



ASSEMBLY GUIDE



PORTLAND SERIES

CHAPTER 1	FOUNDATION PREPARATION
CHAPTER 2	WALLS
CHAPTER 3	ROOF
CHAPTER 4	DOOR

REQUIRED DOCUMENTS:



Reference project assembly drawings



Reference permit plan set for additional details

RECOMMENDED TOOLS:

- | | |
|--|---|
| <input type="checkbox"/> DRILL DRIVER | <input type="checkbox"/> COMPRESSOR |
| <input type="checkbox"/> WOOD DRILL BIT SET | <input type="checkbox"/> 10 oz CAULK GUN |
| <input type="checkbox"/> 3/4" PADDLE BIT | <input type="checkbox"/> UTILITY KNIFE |
| <input type="checkbox"/> IMPACT DRIVER | <input type="checkbox"/> HAMMER DRILL (CONCRETE SLABS ONLY) |
| <input type="checkbox"/> 1/4" NUT DRIVER BIT | <input type="checkbox"/> 1/2" MASONRY BIT |
| <input type="checkbox"/> #2 PHILLIPS BIT | <input type="checkbox"/> 3/4" MASONRY BIT MAY BE REQUIRED, SEE PERMIT PLAN SET |
| <input type="checkbox"/> #3 PHILLIPS BIT | <input type="checkbox"/> COMPOUND MITER SAW |
| <input type="checkbox"/> T25 TORQUE BIT | <input type="checkbox"/> CIRCULAR SAW |
| <input type="checkbox"/> T30 TORQUE BIT | <input type="checkbox"/> GENERAL CARPENTRY TOOLS
(6-ft LEVEL, TIN SNIPS, HAMMER, MEASURING TAPE, CHALK LINES, PENCILS, SQUARE, ETC.) |
| <input type="checkbox"/> 3/8" CROWN STAPLER | <input type="checkbox"/> 12-FT LADDER MINIMUM |
| <input type="checkbox"/> T-50 ROOF STAPLES, SEE PROVIDED SHOPPING LIST | <input type="checkbox"/> RIGHT ANGLE ADAPTER FOR DRILL |
| <input type="checkbox"/> PNEUMATIC FRAMING NAILER | <input type="checkbox"/> CLAMPS |
| <input type="checkbox"/> 3" 16d NAILS, SEE PROVIDED SHOPPING LIST | |
| <input type="checkbox"/> 2 3/8" 8d NAILS, SEE PROVIDED SHOPPING LIST | |
| <input type="checkbox"/> EXTERIOR RING SHANK | |
| <input type="checkbox"/> OSCILATING MULTI TOOL | |

**** IMPORTANT ****

SAFETY IS YOUR #1 RESPONSIBILITY. ALWAYS WEAR TASK APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) SUCH AS OSHA-APPROVED GLASSES, GLOVES, WORK BOOTS, ETC.

MAKE SURE YOU HAVE ALL THE SUPPLEMENTAL MATERIALS FROM YOUR SPECIFIC SHOPPING LIST

CONTACT InstallationSupport@studioshed.com FOR QUESTIONS

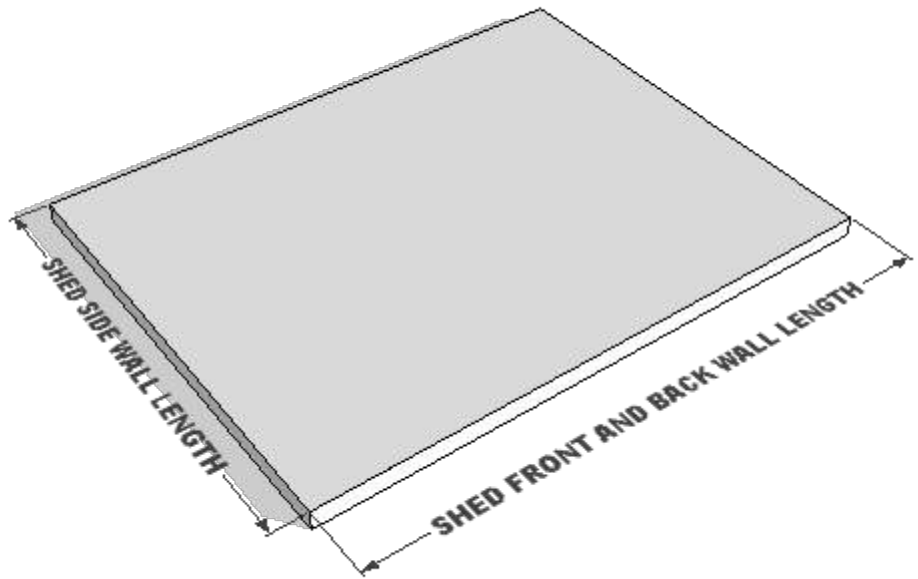
FLOOR PREP:

Fig 2a:

- Floor should be built to the exact dimensions of the shed and should be square and level

****WE RECOMMEND USING A LASER LEVEL TO ACCURATELY DETERMINE IF THE FOUNDATION IS LEVEL TAKE YOUR TIME TO BE PRECISE, IT WILL SAVE TIME LATER!****

- * If the shed foundation is larger than the shed:
- Snap reference lines outlining the perimeter dimensions of the shed
- Ensure lines are parallel and square
- If you intend to use an existing foundation, especially one that is not the exact size of your shed, consult with Studio Shed as this may impact total cost and warranty
- Top of foundation should be minimum 8" above adjacent grade



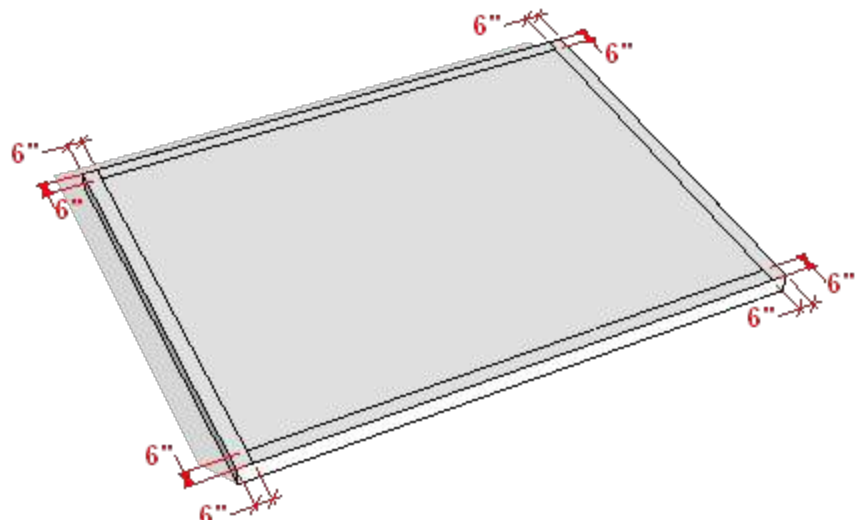
Reference permit plan set for additional details

SILL PREP:

Fig 2b:

- Mark sill plate reference lines using chalk line and tape measure
- Snap lines 6" in from edge / perimeter of the shed on all sides

****Sill plates will have a 1/2" inset from the edge****

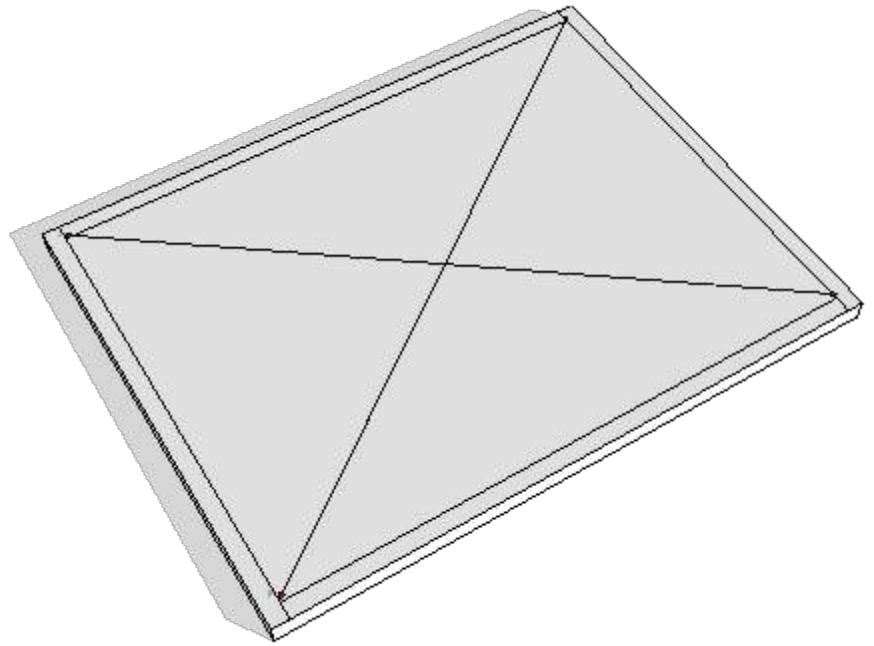


CHECK FOUNDATION FOR SQUARE:

- Use a tape measure to check for square by measuring from opposite inside corners of the sill plate reference lines
- The measurements should be equal
- If unequal, make any adjustments to make sure edge distance and squareness are correct

****WE RECOMMEND USING A LASER LEVEL TO ACCURATELY DETERMINE IF THE FOUNDATION IS LEVEL TAKE YOUR TIME TO BE PRECISE, IT WILL SAVE TIME LATER!****

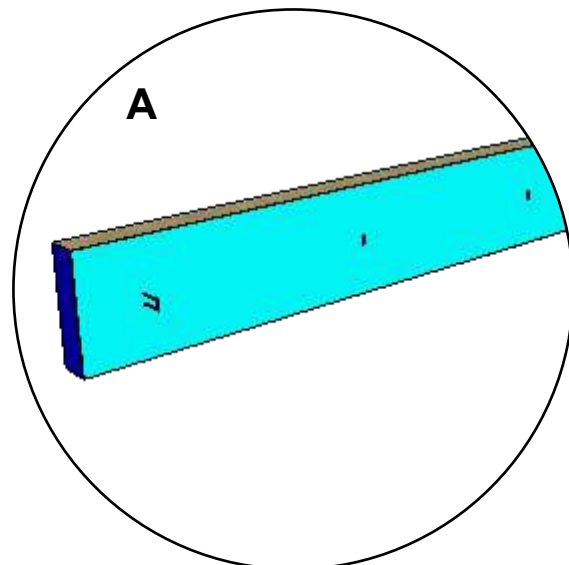
Fig 3a:



APPLY SILL FOAM GASKET:

- Apply sill foam gasket to one side of sill plates
- (A) Using staples, secure sill seal to the bottom of the of the sill plates (prior to assembly)
- Ensure staples are tight to LSL

Fig 3b:



LOOSE FIT 2x6 TREATED LSL SILL PLATES:

Fig 4a:

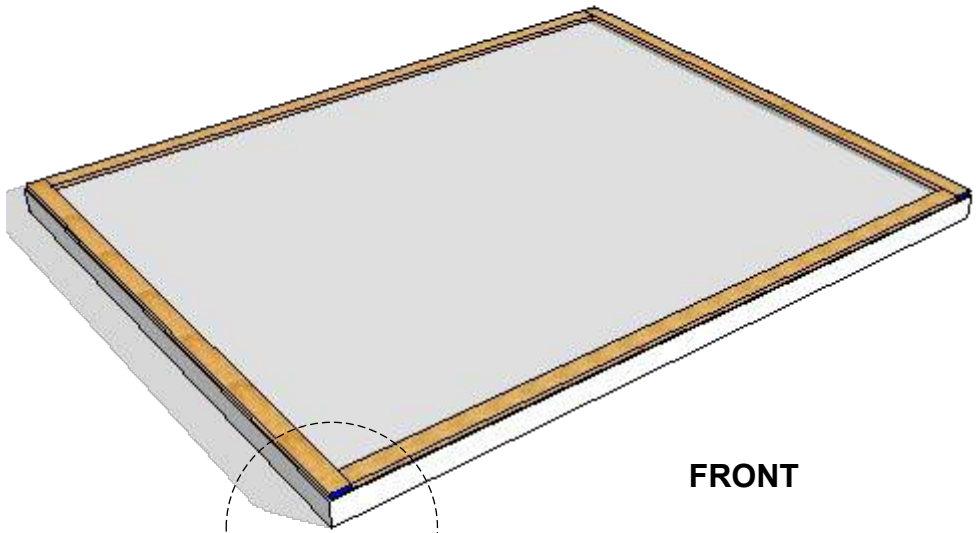
****ENDS OF TREATED LSL SILL PLATES WILL BE PAINTED BLUE (COLOR MAY VARY) - VERIFY LSL MATERIAL****

- Align inside edge of the sill plates with the reference lines, the sill plates will sit in-set 1/2" from the edge of the floor/perimeter of the shed

- **DO NOT** fasten to floor with anchors just yet, although you may tack the sill plate down with nails/pins

****SIDE WALL PLATES RUN FULL LENGTH****

****FRONT AND BACK WALL SILL PLATES SIT WITHIN SIDE WALL SILL PLATES****

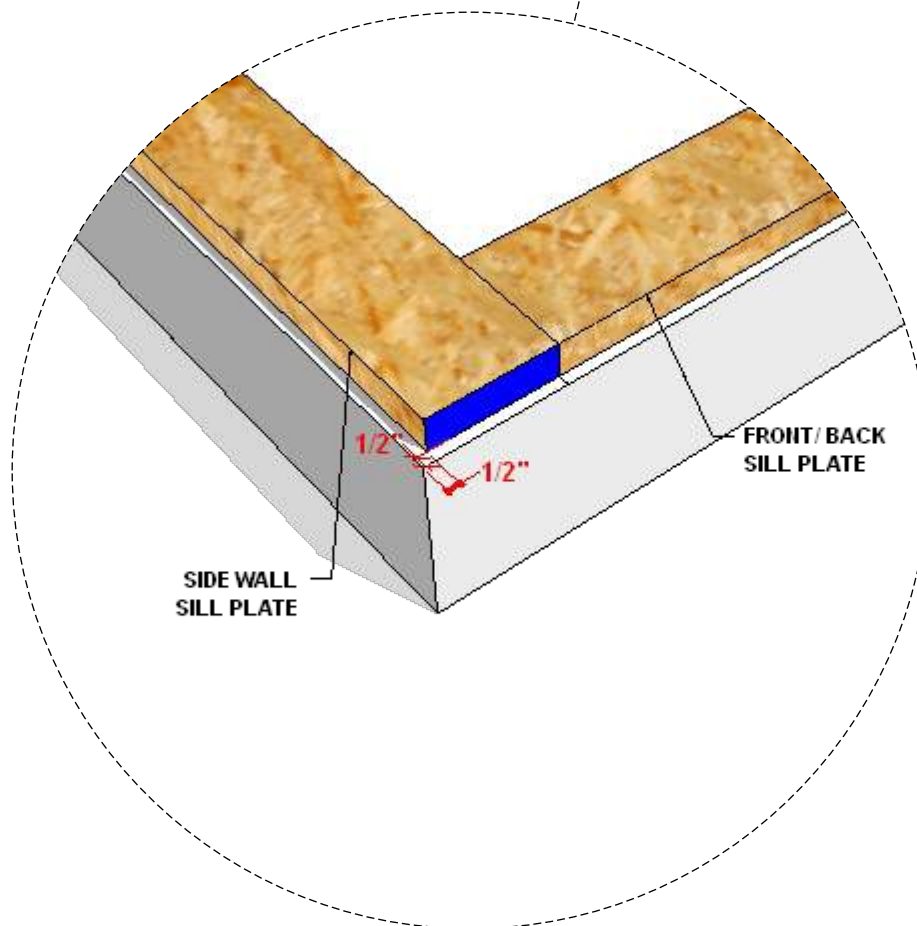


FRONT



Reference project assembly drawings for sill plate lengths

Fig 4b:



SIDE WALL SILL PLATE

FRONT/BACK SILL PLATE

1/2" 1/2"

PREP WALLS FOR ASSEMBLY :

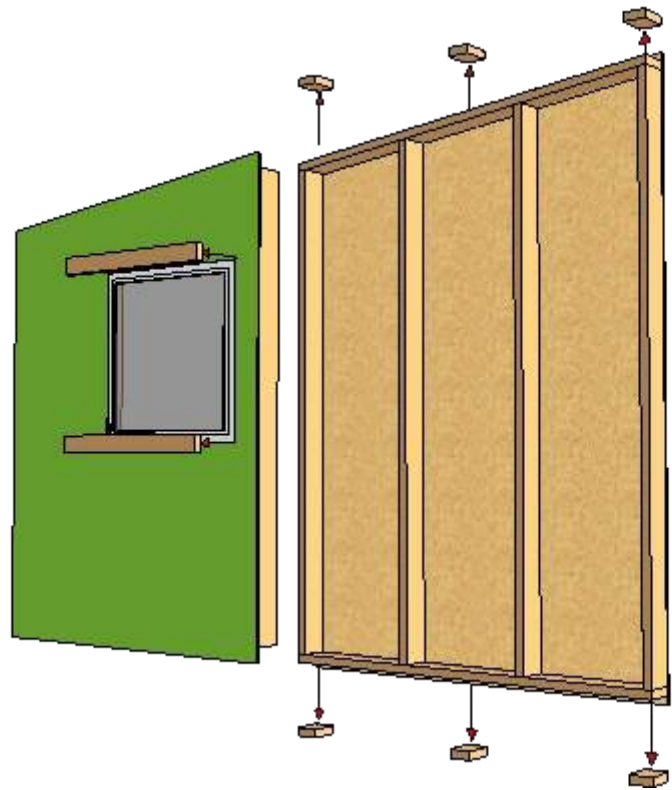
- Using a T25 torxbit, remove all shipping blocks from around operable windows and from the base of the wall panels
- Use supplied zip tape to cover any screw holes from attaching the shipping blocks

****DO NOT APPLY ZIP TAPE TO BOTTOM FLANGE OF WINDOW AS THIS MAY TRAP WATER****

****HANDLE PANELS WITH CARE DO NOT REST DIRECTLY ON GROUND****

****REMOVING SHIPPING BLOCKS CAN LEAVE EXPOSED SHEATHING OVERHANGS****

Fig 5a:

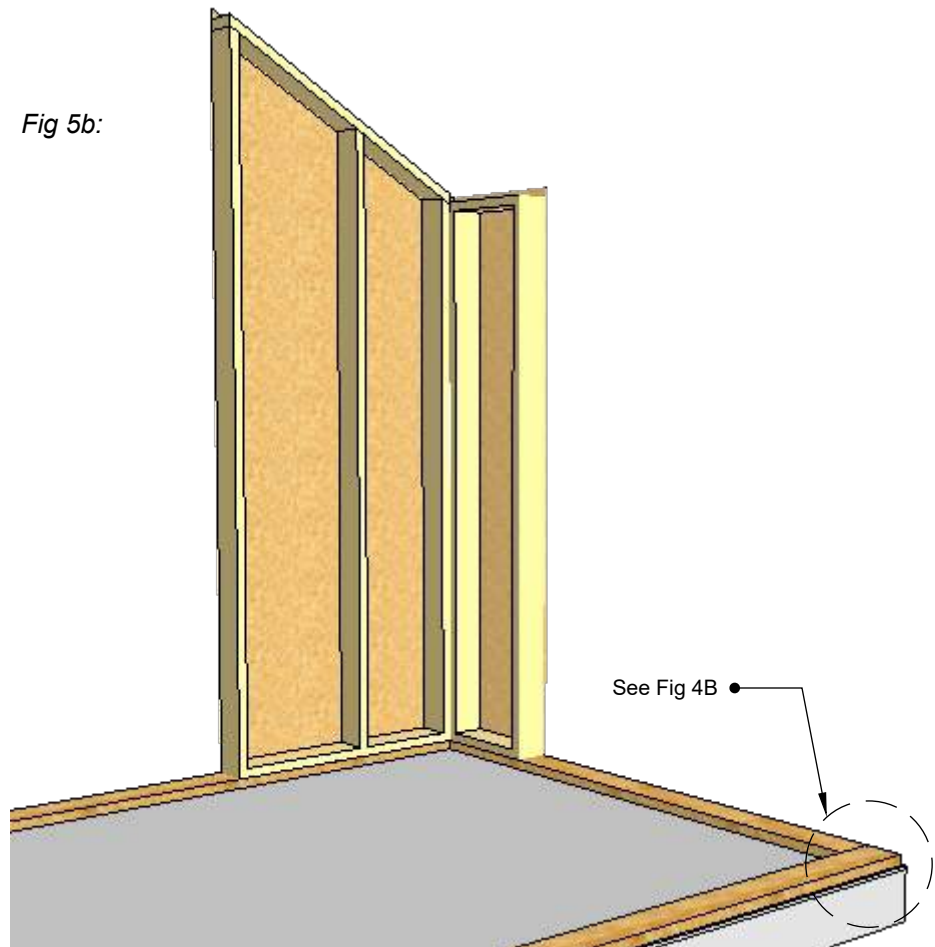


STAND AND LOOSE-FIT WALL PANELS:

- Ensure the floor/sill is level
- If the the floor/sill is level, starting at a back wall corner, stand a back panel and a side wall panel
- Loose fit panels to allow for any needed adjustments
- If not, start at higher back corner and use shims under wall panels to ensure alignment

****FRONT AND BACK WALLS WILL OVERLAP SIDE SILL PLATES****

Fig 5b:



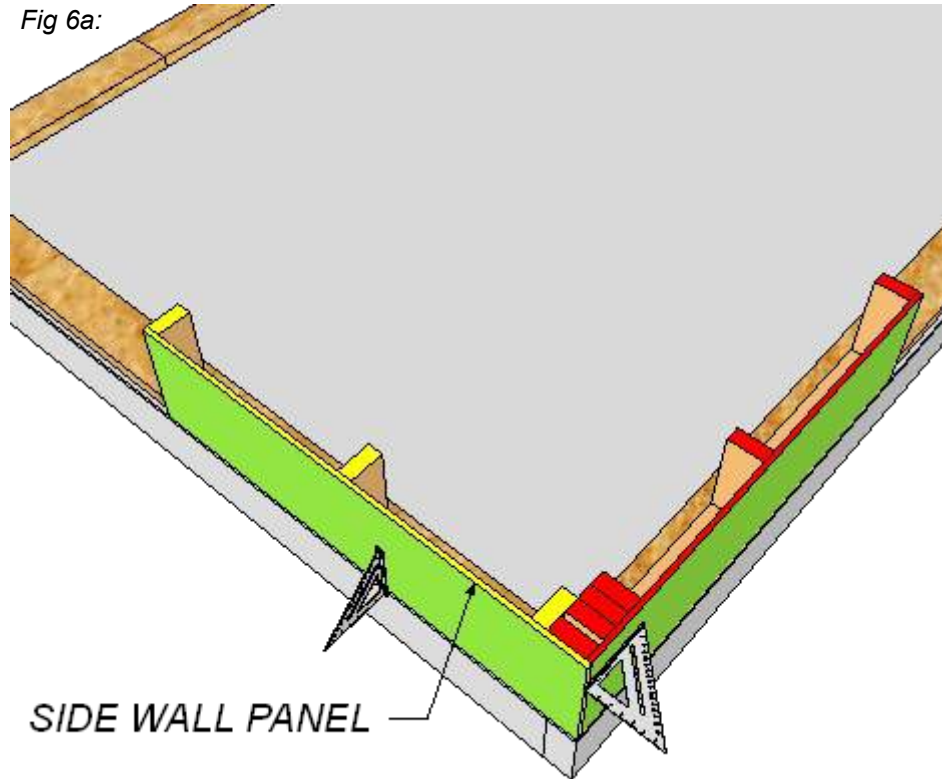
Reference project assembly drawings cover sheet for panel layout, SKU numbers will be written on wall panels

PANEL ALIGNMENT WITH FLOOR:

- Side wall sheathing should be flush with face of floor/perimeter line of shed
- Some side walls will have double studs
- California corners, blocking, or drywall clips should be added as needed in field

****STUD LAYOUT MAY VARY****

Fig 6a:



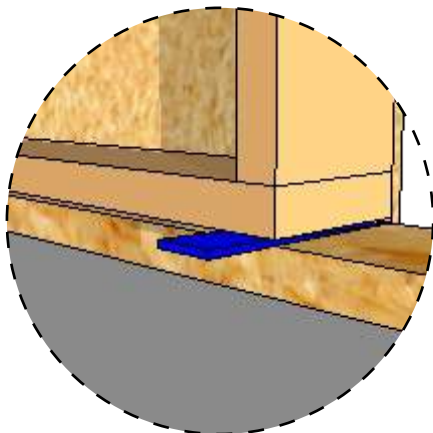
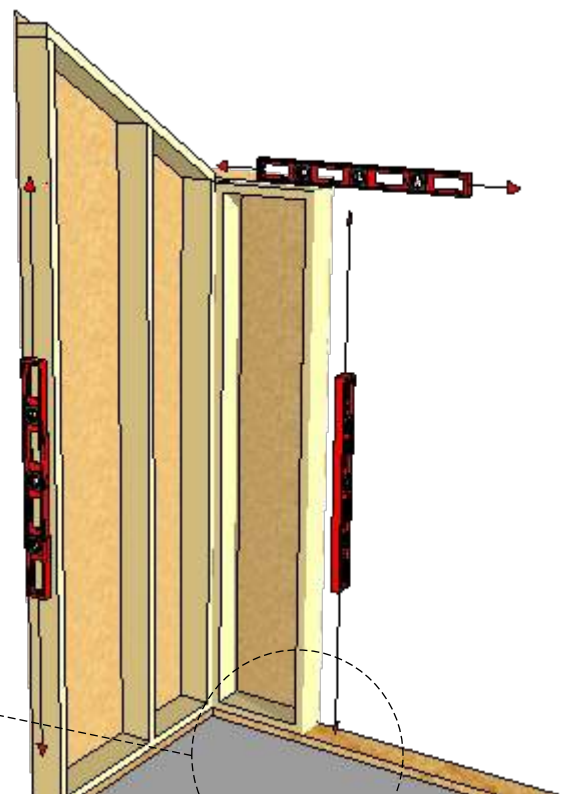
CHECK PANELS FOR LEVEL AND PLUMB:

- Using a carpenter's level, ensure panels are level and plumb prior to installing fasteners
- If needed, adjust by placing shim in-between pressure treated sill and bottom wall panel

****TOP PLATES SHOULD BE FLUSH****

****TAKE YOUR TIME, ACCURACY IS IMPORTANT****

Fig 6b:



STAND AND LOOSE FIT WALL PANELS (FASTENING):

Fig 7a:

***DIFFERENT LENGTH WOOD SCREWS WILL BE USED DEPENDING ON THE NUMBER OF STUDS PRESENT AT THE CONNECTION:**

-If you are screwing **TWO STUDS** together use #12 x 3" wood screws

-If you are **SCREWING 3 OR MORE STUDS** together use #12 x 4" (Min.) wood screws

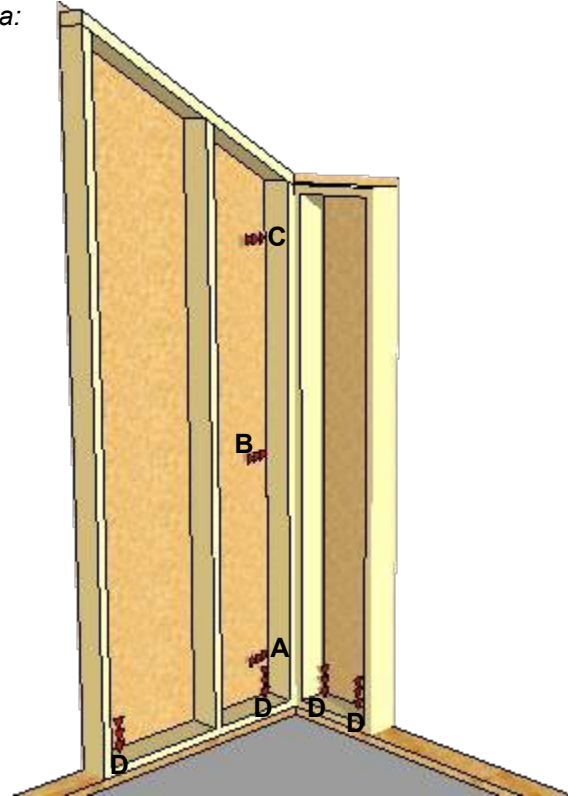
BE AWARE OF WHERE THE SCREWS ARE GOING TO AVOID DAMAGE TO THE SHED (ESPECIALLY AROUND WINDOWS)

- Install a wood screw ~6" (A) from the bottom, in the middle (B) and ~6" from the top of the wall panel (C) into the adjacent wall panel. Ensure panels are level, plumb and flush **EVERY TIME**

- Install a wood screw at each end of the wall panel (D) into the sill plate to keep from moving or falling in windy conditions

-Use bracing as needed

- DO NOT OVER DRIVE THE SCREWS



STAND AND LOOSE-FIT FRONT WALL PANEL:

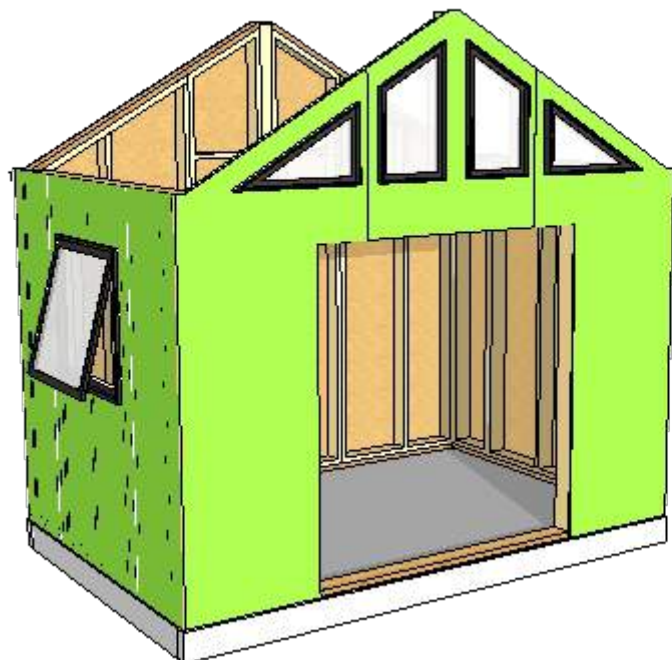
Fig 7b:

- Use methods in Fig 5a-7a

- In addition, to aid pulling panels into alignment, clamp top plates to top of wall panels and sheathing (see fig 8b)

END OF LVL TOP PLATES WILL BE PAINTED RED/COLOR MAY VARY (VERIFY LVL MATERIAL)

FRONT AND BACK TOP PLATES WILL OVERLAP SIDE WALLS



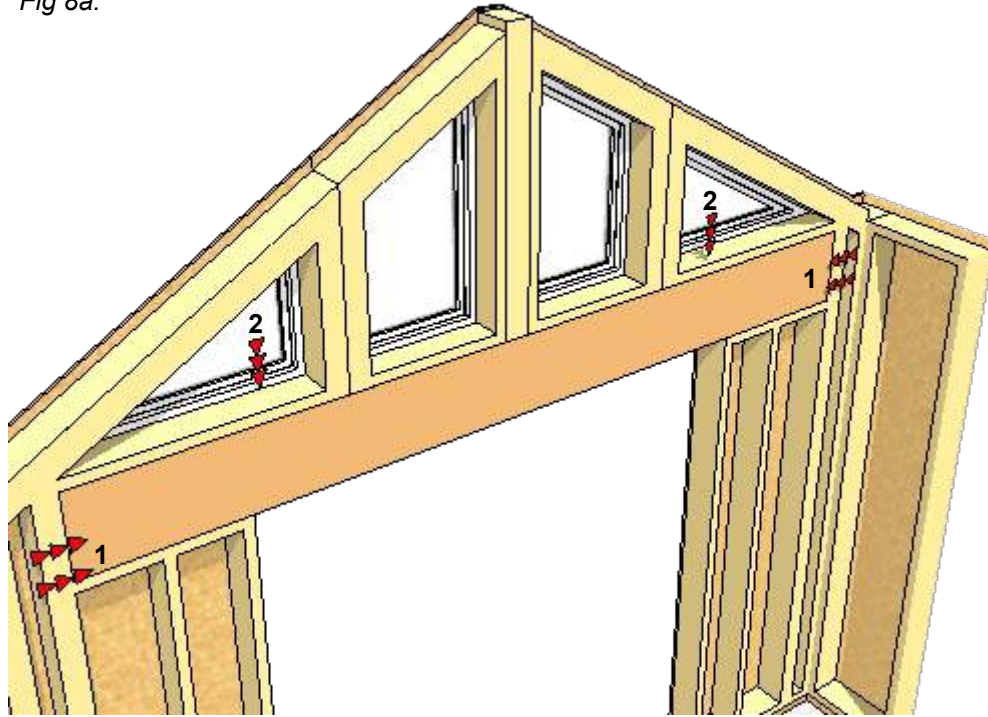
STAND AND LOOSE-FIT HEADERS:


- Install header(s) above door openings as required Headers will fit into pockets provided in wall panels
- (1) Toe screw two (2) 4" (min.) screws on each side at header and king post connections
- (2) Install 3" wood screws to secure header to wall panels
- Install panels left to right above header
- Clamp sheathing to king post at top and bottom and any sheathing seams

USE CAUTION USING SCREWS TO AVOID DAMAGE TO WINDOWS

****WHEN THERE IS A SEPERATE KING POST INSTALL LEFT RIGHT****

Fig 8a:



 Reference permit plan set for additional details.

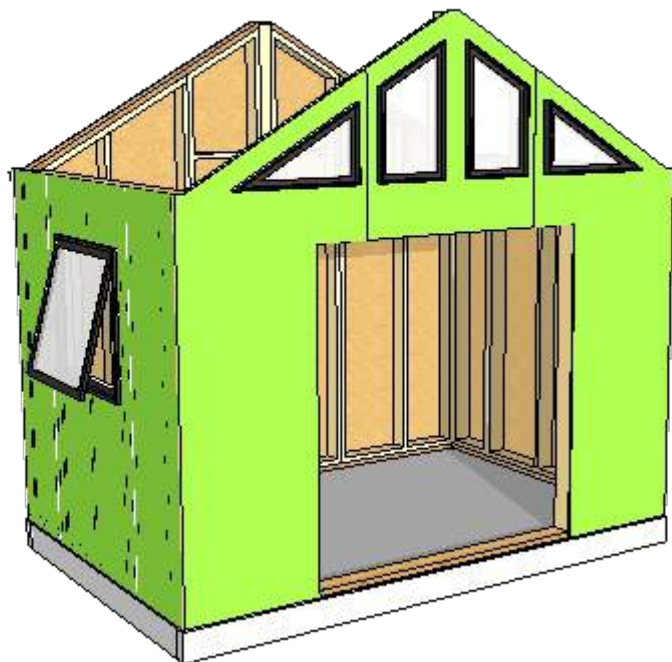
STAND AND LOOSE-FIT FRONT WALL PANEL:

- Use methods in Fig 5a-7a
- To aid pulling panels into alignment, clamp top plates to top of wall panels and sheathing

****END OF LVL TOP PLATES WILL BE PAINTED REDCOLOR MAY VARY (VERIFY LVL MATERIAL)****

****FRONT AND BACK TOP PLATES WILL OVERLAP SIDE WALLS****

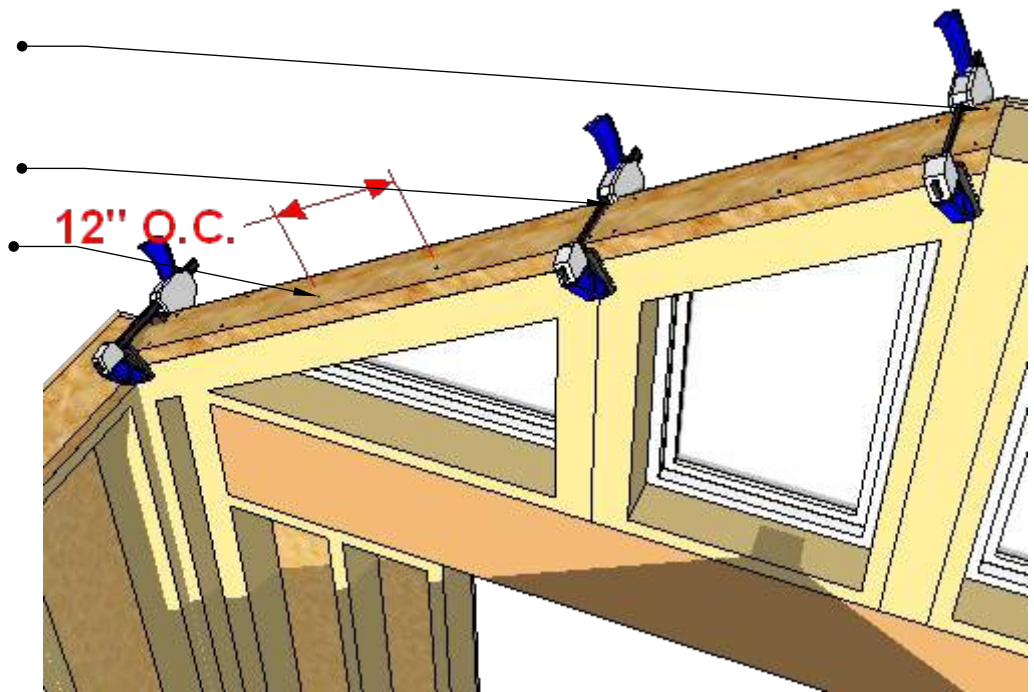
Fig 8b:



SECURE TOP PLATES:

- Use clamps at panel seams and end of plates to help facilitate connections
- Install four (4) 3" wood screws at the end of the top plates into the top of the wall panels, TYP all sides
- Install two (2) 3" screws on each side at wall panel intersections TYP all sides
- Install 3" wood screws, 12" apart on center within wall panels TYP all sides

Fig 9a:



****ENSURE TOP PLATE IS TIGHT TO KING POST****

****USE CAUTION USING SCREWS TO AVOID DAMAGE TO WINDOWS****

****TOP PLATE SEAMS SHOULD OVERLAP PANEL SEAMS BY 2' MIN WHENEVER POSSIBLE****

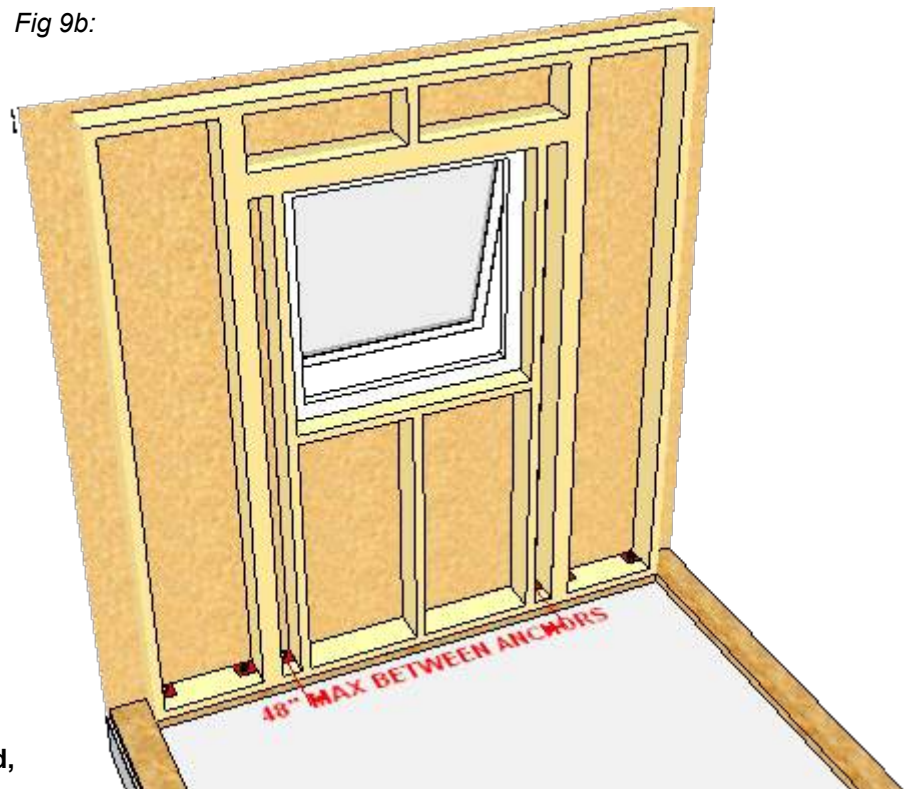
END OF LVL TOP PLATES WILL BE PAINTED RED COLOR MAY VARY (VERIFY LVL MATERIAL)

FRONT AND BACK TOP PLATES WILL OVERLAP SIDE WALLS

▲ Reference permit plan set for additional details

**FOR CONCRETE FLOOR:
ANCHOR WALL PANELS TO CONCRETE SLAB:**

Fig 9b:



- Wall panels need a minimum of two (2) anchors starting with one (1) at each end
- Additional anchors are needed if the spacing between the anchors exceeds 48"
- As close to wall panel ends as possible, within 6", drill through wall panel bottom plate and pressure treated sill plate using a power drill with 5/8" paddle bit
- Using rotary hammer drill with 1/2" Ø masonry bit, drill into the concrete floor 1/2" deeper than supplied bolts will be embedded
- Clean out hole using compressed air

SEE INSTRUCTIONS FOR SIMPSON TITEN BOLTS FOR MORE INFO*

▲ Reference permit plan set wall schedule for applicable projects If hold-downs are required, these count toward anchor spacing

Fig 10a:

**FOR CONCRETE FLOOR:
ANCHOR WALL PANELS TO CONCRETE
SLAB:**

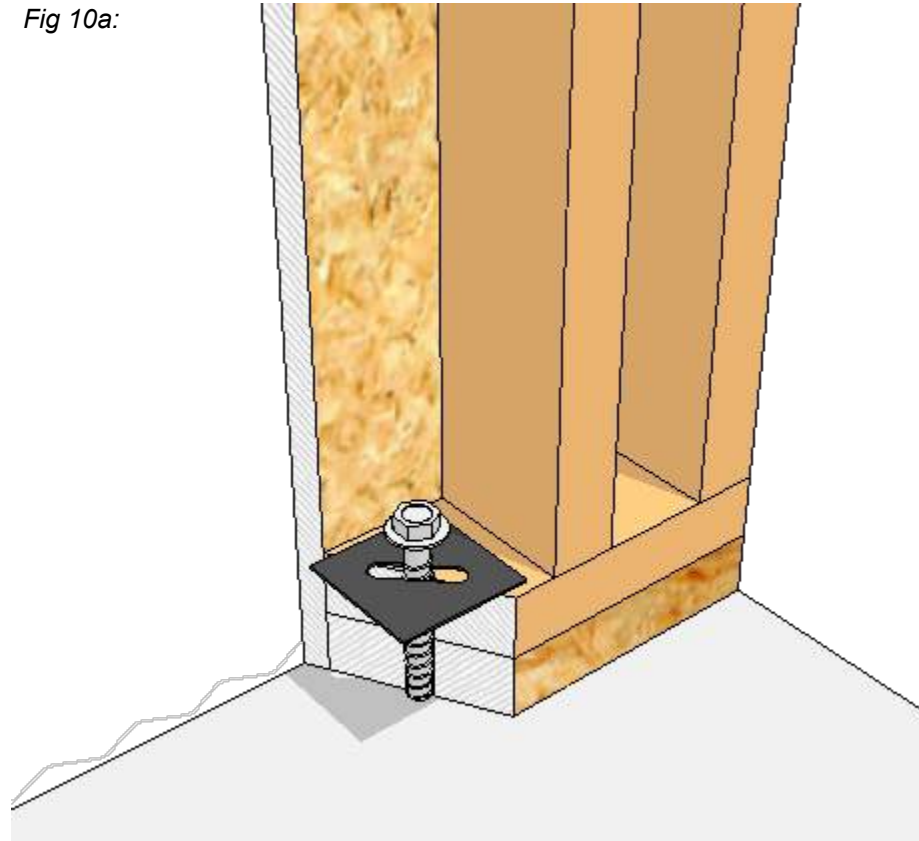
- At each hole install a Simpson strong-tie titen HD bolt and 3"x3" square plate washer or other anchor type that is provided by Studio Shed

- Follow Simpson manual for assembly for varying anchor types

FOR AREAS UNDER WINDOWS (AT VISTALITES), USE A PADDLE BIT TO DRILL A HOLE THROUGH WINDOW SILL TO CREATE A VERTICAL PATH OR NOTCH IN THE SILL TO ACCOMODATE THE BOLT

USE CAUTION AROUND WINDOWS

****DO NOT BLOW THROUGH EDGE OF FOUNDATION***



 Reference permit plan set for anchor type

**INSTALL FINAL 3" SCREW AT ALL WALL
PANEL CONNECTIONS:**

- Using a T25 torxbit, install 3" wood screws 12" apart on center to connect adjacent panels Start at bottom of panels and work toward top

- Initial tack screws can be included in 12" on center spacing

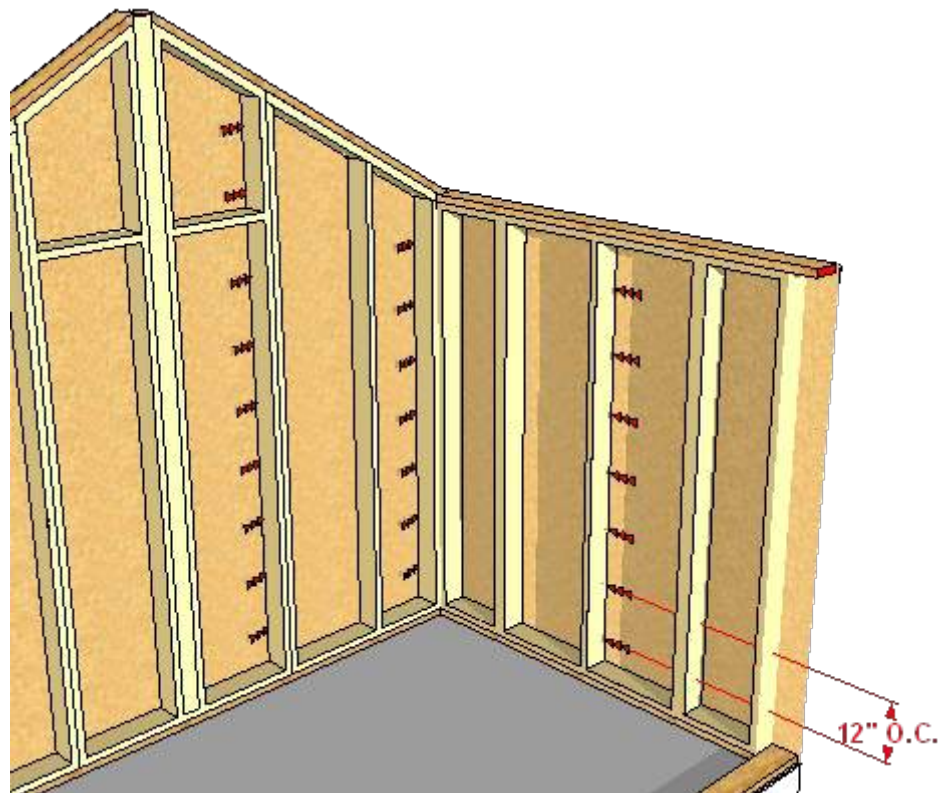
***DIFFERENT LENGTH WOOD SCREWS
WILL BE USED DEPENDING ON THE
NUMBER OF STUDS PRESENT AT THE
CONNECTION:**

If you are screwing **INTO 2 STUDS** use

#12 x 3" wood screws

If you are **SCREWING INTO THREE
STUDS OR MORE** use #12 x 4" (min) wood
screws

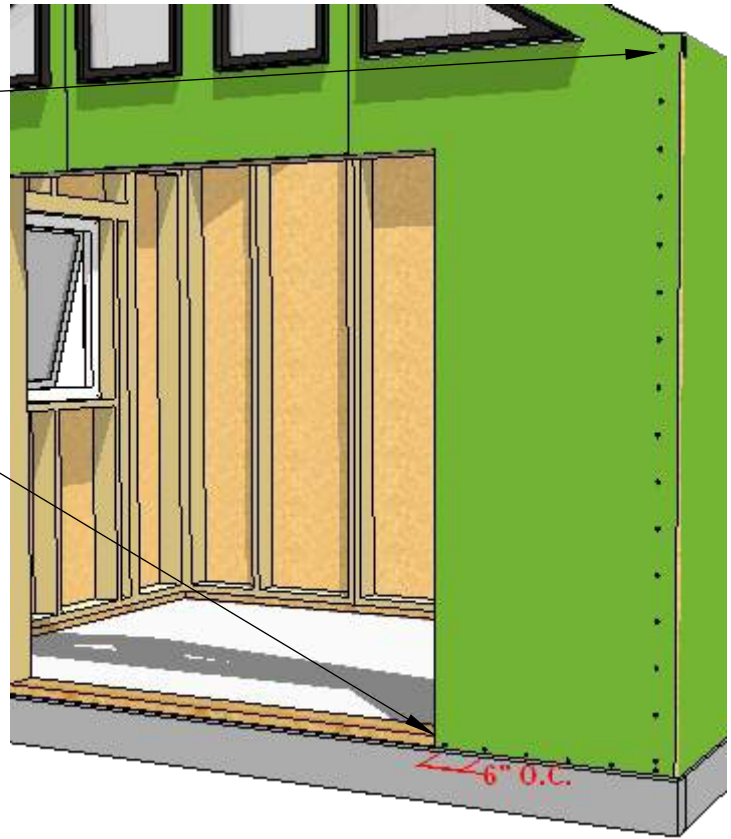
Fig 10b:



NAIL WALL SHEATHING INTO TOP PLATE, SILL PLATE AND CORNERS:

Fig 11a:

- At ~3/4" down from the top of the wall sheathing, install 2 3/8" ring shank nails 6" on center through wall sheathing into top plate
- At ~2" from side walls install 2 3/8" ring shank nails 6" on center vertically through wall sheathing into studs at front and back
- At ~3/4" up from the bottom of wall sheathing, install 2 3/8" ring shank nails 6" on center through wall sheathing into sill plate



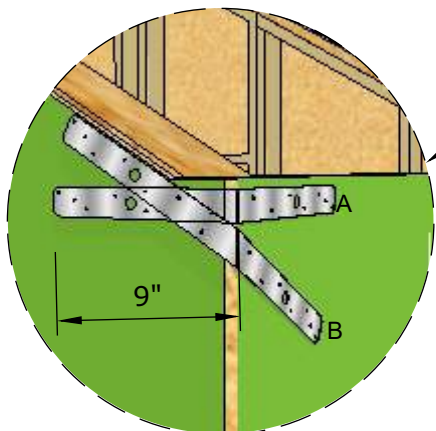
A PNEUMATIC FRAMING NAILER IS RECOMMENDED

 **Reference permit plan set wall schedule for required nail spacing (Shear Nail Inspection)**

INSTALL CORNER STRAPS:

Fig 11b:

- (A) Start at a back corner
- Install corner strap along gable top plate
- Begin 9" from corner (mid point of strap) and follow the top plate angle
- (B) Install the corner strap along the side wall top plate
- Begin 9" from corner (mid point of strap) and follow the top plate
- Repeat for remaining three corners of shed



WEATHERSEAL THE SHED:

- Use the supplied ZIP System sheathing tape

Fig 12a:

HUBER RECCOMENDS USING A ZIP SYSTEM TAPE ROLLER FOR WARRANTY TO COVER APPLICATION

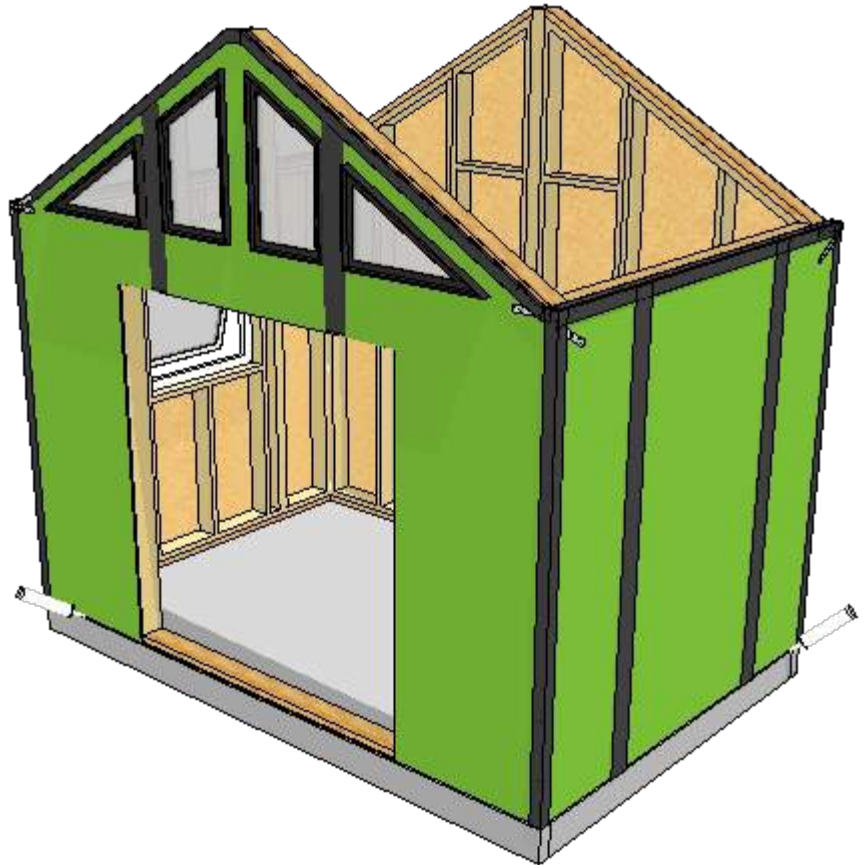
- Tape all vertical wall panel intersection seams (overlap equally)

ENSURE TAPE IS PRESSED SECURELY- NO AIR POCKETS

- Tape the seams between the top of the wall panels and the top plates by wrapping the tape over the top of the walls (overlap the tape equally)

FOR CONCRETE FOUNDATIONS:

- Cover any exposed screw holes or small damaged sections with tape
- Seal seam at base with liquid flashing

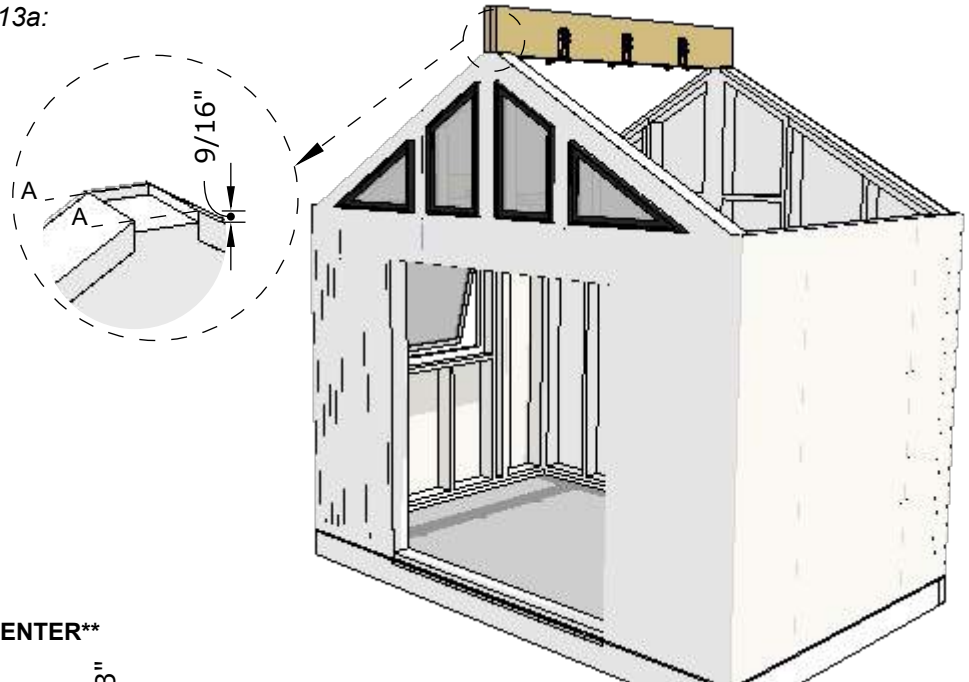


****FOR NEXT STEPS SEE ROOF assembly GUIDE****

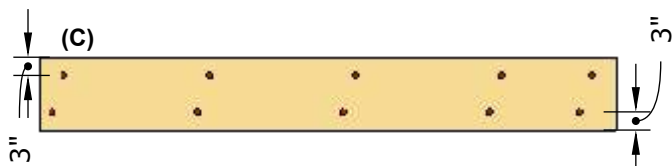
RIDGE BEAM:

Fig 13a:


- Snap chalk line at dimension called out in the assembly drawings
- Lift and place ridge beam boards on to the ridge peak. Verify chalk lines are in correct spots
- **(A)** The chalk lines should be in line with top of the top plates
- **(B)** Remove the ridge beam to install joist hangers
- **(C)** Use 12D nails to nail ridge beam boards with specified nailing pattern
- Lift into place ridge beams with attached hardware onto ridge peak

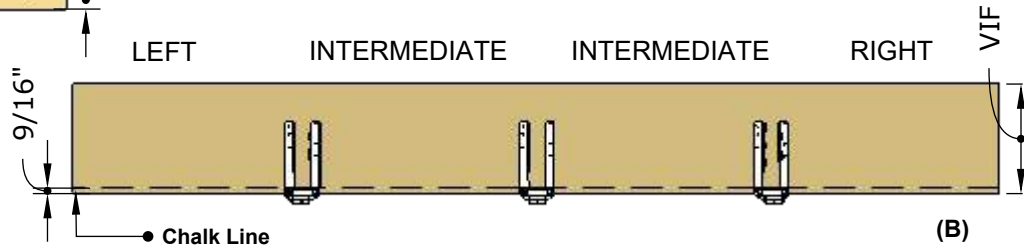


****12D NAIL PATTERN, NAILS ARE SET 2' ON CENTER****



****9/16" MEASUREMENT MAY VARY VERIFY IN FIELD****

 Reference project assembly drawings for ridge beam



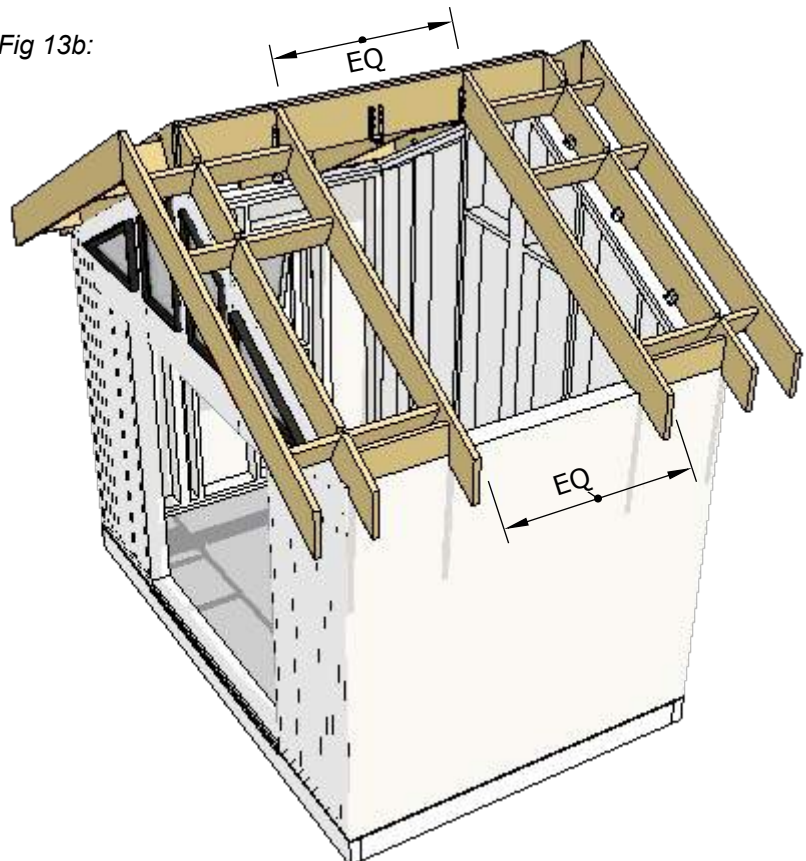
INSTALL PRE-BUILT RAFTER ASSEMBLIES:

- Lift into place the pre-built rafter assemblies
- Ensure rafter assemblies are square to the shed and to each other

BLOCKING MAY NOT BE FULL DEPTH ON RAFTER

- Toe screw rafters using 3" screws Be aware of where screws are going to ensure they do not poke through framing

Fig 13b:



 Reference project assembly drawings

INSTALL INTERMEDIATE RAFTERS AND BLOCKING:

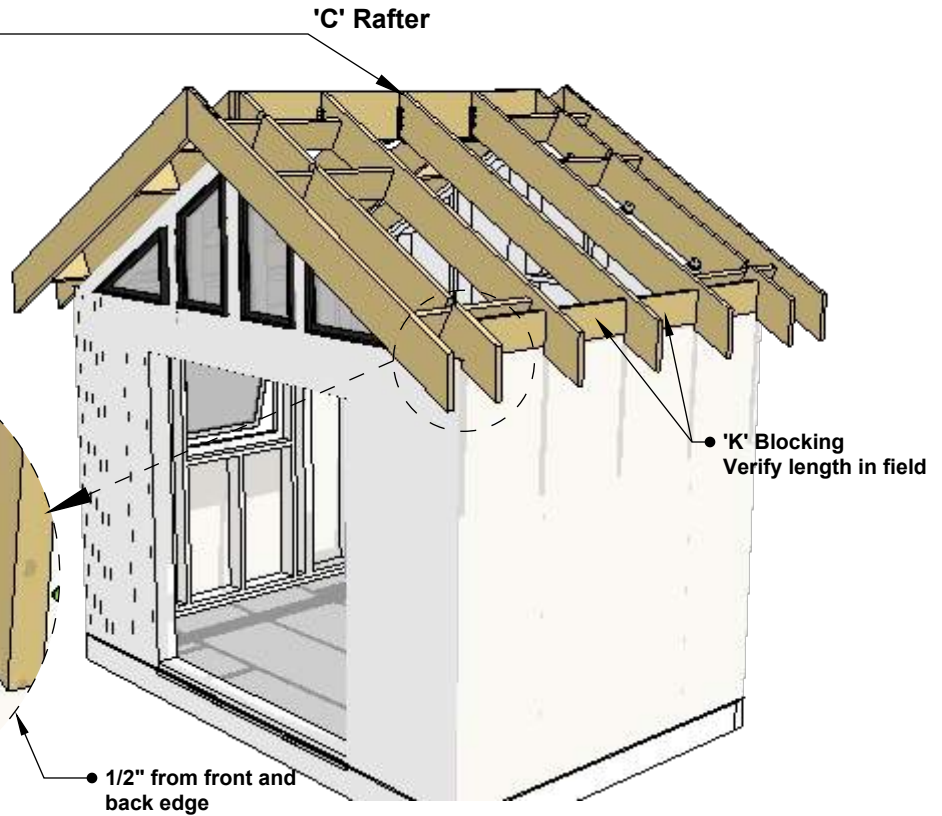
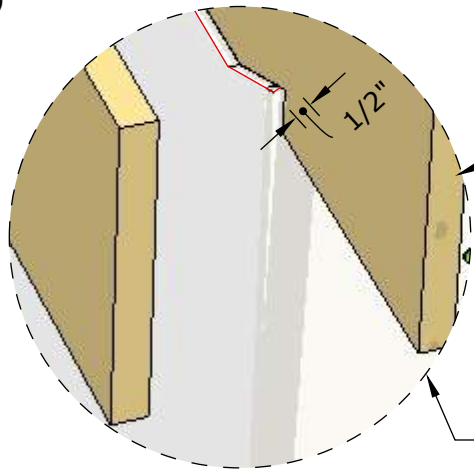
Fig 14a:

(1) Lift into place 'C' rafter

- Align face of pre-cut rafter and intermediate blocking to be flush with outside face of rake wall sheathing

- For vented assembly, outriggers will not be flush with top of rafters

(2) Lift into place the intermediate blocking (typ 'K' blocking)



Reference project assembly drawings.

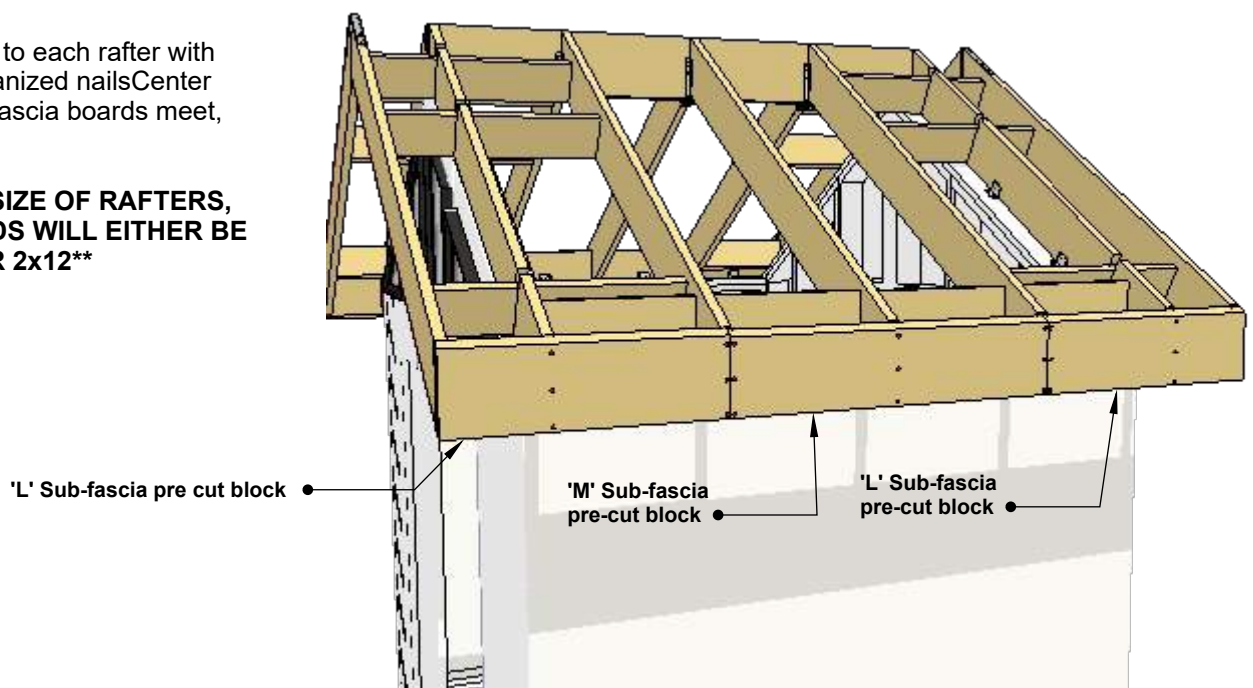
SUB-FASCIA:

Fig 14b:

- Install left and right sub-fascia blocking ('L' and 'M' pre-cut blocks)

- Nail sub-fascia board to each rafter with three (3) 10d x 3" galvanized nails Center butt joints, where sub-fascia boards meet, on a rafter

****DEPENDING ON SIZE OF RAFTERS, SUB-FASCIA BOARDS WILL EITHER BE 2x10 OR 2x12****

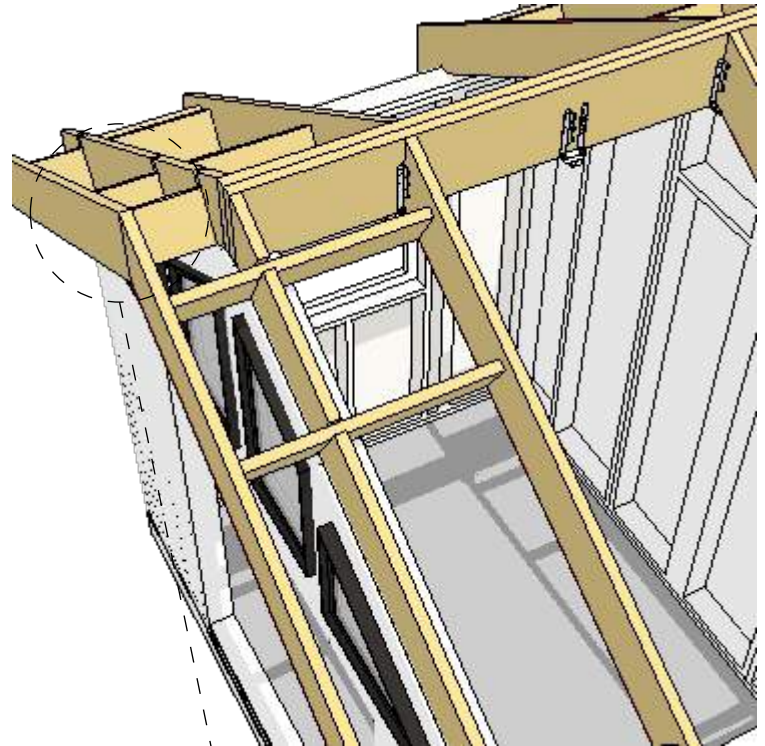


Reference project assembly drawings.

INSTALL MSTA24 STRAPS:

Fig 15a:

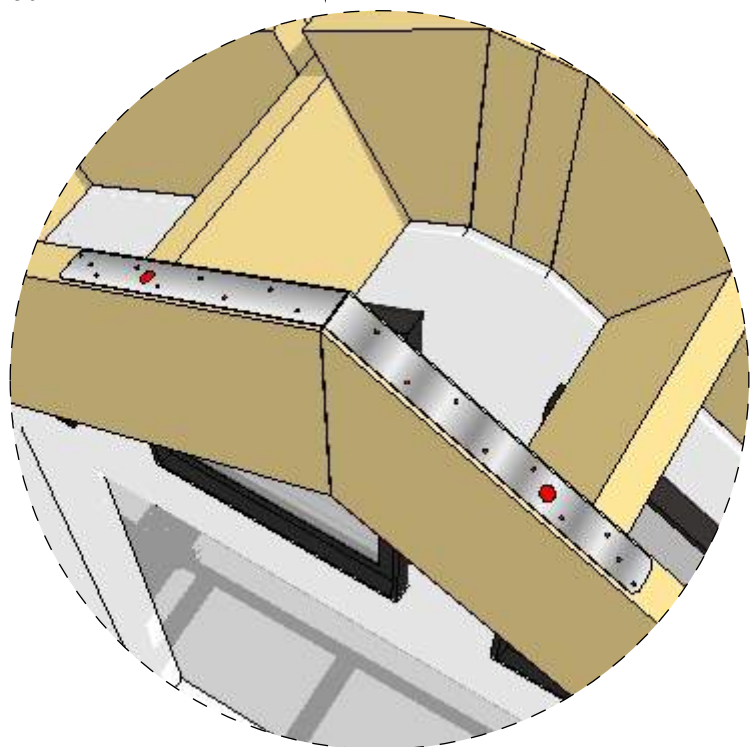
- Locate the (2) MSTA24 straps to be used on the front gable of the rafters
 - Shipped in the hardware box
- Align one MSTA24 strap on center of B blocking at the front and back of the shed
- Once MSTA24 strap is aligned at the front and back gable peak secure the straps using nails and bolts



INSTALL MSTA24 STRAPS:

Fig 15b:

- Secure the MSTA24 strap with (18) nails at each 1/8" diameter holes
- Secure the MSTA24 strap with (2) bolts at the 1/2" diameter holes
- If fascia boards don't meet, fill gap with shim(s), then proceed with installing MSTA24 strap



CHECK ROOF ASSEMBLY FOR SQUARE!!

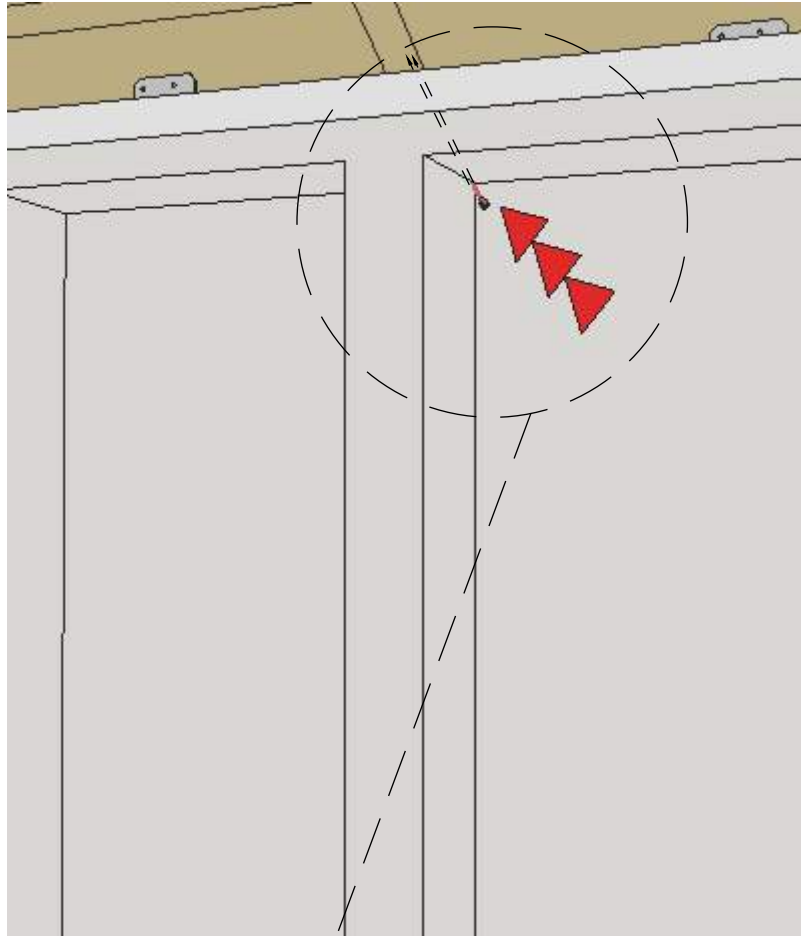
- Use a tape measure to check for square by measuring from opposite inside corners of the sill plate reference lines
- The measurements should be equal
- If unequal, make any adjustments to make sure edge distance and squareness are correct

INSTALL 6" RAFTER TIE SCREWS AT ALL LOCATIONS WHERE RAFTER OR OUTRIGGER IS PERPENDICULAR TO TOP PLATE

- When installing timberlok screws above headers use right angle adapter for drill

****PRE-DRILL HOLE FOR RAFTER TIE SCREWS****

Fig 16a:



INSTALLING RAFTER TIE SCREWS:

- Use the provided metal guide to install the Timberlok screw at the optimal angle of 30 degrees at center of rafter using metal assembly guide tool

MAY NEED TO MODIFY GUIDE TO BE 30 DEGREES

- Follow Simpson install video for assembly without a guide

Fig 16b:

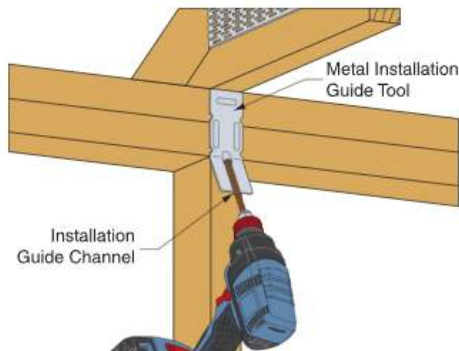
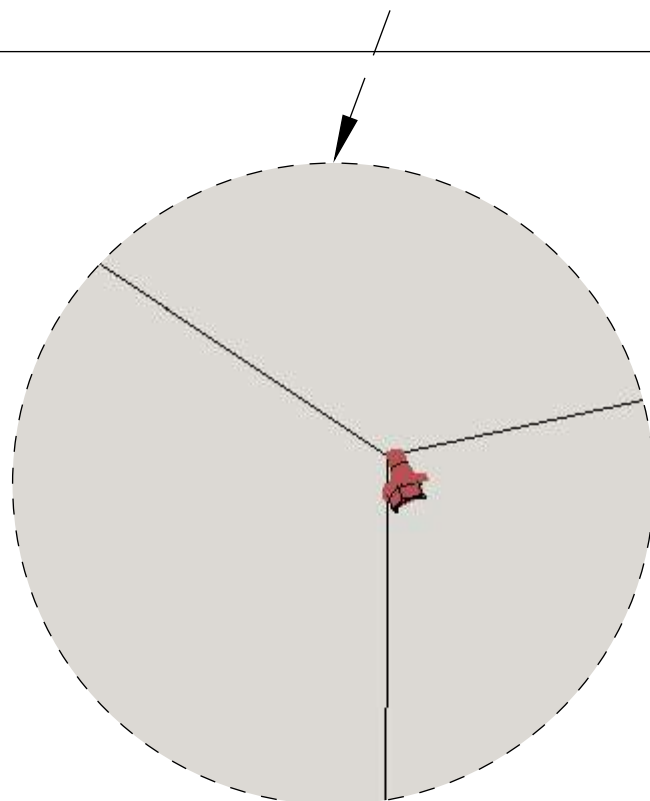


Fig 17a:

INSTALL ROOF SHEATHING:

- Begin sheathing at the front low side of shed
- Install the roof sheathing by starting 3/8" up from the outside face of the fascia board. This will ensure the metal trim will be able to sit flat against the fascia
- Sheathing should be fastened with 8d ring shank nails
- Use 8d x 2 1/2" nails 6" on center

****BE AWARE OF WHERE NAILS ARE GOING TO ENSURE NAILS DO NO POKE THROUGH FRAMING****

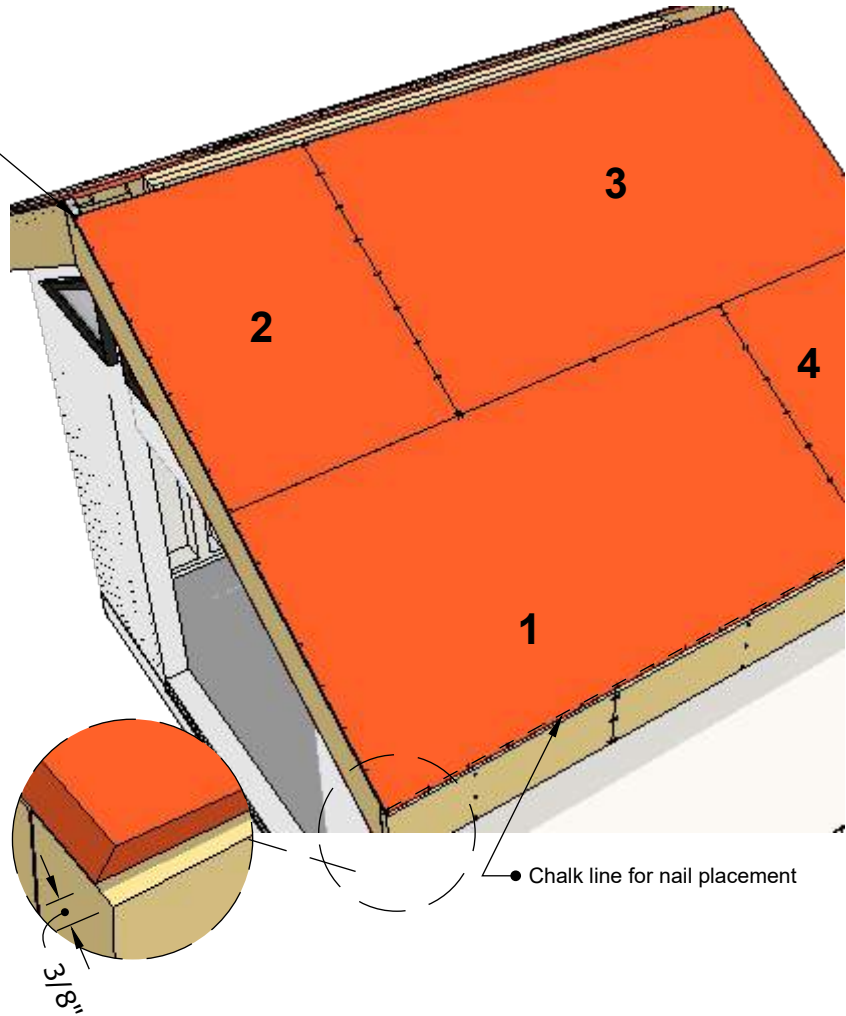
- Start along short edge to maintain leverage when aligning the edge of the sheathing to the edge of the sub-fascia

****SECURE WITH MINIMAL FASTENERS IN CASE OF MINOR ADJUSTMENTS****

****IF SHEATHING IS OVERHANGING TRIM FLUSH TO RAFTERS USING CIRCULAR SAW****



Reference project assembly drawings for sheathing layout



INSTALL ZIP SYSTEM OSB ROOF SHEATHING:

Fig 17b:

- Field nail sheathing to rafters using 8d x 2 1/2" nails 12" on center along rafters

****IN HIGH WIND REGIONS NAIL SPACING MAY BE TIGHTENED UP TO 6" ON CENTER****

- Snap chalk lines centered on all framing members for nailing lines
- Nail sheathing to rafters using 8d ring shank nails 6" on center at blocking, edges of sheets, and over eaves

****BE AWARE OF WHERE NAILS ARE GOING TO ENSURE NAILS DO NOT POKE THROUGH FRAMING****



Reference project assembly drawings

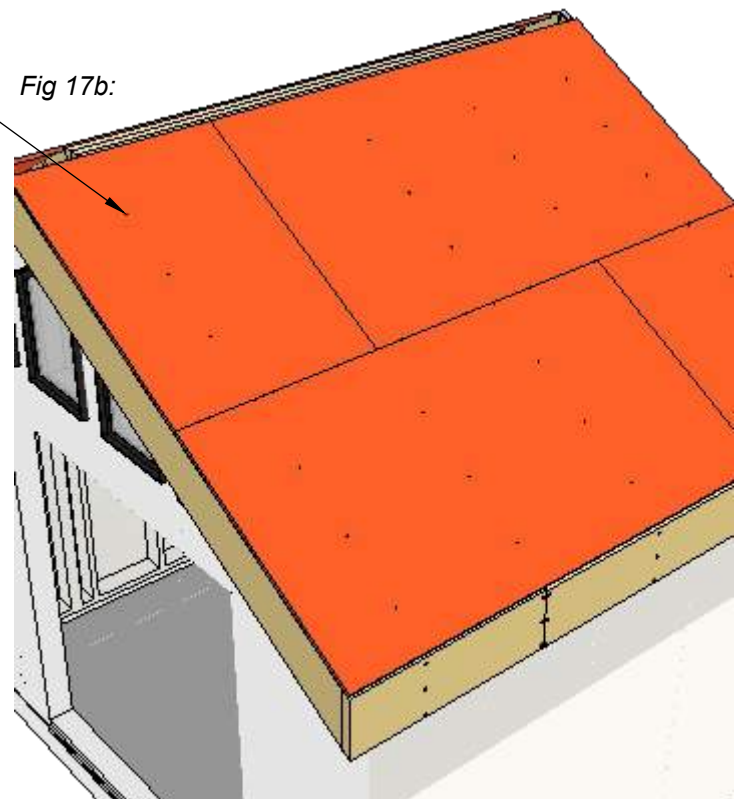
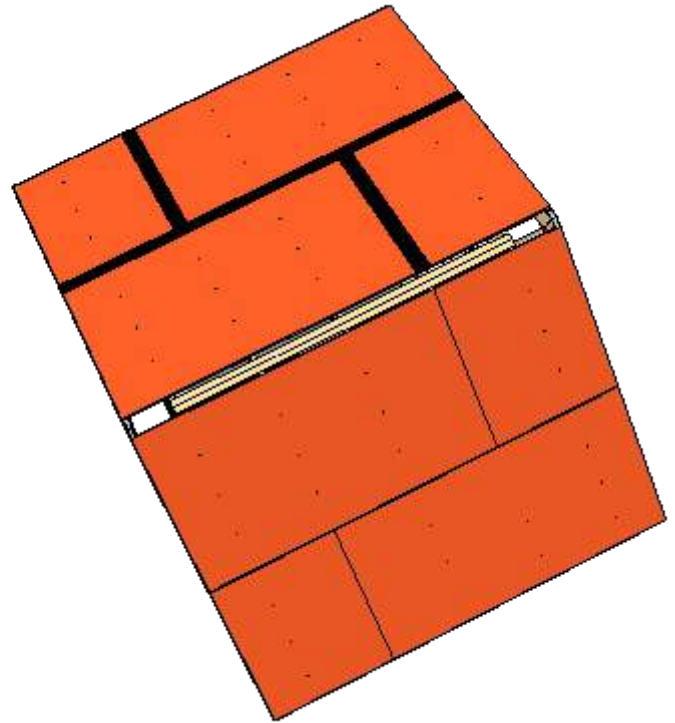


Fig 18a:

APPLY ZIP TAPE TO SHEATHING:

- Use the provided ZIP tape in order to seal and water proof the roof sheathing
- Center ZIP tape on center of the seams of conjoining sheathing pieces
- Ensure ZIP tape is applied in a smooth and flush fashion, the tape should create a strong bond between ZIP tape and roof sheathing



INSTALL KWIK MESH:

- Install KWIK Mesh utility screen over the ridge vent. Overlap sides equally
- Fasten to roof using a pneumatic stapler every 12"

Fig 18b:

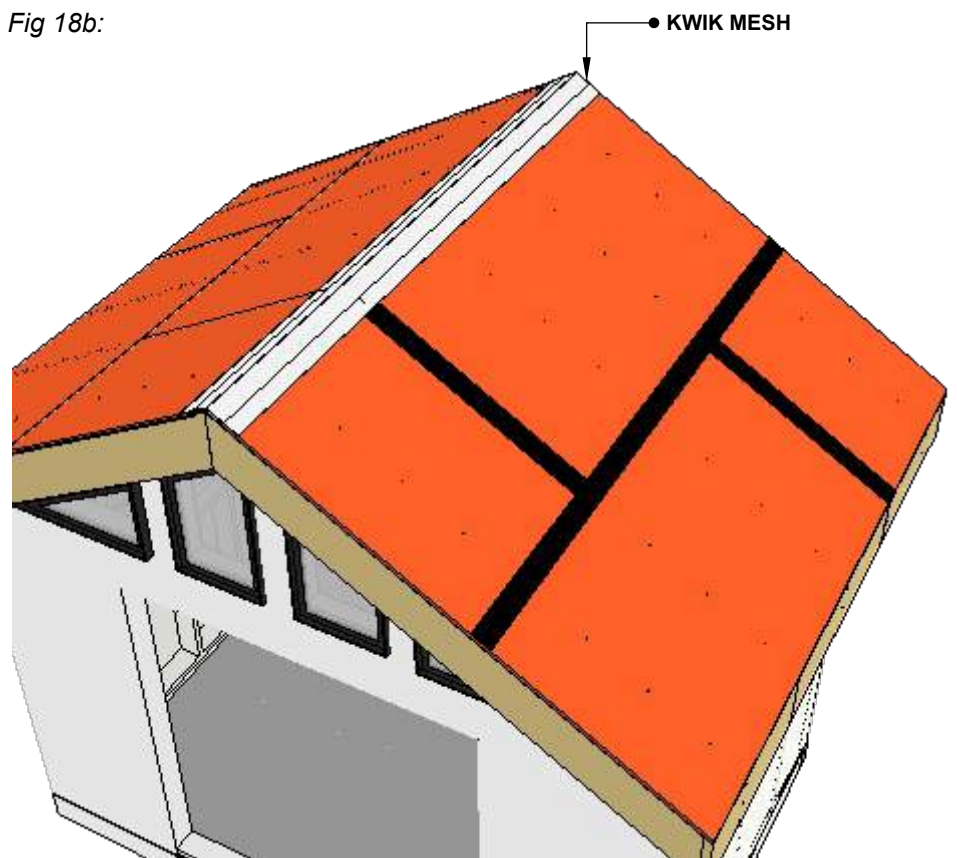


Fig 19a:

INSTALL SOFFIT:

- Start at the front and back and install the non-vented soffit panels
- Ensure panels are square prior to nailing it to the roof
- Align soffit from outside edge of floating rafter
- Use galvanized 8d 2 3/8 exterior ring shanks at 8" on center

****NAIL HEAD FLUSH WITH SURFACE, NOT DEEPER****

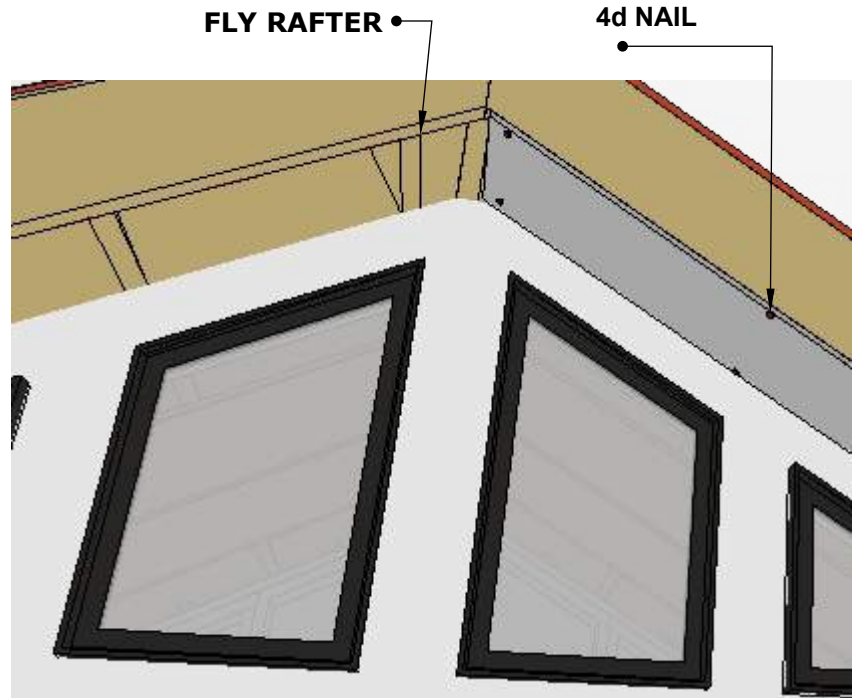
****INSTALL NAILS MINIMUM 2" FROM PANEL CORNERS****

****INSTALL NAILS 3/8" IN FROM THE EDGE OF THE PANEL****

****CAULK ALL SEAMS WITH AN EXTERIOR RATED PAINTABLE AND TOUCH-UP PAINT AS REQUIRED****



Reference project assembly drawings

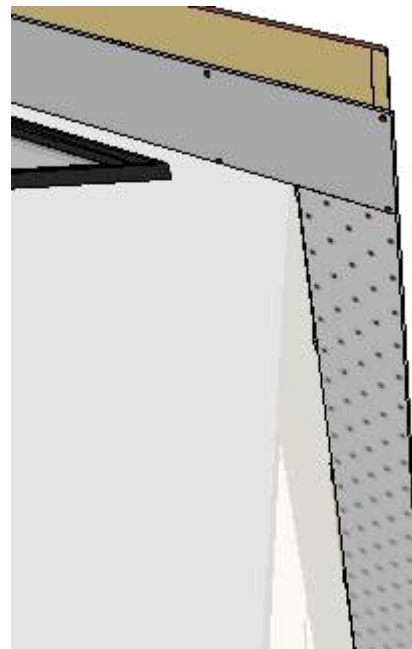


INSTALL VENTED SOFFIT IF NEEDED:

- Install vented soffit panels on sides between gable end rafters
- Caulk all seams with an exterior rated paintable caulk

****FOLLOW NAILING PATTERN DESCRIBED DURING FIG 19A****

Fig 19b:

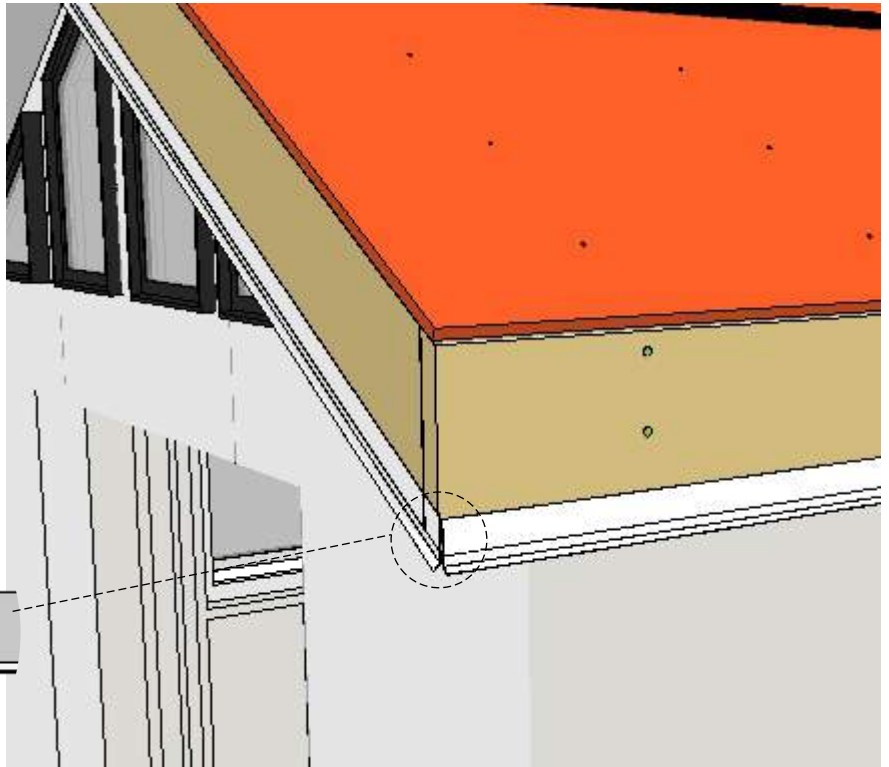


Reference project assembly drawings, for Soffit panel layout

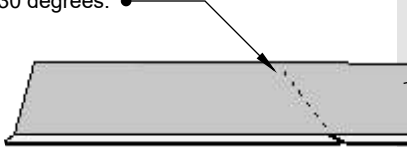
INSTALL METAL PROFILE 'S' (FASCIA DRIP EDGE):

- Measure and plan cuts for drip edges
- Start at an inconspicuous corner, align angle in drip flange with lowest edge of soffit or venting profile
- Use a pneumatic stapler to staple the long leg of 'S' profile to outer face of sub-fascia board along with low sides
- Cut other 'S' profile to fit gabled edge
- Cut ends of trims to match angle of roof

Fig 20a:



Cut drip edge to angle of rafter, 30 degrees.



INSTALL HARDIE FASCIA:

- Start at a back corner and work your way to the opposite side
- Review the Hardie Lap siding guide for more info
- Install using 8d nails 1" from top edge at 12" on center
- At corner and seams install a finish nail 3/4" from each corner of the board

Fig 20b:



****IN HIGH WIND REGIONS INSTALL FINISH NAILS 12" ON CENTER 1" FROM BOTTOM EDGE IN ADDITION TO PREVIOUS NAILING PATTERNS****

****DO NOT OVERDRIVE NAILS****

STOP!

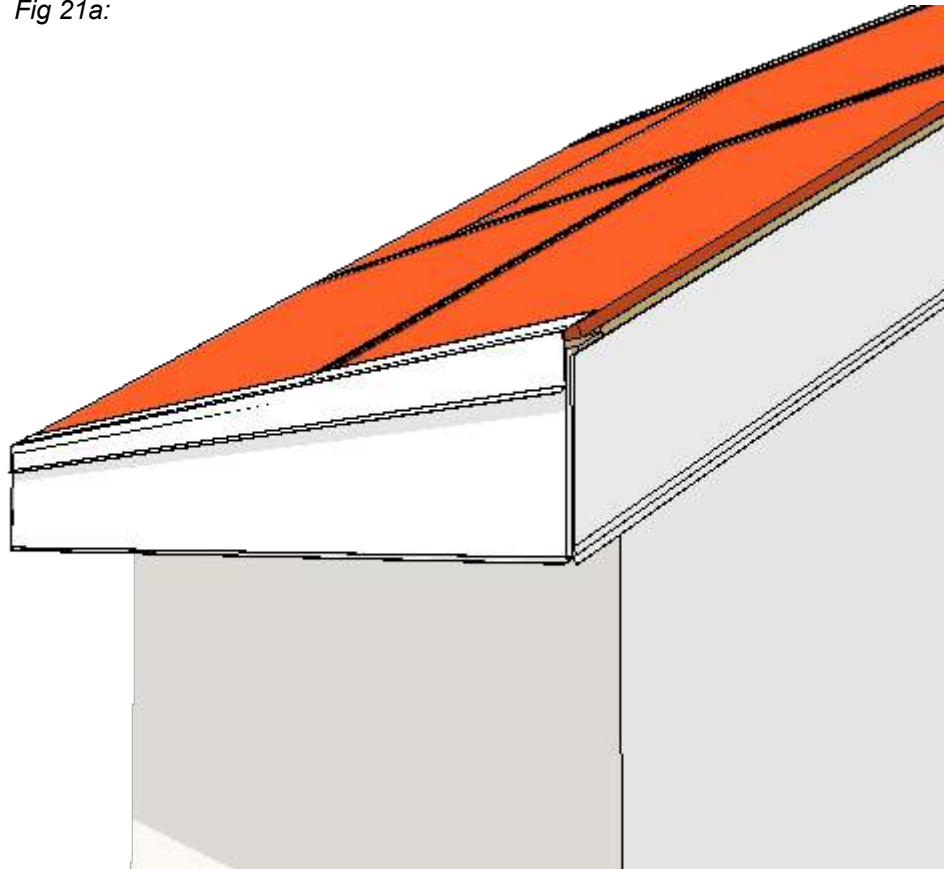
Fig 21a:

PLEASE CONFIRM WHICH ROOF PACKAGE YOU HAVE!

IF IT'S OUR STANDARD PRODUCT, PLEASE CONTINUE READING BELOW

INSTALL METAL PROFILE 'P' (SIDE ROOF DRIP EDGE):

- Place one piece of drip edge on top of the roof sheathing
- The short length will be on top
- Use a pneumatic stapler to staple the top of drip edge to the roof sheathing
- Space staples 6" - 12" on center
- Add additional pieces as needed and overlap existing pieces by 3"



Reference permit plan set for applicable projects.

****Continue to next page to install corrugated roof metal roofing****

INSTALL CORRUGATED METAL ROOFING:

Fig 22a:

- Multiple rows of metal may need to be used to cover the roof, ensure longest pieces of corrugated metal are on bottom rows Plan ahead to ensure similar lengths of corrugated metal share the same row

****DO NOT OVERTIGHTEN THE SCREWS! THIS WILL CAUSE DAMAGE TO THE NEOPRENE WASHER****

- Place a piece of corrugated metal at bottom corner on the roof, overhanging drip edge ('S' profile) by 1" and work your way to the opposite side to create the first row

- Ensure the panel is square to the roof prior to installing fasteners

- Install screws starting at 1 1/2" on center from the bottom edge of corrugated metal Install one (1) 1 1/2" neoprene washer screw in the first corrugated metal valley, and one (1) 1 1/2" neoprene washer screw every four valleys refer to figure 22b

- Overlap corresponding panels two peaks (refer to figure 23b)

****DO NOT USE ANY FASTENERS OTHER THAN THE ROOF SCREWS WITH NEOPRENE WASHERS PROVIDED BY STUDIO SHED****

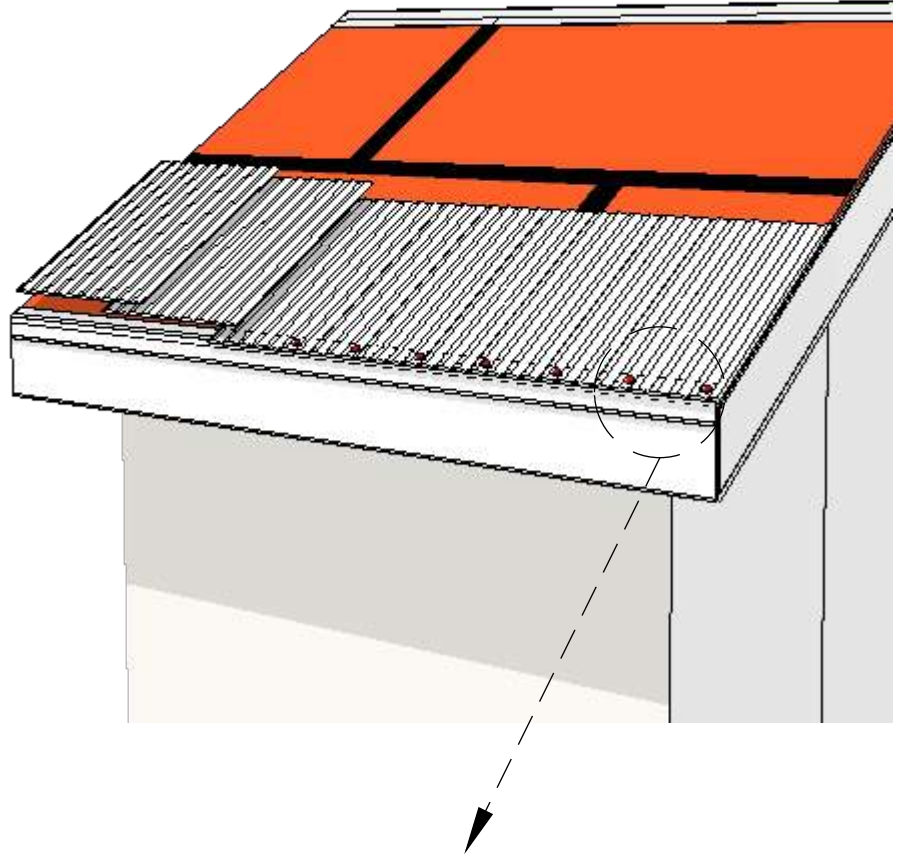


Fig 22b:

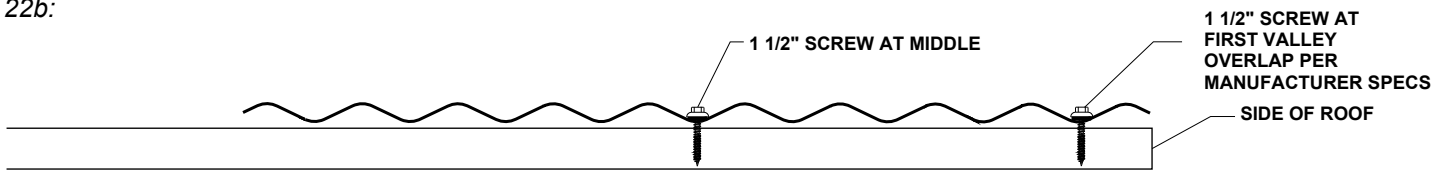
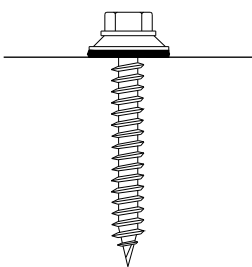


Fig 22c:

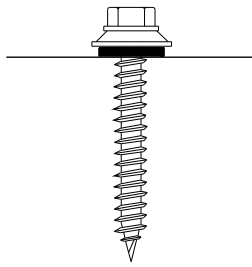
***DO NOT OVERTIGHTEN SCREWS!**

CORRECT



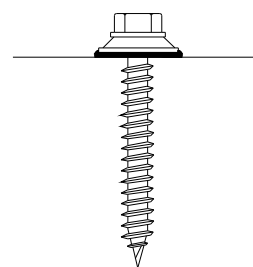
SEALING MATERIAL SLIGHTLY VISIBLE AT EDGE OF WASHER. ASSEMBLY IS WATER TIGHT.

TOO LOOSE!



SEALING MATERIAL IS NOT VISIBLE; NOT ENOUGH COMPRESSION TO SEAL.

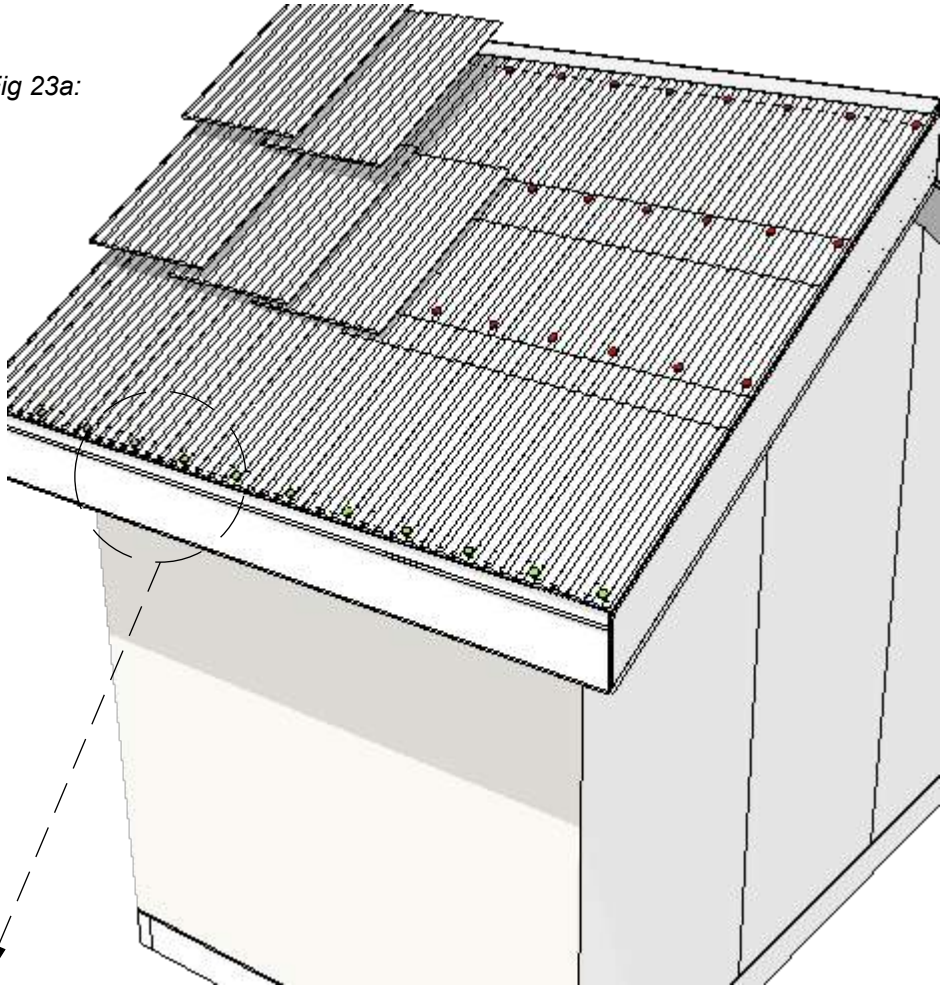
TOO TIGHT!



WASHER IS DEFORMED; SEALING MATERIAL PRESSED BEYOND FASTENER EDGE.

INSTALL CORRUGATED METAL ROOFING:

Fig 23a:



- Using an impact driver and the provided #10 x 1 1/2" neoprene washer screws, install (1) screw 1/2" from back edge, then install (1) screw every 4 valleys (~12") along the bottom edge. Be sure to install screws in the valleys where panels overlap.

- Add the next row by following the methods above, aligning metal to the front edge. Install one row of screws into the front edge. Each row must overlap previous rows by at least 6".

****DO NOT USE ANY FASTENERS OTHER THAN THE ROOF SCREWS WITH NEOPRENE WASHERS PROVIDED BY STUDIO SHED****

****DO NOT COVER RIDGE VENT STOP METAL APPROX 1 1/2" FROM TOP EDGE OF SHEATHING****

- Install 1 1/2" neoprene washer screws along top edge of final row as described on page 22.

- Screws in green have already been installed.

Fig 23b:

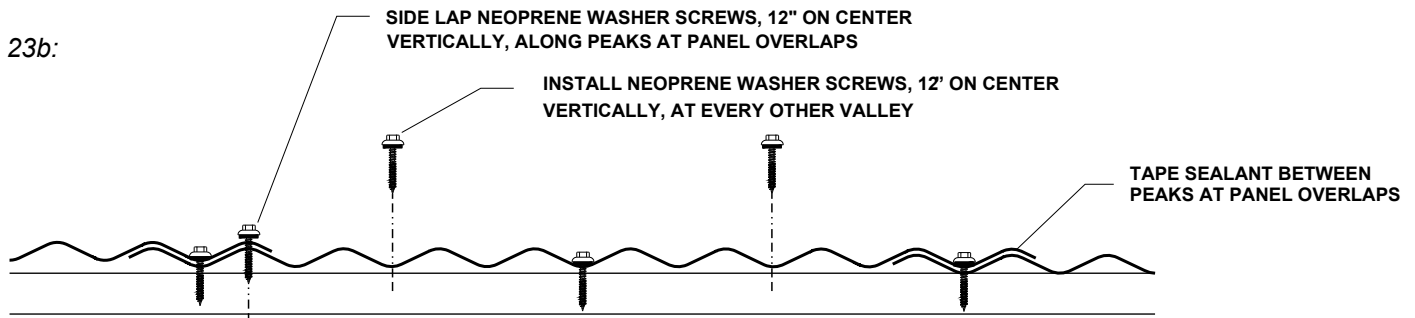
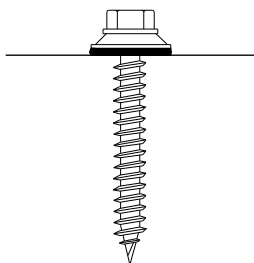


Fig 23c:

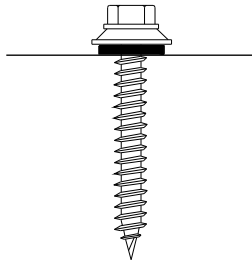
***DO NOT OVERTIGHTEN SCREWS!**

CORRECT



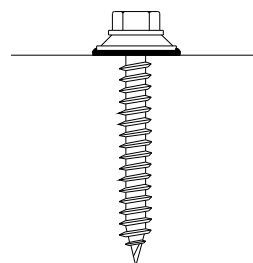
SEALING MATERIAL SLIGHTLY VISIBLE AT EDGE OF WASHER. ASSEMBLY IS WATER TIGHT.

TOO LOOSE!



SEALING MATERIAL IS NOT VISIBLE; NOT ENOUGH COMPRESSION TO SEAL.

TOO TIGHT!



WASHER IS DEFORMED; SEALING MATERIAL PRESSED BEYOND FASTENER EDGE.

ONCE ALL PANELS ARE IN PLACE:

- Install rows of #10 x 1 1/2" neoprene washer screws 30" on center
- Measure from the lowest row of fasteners installed earlier, reference Fig 20b
- Follow the same pattern as previously described
- Use a chalk line to ensure straight rows

****TIGHTEN UP SPACING TO 24" ON CENTER IN AREAS WHERE THE ULTIMATE DESIGN WIND SPEED, VULT, EXCEEDS 110 MPH****

- Screws in green have already been installed


 **Reference permit plan set for applicable projects Local building codes may require tighter spacing**

Fig 24a:

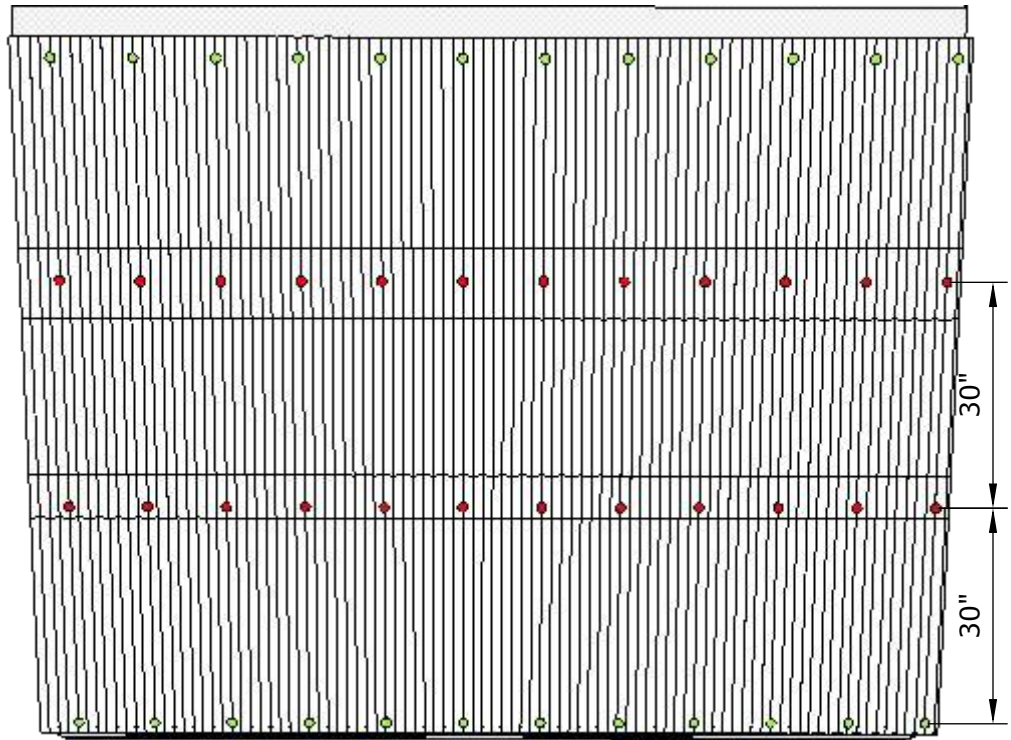
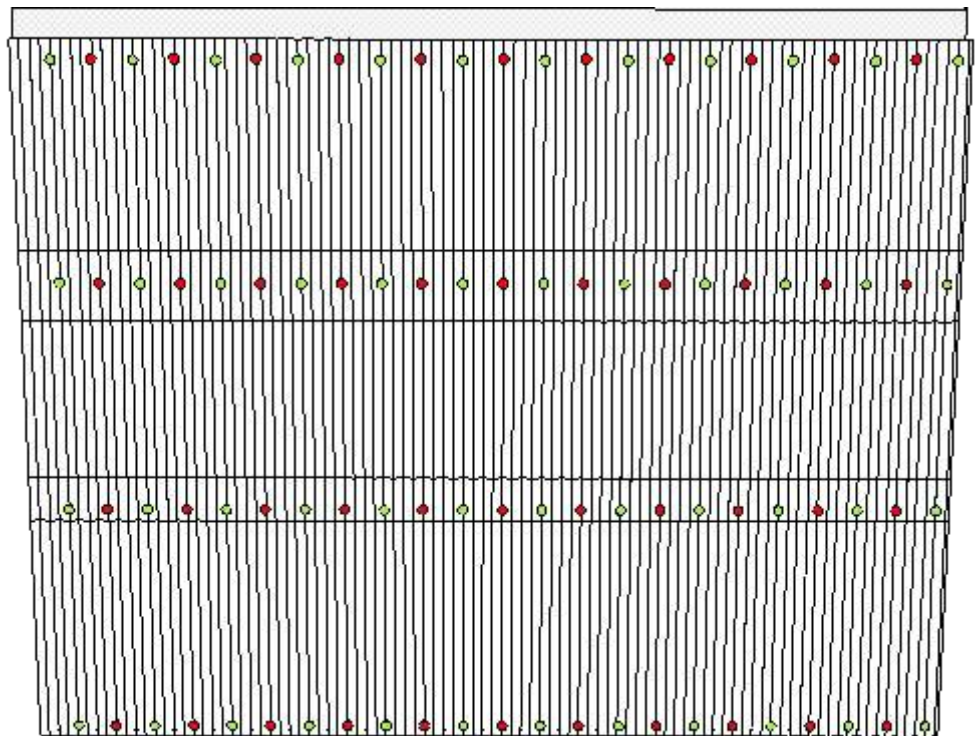


Fig 24b:

- Install #10 x 1 1/2 neoprene washer screws at every other valley
- Screws in green have already been installed

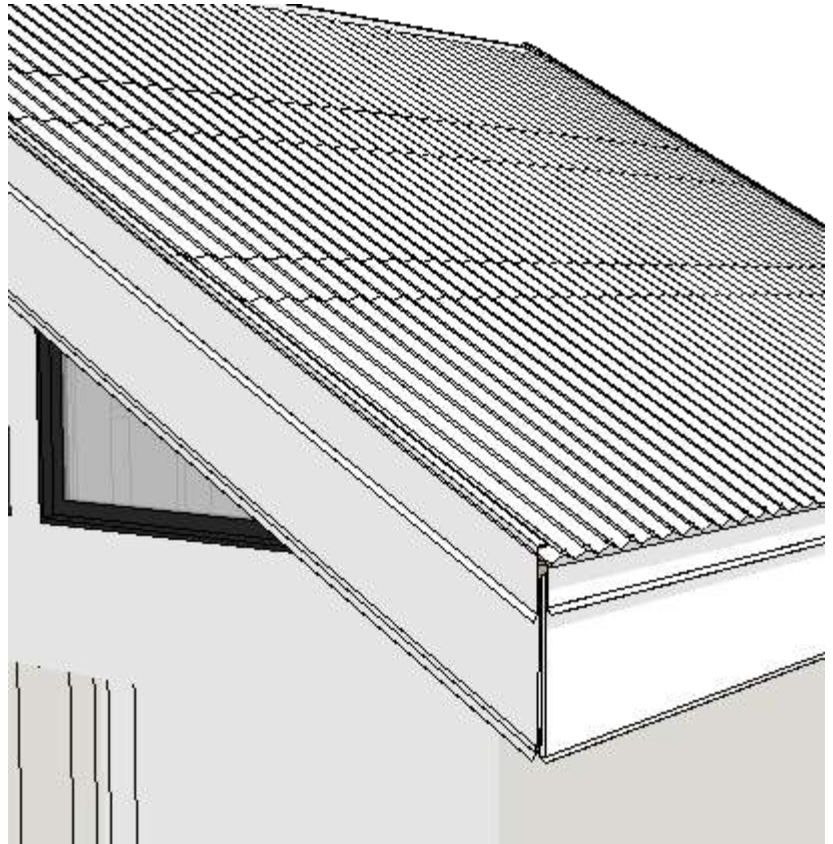


INSTALL THE METAL PROFILE 'A' (ROOF DRIP EDGE) ALONG SIDES AND FRONT OF SHED:

- Measure from peak to side drip edge (P) cut each end of trim profile "A", to fit angle of roof line
- Install 'A' profile tight to roof metal and fascia Use #10 x 1 1/2" screws to stitch top flange to a peak of roof metal starting at low side, then again at ~24" from high side
- Add roofing screws to the 'A' profiles into ridges of the roof metal at 18" on center, leave 3" for overlap
- Place final 'A' profile(s) on front and back Install screws into ridges of roof metal at overlaps
- Drip edge corners should meet flush at peak fascia

****DO NOT INSTALL SCREWS WITHIN 3" OF FRONT END FOR OVERLAPS****

Fig 25a:



INSTALL THE METAL PROFILE 'Q' (ROOF DRIP CAP) ALONG TOP RIDGE OF SHED:

- Place trim profile 'Q' (roof ridge cap) on top of the corrugated metal roofing over the ridge vent Each leg of the of the ridge cap should over lap the sides equally
- Overlap metal 3" if multiple sections are used
- Secure the trim to the roof by using 1" Neoprene washer screws in peaks

****DO NOT OVERTIGHTEN THE SCREWS! THIS WILL CAUSE DAMAGE TO THE NEOPRENE WASHER****

Fig 25b:

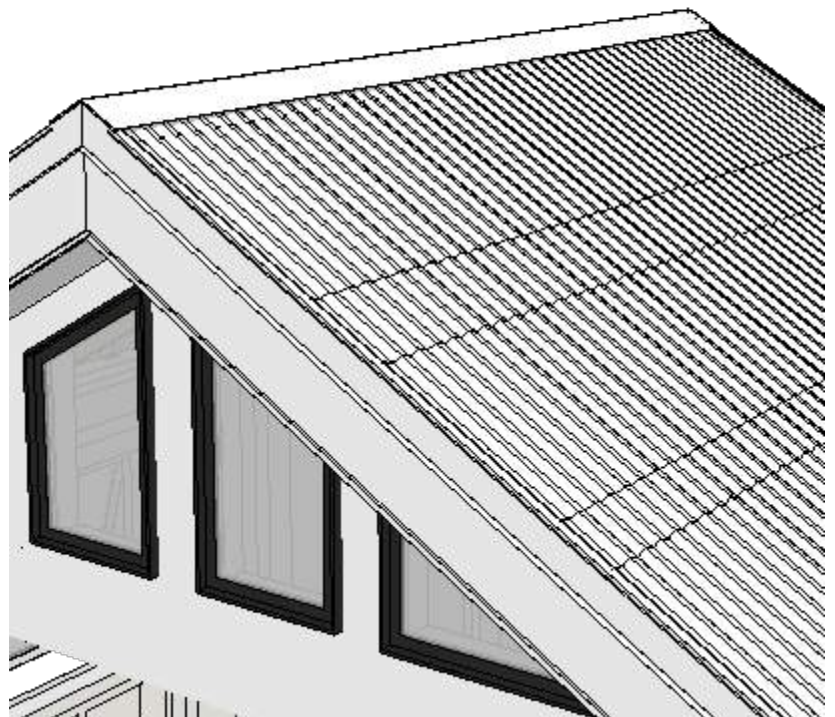
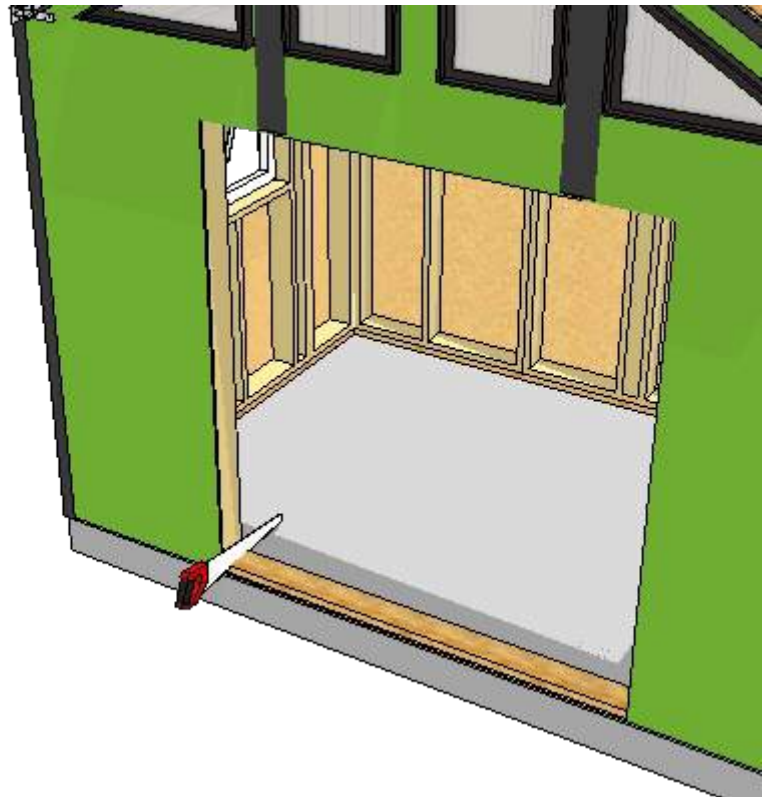


Fig 26a:

CUT SILL PLATE AT DOOR OPENING:

- Cut sill plate flush with studs at either side of door opening.



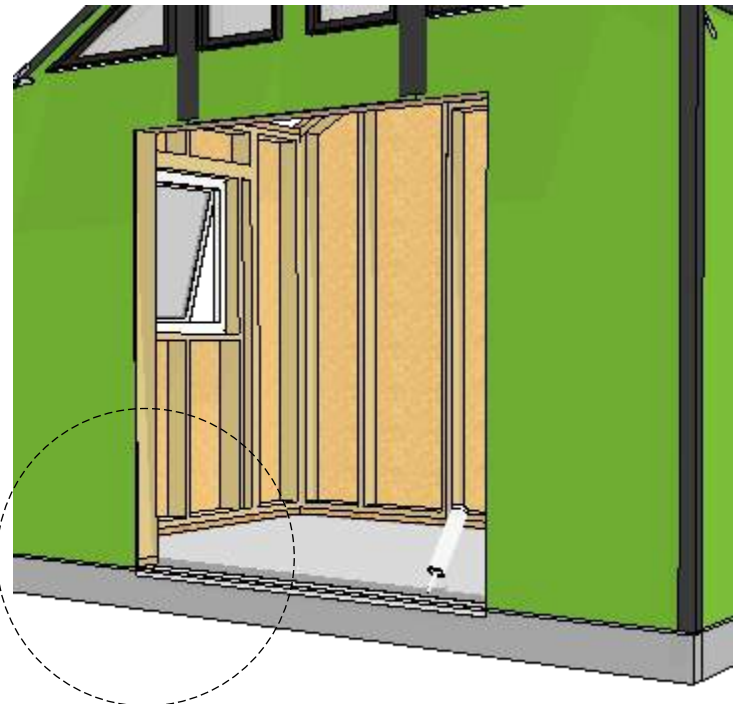
INSTALL DOOR PAN (PROFILE "K"):

- Adhere pan to the base of shed by applying four generous beads of silicone lengthwise along metal the metal The short leg will be vertical

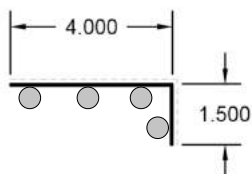
INSTALL DOOR:

- Follow door manufacturer's instructions for assembly

Fig 26b:



K SIGNATURE & SUMMIT DOOR THRESHOLD



ABOVE IN GREY