

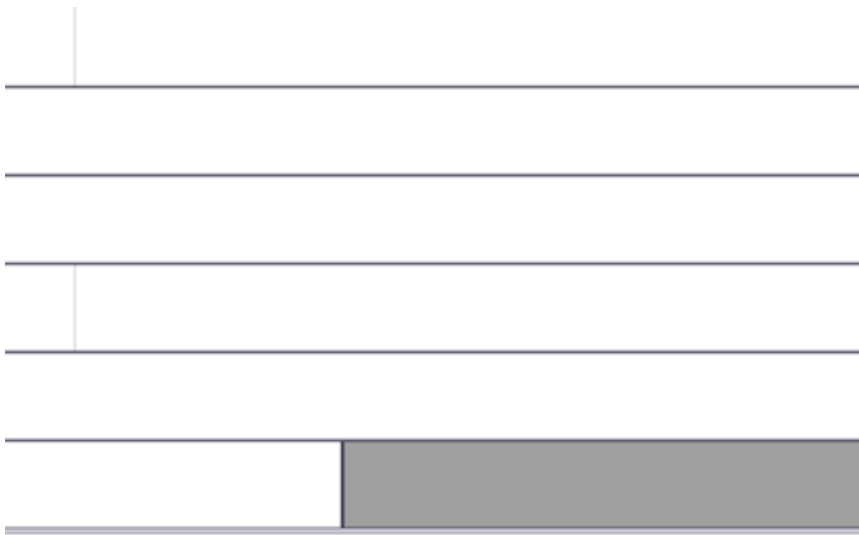


USE V NOTCH TROWEL TO EVENLY SPREAD ADHESIVE ALONG ENTIRE LENGTH AND WIDTH OF TRAY.
**** SEE ILLUSTRATION BELOW****

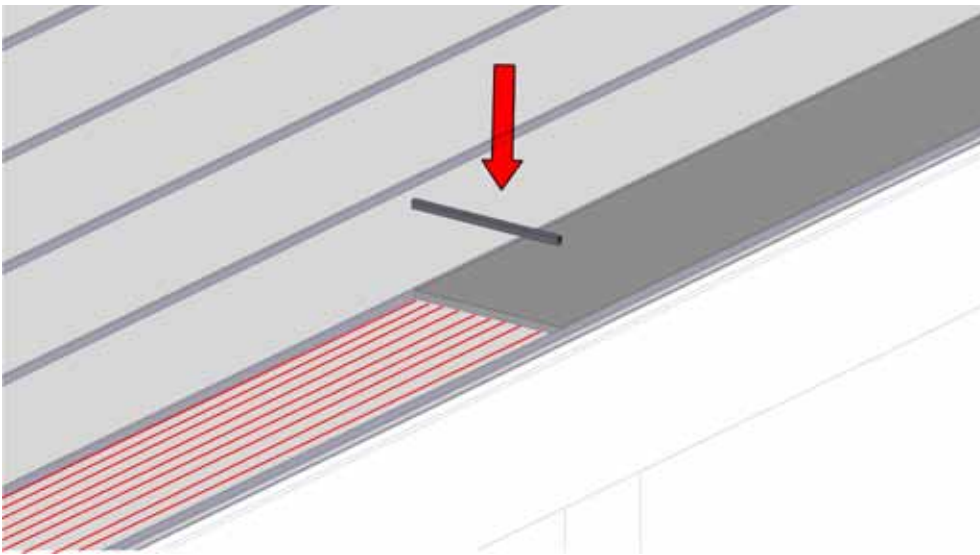


LOWER A FULL LENGTH OF TILE AS ILLUSTRATED ABOVE. YOU CAN START THIS PROCESS FROM EITHER SIDE OF DECK.

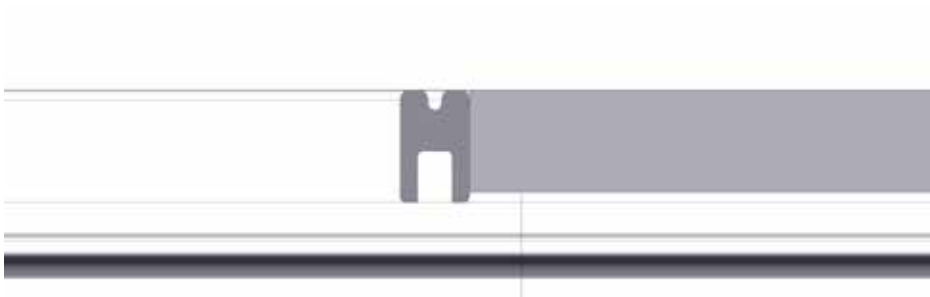
CHAPTER 02: DECK TILES



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 02: DECK TILES

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

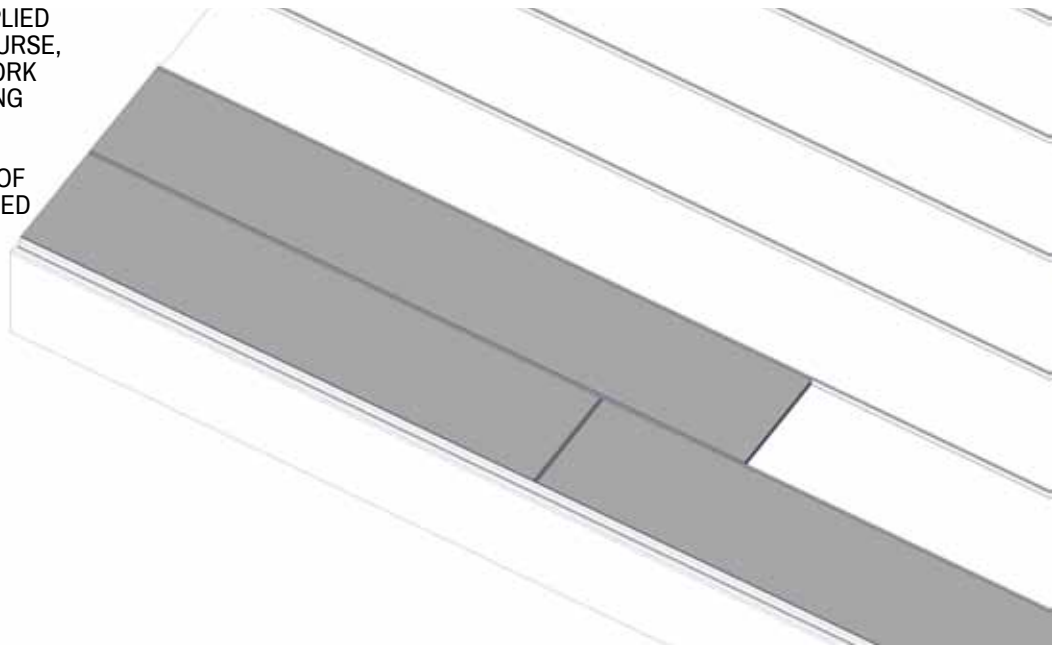
THE LAST TILE WILL NEED TO BE CUT AT DESIRED LENGTH TO END WHERE THE TRAY ENDS.

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

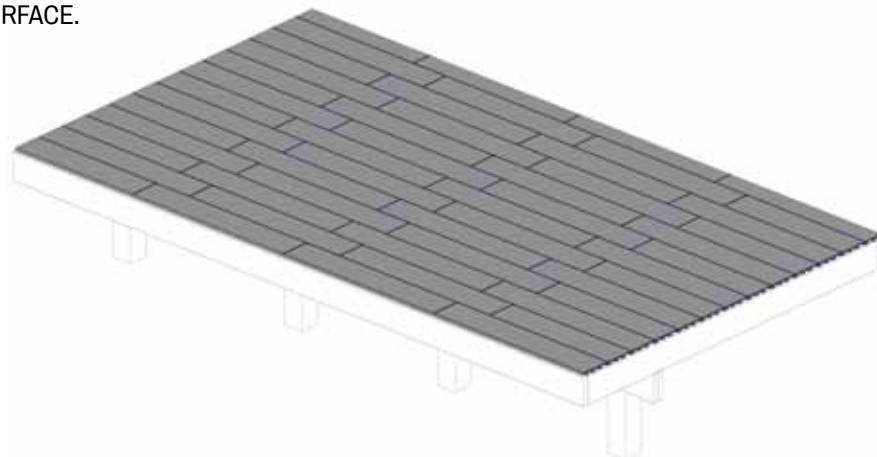


ONCE YOU HAVE CLEANED AND APPLIED THE ADHESIVE TO THE SECOND COURSE, LAY A FULL LENGTH OF TILE AND WORK YOUR WAY TO THE OTHER END USING THE SAME PROCEDURE AS ABOVE.

BY STARTING WITH A FULL LENGTH OF TILE, YOU WILL ENSURE A STAGGERED PATTERN.

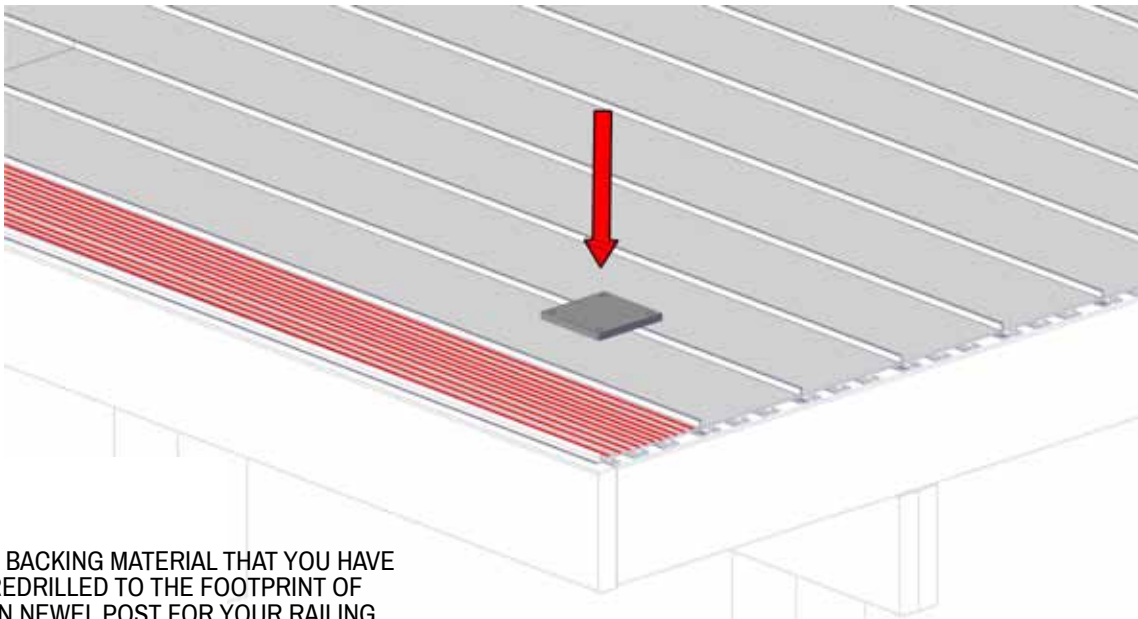
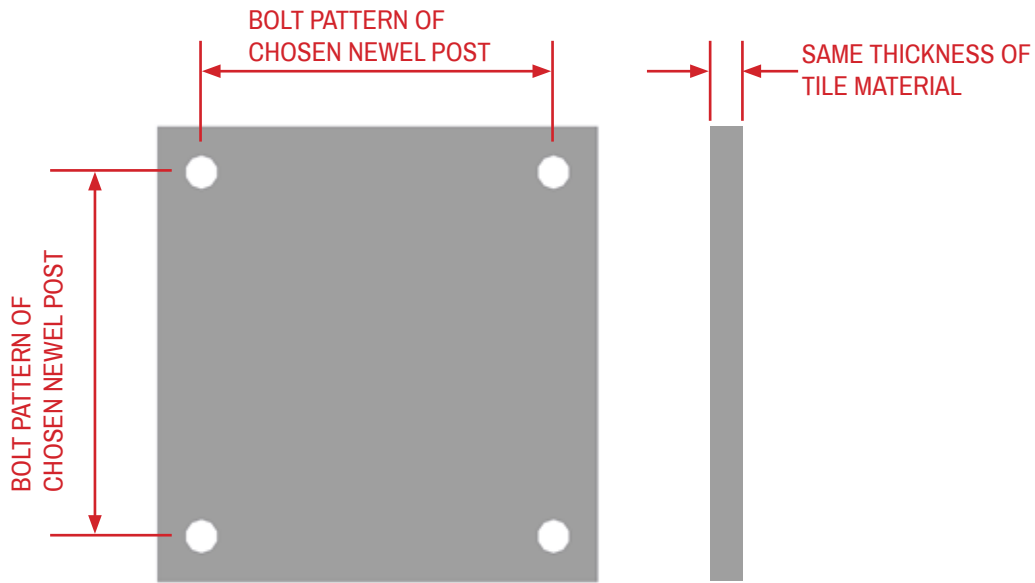


REPEAT PROCESS ON ENTIRE SURFACE.



CHAPTER 02: DECK TILES

**** IN THE EVENT THAT YOU NEED TO INSTALL RAILING, YOU WILL NEED TO DIFFER YOUR INSTALLATION TO ENSURE THAT YOU INSTALL BACKING MATERIAL FOR YOUR NEWEL POSTS . FOLLOW THE STEPS AS DESCRIBED BELOW.****

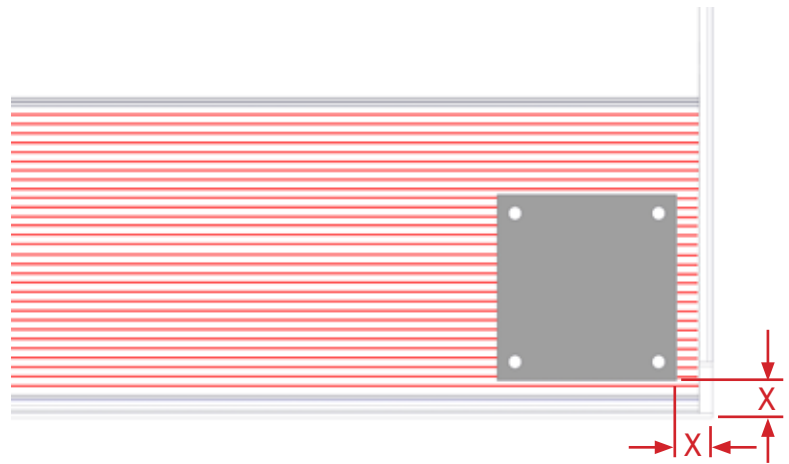
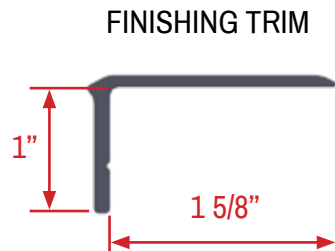


LOWER THE BACKING MATERIAL THAT YOU HAVE CUT AND PREDRILLED TO THE FOOTPRINT OF THE CHOSEN NEWEL POST FOR YOUR RAILING SYSTEM.

CHAPTER 02: DECK TILES

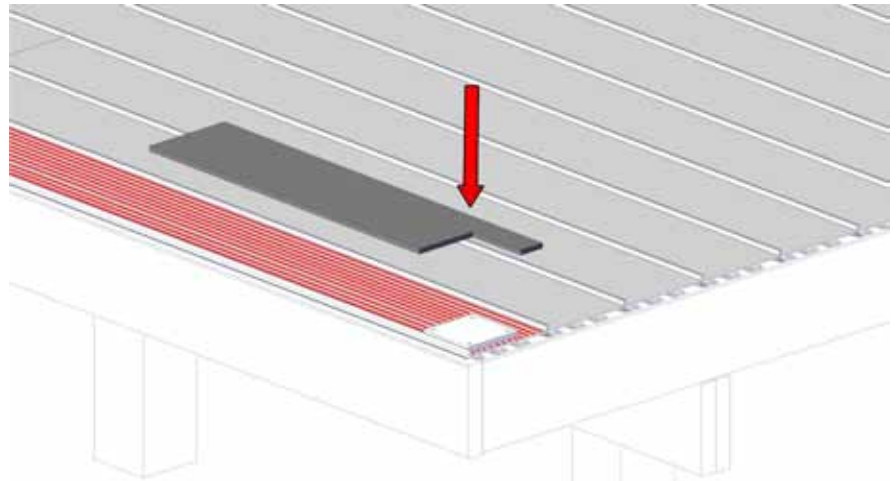
POSITION THE PART SO THERE IS ENOUGH SPACE ON THE 2 EXTERIOR EDGES FOR THE TRIM PARTS THAT WILL FINISH YOUR TOP SURFACE ASSEMBLY.

THE "X" DIMENSION WILL THEN VARY FROM 1 INCH TO 1 5/8 INCHES DEPENDING ON WHAT SIDE YOU WILL BE INSTALLING THE FINISHING TRIM.



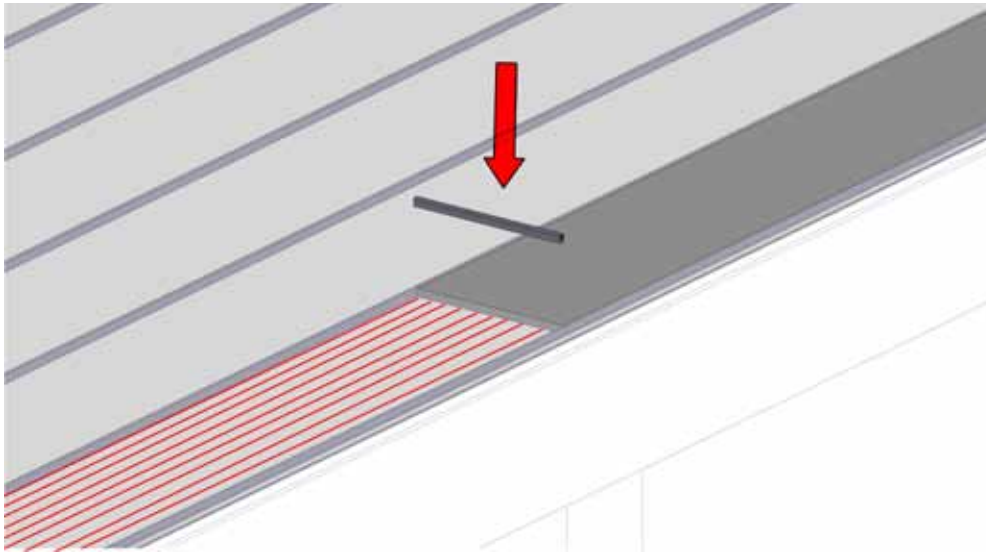
LOWER A FULL LENGTH OF TILE WITH THE CORRESPONDING CUT OUT OF THE NEWEL POST BACKING MATERIAL AS ILLUSTRATED.

YOU CAN START THIS PROCESS FROM EITHER SIDE OF DECK.

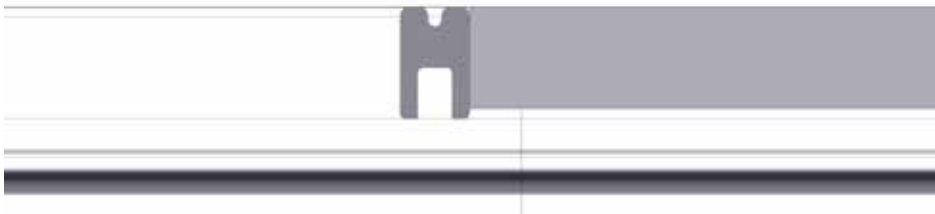


MAKE SURE THE END OF THE TILE IS FLUSH WITH THE END OF THE TRAY.





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.



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

PLACE NEWEL POST BACKING WHERE NEEDED BEFORE PLACING THE TILES.

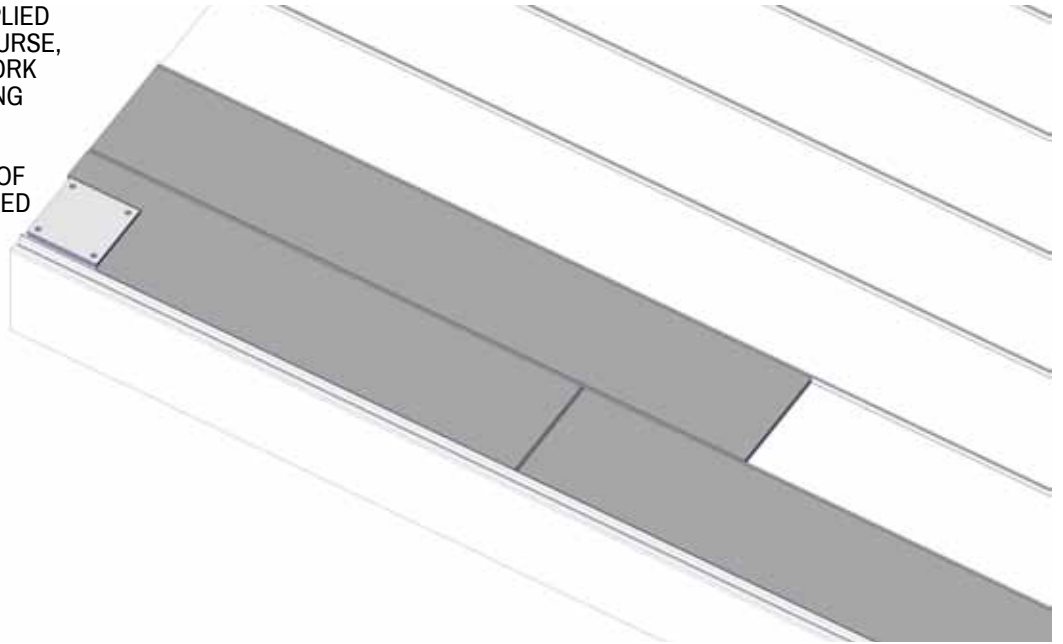
THE TILES WILL NEED TO BE CUT AT DESIRED LENGTHS AND NOTCHED TO MATCH THE NEWEL POST BACKING PLATES.

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

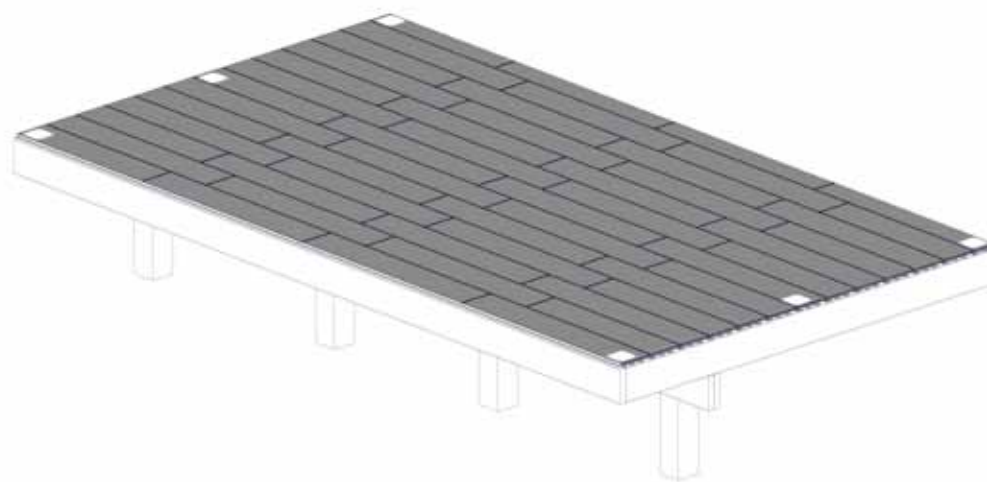
CHAPTER 02: DECK TILES

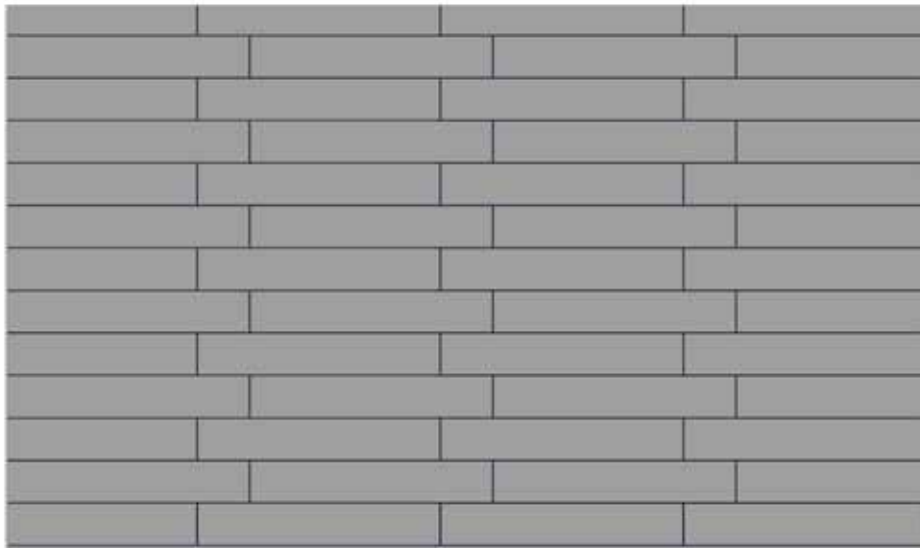
ONCE YOU HAVE CLEANED AND APPLIED THE ADHESIVE TO THE SECOND COURSE, LAY A FULL LENGTH OF TILE AND WORK YOUR WAY TO THE OTHER END USING THE SAME PROCEDURE AS ABOVE.

BY STARTING WITH A FULL LENGTH OF TILE, YOU WILL ENSURE A STAGGERED PATTERN.

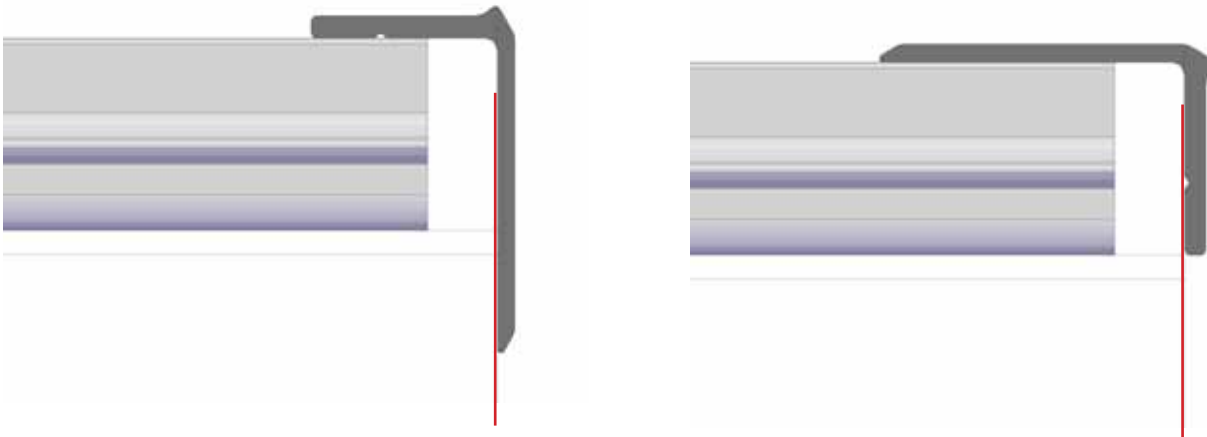


REPEAT PROCESS ON ENTIRE SURFACE.



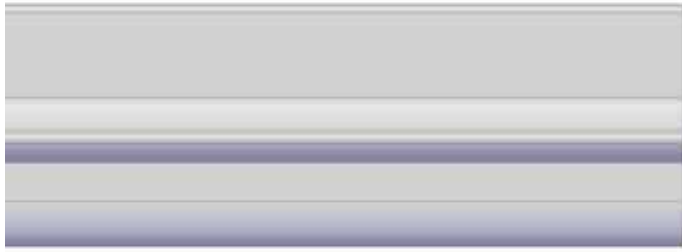


MEASURE DISTANCE FROM HOUSE TO THE FRONT OF WOOD STRUCTURE AND CUT FINISHING TRIM PIECE(S) TO THAT LENGTH.



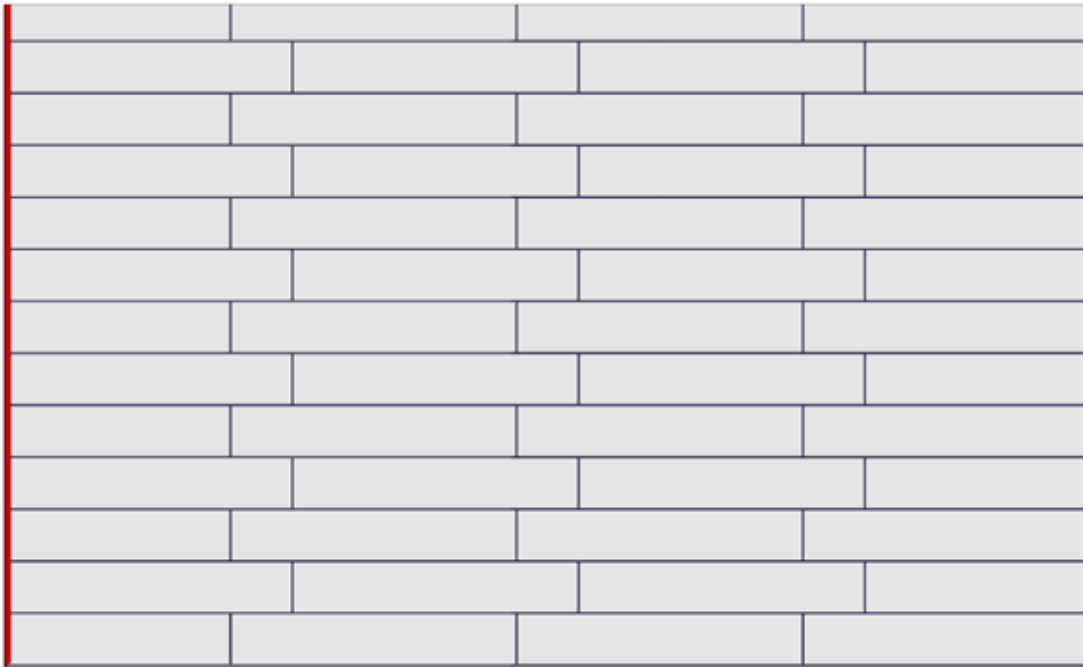
THE DECK TILE TRIM PIECE(S) CAN BE INSTALLED IN BOTH DIRECTIONS DEPENDING ON THE DESIRED FINISH WIDTH THAT YOU WANT. IF FLASHING IS REQUIRED, YOU MUST INSTALL IT BEFORE INSTALLING THE TRIM PIECES.

RUN A BEAD OF SILICONE ALONG THE ENTIRE END OF BOTH LEGS OF FINISH TRIM.

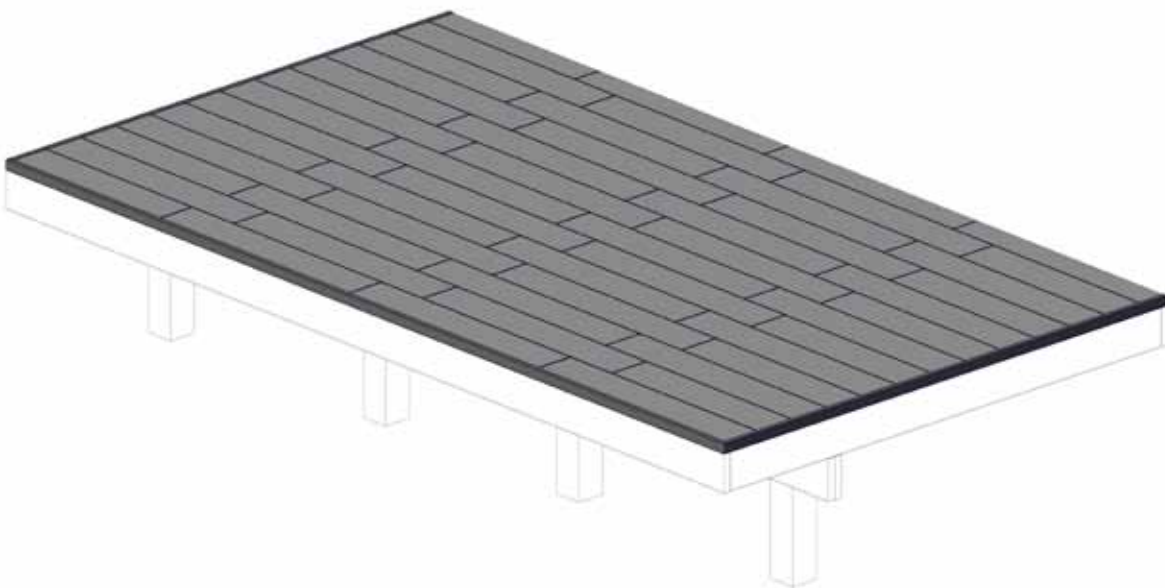


LOWER DECK TILE TRIM PIECE(S) INTO POSITION.

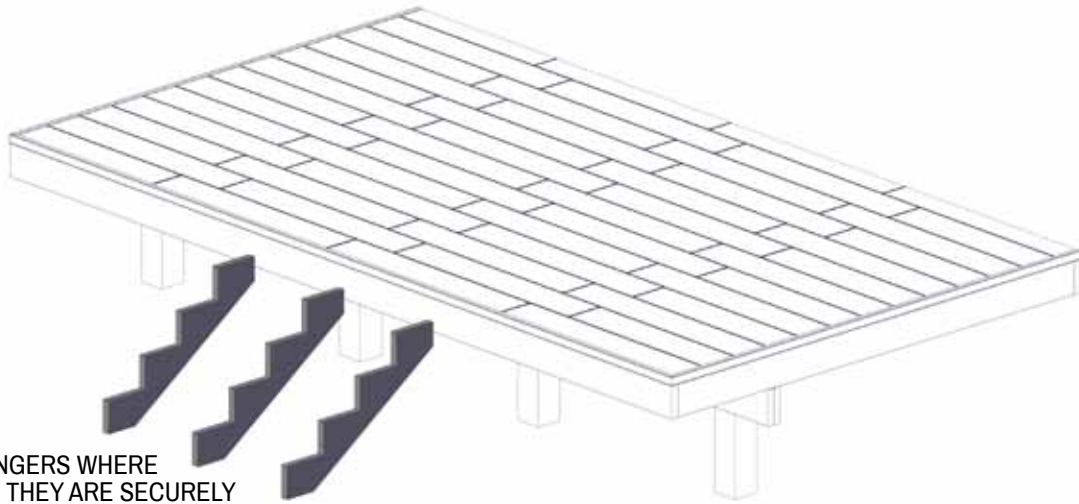




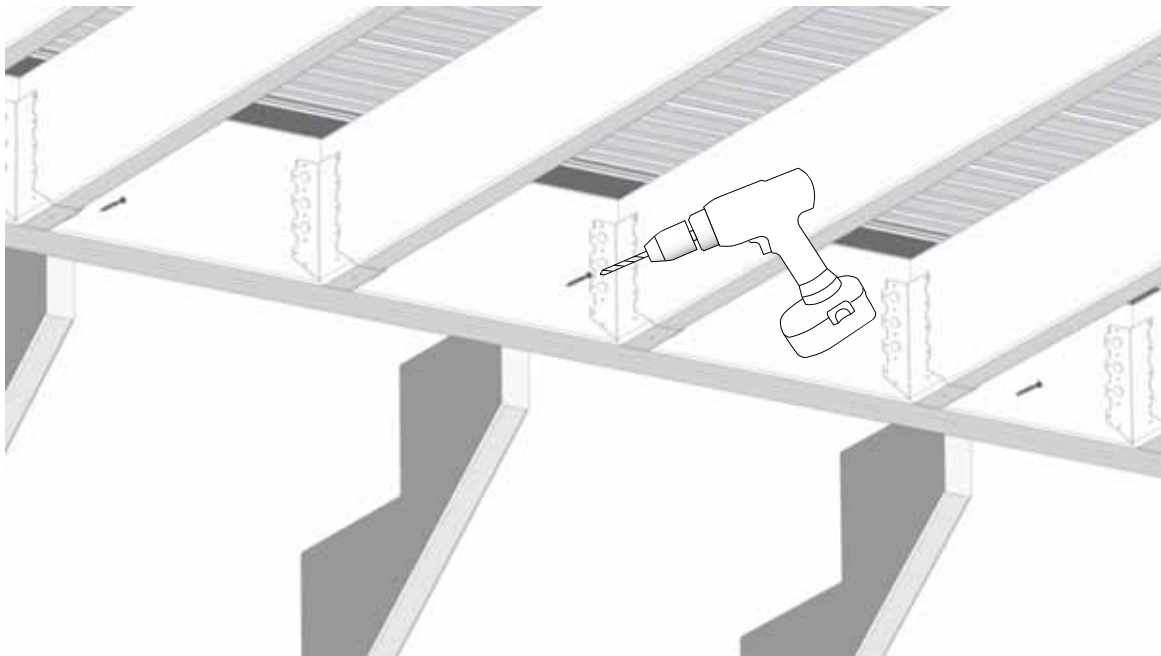
MEASURE DISTANCE OF FRONT PIECE AND CUT FINISHING TRIM
PIECE(S) TO THAT LENGTH.



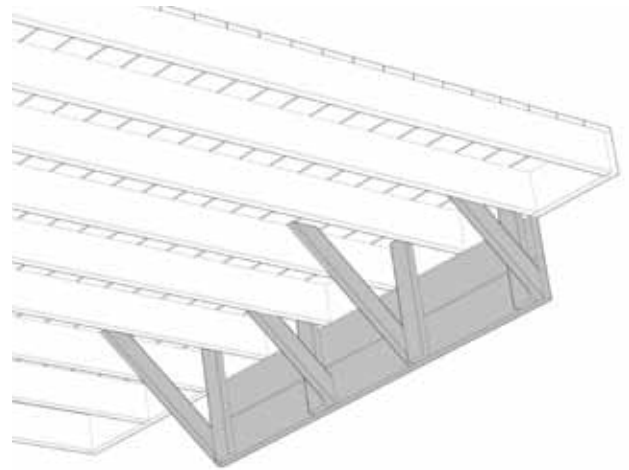
CHAPTER 04: WOODEN STAIR STRINGERS



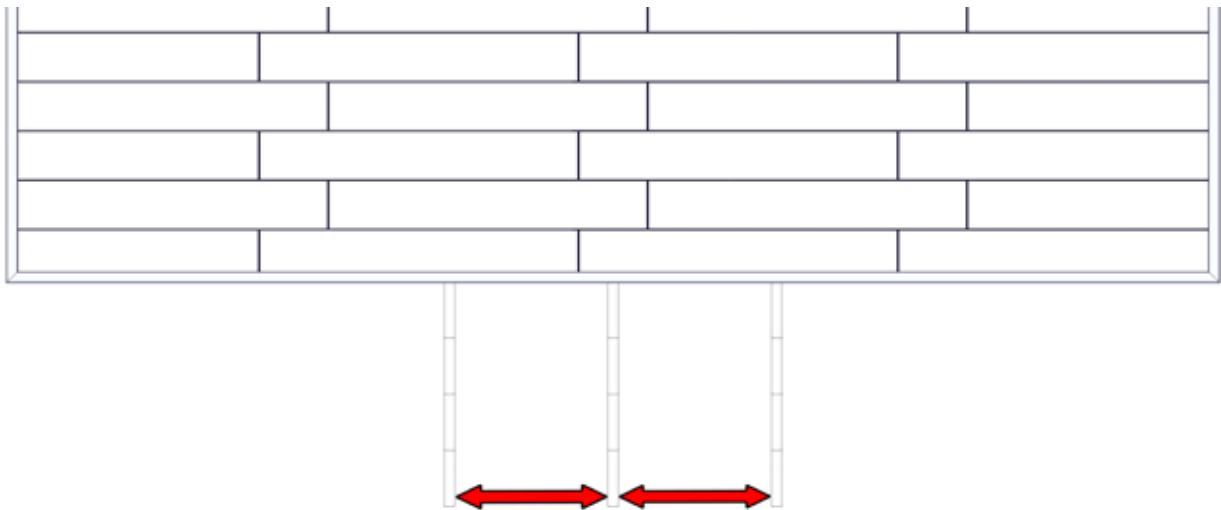
INSTALL STAIR STRINGERS WHERE DESIRED ENSURING THEY ARE SECURELY ATTACHED TO SUBSTRUCTURE AND RESTING ON A FIRM FOUNDATION LIKE A PATIO BLOCK.



CHAPTER 04: WOODEN STAIR STRINGERS

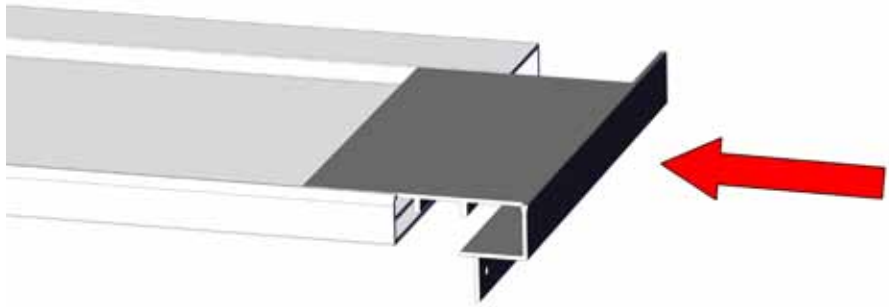


ADDITIONAL FRAMING MAY BE REQUIRED.
CHECK WITH LOCAL BUILDING CODE.

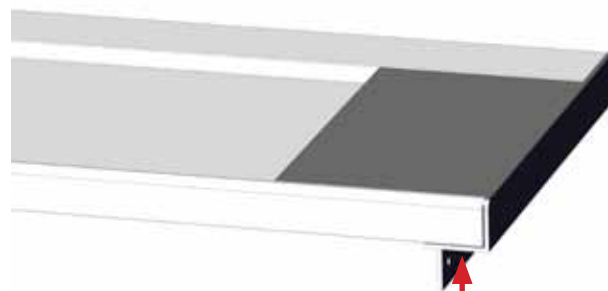


TREAD LENGTH	NUMBER OF STRINGERS	DISTANCE BETWEEN STRINGERS
3 Feet	3	14 1/2 Inches
4 Feet	3	20 1/2 Inches
5 Feet	4	17 1/16 Inches
6 Feet	4	21 1/16 Inches
7 Feet	5	18 7/16 Inches
8 Feet	5	21 7/16 Inches
9 Feet	6	19 1/4 Inches
10 Feet	6	21 5/8 Inches

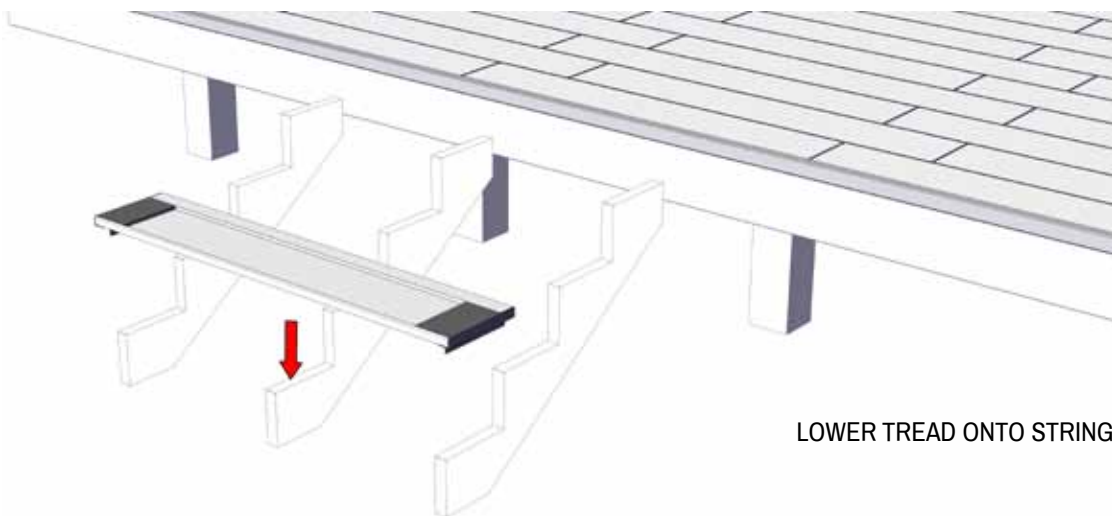
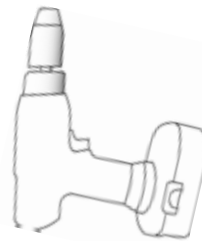
CHAPTER 04: WOODEN STAIR STRINGERS



SLIDE NEWEL POST STRINGER ADAPTOR INTO POSITION AND DRILL AND RIVET



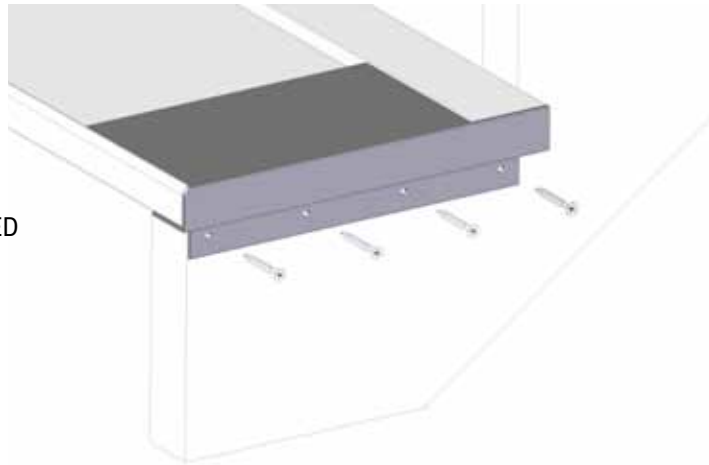
DRILL AND RIVET



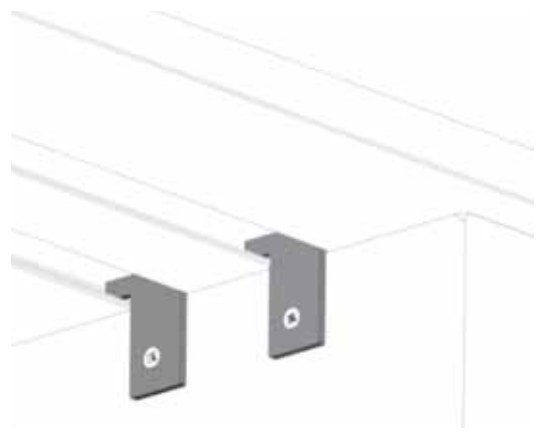
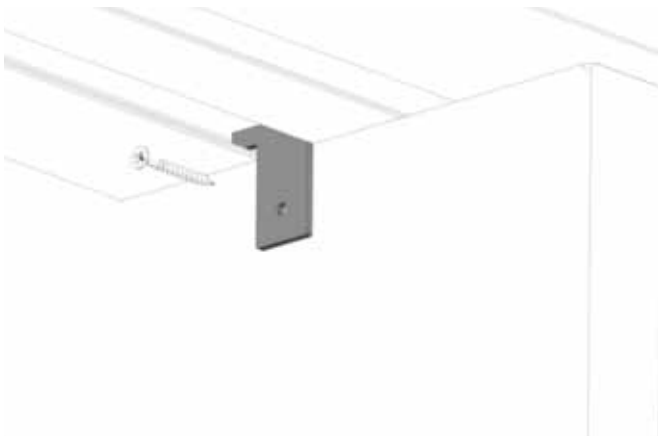
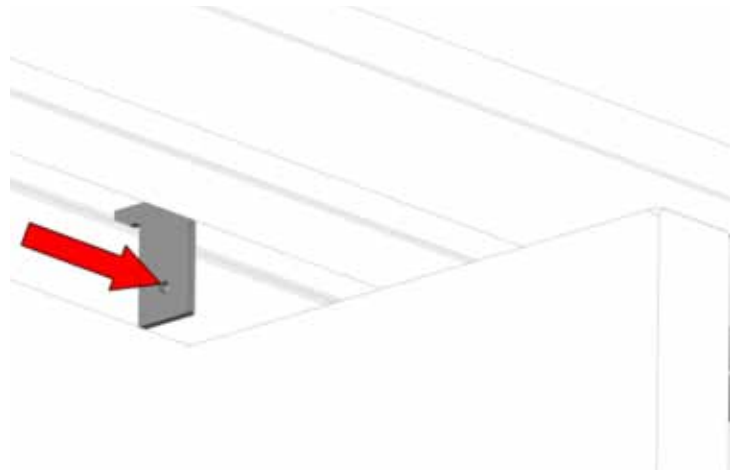
LOWER TREAD ONTO STRINGERS

CHAPTER 04: WOODEN STAIR STRINGERS

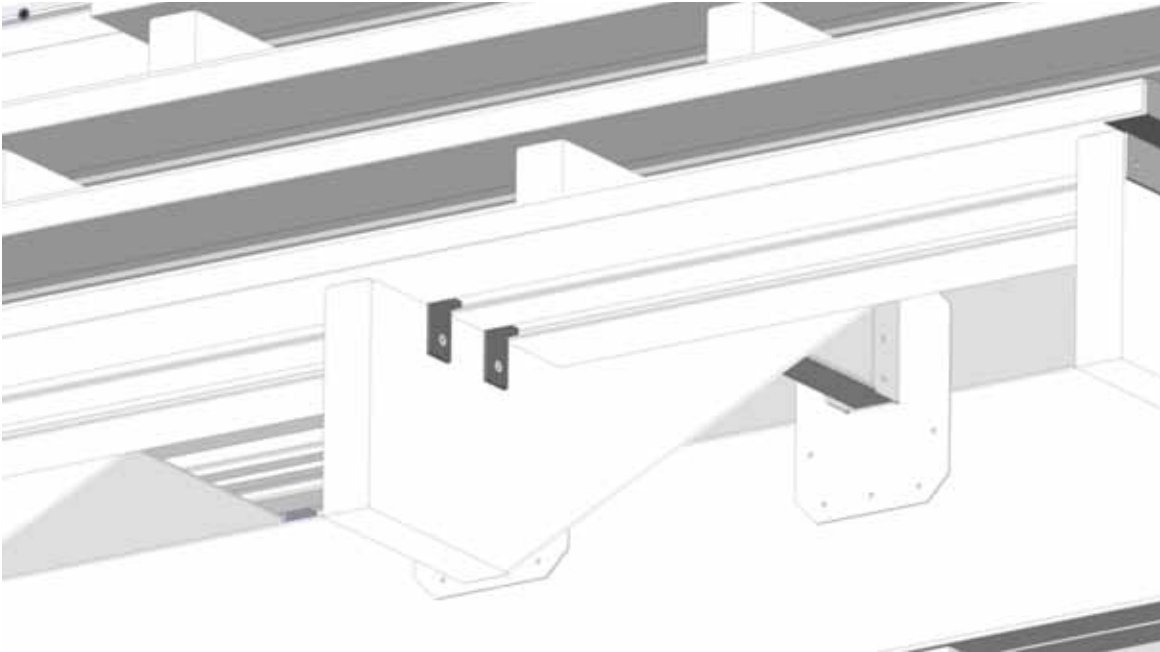
SECURE TREAD USING ACQ TREATED SCREWS.



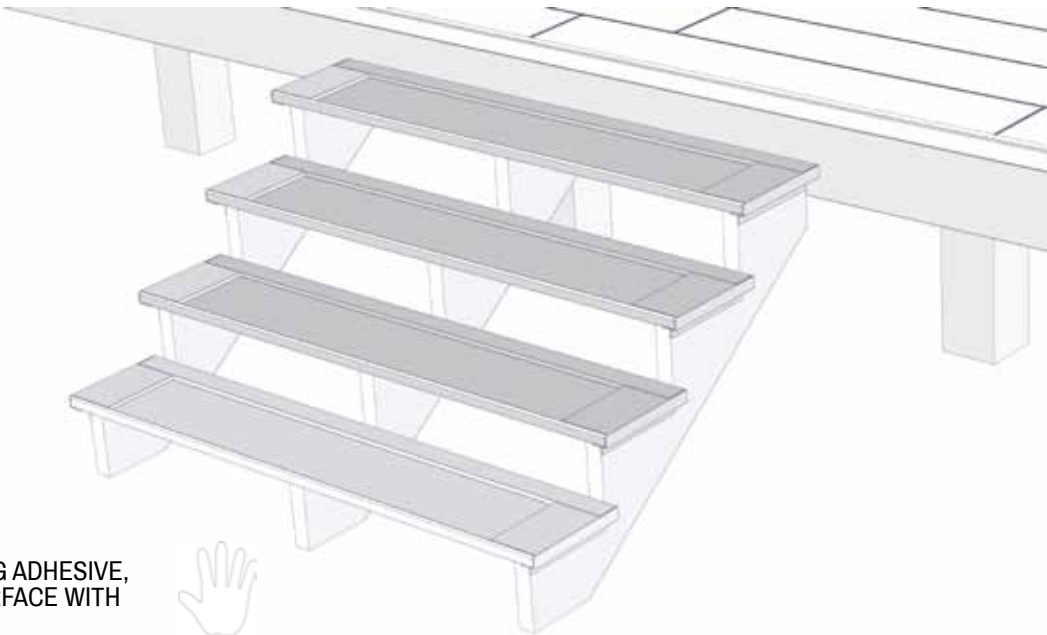
INSTALL AND ATTACH "T" BRACKETS AS ILLUSTRATED TO INSIDE OF STRINGER



CHAPTER 04: WOODEN STAIR STRINGERS

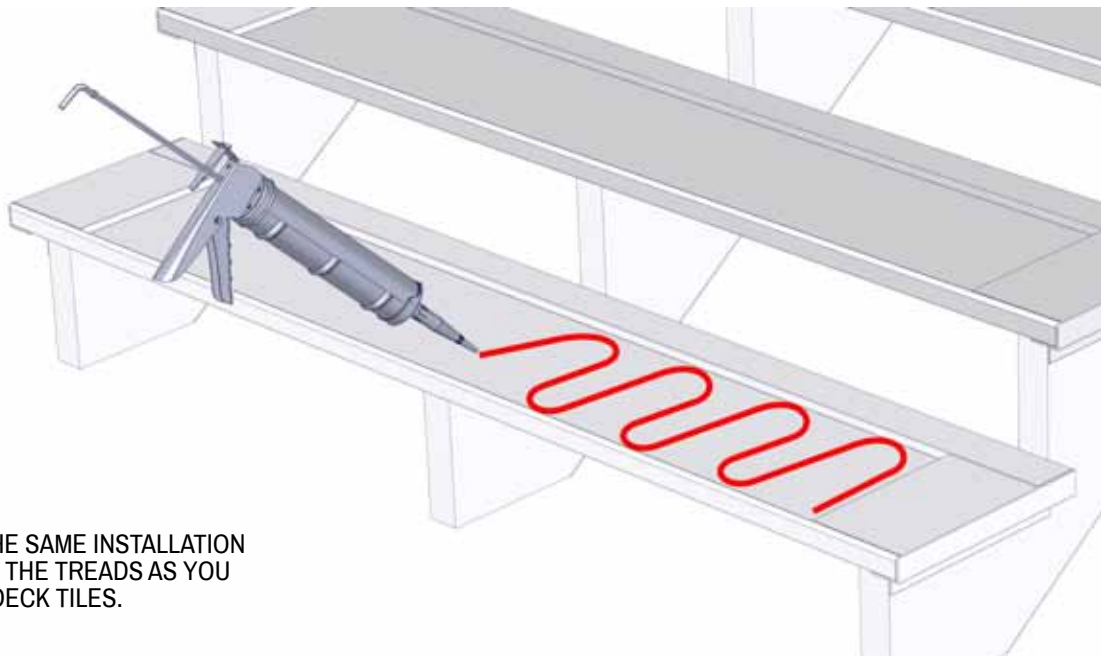


INSTALL AND ATTACH "T" BRACKETS ON INTERIOR STRINGER(S) FOR REMAINDER OF TREADS

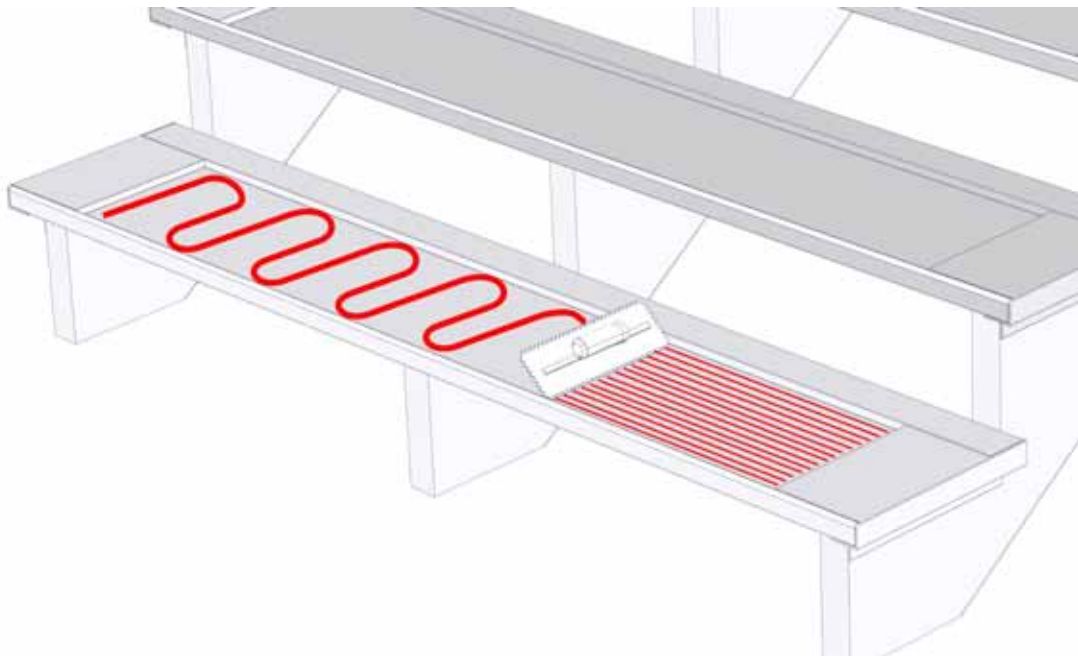


PRIOR TO APPLYING ADHESIVE, CLEAN ENTIRE SURFACE WITH ACETONE.

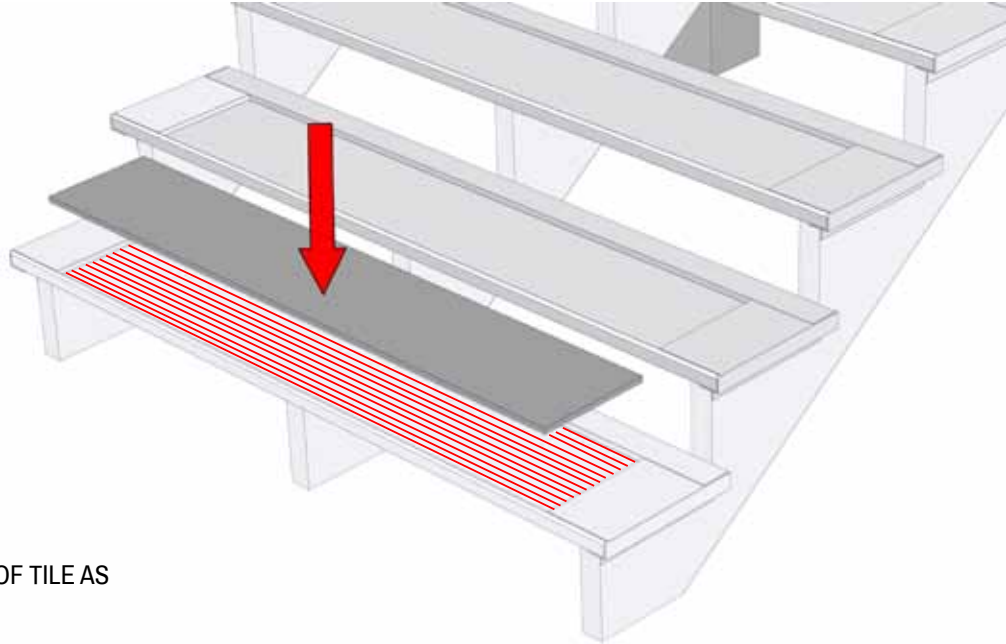
CHAPTER 04: WOODEN STAIR STRINGERS



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



CHAPTER 04: 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.

