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DECK-CON IS DESIGNED TO BE INSTALLED ON DECK TO HOUSES WITH TRADITIONAL DIMENSIONAL LUMBER WITH FLOOR DIAPHRAGMS NAILED AND GLUED AND HOUSE FLOOR JOISTS PARALLEL TO THE DECK JOISTS. IF A DIFFERENT CONDITION EXISTS THAN WHAT IS STATED ABOVE CONSULT DECK-CON TECHNICAL HELP AT THE NUMBER LISTED ABOVE. FOR HOUSES WITH BRICK VENEER, A LONGER GALVANIZED THREADED RODNEEDS TO BE PURCHASED.

## INSTALLATION INSTRUCTIONS, REFER TO WEB SITE FOR MORE INFORMATION INCLUDING INSTALLATION VIDEOS

### STEP 1: EXPOSE HOUSE BAND BOARD

THE WEATHER RESISTANT COVERING ON THE HOUSE NEEDS TO BE REMOVED (I.E. SIDING / BRICK ETC.), IN ORDER TO LOCATE THE ORIGINAL HOUSE BAND BOARD. TWO PLATES WILL BE INSTALLED ON THE HOUSE BAND BOARD, ONE ON EACH END OF THE DECK, PREFERABLY WITHIN TWO FEET OF THE ENDS OF THE DECK.

### STEP 2: LOCATE HOUSE JOIST CENTERLINE

LOCATE THE HEADS OF THE NAILS THE ORIGINAL CARPENTERS USED TO NAIL THE HOUSE FLOOR JOISTS TO THE HOUSE BAND BOARD. THE NAILS SHOULD BE IN A VERTICAL ROW. THIS VERTICAL ROW OF NAIL HEADS IS THE APPROXIMATE CENTERLINE OF THE HOUSE FLOOR JOIST. MAKE A VERTICAL PENCIL MARK FROM THE TOP OF THE HOUSE BAND BOARD TO THE BOTTOM.

### STEP 3: LOCATE EDGE OF HOUSE JOIST

FROM THE VERTICAL LINE IN STEP 2, MEASURE OVER 3/4" AND MAKE PENCIL MARKS AT THE LOCATIONS WHERE YOU WISH TO INSTALL THE PLATE, ONE FOR THE TOP OF THE PLATE AND ONE FOR THE BOTTOM OF THE PLATE. THESE MARKS SHOULD BE THE APPROXIMATE EDGE OF THE INTERIOR HOUSE JOIST.

### STEP 4: DRILL OBSERVATION HOLES

AT THE MARKS IN STEP 3 YOU WILL MAKE OBSERVATION HOLES. USING A MIN. OF A 3/4" DRILL BIT, DRILL TWO HOLES, OR YOU CAN DRILL A LARGER HOLE IF YOU NEED TO SEE INSIDE MORE CLEARLY. NOTE: THE EDGE OF THE HOLES YOU DRILL SHOULD TOUCH THE EDGE OF THE MARKS MADE IN STEP 3 THAT REPRESENTS THE APPROXIMATE EDGE OF THE HOUSE FLOOR JOIST. AFTER THESE HOLES ARE DRILLED, YOU CAN SEE THE ACTUAL EDGE OF THE HOUSE FLOOR JOIST AND CONFIRM THE FLOOR IS GLUED TO THE HOUSE JOISTS. FIND THE EDGE OF THE ACTUAL HOUSE FLOOR JOIST AND MAKE A VERTICAL LINE ON THE HOUSE BAND BOARD. THIS LINE IS THE ACTUAL HOUSE FLOOR JOIST EDGE AND WILL BE WHERE THE EDGE OF THE 1.5" WIDE PLATE WILL BE PLACED. THIS IS TO ENSURE PROPER ALIGNMENT WITH THE HOUSE JOIST VERTICAL CENTERLINE AND THE PLATE HOLES VERTICAL CENTERLINE.

### STEP 5: DRILL NUT HOLE

PLACE THE PLATE ON THE HOUSE BAND BOARD WITH THE SIDE OF THE PLATE ALONG THE SIDE OF THE ACTUAL HOUSE FLOOR JOIST EDGE FOUND IN STEP 4. REMOVE EXISTING NAILS AS NECESSARY TO AVOID INTERFERENCE W/ THE HOLES THAT NEED TO BE DRILLED. MARK THE NUT CENTERHOLE AS ACCURATE AS POSSIBLE. DRILL A 3/4" DIA. HOLE APPROX. 1/2" INTO THE HOUSE BAND BOARD, THIS HOLE IS FOR THE PLACEMENT OF THE THREADED ROD NUT. TAKE THE NUT AND PLACE IT ON THE HOLE AND GENTLY TAP IT INTO THE HOLE WITH A HAMMER. THE NUT SHOULD GO IN WITHOUT EXCESSIVE FORCE. BE SURE THE NUT IS SEATED SQUARE WITH THE HOUSE BAND BOARD AS THIS WILL MAKE INSTALLING THE THREADED ROD EASIER.

### STEP 6: DRILL LAG CLEARANCE HOLES AND LEAD HOLES

PLACE THE PLATE BACK ON THE HOUSE BAND BOARD AND CENTER THE PLATE CENTERHOLE WITH THE NUT. MARK THE CENTER OF THE LAG SCREW HOLES AS ACCURATE AS POSSIBLE. REMOVE THE PLATE. THE CLEARANCE HOLES AND LEAD THREAD HOLES NEED TO BE AS SQUARE AS POSSIBLE THOUGHOUT THE ENTIRE LENGTH OF THE LAG. THE LAGS WILL BE INSTALLED THROUGH THE HOUSE BAND BOARD INTO THE END GRAIN OF THE HOUSE JOIST. IN ORDER TO DRILL THE HOLES SQUARE TO THE HOUSE BAND BOARD A DRILL BLOCK NEEDS TO BE USED. THE DRILL BLOCK MAY BE PURCHASED OR FACBRICATED OUT OF WOOD BLOCKS OR OTHER MATERIAL WITH A DRILL PRESS CAPABLE OF DRILLING VERTICAL 90 DEGREE HOLES WITH RESPECT TO A HORIZONTAL PLANE. DRILL LEAD HOLES FOR THE THREADED PORTION OF THE LAG SCREWS USING A 1/4" DIA. BIT IN THE CENTER OF THE CLEARANCE HOLES. DRILL THE LEAD HOLES 6 INCHES DEEP. NOW DRILL 3/8" DIA. CLEARANCE HOLES 1.5 INCHES DEEP.

### STEP 7: INSTALL PLATE

PUT THE PLATE BACK ON THE HOUSE BAND BOARD AND ALIGN THE HOLES IN THE PLATE WITH THE HOLES MADE IN STEPS 5 AND 6. INSTALL THE LAG SCREWS WITH A SLOW SPEED DRILL AND / OR WRENCH UNTIL TIGHT; DO NOT OVER TIGHTEN.

### STEP 8: INSTALL THREADED ROD, MAKE OBSERVATION BLOCK/CUT-OBSERVATION CHANNEL, INSTALL DECK LEDGER

PLACE THE THREADED ROD INTO THE NUT AND HAND-TIGHTEN UNTIL FULL THREAD ENGAGEMENT. THIS DRAWS THE NUT UP TO THE PLATE AND ENSURES THE THREADED ROD IS PROPERLY INSTALLED. SAW CUT A CHANNEL FROM TOP TO BOTTOM INTO THE BACK OF THE DECK LEDGER IN ORDER TO STRADDLE THE PLATE AND LAG SCREW HEADS WITHOUT TOUCHING THEM, OR MAKE AN OBSERVATION BLOCK SHOWN IN THE PHOTO ABOVE, SEE OUR WEB SITE FOR FURTHER INFO ON OBSERVATION BLOCKS UNDER THE "TIPS" SECTION. PROVIDE FLASHING AS REQUIRED. THE OBSERVATION BLOCK/CHANNEL PROVIDES AN INSPECTION PORT FOR THE CODE OFFICIAL AND PREVENTS BENDING OF THE DECK LEDGER OVER THE PLATES AND LAG HEADS. DRILL A 9/16" MIN. DIA HOLE THROUGH THE DECK LEDGER IN THE LOCATION WHERE THE THREADED ROD IS TO COME THROUGH THE DECK LEDGER. PLACE THE DECK LEDGER ON THE HOUSE BAND BOARD WITH THE THREADED ROD STICKING OUT OF THE HOLE IN THE DECK LEDGER. INSTALL TWO LAGS ON EACH SIDE OF THE CHANNEL (OR EACH SIDE OF THE SPLIT DECK LEDGER) AS YOU WOULD NORMALLY IN DECK CONSTRUCTION.

### STEP 9: ATTACH ANGLE TO DECK JOIST

MEASURE OVER 3/4" FROM THE CENTER LINE OF THE THREADED ROD. MAKE A VERTICAL MARK ON THE DECK LEDGER. THIS MARK IS THE EDGE OF THE DECK JOIST WHERE THE ANGLE IS GOING TO BE ATTACHED. ATTACH THE DECK JOIST TO THE DECK LEDGER AT THIS MARK. INSTALL THE ANGLE ONTO THE THREADED ROD THRU THE SINGLE 9/16" HOLE ON ONE SIDE OF THE ANGLE. INSTALL THE NUT. MOVE THE ANGLE UP TO THE NUT AND MARK THE CENTER OF THE TWO 5/8" HOLES IN THE ANGLE ON THE DECK JOIST. MOVE THE ANGLE TOWARDS THE DECK LEDGER. DRILL TWO 11/16" HOLES THRU THE DECK JOIST IN THE LOCATIONS MARKED. PULL THE ANGLE UP TO THE NUT AND INSTALL 2-5/8X3 MACHINE BOLTS. PUT THE WASHERS AND NUTS ON THE OTHER SIDE OF THE DECK JOIST. TIGHTEN UNTIL SNUG. SNUG TIGHT THE 1/2" NUT ON THE THREADED ROD WITH AN OPEN END WRENCH.