Siding, Soffit/Ceilings Training - Basics

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Agenda – Basic Skills

🏠 Safety First

🏠 Windows

🏠 Siding

🏠 Soffit and Porch Ceilings

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Safety First

- 🏠 Safety Glasses required at all times!
- 🏠 Please remove gloves before using ANY power saw.
- 🏠 Always aim air nail guns straight (at a 90 degree angle) toward the siding or trim to avoid nails shooting off at an angle and into another volunteer or yourself.
- 🏠 Keep track of both ends of long trim boards and 16' long sheets of siding so you don't run into volunteers working on site.
- 🏠 Insure that siding is held to the wall by volunteers until it is nailed, even if it is sitting on the Geckos.
- 🏠 Follow all ladder safety guidelines described in the safety speech.
- 🏠 Make a table out of two saw horses and a 4x8 sheet of OSB to enable cutting of materials with a Circular Saw and/or Jig Saw.
- 🏠 Arrange Miter Saw table so the saw dust flies away from the work area

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Windows

🏠Tools and Materials

Tools	Materials
Utility Knife	Windows – various sizes
2' or 3' level	2" Roofing Nails
Hammer	Shims – composite material
Caulk Gun	Flashing Tape
Sawzall/Reciprocating saw – for cleaning up rough opening in wall	Plastic Sill Pans
	Caulk

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Windows

🏠 Preparation and Installation

🏠 Check that OSB Sheathing around rough opening won't interfere with Window

🏠 Check that OSB is completely nailed off (8D nails every 6") around window opening

🏠 Install Plastic Sill Pans, tape seams

🏠 Dry fit Window in rough opening – make sure in is in and out is out, window must be closed ☺

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Windows

- Preparation and Installation
  - Caulk Window flange close to edge (*ensure proper window orientation before install*)
    - No caulk on bottom flange

  - Install Window (closed)
    - Place composite shims on sill below window frame
    - Plumb and level using 2' level on outer frame (Test level by reversing the level)

  - Install 2" Roofing Nails every other hole in window flange
    - No nails in bottom flange

  - Tape Window flanges to blue board (sides first, then top)
    - No tape on bottom flange

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Windows (Brick)

🏠 Brick Wall Windows

   🏠 Requires furr out of window frame with 1x4 trim material (textured side to blue board)
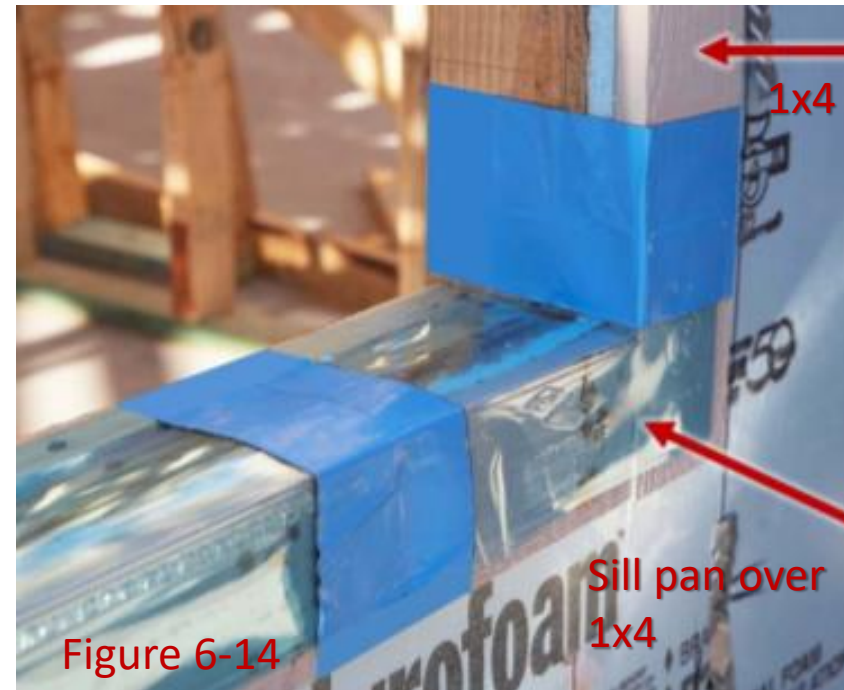
   🏠 Install furr out before installing sill pan

1x4

Sill pan over 1x4

Figure 6-14

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Windows

🏠Quality Checks

   🏠Verify nails go into studs and header

      🏠No nails on bottom flange

   🏠Open and close window to test plumb/level

      🏠Locks well

      🏠Smooth action

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Carpentry Basics

Make sure hook moves

Burn an inch to
test tape measurement

Carpentry Basics

Yes

No

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Carpentry Basics

Aligning saw blades

Place blade on scrap side

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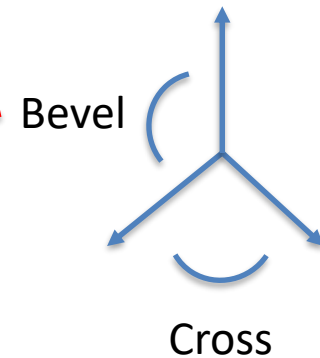
Carpentry Basics

🏠 Miter Saw Alignment

   🏠 Check cross cut and bevel for 90^0

Bevel

Cross

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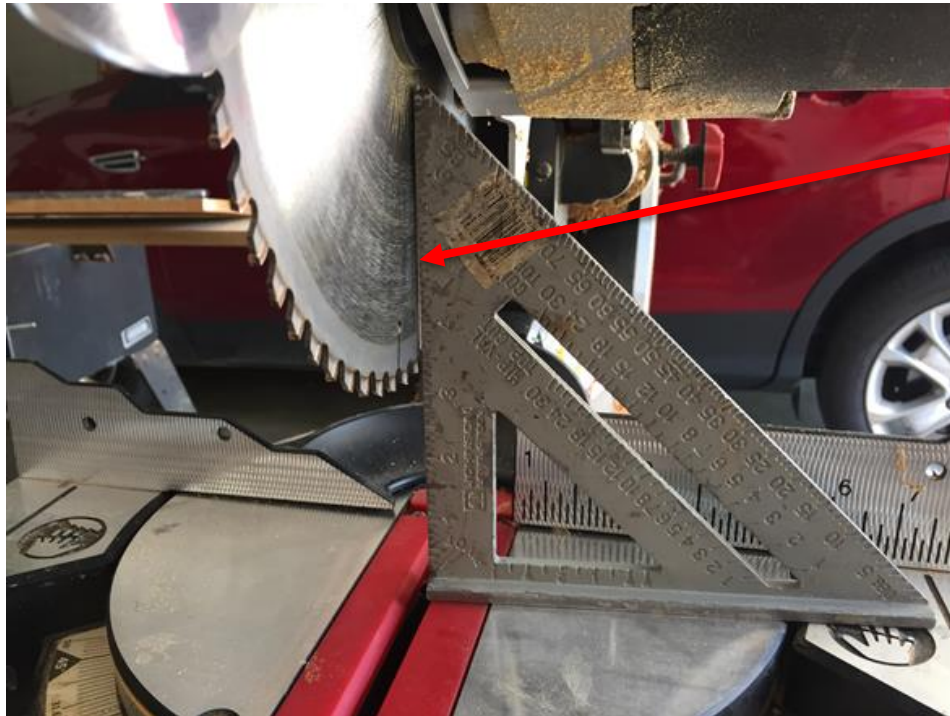
Carpentry Basics

Drawing a circle – use materials on site
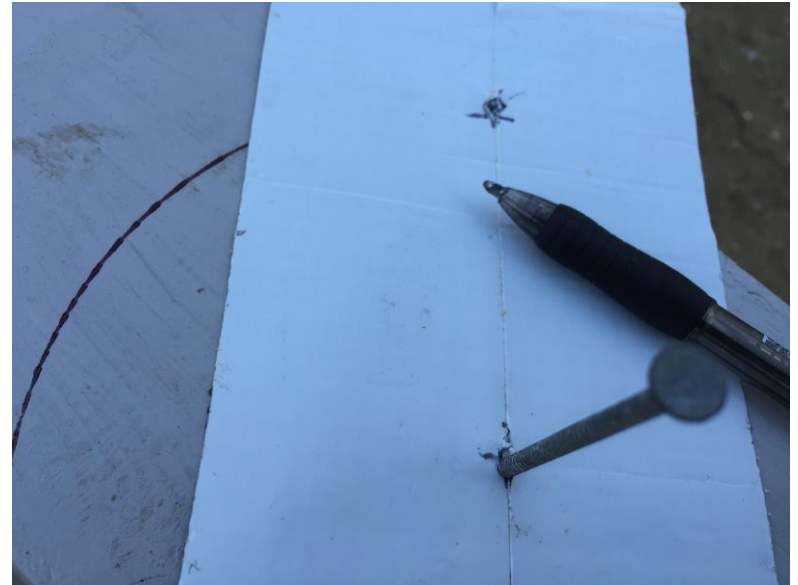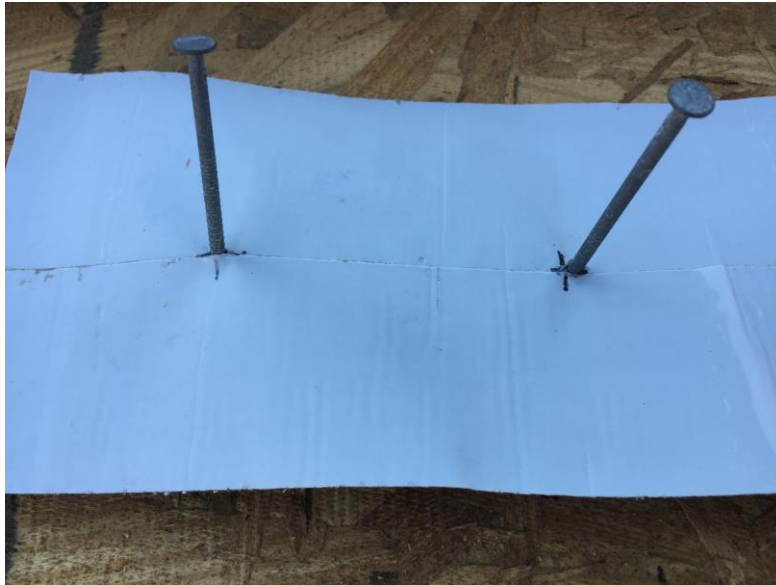
Siding
🏠Tools and Materials

Tools	Materials
Black Sharpies and Pencils	8D Ring Shank Nails
Tape Measure	Siding
Chalk Line	Vapor barrier (wrap) for porch gable
Speed Square	2 ½" Finish Nails for air gun
Miter Saw	
Circular Saw	
Jig Saw	
Geckos	
Hammer	
8' Level – for marking stud lines only	
Drill with bits & Hole Saws – various sizes	
Nail Pullers – various sizes and flat bar	
Finish Nail Gun	
Compressor with hoses	

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Siding

🏠Start with the end in mind ☺

🏠 The 7 Laws of siding

🏠 Reveals shall be 7"

🏠 Nail heads shall not show

🏠 Joints shall be staggered

🏠 Bottom edges shall align at joints

🏠 Bottom edges of rows shall align around corners

🏠 Joints shall be butted tightly

🏠 No joints below, at or above windows/doors AND use full pieces where possible

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Siding

- Preparation and Installation
  - Prepare
    - Check that all blue board is installed and seams are taped
    - Check that wall sheathing and blue board are straight/flat (not warped)
    - Windows must be installed before 3rd row of siding
    - Soffit must be installed prior to top row of siding or gable siding
    - Mark all stud lines on blue board using 8' level and black sharpie
      - 16" OC below cap plate
      - 24" OC on gable above cap plate

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Siding prep

91" between cap plate and top of 1st row of siding

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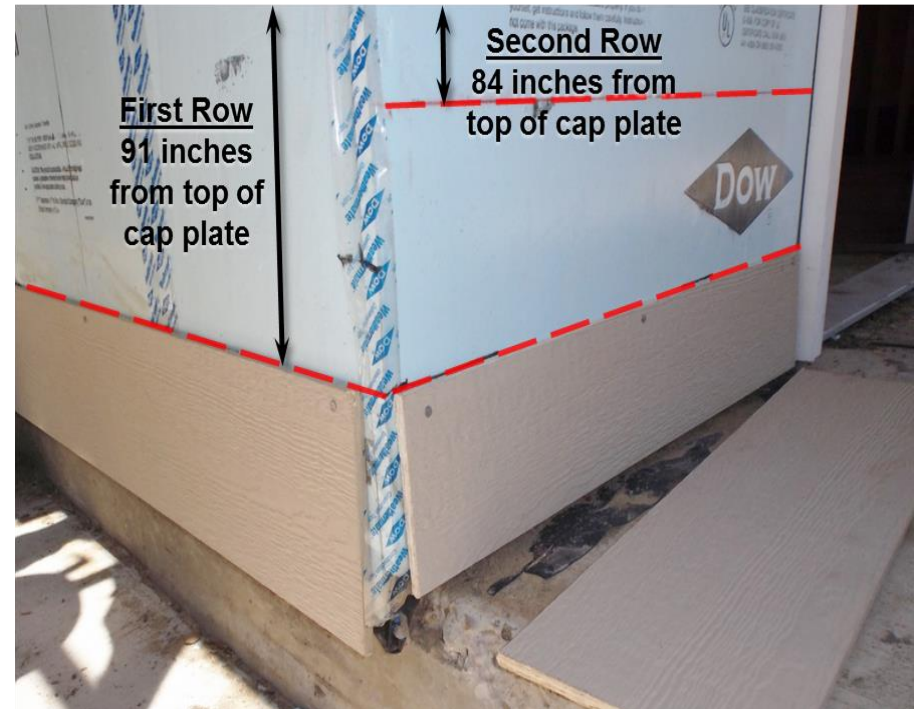# Siding

🏠Preparation and Installation

🏠Prepare

🏠Snap line for top of 1st row, 91" down from top of cap plate (the wall surface on which the trusses rest)

🏠On porch walls only - Snap line for top of 2nd row, 84" down from cap plate

First Row
91 inches from top of cap plate

Second Row
84 inches from top of cap plate

DOW

Note: Chalk line must be very taut to prevent sagging.

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Siding runs all the way to corner

Siding

🏠 Preparation and Installation

🏠 Install First Row

- 🏠 Install one row of siding at a time, starting from corner near longest uninterrupted section of wall (run 1st row all the way around the house)

- 🏠 Install 8D ring shank nails within 3/8" of the top edge of the siding on stud lines (there is only ¾" overlap row to row)

- 🏠 Don't over-nail – i.e. stop nail just as head touches siding surface (prevents wavy wall)
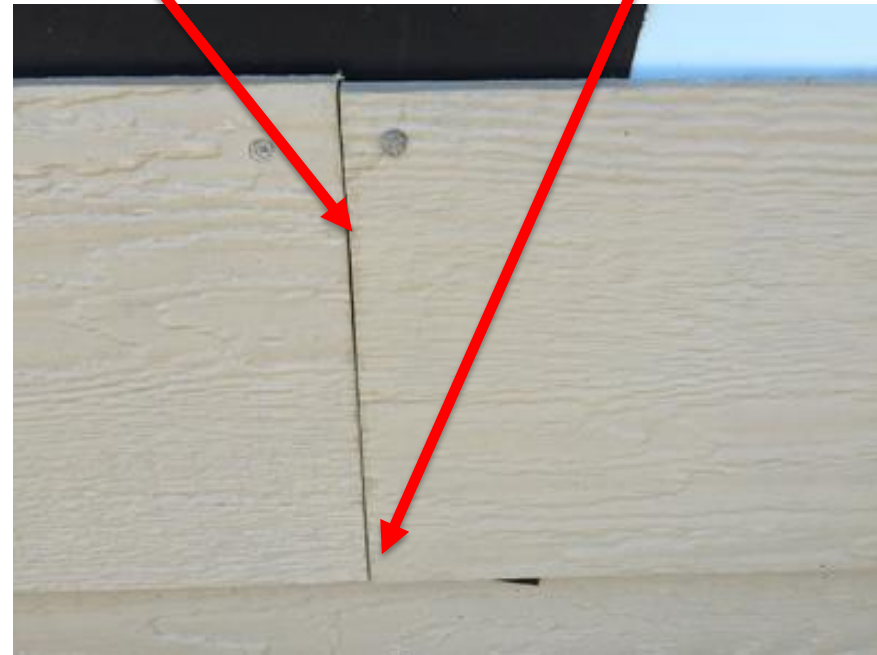

¾"

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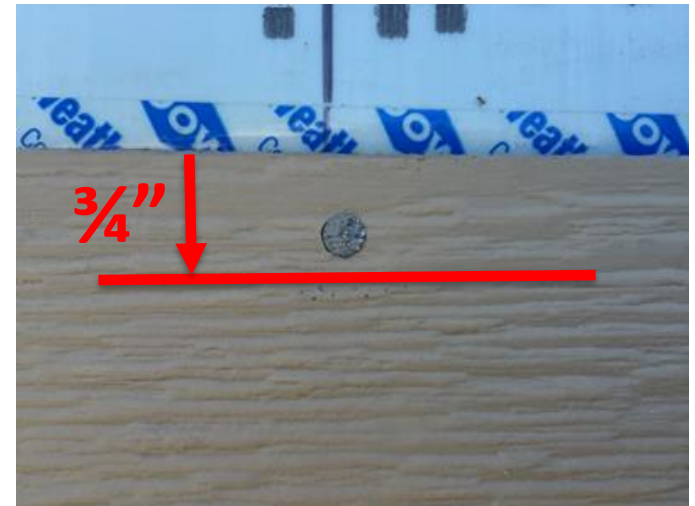
Siding

🏠Preparation and Installation

  🏠Install First Row

    🏠Install 8D ring shank nails near siding seams as needed

    🏠Cut square cuts in siding using Miter Saw (Only)

Seams butt tightly   Bottom edges must align

NOTE: If siding after electrical panel is installed, ensure nails don't penetrate wiring!

Siding

🏠 Preparation and Installation

  🏠 Install First Row

    🏠 All cut-outs in siding should fit tightly to wall protrusions (plumbing gaskets and pipes, vents, wires, electrical fixtures), use drill, hole saws and jig saw as needed

Siding

- ⌂ Preparation and Installation
  - ⌂ Install higher rows – non-gable wall
    - ⌂ Use same basic rules as with 1st row installation
    - ⌂ Top edge of 2nd row of siding on a porch should be set at 84" below top of cap plate
    - ⌂ Seams must be staggered by at least 4' row to row, on long wall sections use pattern of seams that repeats only after 4 rows

4' minimum

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Siding

Check 7" reveal every row
* draw storyboards
* extend tape from bottom
  row and check the 7's

7"

🏠 Preparation and Installation

🏠 Install higher rows – non-gable wall

🏠 Use Geckos to establish 7" reveal row to row

🏠 One Gecko near each end and one in the middle for long sheets

Siding

🏠 Preparation and Installation

    🏠 Install higher rows – non-gable wall

        🏠 Siding should extend under window flanges, leave 1/8"-1/4" gap

        🏠 No seams in siding within the row directly below or above a Window or Door – i.e. cut U-Shape openings in siding using a circular saw and a jig saw

Leave 1/8"-1/4" gap

Add finish nails under large window

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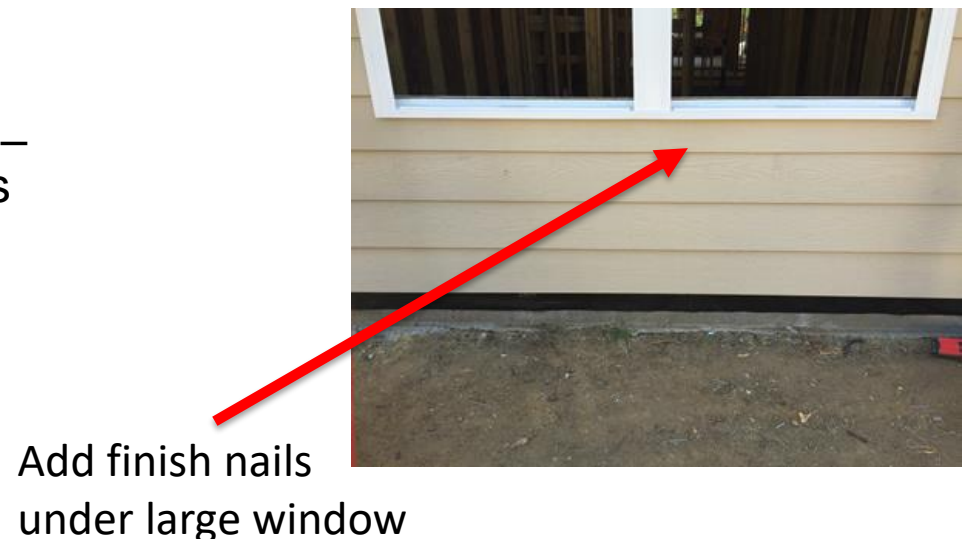
Siding (Garage Opening)

🏠 Preparation and Installation

- 🏠 Install higher rows – non-gable wall
- 🏠 Install 2x8 on opening
- 🏠 Install one row above top opening
- 🏠 Add 1x4 trim
- 🏠 Add z-flashing (fold ends)
- 🏠 Capture the top edge of z-flashing with a row of siding

Finished Look

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Install ceilings and soffit before top row of siding

Siding

🏠 Preparation and Installation

    🏠 Install higher rows – non-gable wall

        🏠 Top row of siding on non-gable walls may need to be shortened (ripped) using Circular Saw to maintain 7" reveal
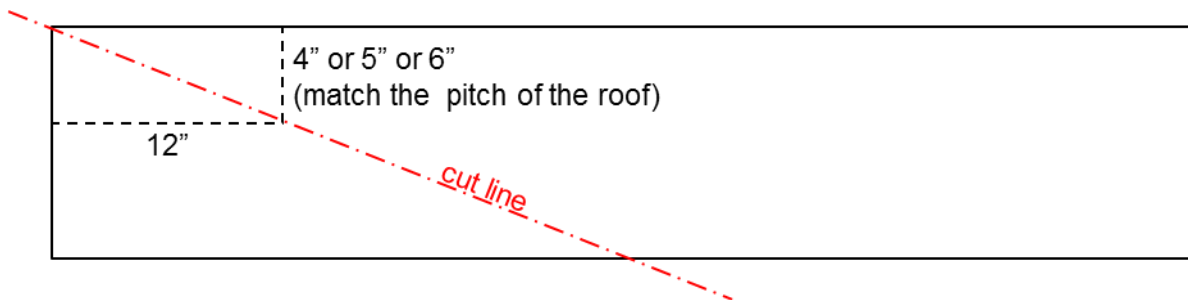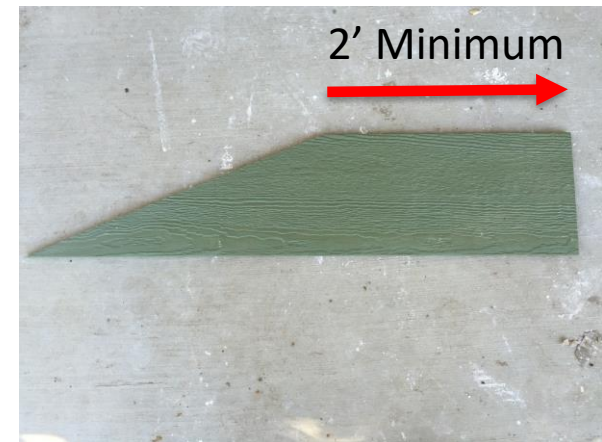
7"

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- Install corner trim first
- 1st row on gable dies into trim and soffit
- Remaining rows goes to soffit

Siding

🏠 Preparation and Installation
  - 🏠 Install higher rows – Gable wall
    - 🏠 Use same basic rules as 1st row and higher rows on non-gable wall
    - 🏠 Seams must be staggered by at least 4' row to row
    - 🏠 Cut angles in siding using Circular Saw

4" or 5" or 6"
(match the pitch of the roof)

12"

cut line

2' Minimum

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Siding

🏠 Quality Checks

- 🏠 Reveals shall be 7"
- 🏠 Nail heads shall not show
- 🏠 Joints shall be staggered
- 🏠 Bottom edges shall align at joints
- 🏠 Bottom edges of rows shall align around corners
- 🏠 Joints shall be butted tightly
- 🏠 No joints below, at or above windows/doors

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Siding

🏠 Quality Checks

🏠 Check that 8D ring shank nails don't pull siding into blue board creating waviness

🏠 Check that all siding lays flat on the wall – finish nails may be added to tack down siding

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![Dallas Area Habitat for Humanity]

Soffit and Porch Ceilings

🏠Tools and Materials

Tools	Materials
Black Sharpies and Pencils	8D Coiled Ring Shank Nails
Tape Measure	Soffit
Chalk Line	Ceiling Material
Speed Square	2x4's for ceiling blocking
Coil Nailer Air Gun	12D Framing Nails for ceiling blocking
Circular Saw	
Hammer	
Compressor	
Air Hoses	

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Soffit and Porch Ceilings

🏠Soffit - Preparation and Installation

🏠Prepare

🏠Mark location of truss tails on blue board and back side of Fascia

🏠Setup saw horses and 4x8 sheet of OSB/Sheathing for cutting table

🏠Circular saw will be used to cut soffit material

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Soffit and Porch Ceilings

🏠 Soffit - Preparation and Installation

🏠 Install "Rake" soffit 1st or use temporary for spacing

🏠 Install Soffit above horizontal walls

🏠 Soffit runs into rake soffit (Flat Truss Tails)

🏠 Measure from Rake soffit to middle of a truss tail – less than 16'

🏠 Soffit ends should always land in middle of truss tail
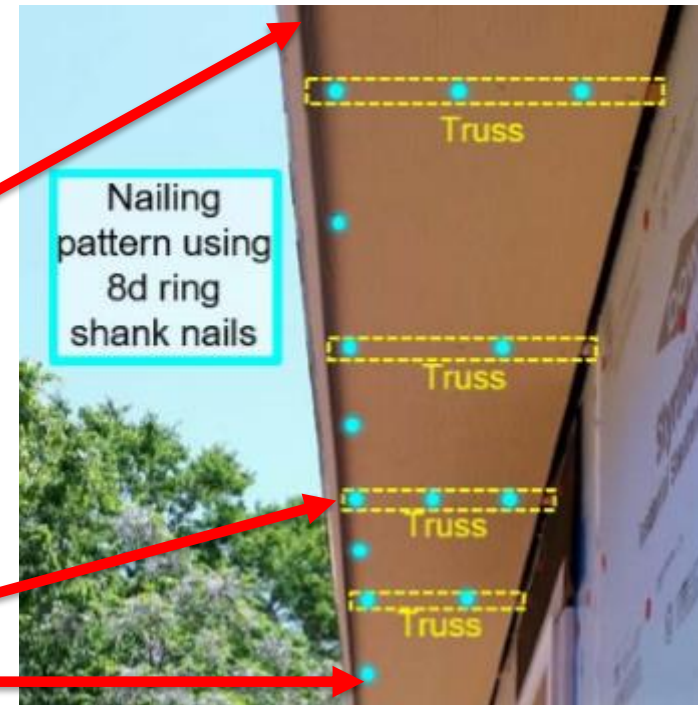
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Soffit and Porch Ceilings

🏠 Soffit - Preparation and Installation

  🏠 Install Soffit above horizontal walls

   🏠 Soffit should fit tightly to back of fascia – gap against wall is ok

   🏠 Install soffit with 8D ring shank nails using a coil nail air gun, nail heads must be sub-surface

   🏠 Work from one end of soffit

    🏠 3 / 2 (alternate) nails per truss tail

    🏠 1 nails in sub-fascia between truss tails

Nailing pattern using 8d ring shank nails

Truss

Truss

Truss

Truss

Soffit and Porch Ceilings

🏠 Soffit - Preparation and Installation

  🏠 Install Soffit above gable walls

   🏠 Soffit should start butted to eave facia.

   🏠 Install longer piece first, short piece near peak

   🏠 Soffit ends should always land in middle of ladder rung

   🏠 Soffit should fit tightly to back of fascia – gap against wall is ok

   🏠 Install soffit with 8D ring shank nails using a coil nail air gun

   🏠 Work from one end of soffit, 3 nails per ladder rung, 1 nail in sub-fascia

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Soffit and Porch Ceilings

🏠 Soffit - Quality Checks

   🏠 Check that 8D ring shank nail heads are below surface of soffit

   🏠 Check that gaps between soffit sections are minimal

   🏠 Check that gap between soffit and fascia is minimal

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Soffit and Porch Ceilings

🏠 Porch Ceilings - Preparation and Installation

🏠 Prepare

🏠 Mark location of trusses on blue board and/or back side of porch beams

🏠 Setup saw horses and 4x8 sheet of OSB for circular saw cutting table

🏠 Check that you have nailing surfaces above the porch beam and above the front wall – add 2x4 nailers as needed

🏠 Add 2x4 blocks (flat) for nailers centered every 4' (ceiling materials comes in 4'x8' sheets). Place nailers to enable using a full sheet over the front door opening.

4'

Truss

Truss

Block

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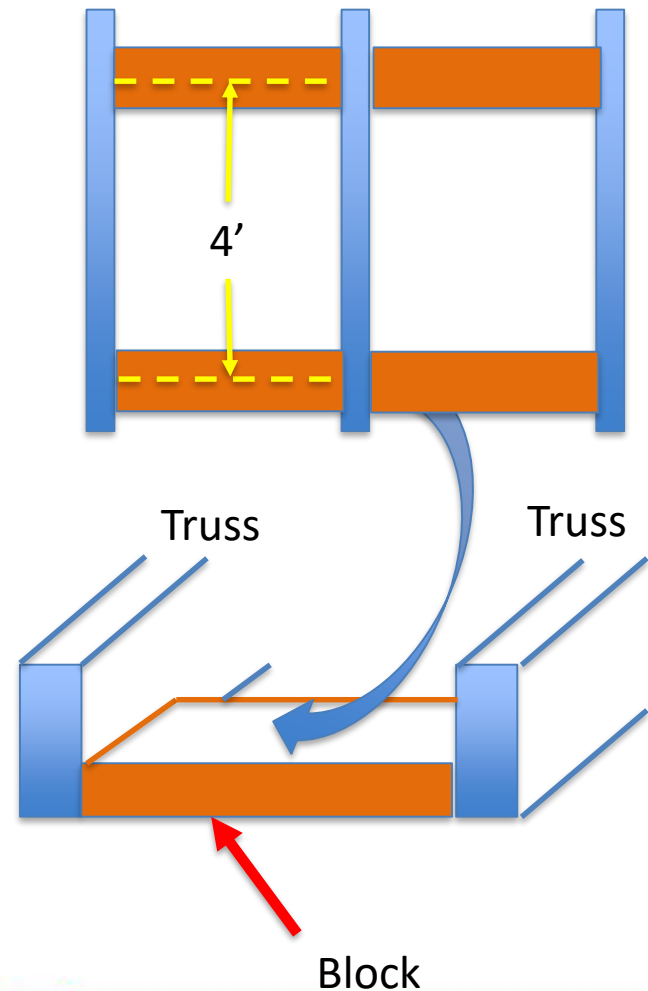
Soffit and Porch Ceilings

🏠 Porch Ceiling - Preparation and Installation

   🏠 Prepare

      🏠 Cut away OSB overhang above back porch to make room for ceiling

      🏠 Ceiling should extend ~3/8" past blue board to close gap at back of siding

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Soffit and Porch Ceilings

- 🏠 Porch Ceilings - Preparation and Installation
  - 🏠 Install Ceiling
    - 🏠 Start ceiling with a full sheet (i.e. 4' width) over the front door
    - 🏠 Measure distance from front wall to porch beam for length of 4' section of ceiling material
    - 🏠 Install ceiling using 8D ring shank nails using a coil nail air gun
    - 🏠 Ceiling should butt tightly to porch beam and to other ceiling sections
   - 🏠 Ripped edges go to beam, factory edges in the field

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Soffit and Porch Ceilings

🏠 Porch Ceilings - Preparation and Installation

🏠 Install Ceiling

🏠 Place nails every 12" along nailers and along trusses

🏠 Ceiling material should end halfway across nailer blocks so that two ceiling sections land on each nailer block

🏠 Cut holes for electrical fixtures using a jig saw – hole should fit tightly to fixture

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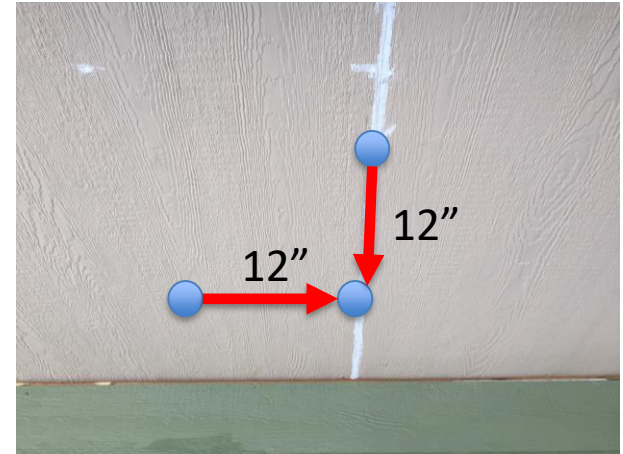
Soffit and Porch Ceilings

🏠Porch Ceiling - Quality Checks

  🏠Check that 8D ring shank nail heads are below surface of ceiling

  🏠Check that gaps between ceiling sections are minimal

  🏠Check that gap between ceiling and porch beam is minimal

  🏠Nail spacing every 12"

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Questions?

Thanks!

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Agenda – Advanced

- ⌂ Organization and Leadership
- ⌂ Preparation and Process Steps
- ⌂ Rework
- ⌂ Differences between Magnolia, Hawthorn and Trinity house plans
- ⌂ Porch posts
- ⌂ Trimming brick houses
    - ⌂ Brick Frieze
    - ⌂ Bird Boxes
- ⌂ Paint Prep
- ⌂ Paint

This section is To Be Developed – not part of this deck

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