START RAFTERS:

- Lift and place rafters.

- Position the rafters 1'-11 1/8" from the face of the side wall exterior sheathing

For 2x10 Fir rafters, position the rafter 1'-11 1/4" from the face of the side wall exterior sheathing

- Position the rafters 1'-10 1/2" from the face of the front wall exterior sheathing

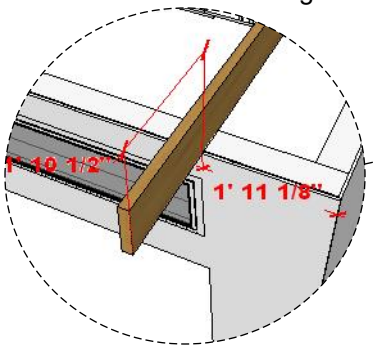
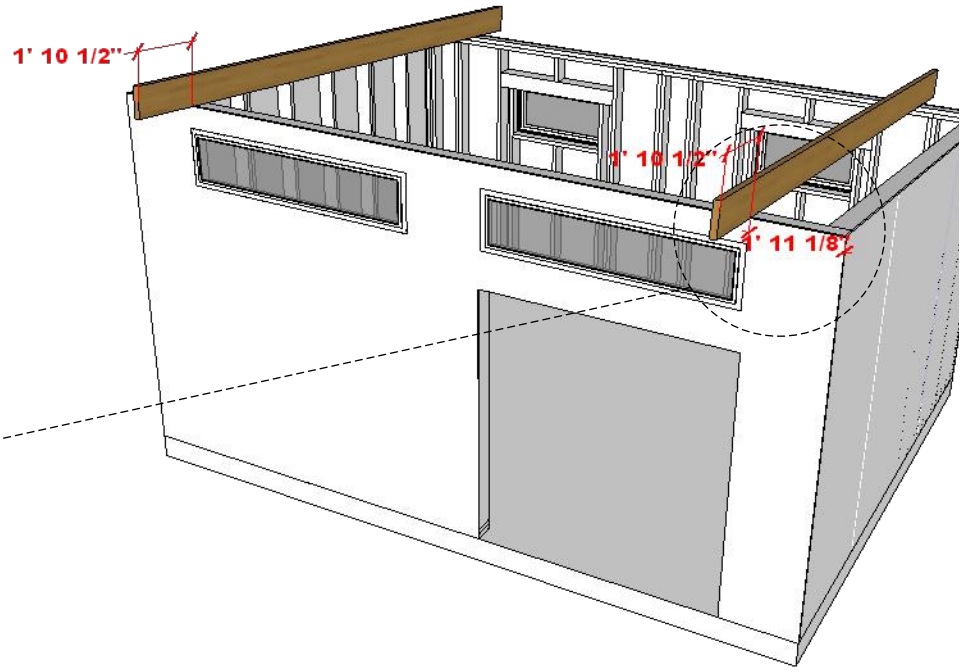


Fig 12a:



Reference project installation drawings for rafter assembly

INSTALL INTERMEDIATE RAFFERS AND BLOCKING:

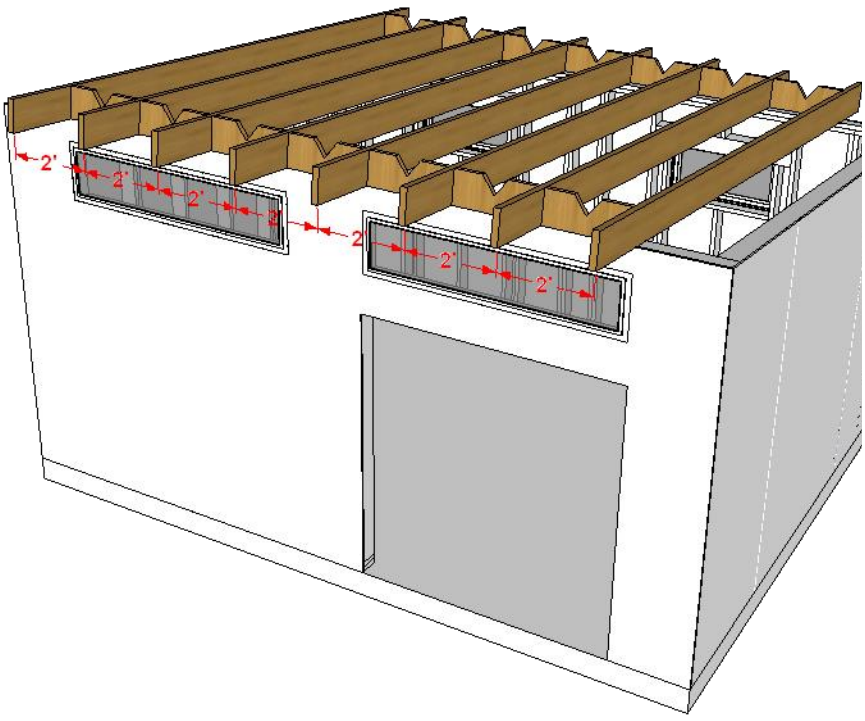
- On center spacing between the rafters should be equal (roughly ~2')

- Use the supplied blocking 'D' material

***Blocking may not have venting notch**

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

Fig 12b:



Reference project installation drawings

INSTALL OUTRIGGERS AND BLOCKING:

(1) Lift into place 'C' blocking

(2) Lift into place the pre-cut rafter blocking (typ. 'D' and'F' blocking)

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

(3) Lift into place outriggers

Outriggers must be flush with top plate and bottom of rafters

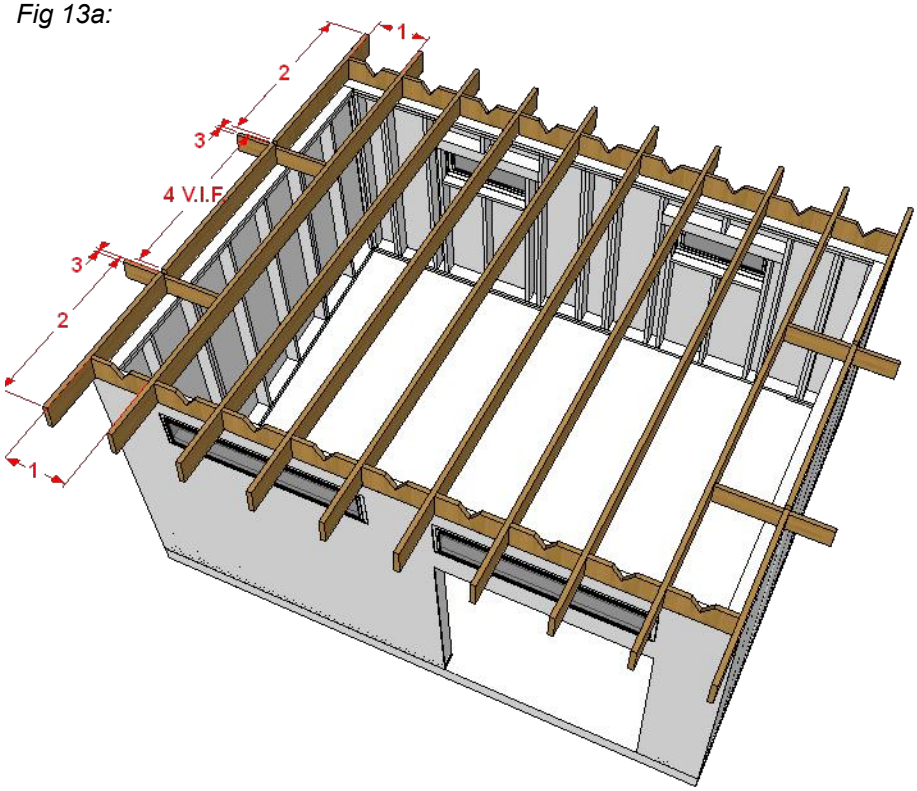
- For vented assembly, outriggers will not be flush with top of rafters.

(4) Lift into place the intermediate blocking (typ. 'E' blocking)

- Nail outrigger to each rafter with three (3) 16d x 3 1/2" galvanized nails.

Reference project installation drawings

Fig 13a:



SUB-FASCIA:

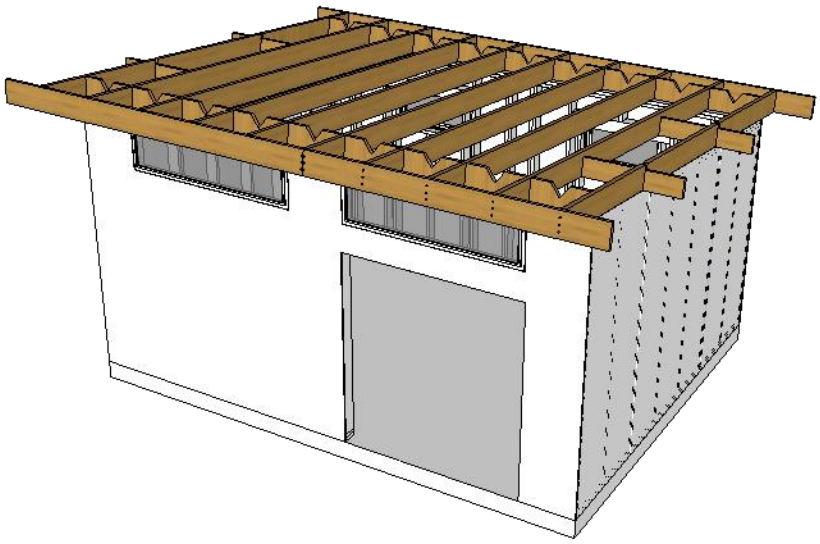
- Install front and back sub-fascia boards.

***Depending on size of rafters, will either be 2x10 or 2x12 sub-fascia boards**

***Depending on roof configuration, the fascia boards will overhang sides by 6" or 16"**

- Nail sub-fascia board to each rafter with three (4) 10d x 3" galvanized nails. Center butt joints, where sub-fascia boards meet, on a rafter

Fig 13b:



Reference project installation drawings

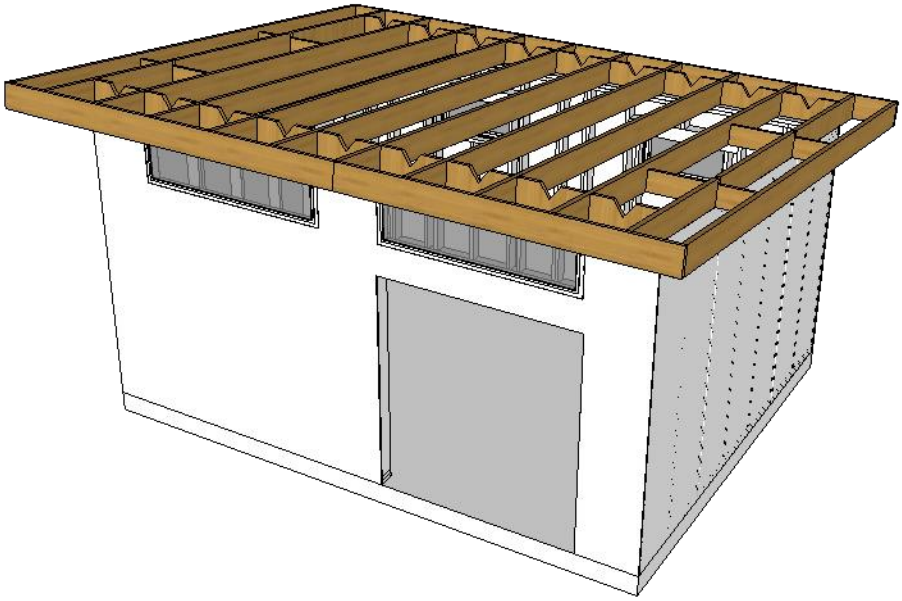
OUTER RAFTERS:

- Install outside LVL rafters on each side

- Nail to outriggers with three (3) 16d x 3 1/2" galvanized nails.

- Nail to sub-fascia boards with three (3) 16d x 3 1/2" galvanized nails.

Fig 14a:



CHECK ROOF ASSSEMBLY 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 ay 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:

- Use the provided metal guide to install the Timberlok screw at the optimal angle of 22.5 degrees @ center of rafter

- Follow Simpson install video for installation without a guide

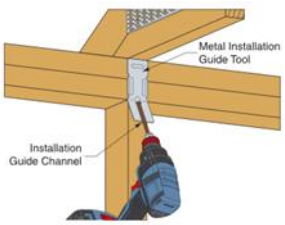
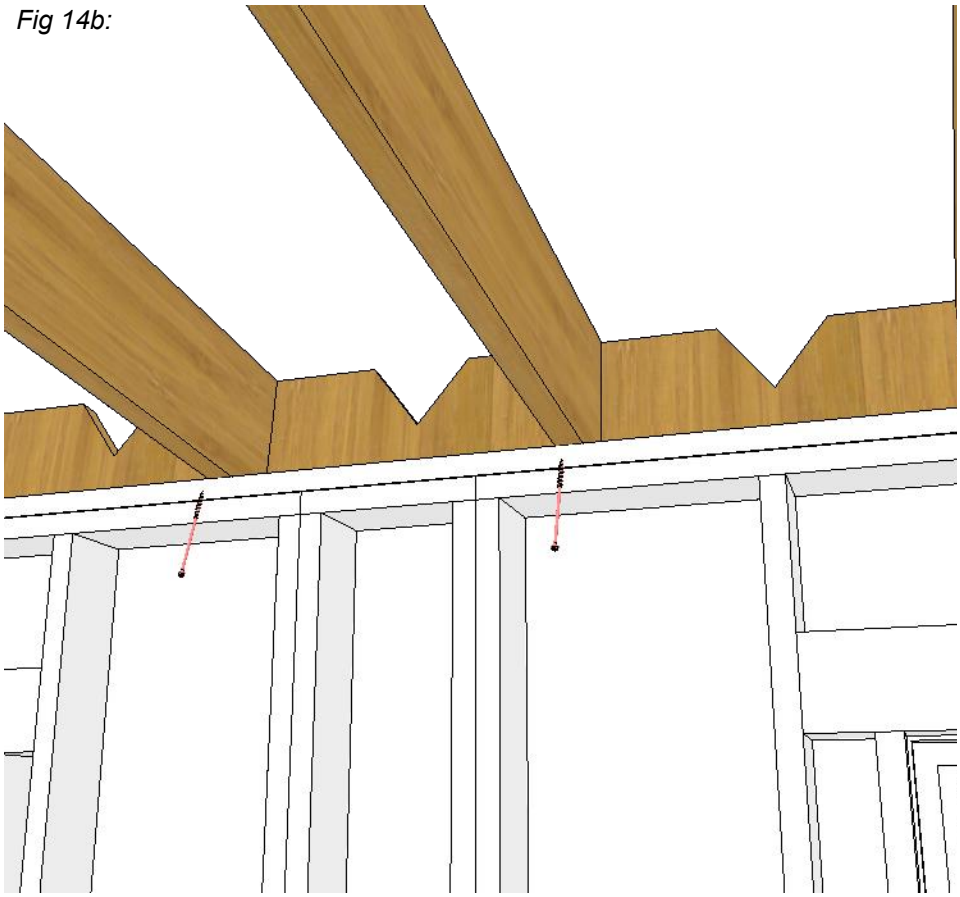


Fig 14b:



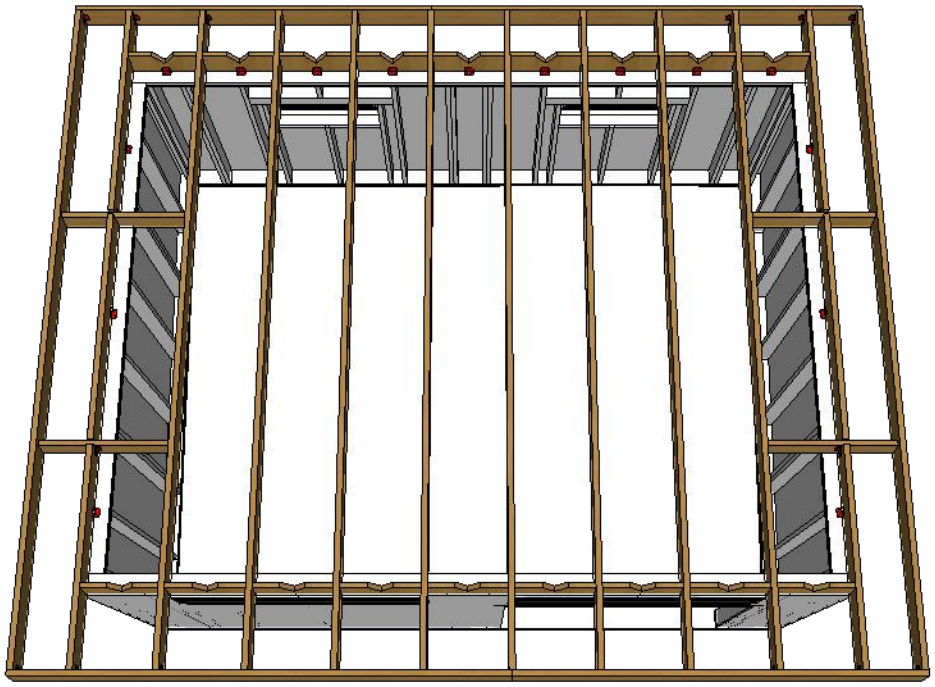
SECURING ROOF ASSEMBLY:

-Toe nail blocking members into rafters and outriggers

- Install A23 brackets at designated locations using 10d x 1 1/2" nails

- For rafter to sub-fascia connections and blocking to outrigger connections, mount bracket vertically centered on rafter.

Fig 15a:



Reference project installation drawings

SOFFIT NAILERS:

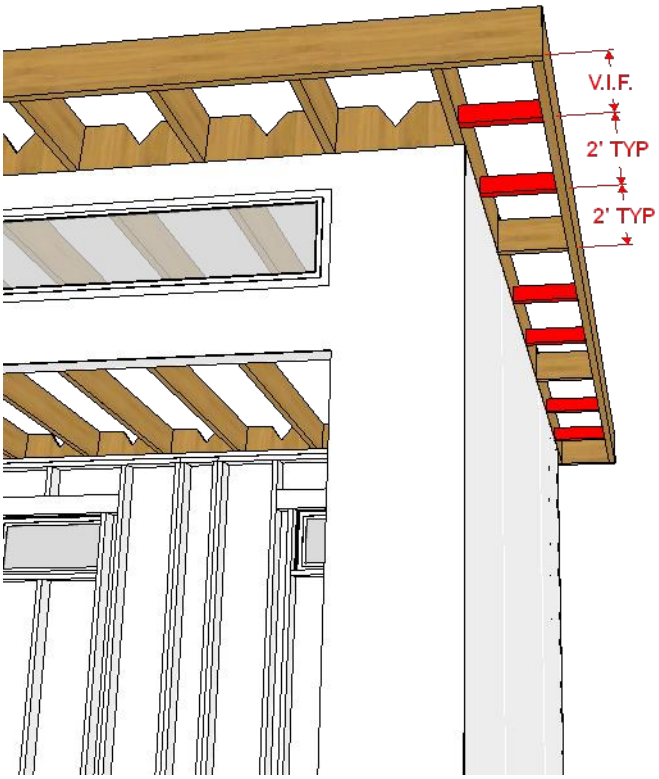
- 2x4 soffit nailers shown in red for clarity

BEWARE OF WHERE NAILS ARE GOING TO AVOID DAMAGE TO THE BUILDING

- Start installing nailers 2'-0" on center from outriggers

- Toe nail 2x4 nailers with two (2) 10d x 3" framing nails at each side

Fig 15b:



Reference project installation drawings

SECURE ROOF SHEATHING:

- Roof sheathing provided in CDX.

- Start along short edge, in the order shown, to maintain leverage when aligning the sub-fascia to the edge of the sheathing.

- Sheathing should be fastened with 8d ring shank nails

Secure with minimal fasteners in case of minor adjustments

Fig 16a:

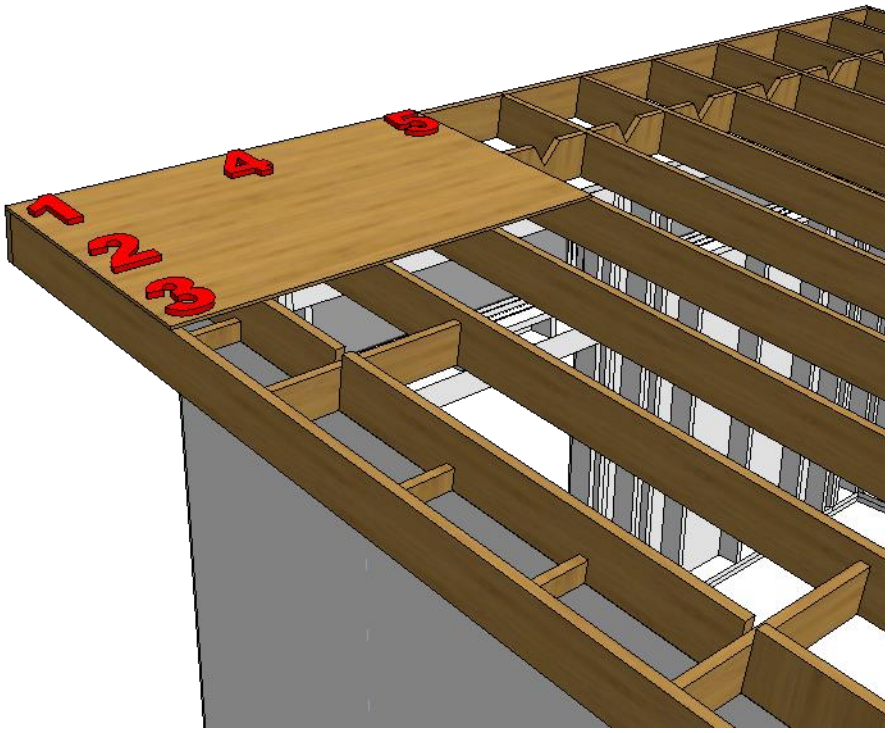
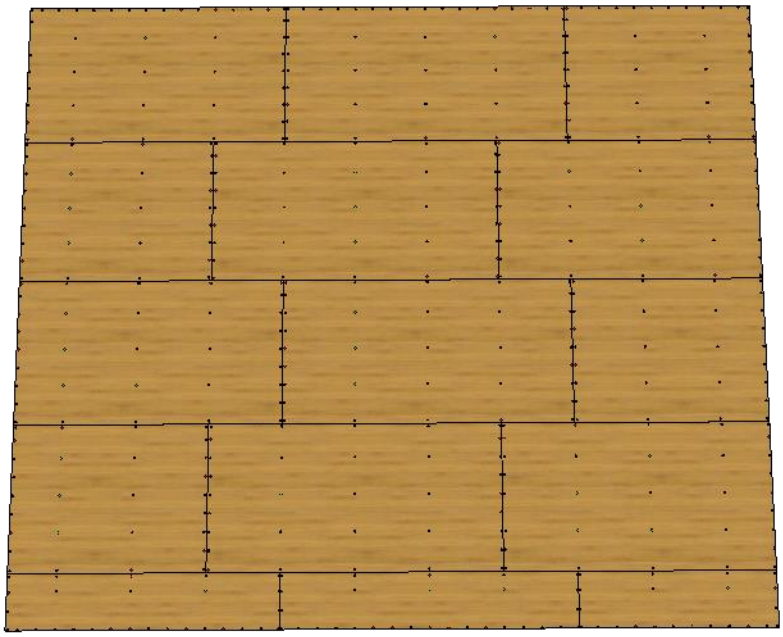


Fig 16b:

- 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, as shown.

- Then nail 12" on center in the field of each panel. Be aware of where nails are going to ensure nails do not poke through framing



Reference project installation drawings

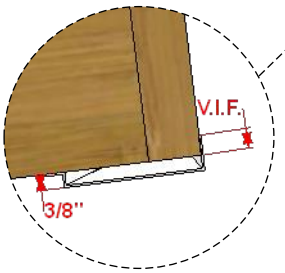
INSTALL VENTING DETAIL:

IF UNVENTED ROOF ASSEMBLY, SKIP THIS STEP

- Line up venting profile with outer face of floating rafter. Front corner to sit 3/8" below rafter's bottom face.

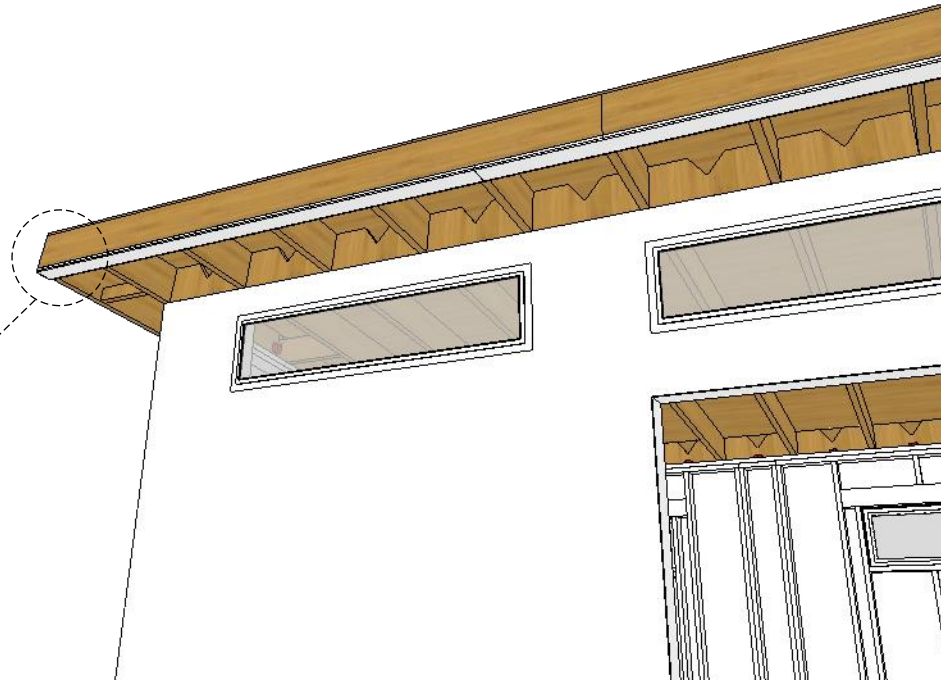
- Use a pneumatic stapler to staple the long leg of venting detail to outer face of sub-fascia board

- Add additional pieces to cover until you reach the outer face of the verge rafter on the other side



Reference project installation drawings

Fig 17a:



INSTALL SOFFIT:

Fig 17b:

- Ensure soffit panels are square prior to nailing it to the roof

Front and Back - align soffit starting from venting profile or outside edge of sub-fascia from the front and back

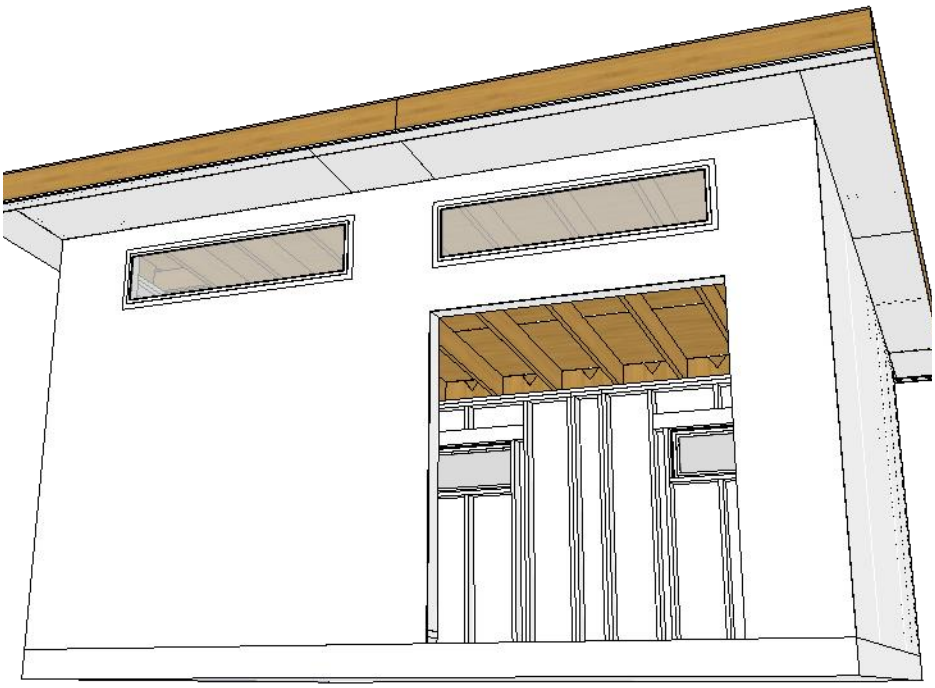
Rake walls - align soffit from outside edge of floating rafter

- Start at front and work towards back

- Nail 4d nails at 8" on center.

Do not install nails closer than 2" from panel corners and 3/8" in from panel edges

- Caulk all seams with an exterior rated paintable caulk and touch-up paint as required



Reference project installation drawings

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

- Measure and plan cuts for corner pieces.

- Wrap corner by cutting drip flange, then bending the vertical face 90°

- 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 venting detail to outer face of sub-fascia board

- Cut other 'S' profile to fit

- Overlap corner pieces by ~3" and staple at overlaps

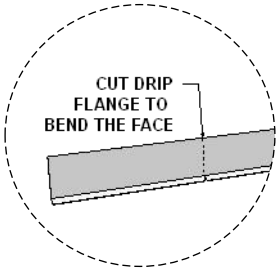
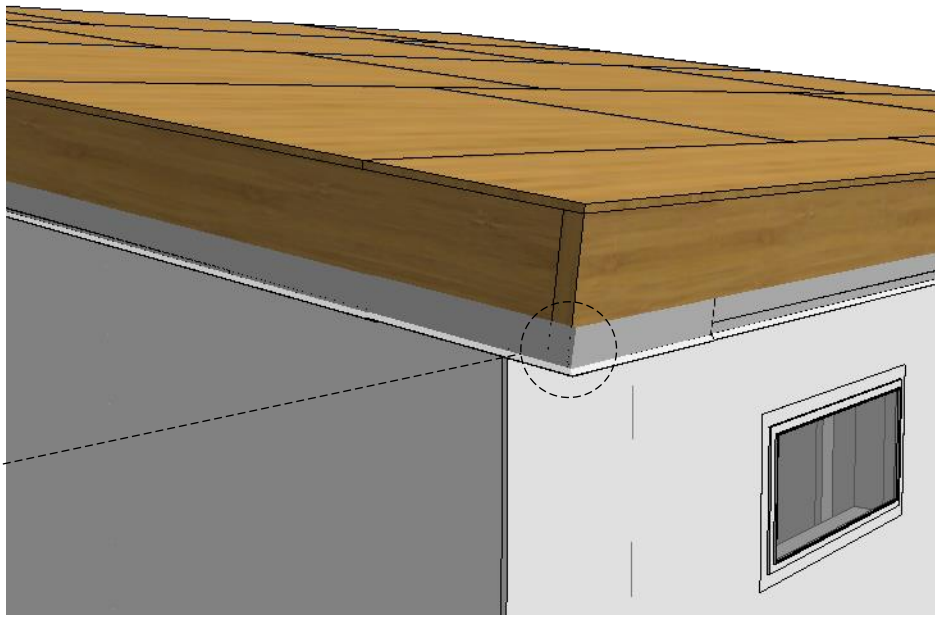


Fig 18a:

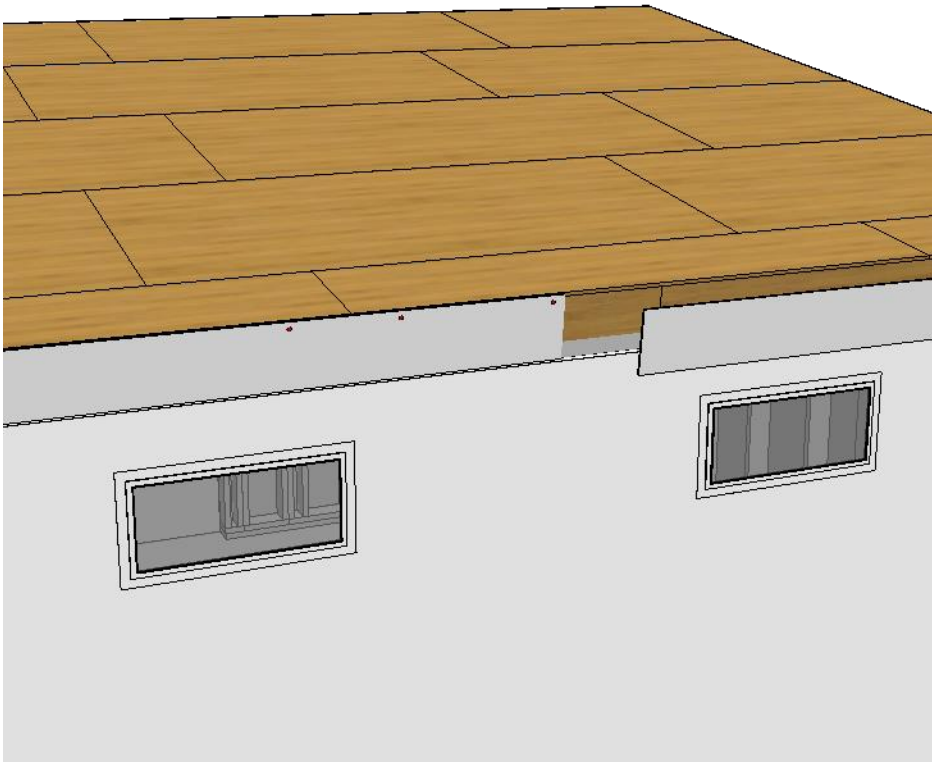


INSTALL HARDIE FASCIA:

- Start at a back corner and work your way to the opposite side to create the first row.

- Review the Hardie Lap siding guide for more info

Fig 18b:



STOP!

PLEASE CONFIRM WHICH ROOF PACKAGE YOU HAVE!

IF R-5 RIGID FOAM INSULATION IS REQUIRED, PLEASE REFER TO THE RIGID FOAM ROOF INSTALLATION GUIDE TO FINISH YOUR SHED

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

Reference permit plan set for applicable projects.

Install metal profile 'J' (back roof drip edge):

- Place one piece of drip edge on top of the roof sheathing.

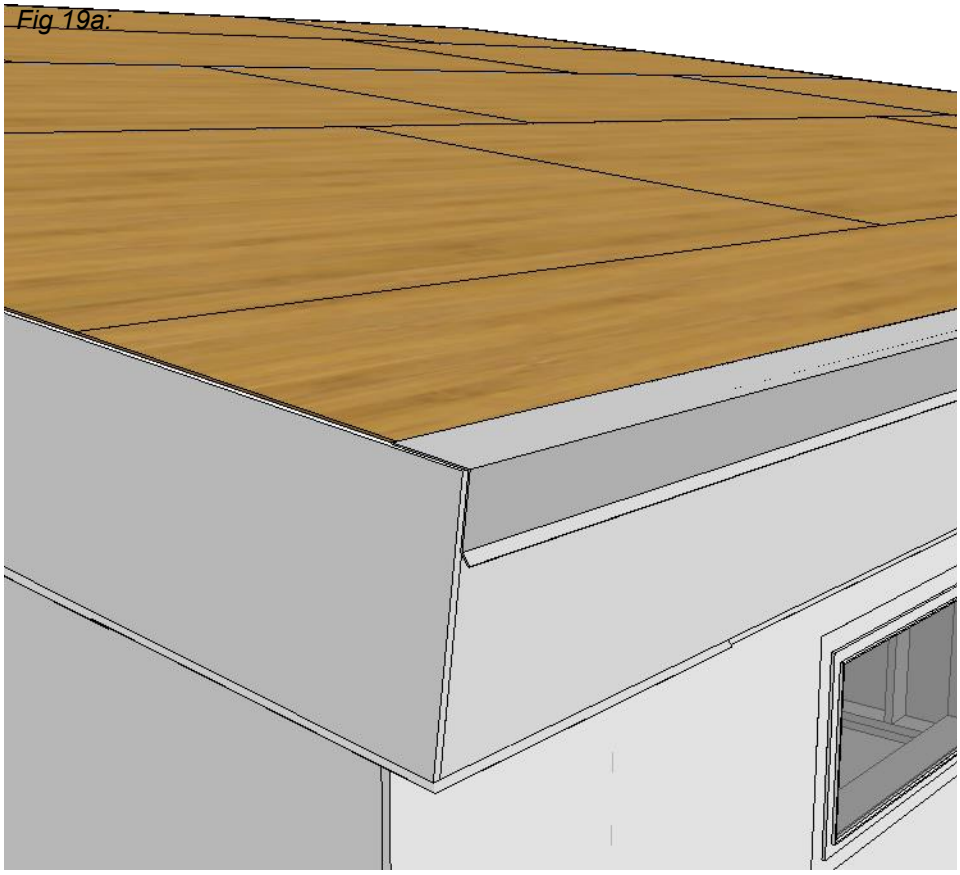
- The short length will be on top

- 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

Fig 19a:



INSTALL ROOFING FELT:

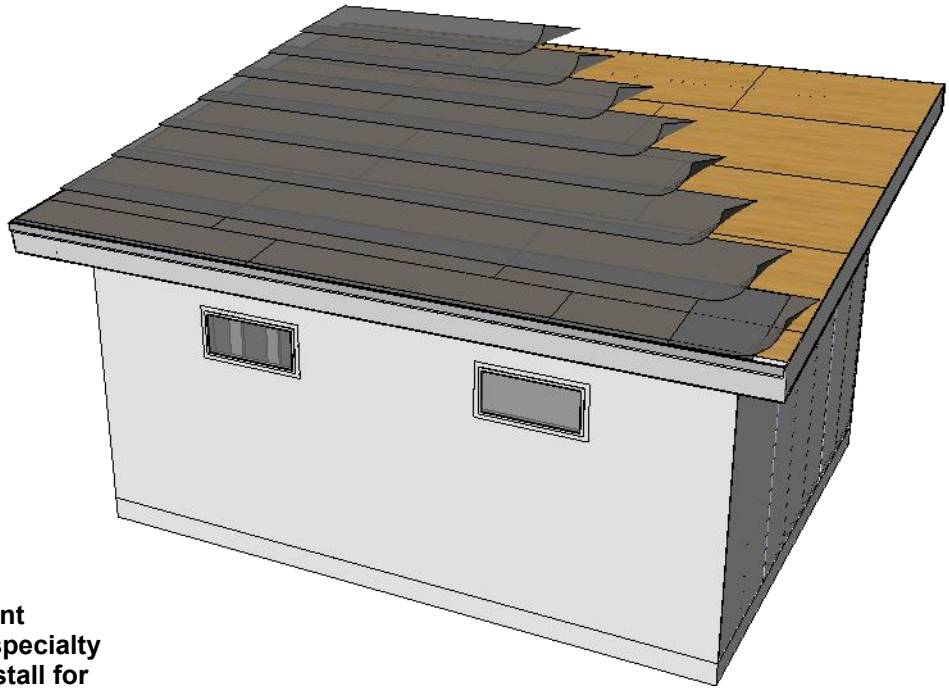
- Start at the low side of the shed and work toward the front

- Overlap each row 6" over the top of the lower row

- Use plastic cap nails or staples to hold felt in place

- Working low to high will ensure proper drainage once the roof is installed

Fig 20a:



Reference permit plan set for underlayment specs. Certain jurisdictions may require specialty underlayment. Consult manufacturer's install for other types

INSTALL CORRUGATED METAL ROOFING:

- Start at a back corner overhanging Hardie fascia by 1/2" and work your way to the opposite side to create the first row. Overlap corresponding panels two peaks

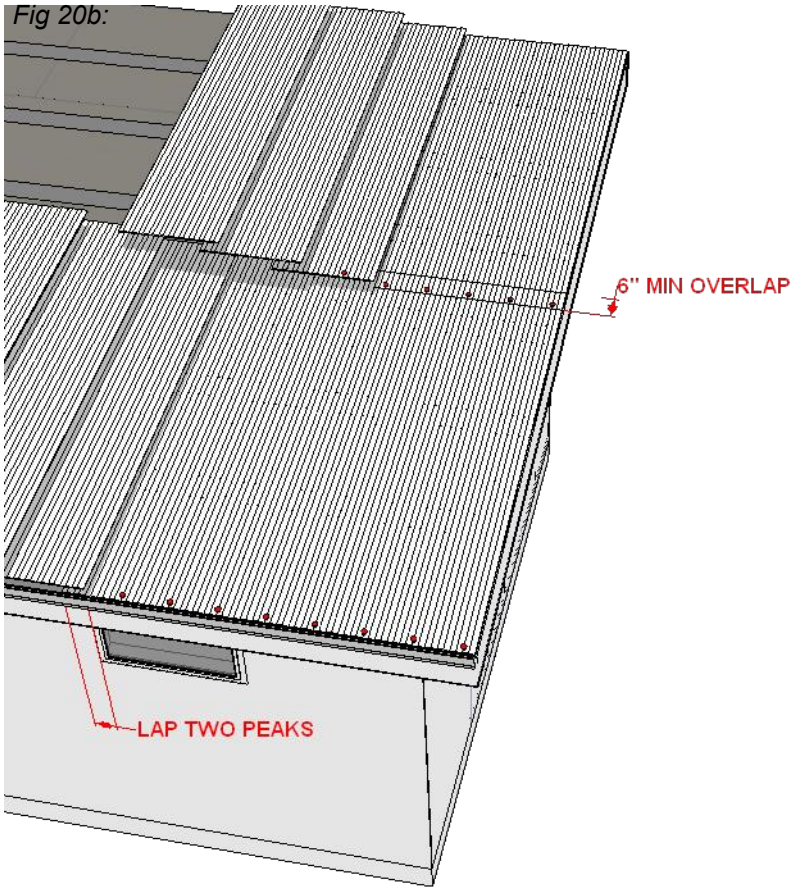
- Using an impact driver and the provided #10 x 1 1/2" neoprene washer screws, install (1) screw 1 1/2" from back edge, then install (1) screw every 4 valleys (~12") along the back edge. Be sure to install screws in the valleys where panels overlap

***Do not grid with fasteners at this time**

- 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**

Fig 20b:



Once all panels are in place:

- Install rows of #10 x 1 1/2" neoprene washer screws 30" on center.

- Measure from the back 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 21a:

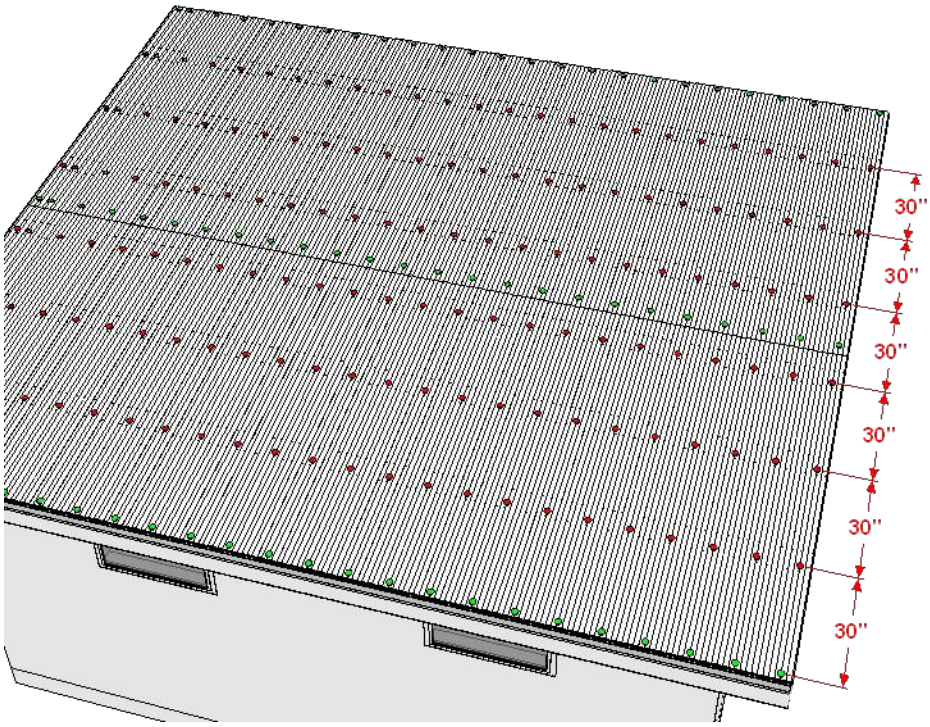


Fig 21b:

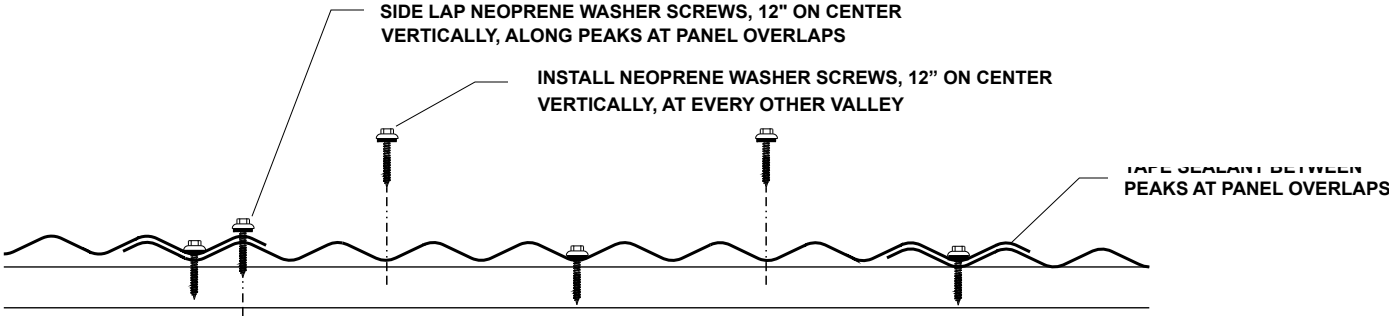


Fig 21c:

- Install #10 x 1 1/2 neoprene washer screws at every other valley

- Screws in green have already been installed

Fig 22a:

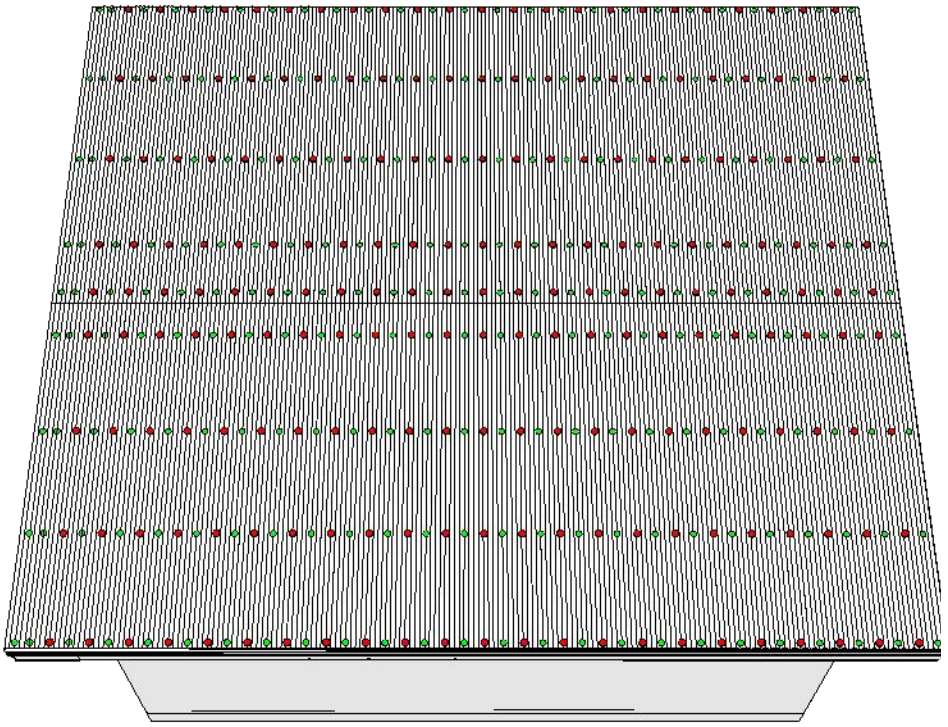


Fig 22b:

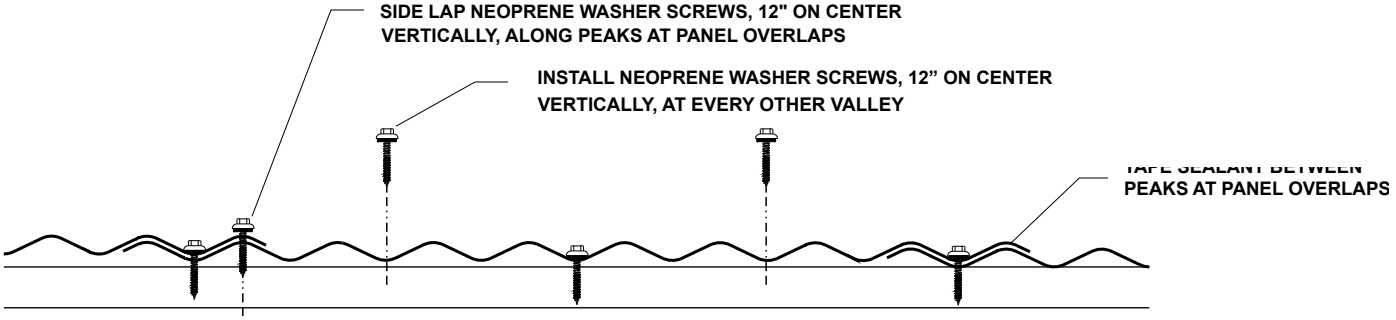
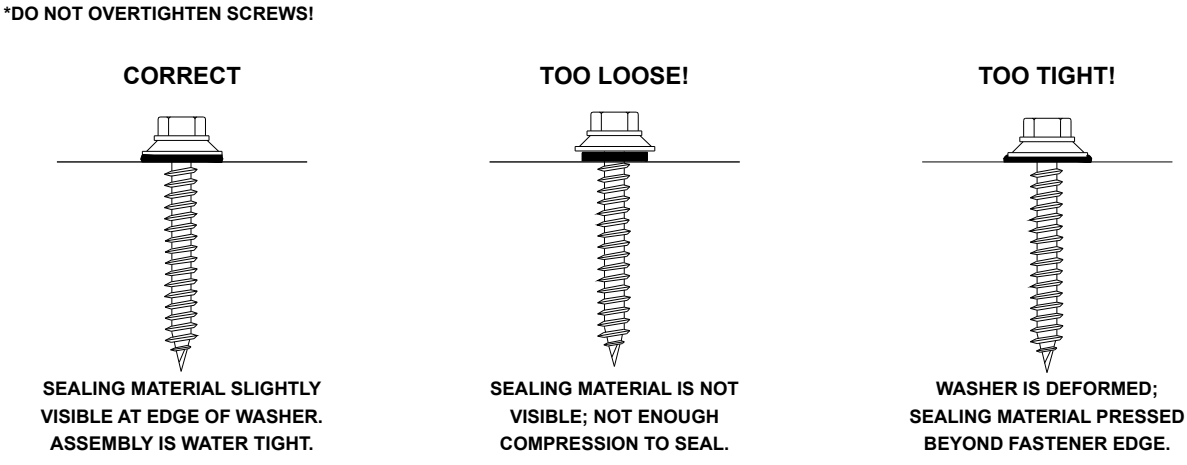


Fig 22c:



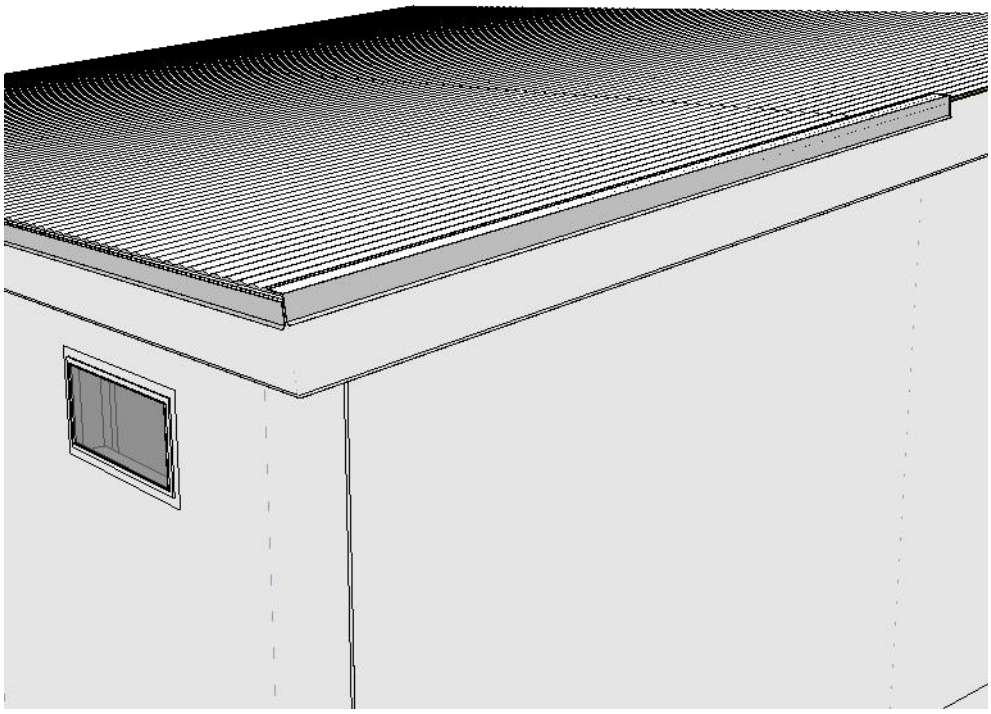
INSTALL THE METAL PROFILE 'A' (ROOF DRIP EDGE) ALONG SIDES AND FRONT OF SHED:

- Install 'A' profile with factory edge aligned at back with ends of roof metal. Use #10 x 1 1/2" screws to stitch top flange of profile to ridge of roof metal at low side, then again at ~24" from high side

***Do not install screws within 3" of front end**

***Do not overtighten screws!**

Fig 23a:



- Measure and plan cuts for corner pieces. Side legs should overlap existing piece by ~3"

- Wrap corner by cutting the top flange and drip flange, then bend the vertical face 90°

- Install screw at overlap of existing 'A' profile Pull front leg on front tight to the corner, then place a screw about 6" from the end of the front leg into a ridge of the metal below

Fig 23b: